



PRODUCT CATALOGUE
2024

News since the last version

- aquatherm green pipe becomes aquatherm green
- aquatherm blue pipe becomes aquatherm blue
- aquatherm red pipe becomes aquatherm red
- aquatherm black system becomes aquatherm black
- aquatherm ti becomes aquatherm energy

Recommended retail price of the manufacturer.

Technical details and prices are subject to change.
With the edition of this article list, all former ones become void.

Our sales and delivery conditions (January 2014) and the contacts of our technical sales and distribution see on our homepage www.aquatherm.de

Table of content

| | | | |
|---|-----------|--|------------|
| Overview | 2 | | |
| Product overview: dimension | 2 | | |
| Product overview: fields of application | 3 | | |
| ➔ aquatherm black | 4 | ➔ aquatherm energy | 122 |
| Heating and cooling grids | 6 | energy blue pipes / basic elements | 124 |
| Accessories | 13 | energy blue elbows | 126 |
| Control components | 16 | energy blue branch | 129 |
| | | energy green pipes / basic elements | 141 |
| | | energy green elbows | 141 |
| | | energy green branch | 142 |
| | | energy half shells | 143 |
| | | energy sockets | 144 |
| | | Accessories | 148 |
| ➔ aquatherm blue | 30 | ➔ aquatherm red | 150 |
| Pipes / basic elements | 32 | Pipes / basic elements | 152 |
| Socket | 37 | Fittings | 153 |
| Elbow | 39 | Transition pieces | 160 |
| T-pieces | 43 | Accessories | 162 |
| Cross / Cross over fitting | 50 | | |
| End cap | 51 | ➔ aquatherm Tools | 164 |
| Reducing sockets | 52 | Welding device / welding machine | 166 |
| Transition pieces | 55 | Tools | 167 |
| Weld-in and weld-on saddle | 59 | Accessories | 174 |
| Screwed connections | 63 | | |
| Flange adapter | 67 | ➔ aquatherm service and quality | 178 |
| Valves | 69 | Technical support contact | 178 |
| Assembly elements | 74 | Permissible working pressure | 180 |
| Distributors | 77 | Permissible working pressure – potable water | 181 |
| Accessories | 78 | | |
| | | ➔ Article number directory | 182 |
| ➔ aquatherm green | 80 | | |
| Pipes / basic elements | 82 | | |
| Socket | 85 | | |
| Elbow | 86 | | |
| T-pieces | 89 | | |
| Cross / Cross over fitting | 92 | | |
| End cap | 93 | | |
| Reducing sockets | 94 | | |
| Transition pieces | 96 | | |
| Weld-in and weld-on saddle | 101 | | |
| Screwed connections | 104 | | |
| Flange adapter | 108 | | |
| Valves | 110 | | |
| Assembly elements | 114 | | |
| Accessories | 119 | | |

aquatherm is the leading manufacturer of polypropylene pipe systems for plant engineering and building services.

Abbreviations pipe structure:

- S** single-layer
- M** multi-layer
- MF** multi-layer, fibre-reinforced
- RP** raised pressure resistance
- UV** UV-resistant
- OT** oxygen-tight
- Energy** thermally insulated
- HI** hardly inflammable

Abbreviations material:

- PP** polypropylene
- PP-R** polypropylene random copolymer
- PP-RCT** polypropylene random copolymer with raised pressure resistance
- PE-RT** polyethylene with raised temperature resistance

Fields of application:

- potable water application
- heating system construction
- connection heating and cooling
- underfloor heating
- wall heating
- ceiling heating and cooling
- industrial floor cooling
- industrial floor heating
- refrigeration
- agriculture
- sports floor heating and cooling
- swimming pool technology
- chemical transport
- rainwater application
- irrigation
- fire protection sprinkler-systems
- shipbuilding
- district heating pipeline systems
- geothermal

Lengths units in mm unless otherwise specified

Weight weight data in kg/m

Radius all data in inches

Volume water content in litre/metre

SDR standard dimension ratio

PU packing unit

aquatherm blue

| Diameter in mm | 16 | 17 | 20 | 25 | 32 | 40 | 50 | 63 | 75 | 90 | 110 | 125 | 160 | 200 | 250 | 315 | 355 | 400 | 450 | 500 | 630 | |
|-------------------|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| SDR 7.4 MF | | | ● | ● | | | | | | | | | | | | | | | | | | |
| SDR 7.4 MF UV | | | ● | ● | | | | | | | | | | | | | | | | | | |
| SDR 7.4 MF OT | | | ● | ● | | | | | | | | | | | | | | | | | | |
| SDR 9 MF RP | | | | | ● | | | | | | | | | | | | | | | | | |
| SDR 9 MF RP UV | | | | | ● | | | | | | | | | | | | | | | | | |
| SDR 9 MF RP OT | | | | | ● | | | | | | | | | | | | | | | | | |
| SDR 11 S | | | ● | ● | | | | | | | | | | | | | | | | | | |
| SDR 11 MF RP | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| SDR 11 MF RP UV | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| SDR 11 MF RP OT | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| SDR 17.6 MF RP | | | | | | | | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| SDR 17.6 MF RP UV | | | | | | | | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

aquatherm green

| Diameter in mm | 16 | 17 | 20 | 25 | 32 | 40 | 50 | 63 | 75 | 90 | 110 | 125 | 160 | 200 | 250 | 315 | 355 | 400 | 450 | 500 | 630 | |
|----------------|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| SDR 6 S | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| SDR 7.4 S | | | ● | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| SDR 7.4 MF | | | ● | ● | ● | | | | | | | | | | | | | | | | | |
| SDR 7.4 MF UV | | | ● | ● | ● | | | | | | | | | | | | | | | | | |
| SDR 9 MF RP | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| SDR 9 MF RP UV | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| SDR 11 S | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

aquatherm energy green & blue

| Diameter in mm | 16 | 17 | 20 | 25 | 32 | 40 | 50 | 63 | 75 | 90 | 110 | 125 | 160 | 200 | 250 | 315 | 355 | 400 | 450 | 500 | 630 | |
|----------------|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| SDR 9 MF RP | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| SDR 9 MF RP | | | | | ● | | | | | | | | | | | | | | | | | |
| SDR 9 MFRP OT | | | | | ● | | | | | | | | | | | | | | | | | |
| SDR 11 MF RP | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| SDR 11 MFRP OT | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| SDR 17.6 MF RP | | | | | | | | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

aquatherm red

| Diameter in mm | 16 | 17 | 20 | 25 | 32 | 40 | 50 | 63 | 75 | 90 | 110 | 125 | 160 | 200 | 250 | 315 | 355 | 400 | 450 | 500 | 630 | |
|----------------|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| SDR 7.4 HI | | | | | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |

The numerous product lines provide superior solutions in potable water applications, heating systems, fire sprinkler systems, air-conditioning and refrigeration technology, as well as in surface heating and cooling systems.

- System recommended due to its technical advantages
- Application of the system is suitable

aquatherm black

| | potable water | HVAC | swimming pool | chemical fluids | recycled & reclaimed water | compressed air | district heating | geothermal | shipbuilding sector | refrigeration & air conditioning |
|------|---------------|------|---------------|-----------------|----------------------------|----------------|------------------|------------|---------------------|----------------------------------|
| M OT | | ● | | | | | | | | |

aquatherm blue

| | potable water | HVAC | swimming pool | chemical fluids | recycled & reclaimed water | district heating | geothermal | shipbuilding sector | refrigeration & air conditioning |
|-------------------|---------------|------|---------------|-----------------|----------------------------|------------------|------------|---------------------|----------------------------------|
| SDR 7.4 MF | | ● | ● | ● | ○ | ● | ● | ● | ● |
| SDR 7.4 MF UV | | ● | ● | ● | ○ | ● | ● | ● | ● |
| SDR 7.4 MF OT | | ● | ● | ● | ○ | ● | ● | ● | ● |
| SDR 9 MF RP | | ● | ● | ● | ○ | ● | ● | ● | ● |
| SDR 9 MF RP UV | | ● | ● | ● | ○ | ● | ● | ● | ● |
| SDR 9 MF RP OT | | ● | ● | ● | ○ | ● | ● | ● | ● |
| SDR 11 S | | ● | ● | ● | ○ | ● | ● | ● | ● |
| SDR 11 MF RP | | ● | ● | ● | ○ | ● | ● | ● | ● |
| SDR 11 MF RP UV | | ● | ● | ● | ○ | ● | ● | ● | ● |
| SDR 11 MF RP OT | | ● | ● | ● | ○ | ● | ● | ● | ● |
| SDR 17.6 MF RP | | ● | ● | ● | ○ | ● | ● | ● | ● |
| SDR 17.6 MF RP UV | | ● | ● | ● | ○ | ● | ● | ● | ● |

aquatherm green

| | potable water | HVAC | swimming pool | chemical fluids | recycled & reclaimed water | district heating | geothermal | shipbuilding sector | refrigeration & air conditioning |
|----------------|---------------|------|---------------|-----------------|----------------------------|------------------|------------|---------------------|----------------------------------|
| SDR 6 S | ● | ○ | ○ | ● | ○ | ○ | ○ | ● | ○ |
| SDR 7.4 S | ● | ○ | ○ | ● | ○ | ○ | ○ | ● | ○ |
| SDR 7.4 MF | ● | ○ | ○ | ● | ○ | ○ | ○ | ● | ○ |
| SDR 7.4 MF UV | ● | ○ | ○ | ● | ○ | ○ | ○ | ● | ○ |
| SDR 9 MF RP | ● | ○ | ○ | ● | ○ | ○ | ○ | ● | ○ |
| SDR 9 MF RP UV | ● | ○ | ○ | ● | ○ | ○ | ○ | ● | ○ |
| SDR 11 S | ● | ○ | ○ | ● | ○ | ○ | ○ | ● | ○ |

aquatherm energy green & blue

| | potable water | HVAC | swimming pool | chemical fluids | recycled & reclaimed water | district heating | geothermal | shipbuilding sector | refrigeration & air conditioning |
|----------------|---------------|------|---------------|-----------------|----------------------------|------------------|------------|---------------------|----------------------------------|
| SDR 9 MF RP | ● | ○ | ○ | ● | ○ | ○ | ○ | ● | ○ |
| SDR 9 MF RP | | ● | ● | ● | ○ | ● | ● | ● | ● |
| SDR 9 MFRP OT | | ● | ● | ● | ○ | ● | ● | ● | ● |
| SDR 11 MF RP | | ● | ● | ● | ○ | ● | ● | ● | ● |
| SDR 11 MFRP OT | | ● | ● | ● | ○ | ● | ● | ● | ● |
| SDR 17.6 MF RP | | ● | ● | ● | ○ | ● | ● | ● | ● |

aquatherm red

| | potable water | HVAC | swimming pool | chemical fluids | recycled & reclaimed water | district heating | fire protection | shipbuilding sector | refrigeration & air conditioning |
|------------|---------------|------|---------------|-----------------|----------------------------|------------------|-----------------|---------------------|----------------------------------|
| SDR 7.4 HI | | | | | | | ● | | |

aquatherm black

Surface heating and cooling systems

for ceiling, wall and other applications.

aquatherm black is a multiple award winning surface heating and cooling system. Versatile, manufactured in compact register design and equipped with a future-proof technology – these are some of the essential features of the aquatherm black.

The special feature: It can be installed in the ceiling as well as in the wall and floor. Depending on the requirements, the surface temperature of the elements is driven a few degrees above or below the desired room temperature. The radiant energy provides either pleasant heat or cooling without disturbing draughts or dust turbulence.



Connection types

| | width (m) | length (m) | |
|---|-------------|-------------|--|
| aquatherm black energy grid one-sided push-fit connection 45° left / right Connection type 43 | 0,24 - 0,60 | 0,60 - 2,00 | |
| aquatherm black energy grid alternating push-fit connection, 45° bottom left / top right Connection type 44 | 0,24 - 0,60 | 0,60 - 2,00 | |
| aquatherm black heating and cooling grid one-sided welding connection, left / right Connection type 45 | 0,24 - 0,60 | 0,60 - 2,00 | |
| aquatherm black energy grid one-sided push-fit connection, left / right Connection type 46 | 0,24 - 0,60 | 0,60 - 2,00 | |





aquatherm black energy grid

one-sided push-fit connection, 45° left / right
Connection type 43

available from
second quarter 2024

| Article no. | width [m] | length [m] | area [m ²] | PU |
|-------------|-----------|------------|------------------------|----|
| 4310240600 | 0,24 | 0,60 | 0,14 | 1 |
| 4310240800 | 0,24 | 0,80 | 0,19 | 1 |
| 4310241000 | 0,24 | 1,00 | 0,24 | 1 |
| 4310241200 | 0,24 | 1,20 | 0,29 | 1 |
| 4310241400 | 0,24 | 1,40 | 0,34 | 1 |
| 4310241600 | 0,24 | 1,60 | 0,38 | 1 |
| 4310241800 | 0,24 | 1,80 | 0,43 | 1 |
| 4310242000 | 0,24 | 2,00 | 0,48 | 1 |
| 4310280600 | 0,28 | 0,60 | 0,17 | 1 |
| 4310280800 | 0,28 | 0,80 | 0,22 | 1 |
| 4310281000 | 0,28 | 1,00 | 0,28 | 1 |
| 4310281200 | 0,28 | 1,20 | 0,34 | 1 |
| 4310281400 | 0,28 | 1,40 | 0,39 | 1 |
| 4310281600 | 0,28 | 1,60 | 0,45 | 1 |
| 4310281800 | 0,28 | 1,80 | 0,50 | 1 |
| 4310282000 | 0,28 | 2,00 | 0,56 | 1 |
| 4310320600 | 0,32 | 0,60 | 0,19 | 1 |
| 4310320800 | 0,32 | 0,80 | 0,26 | 1 |
| 4310321000 | 0,32 | 1,00 | 0,32 | 1 |
| 4310321200 | 0,32 | 1,20 | 0,38 | 1 |
| 4310321400 | 0,32 | 1,40 | 0,45 | 1 |
| 4310321600 | 0,32 | 1,60 | 0,51 | 1 |
| 4310321800 | 0,32 | 1,80 | 0,58 | 1 |
| 4310322000 | 0,32 | 2,00 | 0,64 | 1 |
| 4310360600 | 0,36 | 0,60 | 0,22 | 1 |
| 4310360800 | 0,36 | 0,80 | 0,29 | 1 |
| 4310361000 | 0,36 | 1,00 | 0,36 | 1 |
| 4310361200 | 0,36 | 1,20 | 0,43 | 1 |
| 4310361400 | 0,36 | 1,40 | 0,50 | 1 |
| 4310361600 | 0,36 | 1,60 | 0,58 | 1 |
| 4310361800 | 0,36 | 1,80 | 0,65 | 1 |
| 4310362000 | 0,36 | 2,00 | 0,72 | 1 |
| 4310400600 | 0,40 | 0,60 | 0,24 | 1 |
| 4310400800 | 0,40 | 0,80 | 0,32 | 1 |
| 4310401000 | 0,40 | 1,00 | 0,40 | 1 |
| 4310401200 | 0,40 | 1,20 | 0,48 | 1 |
| 4310401400 | 0,40 | 1,40 | 0,56 | 1 |
| 4310401600 | 0,40 | 1,60 | 0,64 | 1 |
| 4310401800 | 0,40 | 1,80 | 0,72 | 1 |
| 4310402000 | 0,40 | 2,00 | 0,80 | 1 |
| 4310480600 | 0,48 | 0,60 | 0,29 | 1 |
| 4310480800 | 0,48 | 0,80 | 0,38 | 1 |

Continued on the next page ...



aquatherm black energy grid

one-sided push-fit connection, 45° left / right
Connection type 43

available from
second quarter 2024

| Article no. | width [m] | length [m] | area [m ²] | PU |
|-------------|-----------|------------|------------------------|----|
| 4310481000 | 0,48 | 1,00 | 0,48 | 1 |
| 4310481200 | 0,48 | 1,20 | 0,58 | 1 |
| 4310481400 | 0,48 | 1,40 | 0,67 | 1 |
| 4310481600 | 0,48 | 1,60 | 0,77 | 1 |
| 4310481800 | 0,48 | 1,80 | 0,86 | 1 |
| 4310482000 | 0,48 | 2,00 | 0,96 | 1 |
| 4310520600 | 0,52 | 0,60 | 0,31 | 1 |
| 4310520800 | 0,52 | 0,80 | 0,42 | 1 |
| 4310521000 | 0,52 | 1,00 | 0,52 | 1 |
| 4310521200 | 0,52 | 1,20 | 0,62 | 1 |
| 4310521400 | 0,52 | 1,40 | 0,73 | 1 |
| 4310521600 | 0,52 | 1,60 | 0,83 | 1 |
| 4310521800 | 0,52 | 1,80 | 0,94 | 1 |
| 4310522000 | 0,52 | 2,00 | 1,04 | 1 |
| 4310560600 | 0,56 | 0,60 | 0,34 | 1 |
| 4310560800 | 0,56 | 0,80 | 0,45 | 1 |
| 4310561000 | 0,56 | 1,00 | 0,56 | 1 |
| 4310561200 | 0,56 | 1,20 | 0,67 | 1 |
| 4310561400 | 0,56 | 1,40 | 0,78 | 1 |
| 4310561600 | 0,56 | 1,60 | 0,90 | 1 |
| 4310561800 | 0,56 | 1,80 | 1,01 | 1 |
| 4310562000 | 0,56 | 2,00 | 1,12 | 1 |
| 4310600600 | 0,60 | 0,60 | 0,36 | 1 |
| 4310600800 | 0,60 | 0,80 | 0,48 | 1 |
| 4310601000 | 0,60 | 1,00 | 0,60 | 1 |
| 4310601200 | 0,60 | 1,20 | 0,72 | 1 |
| 4310601400 | 0,60 | 1,40 | 0,84 | 1 |
| 4310601600 | 0,60 | 1,60 | 0,96 | 1 |
| 4310601800 | 0,60 | 1,80 | 1,08 | 1 |
| 4310602000 | 0,60 | 2,00 | 1,20 | 1 |

aquatherm black energy grid

one-sided push-fit connection, 45° left / right
Connection type 43

available from
second quarter 2024

| Article no. | width [m] | length [m] | area [m ²] | PU |
|-------------|-----------|------------|------------------------|----|
| *4310481080 | 0,48 | 1,08 | 0,52 | 1 |
| *4310560580 | 0,56 | 0,58 | 0,32 | 1 |
| *4310561180 | 0,56 | 1,18 | 0,66 | 1 |

*Special register for standard metal cassettes





aquatherm black energy grid

alternating push-fit connection, 45° bottom left / top right
Connection type 44

available from
second quarter 2024

| Article no. | width [m] | length [m] | area [m ²] | PU |
|-------------|-----------|------------|------------------------|----|
| 4410240600 | 0,24 | 0,60 | 0,14 | 1 |
| 4410240800 | 0,24 | 0,80 | 0,19 | 1 |
| 4410241000 | 0,24 | 1,00 | 0,24 | 1 |
| 4410241200 | 0,24 | 1,20 | 0,29 | 1 |
| 4410241400 | 0,24 | 1,40 | 0,34 | 1 |
| 4410241600 | 0,24 | 1,60 | 0,38 | 1 |
| 4410241800 | 0,24 | 1,80 | 0,43 | 1 |
| 4410242000 | 0,24 | 2,00 | 0,48 | 1 |
| 4410280600 | 0,28 | 0,60 | 0,17 | 1 |
| 4410280800 | 0,28 | 0,80 | 0,22 | 1 |
| 4410281000 | 0,28 | 1,00 | 0,28 | 1 |
| 4410281200 | 0,28 | 1,20 | 0,34 | 1 |
| 4410281400 | 0,28 | 1,40 | 0,39 | 1 |
| 4410281600 | 0,28 | 1,60 | 0,45 | 1 |
| 4410281800 | 0,28 | 1,80 | 0,50 | 1 |
| 4410282000 | 0,28 | 2,00 | 0,56 | 1 |
| 4410320600 | 0,32 | 0,60 | 0,19 | 1 |
| 4410320800 | 0,32 | 0,80 | 0,26 | 1 |
| 4410321000 | 0,32 | 1,00 | 0,32 | 1 |
| 4410321200 | 0,32 | 1,20 | 0,38 | 1 |
| 4410321400 | 0,32 | 1,40 | 0,45 | 1 |
| 4410240600 | 0,24 | 0,60 | 0,14 | 1 |
| 4410240800 | 0,24 | 0,80 | 0,19 | 1 |
| 4410241000 | 0,24 | 1,00 | 0,24 | 1 |
| 4410241200 | 0,24 | 1,20 | 0,29 | 1 |
| 4410241400 | 0,24 | 1,40 | 0,34 | 1 |
| 4410241600 | 0,24 | 1,60 | 0,38 | 1 |
| 4410241800 | 0,24 | 1,80 | 0,43 | 1 |
| 4410242000 | 0,24 | 2,00 | 0,48 | 1 |
| 4410280600 | 0,28 | 0,60 | 0,17 | 1 |
| 4410280800 | 0,28 | 0,80 | 0,22 | 1 |
| 4410281000 | 0,28 | 1,00 | 0,28 | 1 |
| 4410281200 | 0,28 | 1,20 | 0,34 | 1 |
| 4410281400 | 0,28 | 1,40 | 0,39 | 1 |
| 4410281600 | 0,28 | 1,60 | 0,45 | 1 |
| 4410281800 | 0,28 | 1,80 | 0,50 | 1 |
| 4410282000 | 0,28 | 2,00 | 0,56 | 1 |
| 4410320600 | 0,32 | 0,60 | 0,19 | 1 |
| 4410320800 | 0,32 | 0,80 | 0,26 | 1 |
| 4410321000 | 0,32 | 1,00 | 0,32 | 1 |
| 4410321200 | 0,32 | 1,20 | 0,38 | 1 |
| 4410321400 | 0,32 | 1,40 | 0,45 | 1 |

Continued on the next page ...



aquatherm black energy grid

alternating push-fit connection, 45° bottom left / top right
Connection type 44

available from
second quarter 2024

| Article no. | width [m] | length [m] | area [m ²] | PU |
|-------------|-----------|------------|------------------------|----|
| 4410321600 | 0,32 | 1,60 | 0,51 | 1 |
| 4410321800 | 0,32 | 1,80 | 0,58 | 1 |
| 4410322000 | 0,32 | 2,00 | 0,64 | 1 |
| 4410360600 | 0,36 | 0,60 | 0,22 | 1 |
| 4410360800 | 0,36 | 0,80 | 0,29 | 1 |
| 4410361000 | 0,36 | 1,00 | 0,36 | 1 |
| 4410361200 | 0,36 | 1,20 | 0,43 | 1 |
| 4410361400 | 0,36 | 1,40 | 0,50 | 1 |
| 4410361600 | 0,36 | 1,60 | 0,58 | 1 |
| 4410361800 | 0,36 | 1,80 | 0,65 | 1 |
| 4410362000 | 0,36 | 2,00 | 0,72 | 1 |
| 4410400600 | 0,40 | 0,60 | 0,24 | 1 |
| 4410400800 | 0,40 | 0,80 | 0,32 | 1 |
| 4410401000 | 0,40 | 1,00 | 0,40 | 1 |
| 4410401200 | 0,40 | 1,20 | 0,48 | 1 |
| 4410401400 | 0,40 | 1,40 | 0,56 | 1 |
| 4410401600 | 0,40 | 1,60 | 0,64 | 1 |
| 4410401800 | 0,40 | 1,80 | 0,72 | 1 |
| 4410402000 | 0,40 | 2,00 | 0,80 | 1 |
| 4410480600 | 0,48 | 0,60 | 0,29 | 1 |
| 4410480800 | 0,48 | 0,80 | 0,38 | 1 |
| 4410481000 | 0,48 | 1,00 | 0,48 | 1 |
| 4410481200 | 0,48 | 1,20 | 0,58 | 1 |
| 4410481400 | 0,48 | 1,40 | 0,67 | 1 |
| 4410481600 | 0,48 | 1,60 | 0,77 | 1 |
| 4410481800 | 0,48 | 1,80 | 0,86 | 1 |
| 4410482000 | 0,48 | 2,00 | 0,96 | 1 |
| 4410520600 | 0,52 | 0,60 | 0,31 | 1 |
| 4410520800 | 0,52 | 0,80 | 0,42 | 1 |
| 4410521000 | 0,52 | 1,00 | 0,52 | 1 |
| 4410521200 | 0,52 | 1,20 | 0,62 | 1 |
| 4410521400 | 0,52 | 1,40 | 0,73 | 1 |
| 4410521600 | 0,52 | 1,60 | 0,83 | 1 |
| 4410521800 | 0,52 | 1,80 | 0,94 | 1 |
| 4410522000 | 0,52 | 2,00 | 1,04 | 1 |
| 4410560600 | 0,56 | 0,60 | 0,34 | 1 |
| 4410560800 | 0,56 | 0,80 | 0,45 | 1 |
| 4410561000 | 0,56 | 1,00 | 0,56 | 1 |
| 4410561200 | 0,56 | 1,20 | 0,67 | 1 |
| 4410561400 | 0,56 | 1,40 | 0,78 | 1 |
| 4410561600 | 0,56 | 1,60 | 0,90 | 1 |
| 4410561800 | 0,56 | 1,80 | 1,01 | 1 |

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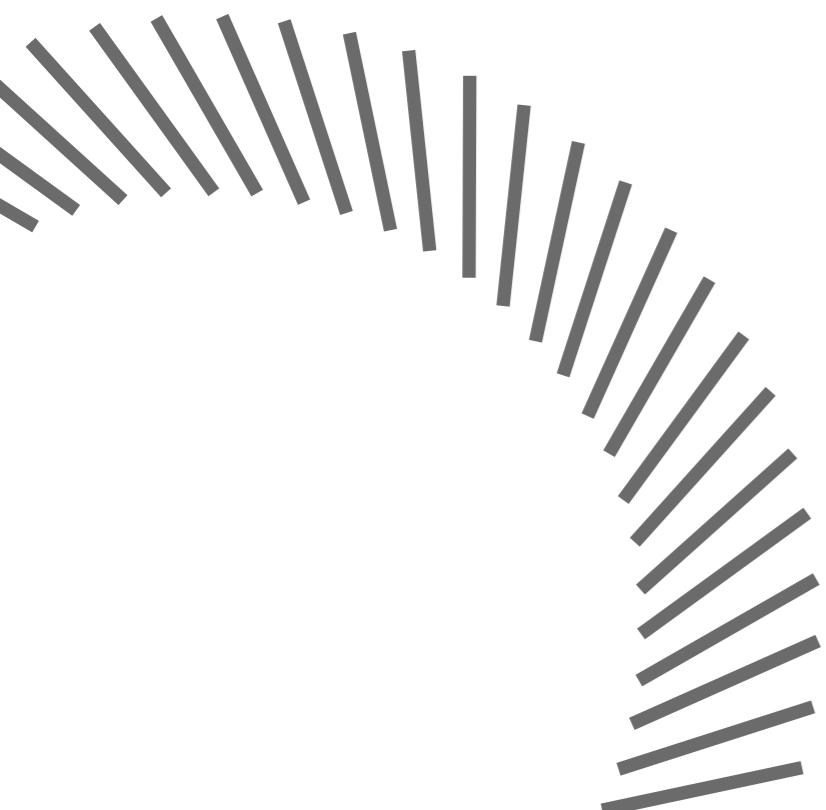


aquatherm black energy grid

alternating push-fit connection, 45° bottom left / top right
Connection type 44

available from
second quarter 2024

| Article no. | width [m] | length [m] | area [m ²] | PU |
|-------------|-----------|------------|------------------------|----|
| 4410562000 | 0,56 | 2,00 | 1,12 | 1 |
| 4410600600 | 0,60 | 0,60 | 0,36 | 1 |
| 4410600800 | 0,60 | 0,80 | 0,48 | 1 |
| 4410601000 | 0,60 | 1,00 | 0,60 | 1 |
| 4410601200 | 0,60 | 1,20 | 0,72 | 1 |
| 4410601400 | 0,60 | 1,40 | 0,84 | 1 |
| 4410601600 | 0,60 | 1,60 | 0,96 | 1 |
| 4410601800 | 0,60 | 1,80 | 1,08 | 1 |
| 4410602000 | 0,60 | 2,00 | 1,20 | 1 |



aquatherm black energy grid

one-sided push-fit connection, left / right
Connection type 46

available from
second quarter 2024

| Article no. | width [m] | length [m] | area [m ²] | PU |
|-------------|-----------|------------|------------------------|----|
| 4610240600 | 0,24 | 0,60 | 0,14 | 1 |
| 4610240800 | 0,24 | 0,80 | 0,19 | 1 |
| 4610241000 | 0,24 | 1,00 | 0,24 | 1 |
| 4610241200 | 0,24 | 1,20 | 0,29 | 1 |
| 4610241400 | 0,24 | 1,40 | 0,34 | 1 |
| 4610241600 | 0,24 | 1,60 | 0,38 | 1 |
| 4610241800 | 0,24 | 1,80 | 0,43 | 1 |
| 4610242000 | 0,24 | 2,00 | 0,48 | 1 |
| 4610280600 | 0,28 | 0,60 | 0,17 | 1 |
| 4610280800 | 0,28 | 0,80 | 0,22 | 1 |
| 4610281000 | 0,28 | 1,00 | 0,28 | 1 |
| 4610281200 | 0,28 | 1,20 | 0,34 | 1 |
| 4610281400 | 0,28 | 1,40 | 0,39 | 1 |
| 4610281600 | 0,28 | 1,60 | 0,45 | 1 |
| 4610281800 | 0,28 | 1,80 | 0,50 | 1 |
| 4610282000 | 0,28 | 2,00 | 0,56 | 1 |
| 4610320600 | 0,32 | 0,60 | 0,19 | 1 |
| 4610320800 | 0,32 | 0,80 | 0,26 | 1 |
| 4610321000 | 0,32 | 1,00 | 0,32 | 1 |
| 4610321200 | 0,32 | 1,20 | 0,38 | 1 |
| 4610321400 | 0,32 | 1,40 | 0,45 | 1 |
| 4610321600 | 0,32 | 1,60 | 0,51 | 1 |
| 4610281400 | 0,28 | 1,40 | 0,39 | 1 |
| 4610281600 | 0,28 | 1,60 | 0,45 | 1 |
| 4610281800 | 0,28 | 1,80 | 0,50 | 1 |
| 4610282000 | 0,28 | 2,00 | 0,56 | 1 |
| 4610320600 | 0,32 | 0,60 | 0,19 | 1 |
| 4610320800 | 0,32 | 0,80 | 0,26 | 1 |
| 4610321000 | 0,32 | 1,00 | 0,32 | 1 |
| 4610321200 | 0,32 | 1,20 | 0,38 | 1 |
| 4610321400 | 0,32 | 1,40 | 0,45 | 1 |
| 4610321600 | 0,32 | 1,60 | 0,51 | 1 |
| 4610321800 | 0,32 | 1,80 | 0,58 | 1 |
| 4610322000 | 0,32 | 2,00 | 0,64 | 1 |
| 4610360600 | 0,36 | 0,60 | 0,22 | 1 |
| 4610360800 | 0,36 | 0,80 | 0,29 | 1 |
| 4610361000 | 0,36 | 1,00 | 0,36 | 1 |
| 4610361200 | 0,36 | 1,20 | 0,43 | 1 |
| 4610361400 | 0,36 | 1,40 | 0,50 | 1 |
| 4610361600 | 0,36 | 1,60 | 0,58 | 1 |
| 4610361800 | 0,36 | 1,80 | 0,65 | 1 |
| 4610362000 | 0,36 | 2,00 | 0,72 | 1 |
| 4610400600 | 0,40 | 0,60 | 0,24 | 1 |
| 4610400800 | 0,40 | 0,80 | 0,32 | 1 |

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aquatherm black energy grid

one-sided push-fit connection, left / right
Connection type 46

available from
second quarter 2024

| Article no. | width [m] | length [m] | area [m ²] | PU |
|-------------|-----------|------------|------------------------|----|
| 4610401000 | 0,40 | 1,00 | 0,40 | 1 |
| 4610401200 | 0,40 | 1,20 | 0,48 | 1 |
| 4610401400 | 0,40 | 1,40 | 0,56 | 1 |
| 4610401600 | 0,40 | 1,60 | 0,64 | 1 |
| 4610401800 | 0,40 | 1,80 | 0,72 | 1 |
| 4610402000 | 0,40 | 2,00 | 0,80 | 1 |
| 4610480600 | 0,48 | 0,60 | 0,29 | 1 |
| 4610480800 | 0,48 | 0,80 | 0,38 | 1 |
| 4610481000 | 0,48 | 1,00 | 0,48 | 1 |
| 4610481200 | 0,48 | 1,20 | 0,58 | 1 |
| 4610481400 | 0,48 | 1,40 | 0,67 | 1 |
| 4610481600 | 0,48 | 1,60 | 0,77 | 1 |
| 4610481800 | 0,48 | 1,80 | 0,86 | 1 |
| 4610482000 | 0,48 | 2,00 | 0,96 | 1 |
| 4610520600 | 0,52 | 0,60 | 0,31 | 1 |
| 4610520800 | 0,52 | 0,80 | 0,42 | 1 |
| 4610521000 | 0,52 | 1,00 | 0,52 | 1 |
| 4610521200 | 0,52 | 1,20 | 0,62 | 1 |
| 4610521400 | 0,52 | 1,40 | 0,73 | 1 |
| 4610521600 | 0,52 | 1,60 | 0,83 | 1 |
| 4610521800 | 0,52 | 1,80 | 0,94 | 1 |
| 4610522000 | 0,52 | 2,00 | 1,04 | 1 |
| 4610560600 | 0,56 | 0,60 | 0,34 | 1 |
| 4610560800 | 0,56 | 0,80 | 0,45 | 1 |
| 4610561000 | 0,56 | 1,00 | 0,56 | 1 |
| 4610561200 | 0,56 | 1,20 | 0,67 | 1 |
| 4610561400 | 0,56 | 1,40 | 0,78 | 1 |
| 4610561600 | 0,56 | 1,60 | 0,90 | 1 |
| 4610561800 | 0,56 | 1,80 | 1,01 | 1 |
| 4610562000 | 0,56 | 2,00 | 1,12 | 1 |
| 4610600600 | 0,60 | 0,60 | 0,36 | 1 |
| 4610600800 | 0,60 | 0,80 | 0,48 | 1 |
| 4610601000 | 0,60 | 1,00 | 0,60 | 1 |
| 4610601200 | 0,60 | 1,20 | 0,72 | 1 |
| 4610601400 | 0,60 | 1,40 | 0,84 | 1 |
| 4610601600 | 0,60 | 1,60 | 0,96 | 1 |
| 4610601800 | 0,60 | 1,80 | 1,08 | 1 |
| 4610602000 | 0,60 | 2,00 | 1,20 | 1 |



aquatherm heating and cooling grid

one-sided welding connection, left / right
Connection type 45

| Article no. | width [m] | length [m] | area [m ²] | PU |
|-------------|-----------|------------|------------------------|----|
| 4510240600 | 0,24 | 0,60 | 0,14 | 1 |
| 4510240800 | 0,24 | 0,80 | 0,19 | 1 |
| 4510241000 | 0,24 | 1,00 | 0,24 | 1 |
| 4510241200 | 0,24 | 1,20 | 0,29 | 1 |
| 4510241400 | 0,24 | 1,40 | 0,34 | 1 |
| 4510241600 | 0,24 | 1,60 | 0,38 | 1 |
| 4510241800 | 0,24 | 1,80 | 0,43 | 1 |
| 4510242000 | 0,24 | 2,00 | 0,48 | 1 |
| 4510280600 | 0,28 | 0,60 | 0,17 | 1 |
| 4510280800 | 0,28 | 0,80 | 0,22 | 1 |
| 4510281000 | 0,28 | 1,00 | 0,28 | 1 |
| 4510281200 | 0,28 | 1,20 | 0,34 | 1 |
| 4510281400 | 0,28 | 1,40 | 0,39 | 1 |
| 4510281600 | 0,28 | 1,60 | 0,45 | 1 |
| 4510281800 | 0,28 | 1,80 | 0,50 | 1 |
| 4510282000 | 0,28 | 2,00 | 0,56 | 1 |
| 4510320600 | 0,32 | 0,60 | 0,19 | 1 |
| 4510320800 | 0,32 | 0,80 | 0,26 | 1 |
| 4510321000 | 0,32 | 1,00 | 0,32 | 1 |
| 4510321200 | 0,32 | 1,20 | 0,38 | 1 |
| 4510321400 | 0,32 | 1,40 | 0,45 | 1 |
| 4510321600 | 0,32 | 1,60 | 0,51 | 1 |
| 4510321800 | 0,32 | 1,80 | 0,58 | 1 |
| 4510322000 | 0,32 | 2,00 | 0,64 | 1 |
| 4510360600 | 0,36 | 0,60 | 0,22 | 1 |
| 4510360800 | 0,36 | 0,80 | 0,29 | 1 |
| 4510361000 | 0,36 | 1,00 | 0,36 | 1 |
| 4510361200 | 0,36 | 1,20 | 0,43 | 1 |
| 4510361400 | 0,36 | 1,40 | 0,50 | 1 |
| 4510361600 | 0,36 | 1,60 | 0,58 | 1 |
| 4510361800 | 0,36 | 1,80 | 0,65 | 1 |
| 4510362000 | 0,36 | 2,00 | 0,72 | 1 |
| 4510400600 | 0,40 | 0,60 | 0,24 | 1 |
| 4510400800 | 0,40 | 0,80 | 0,32 | 1 |
| 4510401000 | 0,40 | 1,00 | 0,40 | 1 |
| 4510401200 | 0,40 | 1,20 | 0,48 | 1 |
| 4510401400 | 0,40 | 1,40 | 0,56 | 1 |
| 4510401600 | 0,40 | 1,60 | 0,64 | 1 |
| 4510401800 | 0,40 | 1,80 | 0,72 | 1 |
| 4510402000 | 0,40 | 2,00 | 0,80 | 1 |
| 4510480600 | 0,48 | 0,60 | 0,29 | 1 |
| 4510480800 | 0,48 | 0,80 | 0,38 | 1 |
| 4510481000 | 0,48 | 1,00 | 0,48 | 1 |
| 4510481200 | 0,48 | 1,20 | 0,58 | 1 |

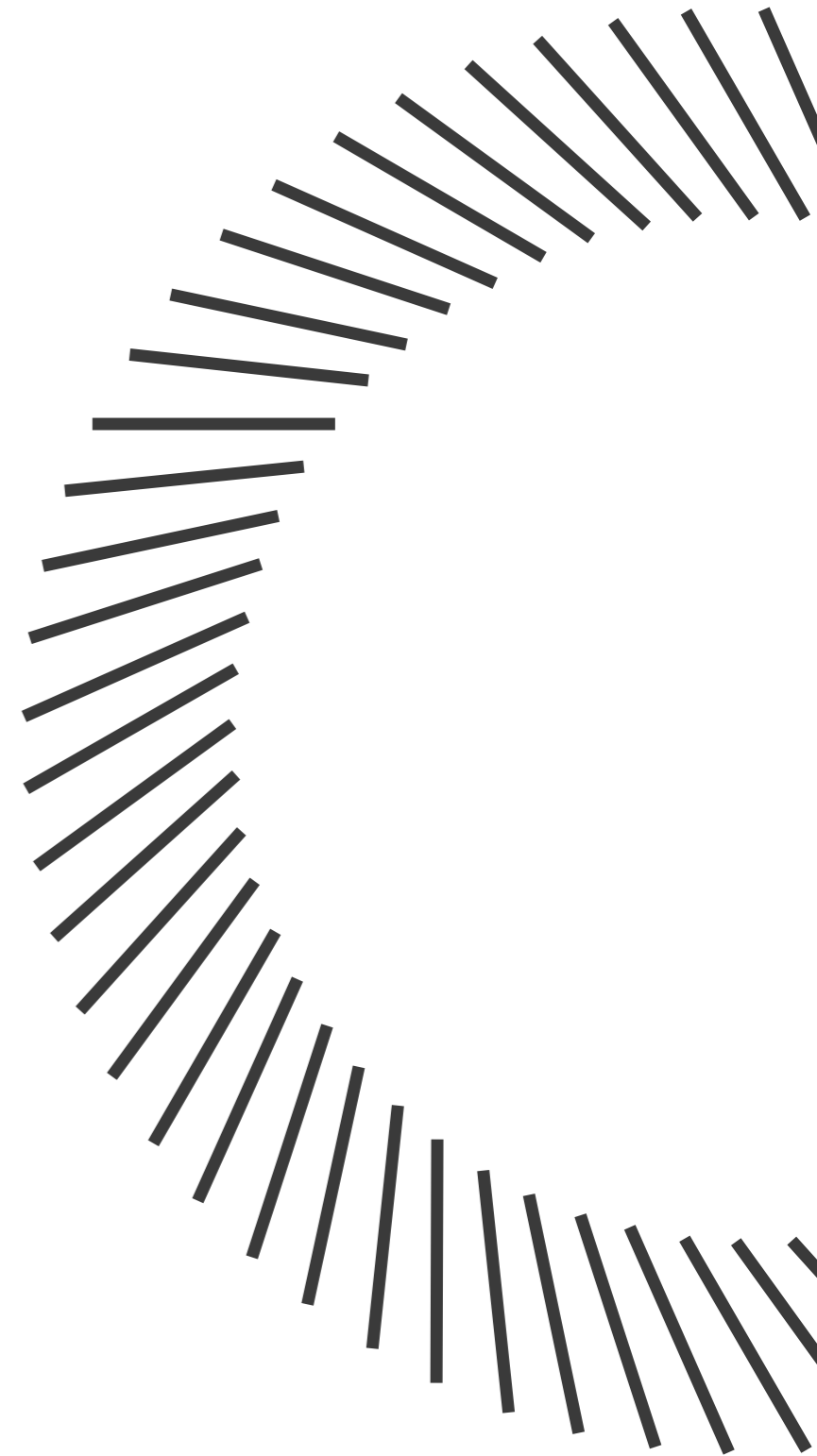
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aquatherm heating and cooling grid

one-sided welding connection, left / right
Connection type 45

| Article no. | width [m] | length [m] | area [m ²] | PU |
|-------------|-----------|------------|------------------------|----|
| 4510481400 | 0,48 | 1,40 | 0,67 | 1 |
| 4510481600 | 0,48 | 1,60 | 0,77 | 1 |
| 4510481800 | 0,48 | 1,80 | 0,86 | 1 |
| 4510482000 | 0,48 | 2,00 | 0,96 | 1 |
| 4510520600 | 0,52 | 0,60 | 0,31 | 1 |
| 4510520800 | 0,52 | 0,80 | 0,42 | 1 |
| 4510521000 | 0,52 | 1,00 | 0,52 | 1 |
| 4510521200 | 0,52 | 1,20 | 0,62 | 1 |
| 4510521400 | 0,52 | 1,40 | 0,73 | 1 |
| 4510521600 | 0,52 | 1,60 | 0,83 | 1 |
| 4510521800 | 0,52 | 1,80 | 0,94 | 1 |
| 4510522000 | 0,52 | 2,00 | 1,04 | 1 |
| 4510560600 | 0,56 | 0,60 | 0,34 | 1 |
| 4510560800 | 0,56 | 0,80 | 0,45 | 1 |
| 4510561000 | 0,56 | 1,00 | 0,56 | 1 |
| 4510561200 | 0,56 | 1,20 | 0,67 | 1 |
| 4510561400 | 0,56 | 1,40 | 0,78 | 1 |
| 4510561600 | 0,56 | 1,60 | 0,90 | 1 |
| 4510561800 | 0,56 | 1,80 | 1,01 | 1 |
| 4510562000 | 0,56 | 2,00 | 1,12 | 1 |
| 4510600600 | 0,60 | 0,60 | 0,36 | 1 |
| 4510600800 | 0,60 | 0,80 | 0,48 | 1 |
| 4510601000 | 0,60 | 1,00 | 0,60 | 1 |
| 4510601200 | 0,60 | 1,20 | 0,72 | 1 |
| 4510601400 | 0,60 | 1,40 | 0,84 | 1 |
| 4510601600 | 0,60 | 1,60 | 0,96 | 1 |
| 4510601800 | 0,60 | 1,80 | 1,08 | 1 |
| 4510602000 | 0,60 | 2,00 | 1,20 | 1 |

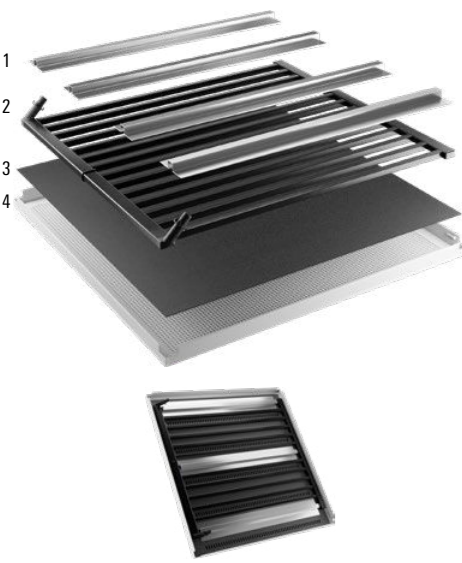


aquatherm black High-performance module WLT (one-sided)

for metal ceiling systems with one-sided push-fit connection 45° left / right

| Article no. | Register length [m] | Module width [m] | Module length [m] | area [m ²] | PU |
|------------------------|---------------------|------------------|-------------------|------------------------|----|
| Register width: 0,24 m | | | | | |
| 4320240600 | 0,60 | 0,265 | 0,60 | 0,16 | 1 |
| 4320240800 | 0,80 | 0,265 | 0,80 | 0,21 | 1 |
| 4320241000 | 1,00 | 0,265 | 1,00 | 0,27 | 1 |
| 4320241200 | 1,20 | 0,265 | 1,20 | 0,32 | 1 |
| 4320241400 | 1,40 | 0,265 | 1,40 | 0,37 | 1 |
| 4320241600 | 1,60 | 0,265 | 1,60 | 0,42 | 1 |
| 4320241800 | 1,80 | 0,265 | 1,80 | 0,48 | 1 |
| 4320242000 | 2,00 | 0,265 | 2,00 | 0,53 | 1 |
| Register width: 0,28 m | | | | | |
| 4320280600 | 0,60 | 0,305 | 0,60 | 0,18 | 1 |
| 4320280800 | 0,80 | 0,305 | 0,80 | 0,24 | 1 |
| 4320281000 | 1,00 | 0,305 | 1,00 | 0,31 | 1 |
| 4320281200 | 1,20 | 0,305 | 1,20 | 0,37 | 1 |
| 4320281400 | 1,40 | 0,305 | 1,40 | 0,43 | 1 |
| 4320281600 | 1,60 | 0,305 | 1,60 | 0,49 | 1 |
| 4320281800 | 1,80 | 0,305 | 1,80 | 0,55 | 1 |
| 4320282000 | 2,00 | 0,305 | 2,00 | 0,61 | 1 |
| Register width: 0,32 m | | | | | |
| 4320320600 | 0,60 | 0,345 | 0,60 | 0,21 | 1 |
| 4320320800 | 0,80 | 0,345 | 0,80 | 0,28 | 1 |
| 4320321000 | 1,00 | 0,345 | 1,00 | 0,35 | 1 |
| 4320321200 | 1,20 | 0,345 | 1,20 | 0,41 | 1 |
| 4320321400 | 1,40 | 0,345 | 1,40 | 0,48 | 1 |
| 4320321600 | 1,60 | 0,345 | 1,60 | 0,55 | 1 |
| 4320321800 | 1,80 | 0,345 | 1,80 | 0,62 | 1 |
| 4320322000 | 2,00 | 0,345 | 2,00 | 0,69 | 1 |
| Register width: 0,36 m | | | | | |
| 4320360600 | 0,60 | 0,385 | 0,60 | 0,23 | 1 |
| 4320360800 | 0,80 | 0,385 | 0,80 | 0,31 | 1 |
| 4320361000 | 1,00 | 0,385 | 1,00 | 0,39 | 1 |
| 4320361200 | 1,20 | 0,385 | 1,20 | 0,46 | 1 |
| 4320361400 | 1,40 | 0,385 | 1,40 | 0,54 | 1 |
| 4320361600 | 1,60 | 0,385 | 1,60 | 0,62 | 1 |
| 4320361800 | 1,80 | 0,385 | 1,80 | 0,69 | 1 |
| 4320362000 | 2,00 | 0,385 | 2,00 | 0,77 | 1 |
| Register width: 0,40 m | | | | | |
| 4320400600 | 0,60 | 0,425 | 0,60 | 0,26 | 1 |
| 4320400800 | 0,80 | 0,425 | 0,80 | 0,34 | 1 |
| 4320401000 | 1,00 | 0,425 | 1,00 | 0,43 | 1 |
| 4320401200 | 1,20 | 0,425 | 1,20 | 0,51 | 1 |
| 4320401400 | 1,40 | 0,425 | 1,40 | 0,60 | 1 |
| 4320401600 | 1,60 | 0,425 | 1,60 | 0,68 | 1 |
| 4320401800 | 1,80 | 0,425 | 1,80 | 0,77 | 1 |

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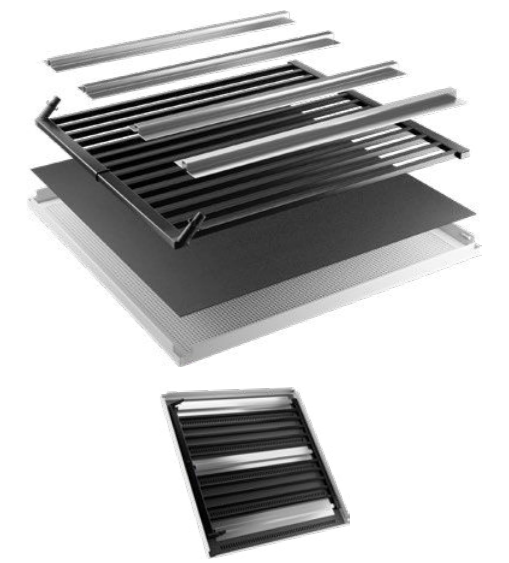
1. Heat conducting plates
2. Heating and cooling grid
3. Acoustic fleece
4. Metal cassette

aquatherm black High-performance module WLT (one-sided)

(Continuing) for metal ceiling systems with one-sided push-fit connection 45° left / right

| Article no. | Register length [m] | Module width [m] | Module length [m] | area [m ²] | PU |
|------------------------|---------------------|------------------|-------------------|------------------------|----|
| 4320402000 | 2,00 | 0,425 | 2,00 | 0,85 | 1 |
| Register width: 0,48 m | | | | | |
| 4320480600 | 0,60 | 0,505 | 0,60 | 0,30 | 1 |
| 4320480800 | 0,80 | 0,505 | 0,80 | 0,40 | 1 |
| 4320481000 | 1,00 | 0,505 | 1,00 | 0,51 | 1 |
| 4320481200 | 1,20 | 0,505 | 1,20 | 0,61 | 1 |
| 4320481400 | 1,40 | 0,505 | 1,40 | 0,71 | 1 |
| 4320481600 | 1,60 | 0,505 | 1,60 | 0,81 | 1 |
| 4320481800 | 1,80 | 0,505 | 1,80 | 0,91 | 1 |
| 4320482000 | 2,00 | 0,505 | 2,00 | 1,01 | 1 |
| Register width: 0,52 m | | | | | |
| 4320520600 | 0,60 | 0,545 | 0,60 | 0,33 | 1 |
| 4320520800 | 0,80 | 0,545 | 0,80 | 0,44 | 1 |
| 4320521000 | 1,00 | 0,545 | 1,00 | 0,55 | 1 |
| 4320521200 | 1,20 | 0,545 | 1,20 | 0,65 | 1 |
| 4320521400 | 1,40 | 0,545 | 1,40 | 0,76 | 1 |
| 4320521600 | 1,60 | 0,545 | 1,60 | 0,87 | 1 |
| 4320521800 | 1,80 | 0,545 | 1,80 | 0,98 | 1 |
| 4320522000 | 2,00 | 0,545 | 2,00 | 1,09 | 1 |
| Register width: 0,56 m | | | | | |
| 4320560600 | 0,60 | 0,585 | 0,60 | 0,35 | 1 |
| 4320560800 | 0,80 | 0,585 | 0,80 | 0,47 | 1 |
| 4320561000 | 1,00 | 0,585 | 1,00 | 0,59 | 1 |
| 4320561200 | 1,20 | 0,585 | 1,20 | 0,70 | 1 |
| 4320561400 | 1,40 | 0,585 | 1,40 | 0,82 | 1 |
| 4320561600 | 1,60 | 0,585 | 1,60 | 0,94 | 1 |
| 4320561800 | 1,80 | 0,585 | 1,80 | 1,05 | 1 |
| 4320562000 | 2,00 | 0,585 | 2,00 | 1,17 | 1 |
| Register width: 0,60 m | | | | | |
| 4320600600 | 0,60 | 0,625 | 0,60 | 0,38 | 1 |
| 4320600800 | 0,80 | 0,625 | 0,80 | 0,50 | 1 |
| 4320601000 | 1,00 | 0,625 | 1,00 | 0,63 | 1 |
| 4320601200 | 1,20 | 0,625 | 1,20 | 0,75 | 1 |
| 4320601400 | 1,40 | 0,625 | 1,40 | 0,88 | 1 |
| 4320601600 | 1,60 | 0,625 | 1,60 | 1,00 | 1 |
| 4320601800 | 1,80 | 0,625 | 1,80 | 1,13 | 1 |
| 4320602000 | 2,00 | 0,625 | 2,00 | 1,25 | 1 |
| Register width: 0,68 m | | | | | |
| 4320680600 | 0,60 | 0,705 | 0,60 | 0,42 | 1 |
| 4320680800 | 0,80 | 0,705 | 0,80 | 0,56 | 1 |
| 4320681000 | 1,00 | 0,705 | 1,00 | 0,71 | 1 |
| 4320681200 | 1,20 | 0,705 | 1,20 | 0,85 | 1 |
| 4320681400 | 1,40 | 0,705 | 1,40 | 0,99 | 1 |
| 4320681600 | 1,60 | 0,705 | 1,60 | 1,13 | 1 |

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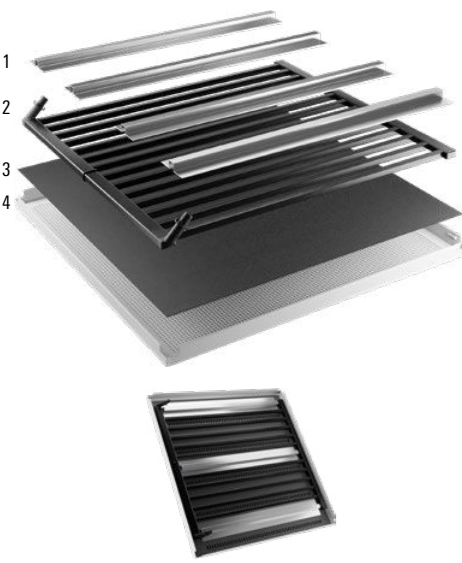


1. Heat conducting plates
2. Heating and cooling grid
3. Acoustic fleece
4. Metal cassette

aquatherm black High-performance module WLT (one-sided)

for metal ceiling systems with one-sided 45° push-fit connection

| Article no. | Register length [m] | Module width [m] | Module length [m] | area [m ²] | PU |
|------------------------|---------------------|------------------|-------------------|------------------------|----|
| 4320681800 | 1,80 | 0,705 | 1,80 | 1,27 | 1 |
| 4320682000 | 2,00 | 0,705 | 2,00 | 1,41 | 1 |
| Register width: 0,80 m | | | | | |
| 4320800600 | 0,60 | 0,825 | 0,60 | 0,50 | 1 |
| 4320800800 | 0,80 | 0,825 | 0,80 | 0,66 | 1 |
| 4320801000 | 1,00 | 0,825 | 1,00 | 0,83 | 1 |
| 4320801200 | 1,20 | 0,825 | 1,20 | 0,99 | 1 |
| 4320801400 | 1,40 | 0,825 | 1,40 | 1,16 | 1 |
| 4320801600 | 1,60 | 0,825 | 1,60 | 1,32 | 1 |
| 4320801800 | 1,80 | 0,825 | 1,80 | 1,49 | 1 |
| 4320802000 | 2,00 | 0,825 | 2,00 | 1,65 | 1 |
| Register width: 1,0 m | | | | | |
| 4321000600 | 0,60 | 1,025 | 0,60 | 0,62 | 1 |
| 4321000800 | 0,80 | 1,025 | 0,80 | 0,82 | 1 |
| 4321001000 | 1,00 | 1,025 | 1,00 | 1,03 | 1 |
| 4321001200 | 1,20 | 1,025 | 1,20 | 1,23 | 1 |
| 4321001400 | 1,40 | 1,025 | 1,40 | 1,44 | 1 |
| 4321001600 | 1,60 | 1,025 | 1,60 | 1,64 | 1 |
| 4321001800 | 1,80 | 1,025 | 1,80 | 1,85 | 1 |
| 4321002000 | 2,00 | 1,025 | 2,00 | 2,05 | 1 |



- 1. Heat conducting plates
- 2. Heating and cooling grid
- 3. Acoustic fleece
- 4. Metal cassette

aquatherm black High-performance module WLT (alternating)

for metal ceiling systems with alternating push-fit connection 45°

| Article no. | Register length [m] | Module width [m] | Module length [m] | area [m ²] | PU |
|------------------------|---------------------|------------------|-------------------|------------------------|----|
| Register width: 0,24 m | | | | | |
| 4420240600 | 0,60 | 0,265 | 0,60 | 0,16 | 1 |
| 4420240800 | 0,80 | 0,265 | 0,80 | 0,21 | 1 |
| 4420241000 | 1,00 | 0,265 | 1,00 | 0,27 | 1 |
| 4420241200 | 1,20 | 0,265 | 1,20 | 0,32 | 1 |
| 4420241400 | 1,40 | 0,265 | 1,40 | 0,37 | 1 |
| 4420241600 | 1,60 | 0,265 | 1,60 | 0,42 | 1 |
| 4420241800 | 1,80 | 0,265 | 1,80 | 0,48 | 1 |
| 4420242000 | 2,00 | 0,265 | 2,00 | 0,53 | 1 |
| Register width: 0,28 m | | | | | |
| 4420280600 | 0,60 | 0,305 | 0,60 | 0,18 | 1 |
| 4420280800 | 0,80 | 0,305 | 0,80 | 0,24 | 1 |
| 4420281000 | 1,00 | 0,305 | 1,00 | 0,31 | 1 |
| 4420281200 | 1,20 | 0,305 | 1,20 | 0,37 | 1 |
| 4420281400 | 1,40 | 0,305 | 1,40 | 0,43 | 1 |
| 4420281600 | 1,60 | 0,305 | 1,60 | 0,49 | 1 |
| 4420281800 | 1,80 | 0,305 | 1,80 | 0,55 | 1 |
| 4420282000 | 2,00 | 0,305 | 2,00 | 0,61 | 1 |
| Register width: 0,32 m | | | | | |
| 4420320600 | 0,60 | 0,345 | 0,60 | 0,21 | 1 |
| 4420320800 | 0,80 | 0,345 | 0,80 | 0,28 | 1 |
| 4420321000 | 1,00 | 0,345 | 1,00 | 0,35 | 1 |
| 4420321200 | 1,20 | 0,345 | 1,20 | 0,41 | 1 |
| 4420321400 | 1,40 | 0,345 | 1,40 | 0,48 | 1 |
| 4420321600 | 1,60 | 0,345 | 1,60 | 0,55 | 1 |
| 4420321800 | 1,80 | 0,345 | 1,80 | 0,62 | 1 |
| 4420322000 | 2,00 | 0,345 | 2,00 | 0,69 | 1 |
| Register width: 0,36 m | | | | | |
| 4420360600 | 0,60 | 0,385 | 0,60 | 0,23 | 1 |
| 4420360800 | 0,80 | 0,385 | 0,80 | 0,31 | 1 |
| 4420361000 | 1,00 | 0,385 | 1,00 | 0,39 | 1 |
| 4420361200 | 1,20 | 0,385 | 1,20 | 0,46 | 1 |
| 4420361400 | 1,40 | 0,385 | 1,40 | 0,54 | 1 |
| 4420361600 | 1,60 | 0,385 | 1,60 | 0,62 | 1 |
| 4420361800 | 1,80 | 0,385 | 1,80 | 0,69 | 1 |
| 4420362000 | 2,00 | 0,385 | 2,00 | 0,77 | 1 |



- 1. Heat conducting plates
- 2. Heating and cooling grid
- 3. Acoustic fleece
- 4. Metal cassette

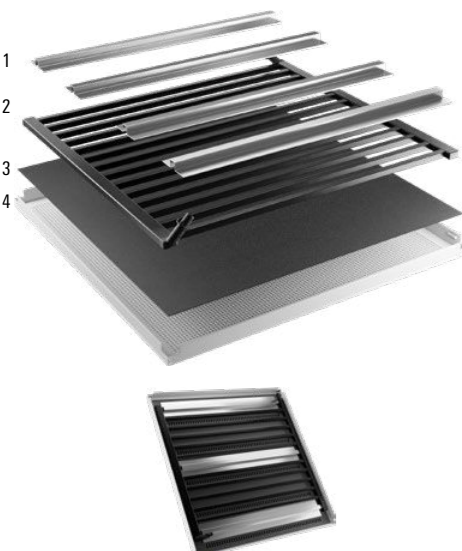
Continued on the next page ...

aquatherm black High-performance module WLT (alternating)

for metal ceiling systems with alternating push-fit connection 45°

| Article no. | Register length [m] | Module width [m] | Module length [m] | area [m ²] | PU |
|------------------------|---------------------|------------------|-------------------|------------------------|----|
| Register width: 0,40 m | | | | | |
| 4420400600 | 0,60 | 0,425 | 0,60 | 0,26 | 1 |
| 4420400800 | 0,80 | 0,425 | 0,80 | 0,34 | 1 |
| 4420401000 | 1,00 | 0,425 | 1,00 | 0,43 | 1 |
| 4420401200 | 1,20 | 0,425 | 1,20 | 0,51 | 1 |
| 4420401400 | 1,40 | 0,425 | 1,40 | 0,60 | 1 |
| 4420401600 | 1,60 | 0,425 | 1,60 | 0,68 | 1 |
| 4420401800 | 1,80 | 0,425 | 1,80 | 0,77 | 1 |
| 4420402000 | 2,00 | 0,425 | 2,00 | 0,85 | 1 |
| Register width: 0,48 m | | | | | |
| 4420480600 | 0,60 | 0,505 | 0,60 | 0,30 | 1 |
| 4420480800 | 0,80 | 0,505 | 0,80 | 0,40 | 1 |
| 4420481000 | 1,00 | 0,505 | 1,00 | 0,51 | 1 |
| 4420481200 | 1,20 | 0,505 | 1,20 | 0,61 | 1 |
| 4420481400 | 1,40 | 0,505 | 1,40 | 0,71 | 1 |
| 4420481600 | 1,60 | 0,505 | 1,60 | 0,81 | 1 |
| 4420481800 | 1,80 | 0,505 | 1,80 | 0,91 | 1 |
| 4420482000 | 2,00 | 0,505 | 2,00 | 1,01 | 1 |
| Register width: 0,52 m | | | | | |
| 4420520600 | 0,60 | 0,545 | 0,60 | 0,33 | 1 |
| 4420520800 | 0,80 | 0,545 | 0,80 | 0,44 | 1 |
| 4420521000 | 1,00 | 0,545 | 1,00 | 0,55 | 1 |
| 4420521200 | 1,20 | 0,545 | 1,20 | 0,65 | 1 |
| 4420521400 | 1,40 | 0,545 | 1,40 | 0,76 | 1 |
| 4420521600 | 1,60 | 0,545 | 1,60 | 0,87 | 1 |
| 4420521800 | 1,80 | 0,545 | 1,80 | 0,98 | 1 |
| 4420522000 | 2,00 | 0,545 | 2,00 | 1,09 | 1 |
| Register width: 0,56 m | | | | | |
| 4420560600 | 0,60 | 0,585 | 0,60 | 0,35 | 1 |
| 4420560800 | 0,80 | 0,585 | 0,80 | 0,47 | 1 |
| 4420561000 | 1,00 | 0,585 | 1,00 | 0,59 | 1 |
| 4420561200 | 1,20 | 0,585 | 1,20 | 0,70 | 1 |
| 4420561400 | 1,40 | 0,585 | 1,40 | 0,82 | 1 |
| 4420561600 | 1,60 | 0,585 | 1,60 | 0,94 | 1 |
| 4420561800 | 1,80 | 0,585 | 1,80 | 1,05 | 1 |
| 4420562000 | 2,00 | 0,585 | 2,00 | 1,17 | 1 |
| Register width: 0,60 m | | | | | |
| 4420600600 | 0,60 | 0,625 | 0,60 | 0,38 | 1 |
| 4420600800 | 0,80 | 0,625 | 0,80 | 0,50 | 1 |
| 4420601000 | 1,00 | 0,625 | 1,00 | 0,63 | 1 |
| 4420601200 | 1,20 | 0,625 | 1,20 | 0,75 | 1 |
| 4420601400 | 1,40 | 0,625 | 1,40 | 0,88 | 1 |
| 4420601600 | 1,60 | 0,625 | 1,60 | 1,00 | 1 |
| 4420601800 | 1,80 | 0,625 | 1,80 | 1,13 | 1 |

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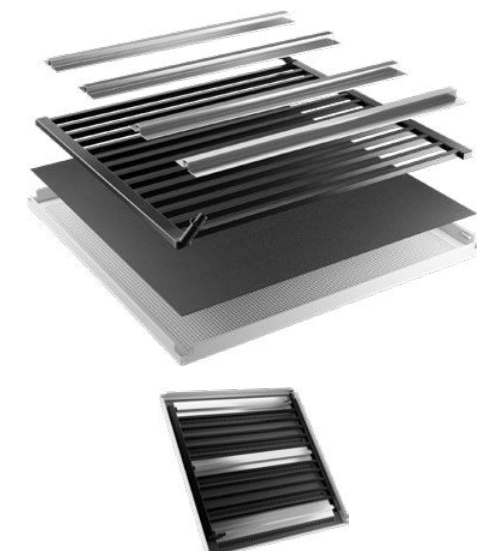


- 1. Heat conducting plates
- 2. Heating and cooling grid
- 3. Acoustic fleece
- 4. Metal cassette

aquatherm black High-performance module WLT (alternating)

(Continued) for metal ceiling systems with alternating push-fit connection 45°

| Article no. | Register length [m] | Module width [m] | Module length [m] | area [m ²] | PU |
|------------------------|---------------------|------------------|-------------------|------------------------|----|
| 4420602000 | 2,00 | 0,625 | 2,00 | 1,25 | 1 |
| Register width: 0,68 m | | | | | |
| 4421000600 | 0,60 | 0,705 | 0,60 | 0,42 | 1 |
| 4421000800 | 0,80 | 0,705 | 0,80 | 0,56 | 1 |
| 4421001000 | 1,00 | 0,705 | 1,00 | 0,71 | 1 |
| 4421001200 | 1,20 | 0,705 | 1,20 | 0,85 | 1 |
| 4421001400 | 1,40 | 0,705 | 1,40 | 0,99 | 1 |
| 4421001600 | 1,60 | 0,705 | 1,60 | 1,13 | 1 |
| 4421001800 | 1,80 | 0,705 | 1,80 | 1,27 | 1 |
| 4421002000 | 2,00 | 0,705 | 2,00 | 1,41 | 1 |
| Register width: 0,80 m | | | | | |
| 4420680600 | 0,60 | 0,825 | 0,60 | 0,50 | 1 |
| 4420680800 | 0,80 | 0,825 | 0,80 | 0,66 | 1 |
| 4420681000 | 1,00 | 0,825 | 1,00 | 0,83 | 1 |
| 4420681200 | 1,20 | 0,825 | 1,20 | 0,99 | 1 |
| 4420681400 | 1,40 | 0,825 | 1,40 | 1,16 | 1 |
| 4420681600 | 1,60 | 0,825 | 1,60 | 1,32 | 1 |
| 4420681800 | 1,80 | 0,825 | 1,80 | 1,49 | 1 |
| 4420682000 | 2,00 | 0,825 | 2,00 | 1,65 | 1 |
| Register width: 1,0 m | | | | | |
| 4420800600 | 0,60 | 1,025 | 0,60 | 0,62 | 1 |
| 4420800800 | 0,80 | 1,025 | 0,80 | 0,82 | 1 |
| 4420801000 | 1,00 | 1,025 | 1,00 | 1,03 | 1 |
| 4420801200 | 1,20 | 1,025 | 1,20 | 1,23 | 1 |
| 4420801400 | 1,40 | 1,025 | 1,40 | 1,44 | 1 |
| 4420801600 | 1,60 | 1,025 | 1,60 | 1,64 | 1 |
| 4420801800 | 1,80 | 1,025 | 1,80 | 1,85 | 1 |
| 4420802000 | 2,00 | 1,025 | 2,00 | 2,05 | 1 |



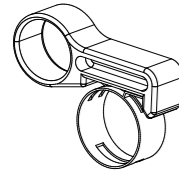
- 1. Heat conducting plates
- 2. Heating and cooling grid
- 3. Acoustic fleece
- 4. Metal cassette



aquatherm black flexible connection pipe

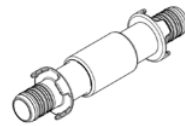
oxygen-tight, in a ring

| Articel-No. | Dimension | PU |
|-------------|-----------|----|
| 411002001 | 20 mm | 50 |



aquatherm black spring band clamp

| Articel-No. | Dimension | PU |
|-------------|-----------|----|
| 9600081074 | 20 mm | 20 |



aquatherm black twin nipple

for flexible connection pipe

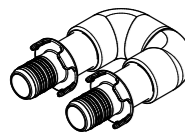
| Articel-No. | Dimension | PU |
|-------------|-----------|----|
| 4040016002 | 16 mm | 5 |



aquatherm black angle 90°

for flexible connection pipe

| Articel-No. | Dimension | PU |
|-------------|-----------|----|
| 4080016002 | 16 mm | 10 |



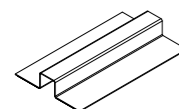
aquatherm black angle 180°

| Articel-No. | Dimension | PU |
|-------------|-----------|----|
| 4090016008 | 16 mm | 10 |



aquatherm black transition piece

| Articel-No. | Dimension | PU |
|-------------|-----------|----|
| 4070016002 | 16 mm | 10 |

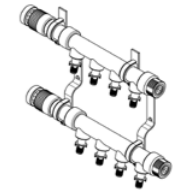


aquatherm black heat conduction module

| Articel-No. | Dimension | PU |
|-------------|---------------|-----|
| 9700081284 | Length: 10 cm | 200 |

aquatherm black distributor

| Article no. | Execution | PU |
|-------------|----------------|----|
| 9700094602 | Plastic 2-fold | 1 |
| 9700094603 | Plastic 3-fold | 1 |
| 9700094604 | Plastic 4-fold | 1 |
| 9700094605 | Plastic 5-fold | 1 |
| 9700094606 | Plastic 6-fold | 1 |



Plastic heating circuit manifold with the following properties:

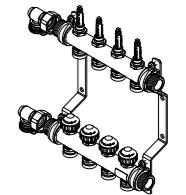
- Flow and return manifolds arranged separately
- Flow indicator, can be shut off in the flow
- Regulating and shut-off valve with protective cap in the return
- Vent valves
- Bracket set with bracket and sound insulation insert
- End plugs

Compression fittings and ball valve set must be ordered separately

- Accessories:
- Filling and draining taps

aquatherm black heating circuit manifold with flow indicator

| Article no. | Dimension | PU |
|-------------|-----------------------------|----|
| 9700094502 | Stainless steel 2-gang DFM | 1 |
| 9700094503 | Stainless steel 3-fold DFM | 1 |
| 9700094504 | Stainless steel 4-fold DFM | 1 |
| 9700094505 | Stainless steel 5-way DFM | 1 |
| 9700094506 | Stainless steel 6-way DFM | 1 |
| 9700094507 | Stainless steel 7-way DFM | 1 |
| 9700094508 | Stainless steel 8-way DFM | 1 |
| 9700094509 | Stainless steel 9-way DFM | 1 |
| 9700094510 | Stainless steel 10-fold DFM | 1 |
| 9700094511 | Stainless steel 11-fold DFM | 1 |
| 9700094512 | Stainless steel 12-way DFM | 1 |



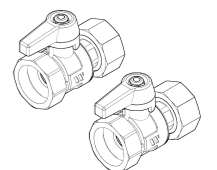
Stainless steel heating circuit manifold with the following features:

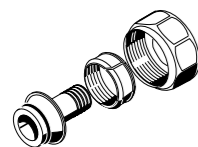
- Flow and return manifold arranged separately
- Flow indicator, can be shut off in the flow
- Regulating and shut-off valve with protective cap in the return flow
- Filling and drain taps
- Vent valves
- Bracket set with bracket and sound insulation insert
- End plugs

Compression fittings and ball valve set must be ordered separately

aquatherm black ball valve set

| Article no. | Dimension | PU |
|-------------|-------------------|----|
| 9700094513 | 1 1/4 "OD x 1 "IT | 1 |





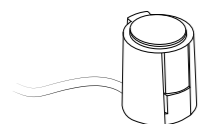
aquatherm black compression fitting

Material: brass

with Eurocone for heating circuit manifolds

| Article no. | Dimension | PU |
|-------------|-------------|----|
| 9600092106 | 16 x 2.0 mm | 2 |
| 9600092108 | 20 x 2.0 mm | 10 |

nickel-plated union nut

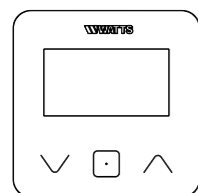


aquatherm black valve drive

for heating circuit manifolds

| Article no. | Dimension | PU |
|-------------|-----------|----|
| 9700094102 | 230V | 1 |
| 9700094103 | 24V | 1 |

when using the radio control distributor
(art. no. 94422), take the 230 V switching capacity into account!

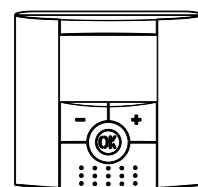


aquatherm black wireless room thermostat

with glass touchscreen

| Article no. | PU |
|-------------|----|
| 9700094418 | 1 |

- Heating (recommended) or heating/cooling
- Setting different temperature modes
- Frost protection function
- Pin code and theft protection
- Wall mounting or table-top installation
- "Window open" detection

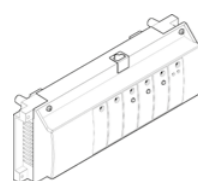


aquatherm black wireless room thermostat

digital, with LCD display, programmable

| Article no. | PU |
|-------------|----|
| 9700094419 | 1 |
| 9700094420 | 1 |

* With hygrostat for heating/cooling, in conjunction with external sensor

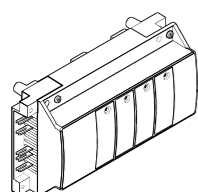


aquatherm black 6-way radio control distributor

Master, for 6 zones

| Article no. | PU |
|-------------|----|
| 9700094422 | 1 |

- Zone control of water-bearing panel heating/cooling systems
- Up to 10 zones (room sensors)
- Switching output for pump and heat generator via radio or cable (potential-free)
- For switching 230 V actuators



aquatherm black 4-way radio control distributor

Extension for 4 zones

| Article no. | PU |
|-------------|----|
| 9700094423 | 1 |

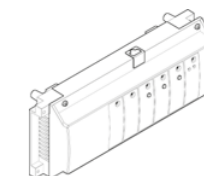
- For switching 230 V actuators

aquatherm black Management module

for heating/cooling

| Article no. | PU |
|-------------|----|
| 9700094421 | 1 |

- Control and management of water-bearing surface heating/cooling systems in conjunction with control distributor
- Signal for centralised heating/cooling switchover via potential-free switching output

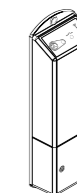


aquatherm black single radio receiver

for control of surface heating/cooling systems

| Article no. | PU |
|-------------|----|
| 9700094424 | 1 |

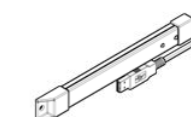
- Control of electric actuators, zone valves, radiators, etc.
- Control via radio room thermostat or directly via the central radio unit



aquatherm black Funk-Repeater

to extend the radio transmission range

| Article no. | PU |
|-------------|----|
| 9700094425 | 1 |



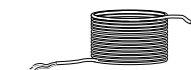
aquatherm black external sensor/floor sensor

3m Cable

| Article no. | PU |
|-------------|----|
| 9700094426 | 1 |

Use in conjunction with wireless room thermostat (with hygrostat) for dew point monitoring

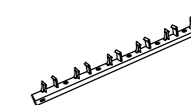
Note: The external sensor must be connected to the cooling/heating surface via cable as early as the shell installation stage!



aquatherm black mounting rail

for heating and cooling grids

| Article no. | Dimension | PU |
|-------------|---------------|----|
| 4090016007 | Length: 24 cm | 10 |



aquatherm black wall bracket

for heating and cooling grids

| Article no. | PU |
|-------------|----|
| 4090000001 | 10 |



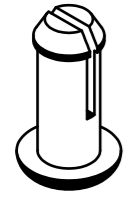
aquatherm black fixing rail for dry wall

for heating and cooling grids

| Article no. | PU |
|-------------|----|
| 4090000002 | 10 |

Please note, when ordering the fixing rail for drywall, that for each rail two connection plugs with the Art. no. 4090000003 have to be ordered

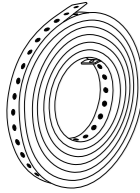




aquatherm black connecting plug

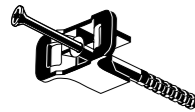
| Article no. | PU |
|-------------|----|
| 4090000003 | 1 |

In connection with Art. no. 4090000001 for fixing the heating-cooling grids in ceiling with metal substructure.
In connection with Art. no. 9700081291 (perforated tape) for fixing the heating-cooling grids in wall systems with metal substructure.



aquatherm black perforated tape

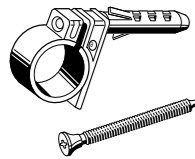
| Article no. | Description | PU |
|-------------|-----------------|----|
| 9700081304 | perforated tape | 1 |



aquatherm black fixing clamp with wall plug

for wall and ceiling installation

| Article no. | PU |
|-------------|----|
| 4050000013 | 10 |



aquatherm black plastic pipe clamps

Colour: anthracite

| Article no. | Dimension | PU |
|-------------|------------------|----|
| 4090016006 | pipe clamp 16 mm | 50 |
| 4090020008 | pipe clamp 20 mm | 50 |



aquatherm black PP-grid connection pipe

with oxygen barrier

| Article no. | Dimension | PU |
|-------------|--------------------------|-----|
| 4110016003 | 16 x 2,0 mm length 4 m | 100 |
| 4110020006 | 20 x 2,0 mm length 2,5 m | 50 |



aquatherm black PP-grid connection pipe

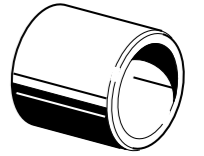
with oxygen barrier, in coil

| Article no. | Dimension | PU |
|-------------|-------------|-----|
| 4110016403 | 16 x 2,0 mm | 100 |
| 4110020306 | 20 x 2,0 mm | 100 |

aquatherm black socket

for heating and cooling grids

| Article no. | Dimension | PU |
|-------------|-----------|----|
| 4040016000 | 16 mm | 10 |



aquatherm black elbow 90°

for heating and cooling grids

| Article no. | Dimension | PU |
|-------------|-----------|----|
| 4080016000 | 16 mm | 10 |



aquatherm black elbow 90° male/female

| Article no. | Dimension | PU |
|-------------|-----------|----|
| 4080016001 | 16 mm | 10 |



aquatherm black end cap

for heating and cooling grids

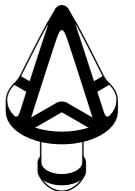
| Article no. | Dimension | PU |
|-------------|---------------|----|
| 4020016000 | end cap 16 mm | 10 |



aquatherm black distance piece

for prefabricated ceilings

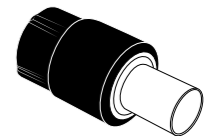
| Article no. | PU |
|-------------|----|
| 4090000004 | 50 |



aquatherm black transition adapter

e.g. for connecting existing metal pipes

| Article no. | Dimension | PU |
|-------------|-------------------------------------|----|
| 4070016000 | 16 mm x 15 mm with press connection | 10 |

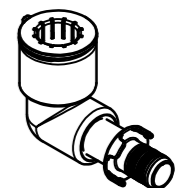


aquatherm black angle bracket

for Flexible connecting pipe

| Article no. | Dimension | PU |
|-------------|-----------|----|
| 4070016001 | 16 mm | 10 |

* only available as a spare part

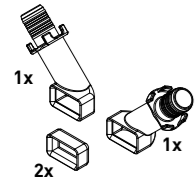


aquatherm black transition adapter

The adapter can be connected by the known sliding sleeve technology with the aquatherm black

| Article no. | Dimension | PU |
|-------------|--------------|----|
| 4050016012 | orange 16 mm | 10 |

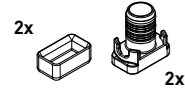




aquatherm black connection set

for connection 46

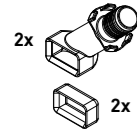
| Article no. | PU |
|-------------|----|
| 9700081118 | 1 |



aquatherm black connection set

for connection 44

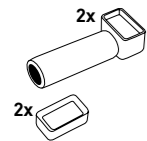
| Article no. | PU |
|-------------|----|
| 9700081117 | 1 |



aquatherm black connection set

for connection 43

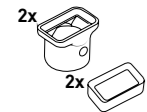
| Article no. | PU |
|-------------|----|
| 9700081116 | 1 |



aquatherm black connection set

for connection 62 + 59 + 52 + 51
2x end cap, 2x 90°-push-fit connection

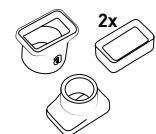
| Article no. | PU |
|-------------|----|
| 9700081112 | 1 |



aquatherm black connection set

for connection type 64 + 45
2x end cap, 2x welding socket

| Article no. | PU |
|-------------|----|
| 9700081114 | 1 |



aquatherm black connection set

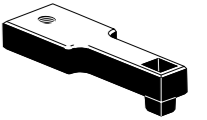
for connection 50 order 2x set + (65)
2x end cap, 1x welding socket, 1x welding spigot

| Article no. | PU |
|-------------|----|
| 9700081115 | 1 |

aquatherm black welding tool

| Article no. | Dimension | PU |
|-------------|-----------|----|
| 9800050285 | 12 x 12mm | 1 |

for sealing plug Art. no. 4090012005



aquatherm black welding tool

| Article no. | Dimension | PU |
|-------------|-----------|----|
| 9800050283 | 14 x 24mm | 1 |

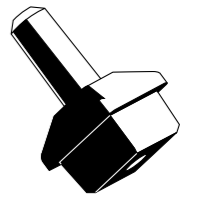


aquatherm black sealing plug

for wall and ceiling grids

| Article no. | Dimension | PU |
|-------------|-----------|----|
| 4090012005 | 12 mm | 10 |

welding tool for sealing plug Art. no. 9800050285 see tools



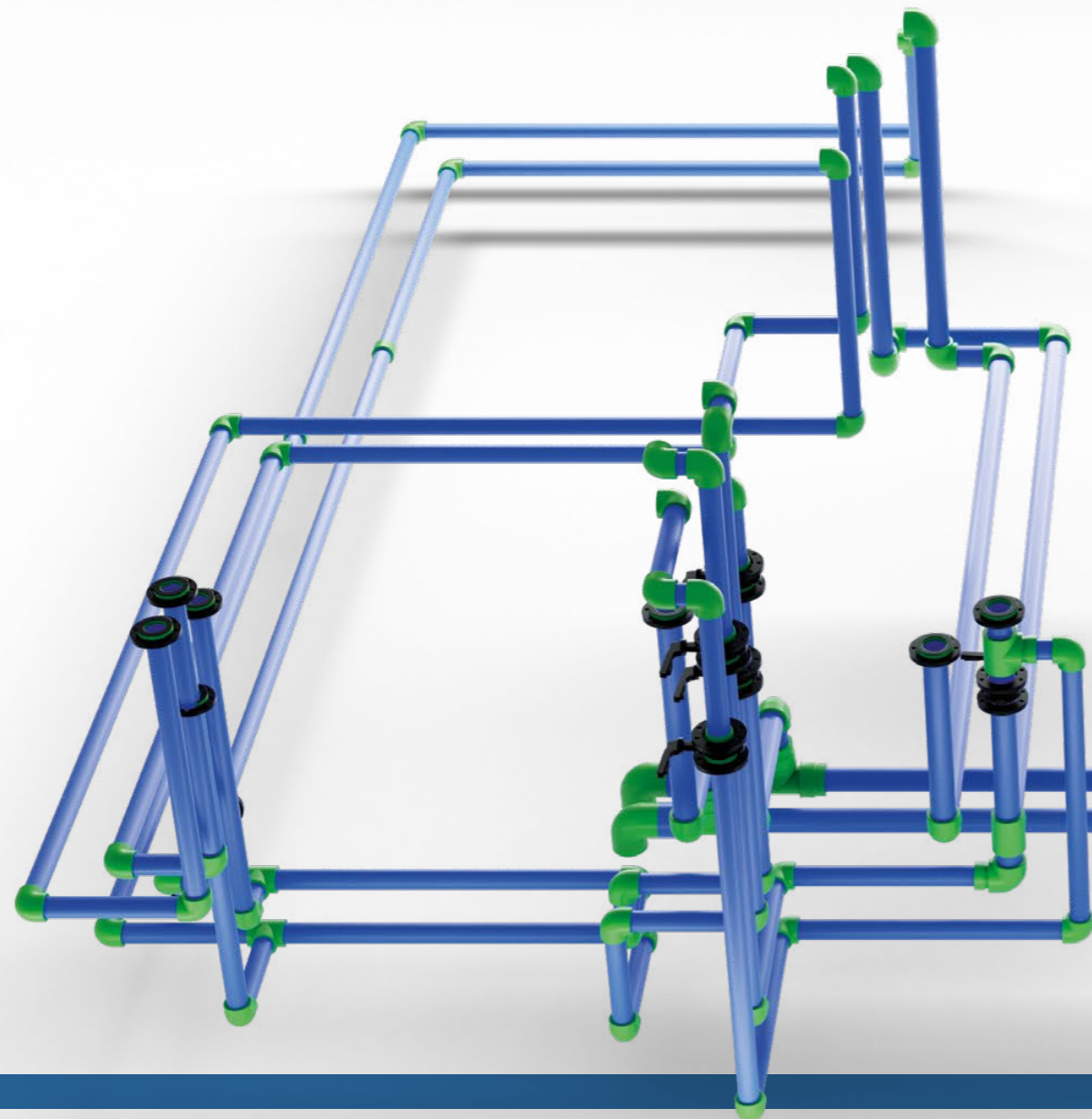
aquatherm blue

Pipe system made of polypropylene

aquatherm blue made of corrosion-resistant polypropylene is a specialist for the transport of cooling and heating media in closed systems and is suitable for various industrial applications.

The physical properties of the plastic are adapted to the special requirements of the heating and cooling sector. It is characterised by its high temperature and pressure resistance. In addition, the thermal fusion welding method creates a fully homogeneous and materially cohesive unit ensuring maximum safety and service life.

The system contains – in combination with the aquatherm green fittings – all components for the pipe installation of air conditioning and heating systems as well as for the plant engineering.

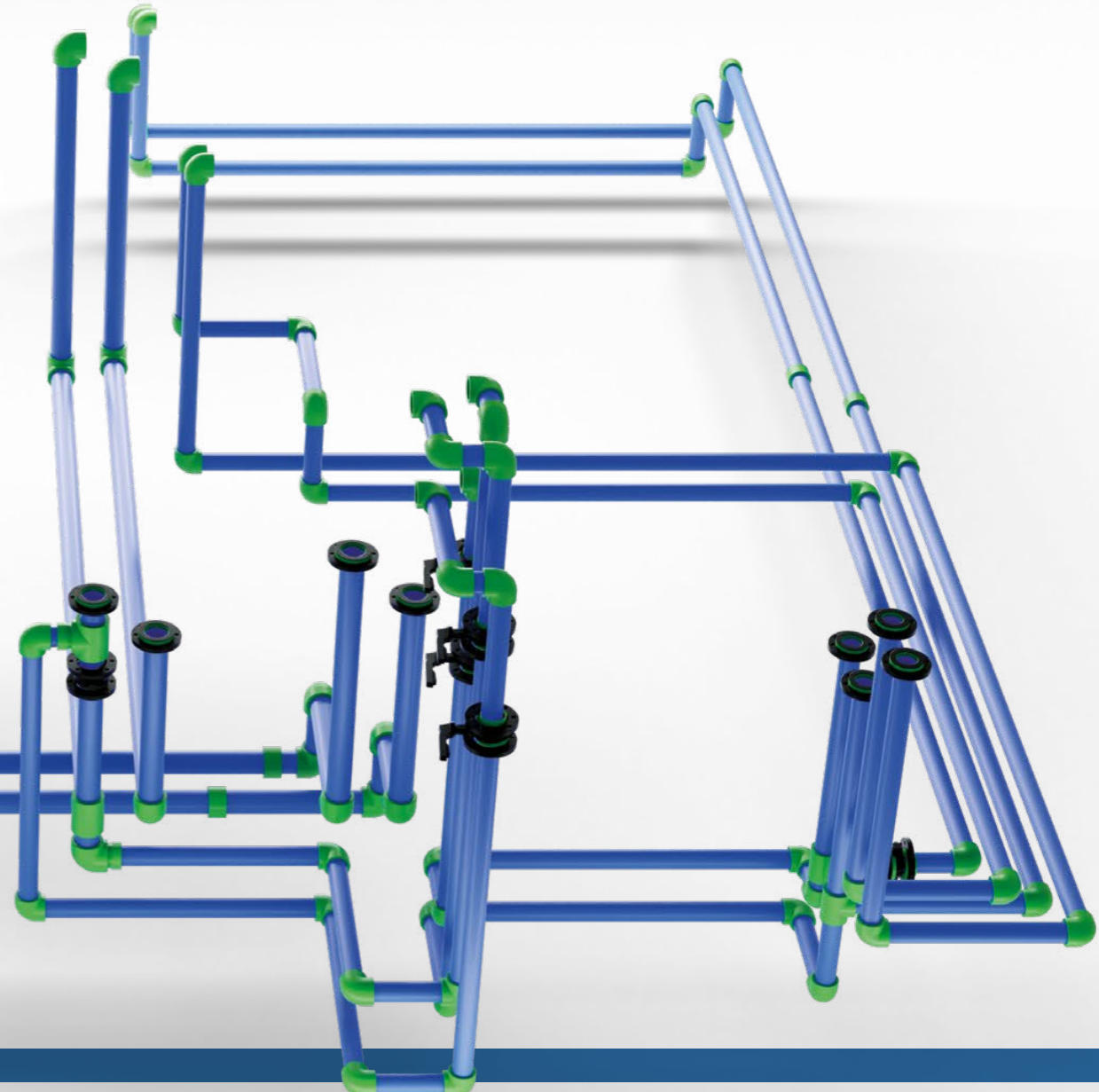


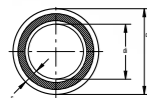
For heating and cooling and various industrial applications

| | 20 | 25 | 32 | 40 | 50 | 63 | 75 | 90 | 110 | 125 | 160 | 200 | 250 | 315 | 355 | 400 | 450 | 500 | 630 | |
|-----------------------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| SDR 7.4 MF | ○ | ○ | | | | | | | | | | | | | | | | | | |
| SDR 7.4 MF UV | ○ | ○ | | | | | | | | | | | | | | | | | | |
| SDR 7.4 MF OT | ○ | ○ | | | | | | | | | | | | | | | | | | |
| SDR 9 MF RP | | | ○ | | | | | | | | | | | | | | | | | |
| SDR 9 MF RP UV | | | ○ | | | | | | | | | | | | | | | | | |
| SDR 9 MF RP OT | | | ○ | | | | | | | | | | | | | | | | | |
| SDR 9 MF RP ENERGY | | | ○ | | | | | | | | | | | | | | | | | |
| SDR 9 MFRP OT ENERGY | | | ○ | | | | | | | | | | | | | | | | | |
| SDR 11 S | ○ | ○ | | | | | | | | | | | | | | | | | | |
| SDR 11 MF RP | | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| SDR 11 MF RP UV | | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| SDR 11 MF RP OT | | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| SDR 11 MF RP ENERGY | | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| SDR 11 MFRP OT ENERGY | | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| SDR 17.6 MF RP | | | | | | | | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| SDR 17.6 MF RP UV | | | | | | | | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| SDR 17.6 MF RP ENERGY | | | | | | | | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

Legend table abbreviations:

- d** diameter in mm
- D** diameter in mm
- s** wall thickness in mm
- di** internal diameter in mm
- l/m** water content in litres/metre
- kg/m** weight data in kg per metre
- DN** diameter nominal
- PU** packing unit in metre
- SDR** standard dimension ratio
- lengths** units in mm unless otherwise specified



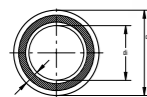
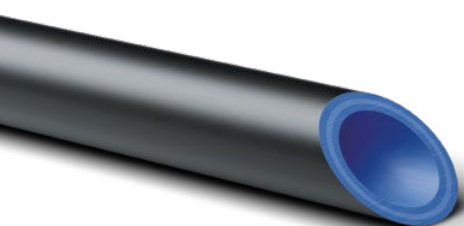


aquatherm blue SDR 7.4 MF

MF = multi-layer, fibre-reinforced
socket welding

Material: fusiolen® PP-R
Pipe series: SDR 7.4 / S 3.2
Standards: SKZ HR 3.28, ASTM F 2389,
CSA B 137.11, ISO 21003
Colour: blue
Packing unit: 4 m straight lengths

| Article no. | d | s | di | l/m | kg/m | DN | PU [m] |
|-------------|----|-----|------|-------|-------|----|--------|
| 2012020006 | 20 | 2.8 | 14.4 | 0.163 | 0.157 | 15 | 100 |
| 2012025008 | 25 | 3.5 | 18.0 | 0.254 | 0.244 | 20 | 100 |

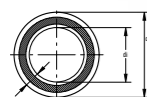


aquatherm blue SDR 7.4 MF UV

MF = multi-layer, fibre-reinforced
UV = UV-resistant
socket welding

Material: fusiolen® PP-R
Pipe series: SDR 7.4 / S 3.2
Standards: SKZ HR 3.28, ASTM F 2389,
CSA B 137.11, ISO 21003
Colour: outside: black / inside: blue
Packing unit: 4 m straight lengths

| Article no. | d | s | di | l/m | kg/m | DN | PU [m] |
|-------------|----|-----|------|-------|-------|----|--------|
| 2212020006 | 20 | 2.8 | 14.4 | 0.163 | 0.210 | 15 | 100 |
| 2212025008 | 25 | 3.5 | 18.0 | 0.254 | 0.314 | 20 | 100 |

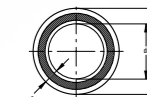


aquatherm blue SDR 7.4 MF OT

MF = multi-layer, fibre-reinforced
OT = oxygen-tight
socket welding

Material: fusiolen® PP-R
Pipe series: SDR 7.4 / S 3.2
Standards: DIN 8077 / 78, DIN EN ISO 15874,
ASTM F 2389, CSA B 137.11, ISO 21003
Colour: blue
Packing unit: 4 m straight lengths

| Article no. | d | s | di | l/m | kg/m | DN | PU [m] |
|-------------|----|-----|------|-------|-------|----|--------|
| 2112020006 | 20 | 2.8 | 14.4 | 0.163 | 0.211 | 15 | 100 |
| 2112025008 | 25 | 3.5 | 18.0 | 0.254 | 0.316 | 20 | 100 |

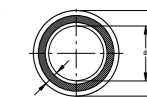
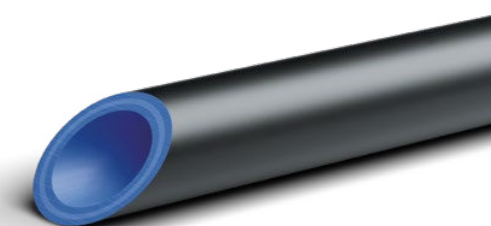


aquatherm blue SDR 9 MF RP

MF = multi-layer, fibre-reinforced
RP = raised pressure resistance
socket welding

Material: fusiolen® PP-R / PP-RCT
Pipe series: SDR 9 / S 4
Standards: SKZ HR 3.28, ASTM F 2389,
CSA B 137.11, ISO 21003
Colour: blue
Packing unit: 4 m straight lengths

| Article no. | d | s | di | l/m | kg/m | DN | PU [m] |
|-------------|----|-----|------|-------|-------|----|--------|
| 2013032010 | 32 | 3.6 | 24.8 | 0.539 | 0.334 | 25 | 40 |

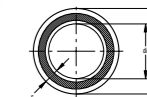


aquatherm blue SDR 9 MF RP UV

MF = multi-layer, fibre-reinforced
RP = raised pressure resistance
UV = UV-resistant
socket welding

Material: fusiolen® PP-R / PP-RCT
Pipe series: SDR 9 / S 4
Standards: SKZ HR 3.28, ASTM F 2389,
CSA B 137.11, ISO 21003
Colour: outside: black / inside: blue
Packing unit: 4 m straight lengths

| Article no. | d | s | di | l/m | kg/m | DN | PU [m] |
|-------------|----|-----|------|-------|-------|----|--------|
| 2213032010 | 32 | 3.6 | 24.8 | 0.483 | 0.435 | 25 | 40 |

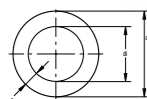


aquatherm blue SDR 9 MF RP OT

MF = multi-layer, fibre-reinforced
RP = raised pressure resistance
OT = oxygen-tight
socket welding

Material: fusiolen® PP-R / PP-RCT
Pipe series: SDR 9 / S 4
Standards: DIN 8077 / 78, DIN EN ISO 15874,
ASTM F 2389, CSA B 137.11, ISO 21003
Colour: blue
Packing unit: 4 m straight lengths

| Article no. | d | s | di | l/m | kg/m | DN | PU [m] |
|-------------|----|-----|------|-------|-------|----|--------|
| 2113032010 | 32 | 3.6 | 24.8 | 0.483 | 0.363 | 25 | 40 |



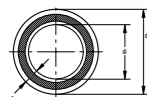
aquatherm blue SDR 11 S

S = single-layer
socket welding

Material: fusiolen® PP-R
Pipe series: SDR 11 / S 5
Standards: DIN 8077 / 78, DIN EN ISO 15874,
ASTM F 2389, CSA B 137.11, NSF 14
Colour: blue
Packing unit: 4 m straight lengths

| Article no. | d | s | di | l/m | kg/m | DN | PU [m] |
|--------------|----|-----|------|-------|-------|----|--------|
| 2014020006 | 20 | 1.9 | 16.2 | 0.206 | 0.108 | 15 | 100 |
| 2014025008 | 25 | 2.3 | 20.4 | 0.327 | 0.165 | 20 | 100 |
| 2014020306 * | 20 | 1.9 | 16.2 | 0.206 | 0.108 | 15 | 100 |
| 2014025308 * | 25 | 2.3 | 20.4 | 0.327 | 0.165 | 20 | 100 |
| 2014032310 * | 32 | 2.9 | 26.2 | 0.539 | 0.261 | 25 | 50 |

*Packing unit: in coils



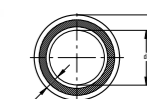
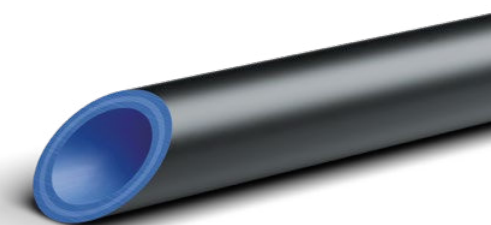
aquatherm blue SDR 11 MF RP

MF = multi-layer, fibre-reinforced
RP = raised pressure resistance

Material: fusiolen® PP-R / PP-RCT
Pipe series: SDR 11 / S 5
Standards: SKZ HR 3.28, ASTM F 2389,
CSA B 137.11, ISO 21003
Colour: blue
Packing unit: ø 20 – 125 mm straight lengths 4 m
ø 160 – 630 mm straight lengths 5.8 m

| Article no. | d | s | di | l/m | kg/m | DN | PU [m] |
|----------------|-----|------|-------|---------|--------|-----|--------|
| socket welding | | | | | | | |
| 2014040012 | 40 | 3.7 | 32.6 | 0.834 | 0.430 | 32 | 40 |
| 2014050014 | 50 | 4.6 | 40.8 | 1.307 | 0.651 | 40 | 20 |
| 2014063016 | 63 | 5.8 | 51.4 | 2.074 | 1.062 | 50 | 20 |
| 2014075018 | 75 | 6.8 | 61.4 | 2.959 | 1.494 | 65 | 20 |
| 2014090020 | 90 | 8.2 | 73.6 | 4.252 | 2.141 | 80 | 12 |
| 2014110022 | 110 | 10.0 | 90.0 | 6.359 | 3.239 | - | 8 |
| 2014125024 | 125 | 11.4 | 102.2 | 8.199 | 4.092 | 100 | 4 |
| butt welding | | | | | | | |
| 2014160026 * | 160 | 14.6 | 130.8 | 13.430 | 6.710 | 125 | 5.8 |
| 2014200028 * | 200 | 18.2 | 163.6 | 21.010 | 10.442 | 150 | 5.8 |
| 2014250030 * | 250 | 22.7 | 204.6 | 32.861 | 16.579 | 200 | 5.8 |
| 2014315032 * | 315 | 28.6 | 257.8 | 52.172 | 26.223 | 250 | 5.8 |
| 2014355034 * | 355 | 32.2 | 290.6 | 66.290 | 33.276 | 300 | 5.8 |
| 2014400036 * | 400 | 36.3 | 327.6 | 84.290 | 42.266 | 300 | 5.8 |
| 2014450038 * | 450 | 40.9 | 368.2 | 106.470 | 53.566 | 400 | 5.8 |

*5.8 m straight lengths



aquatherm blue SDR 11 MF RP UV

MF = multi-layer, fibre-reinforced
RP = raised pressure resistance
UV = UV-resistant

Material: fusiolen® PP-R / PP-RCT
Pipe series: SDR 11
Standards: SKZ HR 3.28, ASTM F 2389,
CSA B 137.11, ISO 21003
Colour: outside: black / inside: blue
Packing unit: ø 20 – 125 mm straight lengths 4 m
ø 160 – 630 mm straight lengths 5.8 m

| Article no. | d | s | di | l/m | kg/m | DN | PU [m] |
|----------------|-----|------|-------|---------|--------|-----|--------|
| socket welding | | | | | | | |
| 2214040012 | 40 | 3.7 | 32.6 | 0.834 | 0.555 | 32 | 40 |
| 2214050014 | 50 | 4.6 | 40.8 | 1.307 | 0.827 | 40 | 20 |
| 2214063016 | 63 | 5.8 | 51.4 | 2.074 | 1.260 | 50 | 20 |
| 2214075018 | 75 | 6.8 | 61.4 | 2.959 | 1.712 | 65 | 20 |
| 2214090020 | 90 | 8.2 | 73.6 | 4.252 | 2.480 | 80 | 12 |
| 2214110022 | 110 | 10.0 | 90.0 | 6.359 | 3.693 | - | 8 |
| 2214125024 | 125 | 11.4 | 102.2 | 8.199 | 4.774 | 100 | 4 |
| butt welding | | | | | | | |
| 2214160026 * | 160 | 14.6 | 130.8 | 13.430 | 7.181 | 125 | 5.8 |
| 2214200028 * | 200 | 18.2 | 163.6 | 21.010 | 11.029 | 150 | 5.8 |
| 2214250030 * | 250 | 22.7 | 204.6 | 32.861 | 17.312 | 200 | 5.8 |
| 2214315032 * | 315 | 28.6 | 257.8 | 52.172 | 26.223 | 250 | 5.8 |
| 2214355034 * | 355 | 32.2 | 290.6 | 66.292 | 34.315 | 300 | 5.8 |
| 2214400036 * | 400 | 36.3 | 327.6 | 84.145 | 43.437 | 300 | 5.8 |
| 2214450038 * | 450 | 40.9 | 368.2 | 106.423 | 54.883 | 400 | 5.8 |

*5.8 m straight lengths

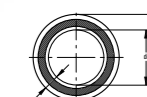
aquatherm blue SDR 11 MF RP OT

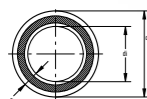
MF = multi-layer, fibre-reinforced
RP = raised pressure resistance
OT = oxygen-tight

Material: fusiolen® PP-R / PP-RCT
Pipe series: SDR 11 / S 5
Standards: DIN 8077 / 78, DIN EN ISO 15874,
ASTM F 2389, CSA B 137.11, ISO 21003
Colour: blue
Packing unit: ø 20 – 125 mm straight lengths 4 m
ø 160 – 250 mm straight lengths 5.8 m

| Article no. | d | s | di | l/m | kg/m | DN | PU [m] |
|----------------|-----|------|-------|--------|--------|-----|--------|
| socket welding | | | | | | | |
| 2114040012 | 40 | 3.7 | 32.6 | 0.834 | 0.562 | 32 | 40 |
| 2114050014 | 50 | 4.6 | 40.8 | 1.307 | 0.695 | 40 | 20 |
| 2114063016 | 63 | 5.8 | 51.4 | 2.074 | 1.279 | 50 | 20 |
| 2114075018 | 75 | 6.8 | 61.4 | 2.959 | 1.739 | 65 | 20 |
| 2114090020 | 90 | 8.2 | 73.6 | 4.252 | 2.533 | 80 | 12 |
| 2114110022 | 110 | 10.0 | 90.0 | 6.359 | 3.752 | - | 8 |
| 2114125024 | 125 | 11.4 | 102.2 | 8.199 | 4.201 | 100 | 4 |
| butt welding | | | | | | | |
| 2114160026 * | 160 | 14.6 | 130.8 | 13.430 | 6.847 | 125 | 5.8 |
| 2114200028 * | 200 | 18.2 | 163.6 | 21.010 | 10.520 | 150 | 5.8 |
| 2114250030 * | 250 | 22.7 | 204.6 | 32.861 | 16.226 | 200 | 5.8 |

*5.8 m straight lengths



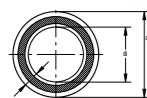
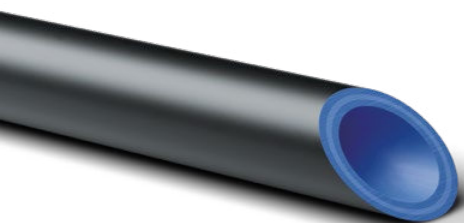


aquatherm blue SDR 17.6 MF RP

MF = multi-layer, fibre-reinforced
RP = raised pressure resistance
butt welding

Material: fusiolen® PP-RCT
Pipe series: SDR 7.4 / S 3.2
Standards: SKZ HR 3.28, ASTM F 2389, CSA B 137.11, ISO 21003
Colour: blue
Packing unit: 5.8 m straight lengths

| Article no. | d | s | di | l/m | kg/m | DN | PU [m] |
|-------------|-----|------|-------|---------|--------|-----|--------|
| 2017160026 | 160 | 9.1 | 141.8 | 15.792 | 4.390 | 150 | 5.8 |
| 2017200028 | 200 | 11.4 | 177.2 | 24.661 | 6.927 | 200 | 5.8 |
| 2017250030 | 250 | 14.2 | 221.6 | 38.568 | 10.636 | 250 | 5.8 |
| 2017315032 | 315 | 17.9 | 279.2 | 61.223 | 16.606 | 300 | 5.8 |
| 2017355034 | 355 | 20.1 | 314.8 | 77.832 | 21.589 | 350 | 5.8 |
| 2017400036 | 400 | 22.7 | 354.6 | 98.756 | 27.468 | 350 | 5.8 |
| 2017450038 | 450 | 25.5 | 399.0 | 125.036 | 34.716 | 400 | 5.8 |
| 2017500040 | 500 | 28.4 | 443.2 | 154.272 | 42.955 | 450 | 5.8 |
| 2017630042 | 630 | 35.7 | 558.6 | 245.070 | 68.044 | 500 | 5.8 |



aquatherm blue SDR 17.6 MF RP UV

MF = multi-layer, fibre-reinforced
RP = raised pressure resistance
UV = UV-resistant
butt welding

Material: fusiolen® PP-R / PP-RCT
Pipe series: SDR 17.6 / 8.3
Standards: SKZ HR 3.28, ASTM F 2389, CSA B 137.11, ISO 21003
Colour: outside: black / inside: blue
Packing unit: 5.8 m straight lengths

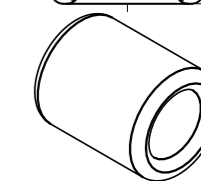
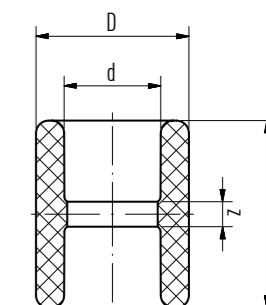
| Article no. | d | s | di | l/m | kg/m | DN | PU [m] |
|-------------|-----|------|-------|---------|--------|-----|--------|
| 2217160026 | 160 | 9.1 | 141.8 | 15.784 | 4.860 | 150 | 5.8 |
| 2217200028 | 200 | 11.4 | 177.2 | 24.649 | 7.514 | 200 | 5.8 |
| 2217250030 | 250 | 14.2 | 221.6 | 38.549 | 11.369 | 250 | 5.8 |
| 2217315032 | 315 | 17.9 | 279.2 | 61.193 | 17.529 | 300 | 5.8 |
| 2217355034 | 355 | 20.1 | 314.8 | 77.793 | 22.628 | 350 | 5.8 |
| 2217400036 | 400 | 22.7 | 354.6 | 98.707 | 28.639 | 350 | 5.8 |
| 2217450038 | 450 | 25.5 | 399.0 | 124.973 | 36.033 | 400 | 5.8 |
| 2217500040 | 500 | 28.4 | 443.2 | 154.195 | 44.418 | 450 | 5.8 |
| 2217630042 | 630 | 35.7 | 558.6 | 245.947 | 69.887 | 500 | 5.8 |

Socket

SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | L | z | kg | PU |
|-------------|-----|-------|------|------|-------|----|
| 1040020002 | 20 | 27.0 | 32.0 | 3.0 | 0.008 | 10 |
| 1040025003 | 25 | 34.0 | 35.0 | 3.0 | 0.013 | 10 |
| 1040032004 | 32 | 43.0 | 40.5 | 4.5 | 0.026 | 5 |
| 1040040005 | 40 | 52.0 | 47.5 | 6.5 | 0.044 | 5 |
| 1040050006 | 50 | 68.0 | 53.0 | 6.0 | 0.084 | 5 |
| 1040063007 | 63 | 84.0 | 60.5 | 5.5 | 0.139 | 1 |
| 1040075008 | 75 | 100.0 | 66.5 | 6.5 | 0.226 | 1 |
| 1040090009 | 90 | 120.0 | 72.5 | 6.5 | 0.343 | 1 |
| 1040110010 | 110 | 147.0 | 82.0 | 8.0 | 0.581 | 1 |
| 1040125011 | 125 | 167.0 | 92.0 | 12.0 | 0.845 | 1 |

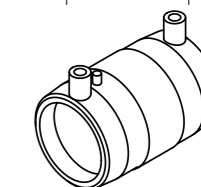
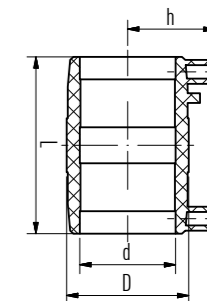


Electrofusion socket

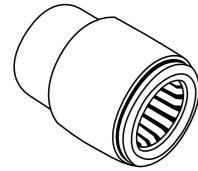
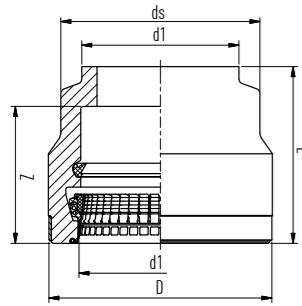
SDR 6 / 7.4 / 9 / 11 / 17.6
Electro-socket welding

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | L | h | kg | PU |
|--------------|-----|-------|-------|-------|-------|----|
| 1040020094 | 20 | 31.5 | 70.0 | 36.0 | 0.049 | 1 |
| 1040025100 | 25 | 36.5 | 78.0 | 38.5 | 0.057 | 1 |
| 1040032101 | 32 | 45.0 | 80.0 | 42.5 | 0.077 | 1 |
| 1040040102 | 40 | 54.0 | 92.0 | 47.0 | 0.103 | 1 |
| 1040050103 | 50 | 65.0 | 103.0 | 52.0 | 0.142 | 1 |
| 1040063104 | 63 | 81.5 | 118.0 | 58.0 | 0.239 | 1 |
| 1040075105 | 75 | 96.0 | 130.0 | 64.5 | 0.347 | 1 |
| 1040090106 | 90 | 113.5 | 145.0 | 72.0 | 0.501 | 1 |
| 1040110107 | 110 | 139.0 | 160.0 | 82.5 | 0.821 | 1 |
| 1040125108 | 125 | 156.0 | 172.0 | 90.0 | 1.097 | 1 |
| 1040160109 * | 160 | 197.0 | 186.0 | 109.5 | 1.754 | 1 |
| 1040200110 * | 200 | 243.0 | 210.0 | 134.0 | 3.625 | 1 |
| 1040250111 * | 250 | 315.0 | 250.0 | 170.0 | 7.142 | 1 |



do not use with 160 – 250 mm fittings
*do not use with aquatherm blue MF OT

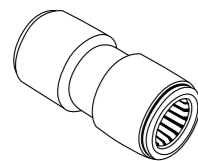
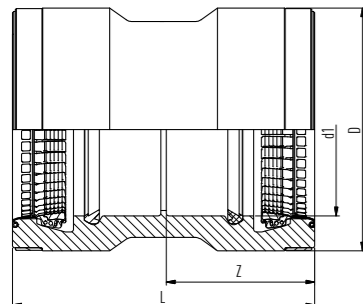


Push-fit adapter

Material: fusiolen® PP-RCT / EPDM
Standards: DIN EN ISO 15874
Colour: green

| Article no. | d1 | ds | D | L | z | kg | PU |
|-------------|-----|-----|-------|-------|-------|--------|----|
| SDR 11 | | | | | | | |
| 2054090000 | 90 | 112 | 152.0 | 170.0 | 140.0 | 1.200 | 1 |
| 2054110001 | 110 | 140 | 175.0 | 205.0 | 170.0 | 2.000 | 1 |
| 2054125002 | 125 | 161 | 190.0 | 210.0 | 172.0 | 2.300 | 1 |
| 2054160004 | 160 | 202 | 234.0 | 227.0 | 183.0 | 3.800 | 1 |
| 2054200006 | 200 | 250 | 285.0 | 285.0 | 231.0 | 6.500 | 1 |
| 2054250008 | 250 | 317 | 375.0 | 315.0 | 243.0 | 15.000 | 1 |
| 2054315010 | 315 | 400 | 450.0 | 355.0 | 275.0 | 24.000 | 1 |
| 2054355012 | 355 | 450 | 492.0 | 370.0 | 283.0 | 28.000 | 1 |
| 2054400014 | 400 | 500 | 540.0 | 390.0 | 300.0 | 34.000 | 1 |
| 2054450016 | 450 | 560 | 600.0 | 415.0 | 318.0 | 44.000 | 1 |
| SDR 17.6 | | | | | | | |
| 2057125003 | 125 | 161 | 190.0 | 210.0 | 172.0 | 2.300 | 1 |
| 2057160005 | 160 | 202 | 234.0 | 227.0 | 183.0 | 3.800 | 1 |
| 2057200007 | 200 | 250 | 285.0 | 285.0 | 231.0 | 6.500 | 1 |
| 2057250009 | 250 | 295 | 355.0 | 315.0 | 243.0 | 11.500 | 1 |
| 2057315011 | 315 | 370 | 425.0 | 345.0 | 275.0 | 16.300 | 1 |
| 2057355013 | 355 | 415 | 470.0 | 360.0 | 283.0 | 20.000 | 1 |
| 2057400015 | 400 | 465 | 510.0 | 390.0 | 300.0 | 23.800 | 1 |
| 2057450017 | 450 | 520 | 565.0 | 400.0 | 318.0 | 27.800 | 1 |

Do not use for aquatherm blue MF RP OT
Fittings and connecting parts e.g. elbows (45°/90°), T-pieces, Red. T-pieces etc. on request



Push-fit coupling

SDR 11 / 17.6

Material: fusiolen® PP-RCT / EPDM
Standards: DIN EN ISO 15874
Colour: green

| Article no. | d1 | D | L | z | kg | PU |
|-------------|-----|-------|-------|-------|--------|----|
| 2054090020 | 90 | 152.0 | 285.0 | 140.0 | 2.300 | 1 |
| 2054110021 | 110 | 175.0 | 345.0 | 170.0 | 3.700 | 1 |
| 2054125022 | 125 | 190.0 | 350.0 | 172.0 | 4.300 | 1 |
| 2054160023 | 160 | 234.0 | 372.0 | 183.0 | 6.600 | 1 |
| 2054200024 | 200 | 285.0 | 470.0 | 231.0 | 11.000 | 1 |
| 2054250025 | 250 | 375.0 | 496.0 | 243.0 | 20.420 | 1 |
| 2054315026 | 315 | 450.0 | 560.0 | 275.0 | 40.200 | 1 |
| 2054355027 | 355 | 492.0 | 576.0 | 283.0 | 45.700 | 1 |
| 2054400028 | 400 | 540.0 | 610.0 | 300.0 | 54.800 | 1 |
| 2054450029 | 450 | 600.0 | 646.0 | 318.0 | 69.600 | 1 |

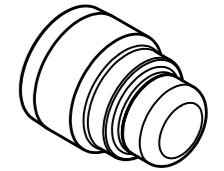
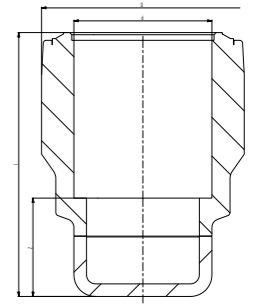
Do not use for aquatherm blue MF RP OT

End cap with push-fit adapter

Material: fusiolen® PP-RCT / EPDM
Standards: DIN EN ISO 15874
Colour: green

| Article no. | d | l | D | z | kg | PU |
|-------------|-----|-------|-------|-------|--------|----|
| SDR 11 | | | | | | |
| 2054090030 | 90 | 236.5 | 152.0 | 87.5 | 1.647 | 1 |
| 2054110031 | 110 | 269 | 175.0 | 90.0 | 2.771 | 1 |
| 2054125032 | 125 | 291 | 190.0 | 110.0 | 3.368 | 1 |
| 2054160033 | 160 | 306 | 235.0 | 114.0 | 4.431 | 1 |
| 2054200034 | 200 | 374 | 285.0 | 134.0 | 7.570 | 1 |
| 2054250035 | 250 | 405 | 375.0 | 162.0 | 16.989 | 1 |
| 2054315036 | 315 | 425 | 450.0 | 150.0 | 28.200 | 1 |
| 2054355037 | 355 | 450 | 492.0 | 167.0 | 34.410 | 1 |
| 2054400038 | 400 | 460 | 540.0 | 160.0 | 41.190 | 1 |
| 2054450039 | 450 | 495 | 600.0 | 177.0 | 54.500 | 1 |
| SDR 17.6 | | | | | | |
| 2057160040 | 160 | 306 | 235.0 | 114.0 | 4.479 | 1 |
| 2057200041 | 200 | 374 | 285.0 | 134.0 | 7.425 | 1 |
| 2057250042 | 250 | 405 | 355.0 | 162.0 | 12.805 | 1 |
| 2057315043 | 315 | 415 | 425.0 | 140.0 | 20.800 | 1 |
| 2057355044 | 355 | 430 | 470.0 | 147.0 | 25.540 | 1 |
| 2057400045 | 400 | 465 | 510.0 | 165.0 | 29.800 | 1 |
| 2057450046 | 450 | 470 | 565.0 | 152.0 | 36.320 | 1 |

Do not use for aquatherm blue MF RP OT

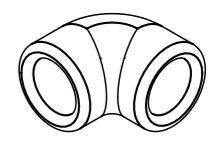
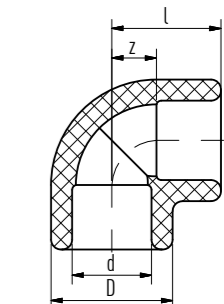


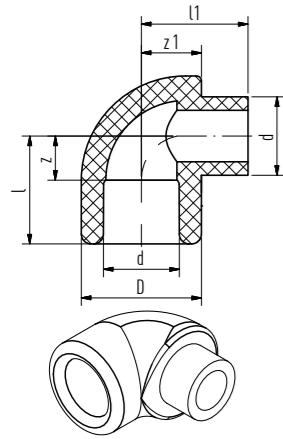
Elbow 90° socket welding

SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | D | z | kg | PU |
|-------------|-----|-------|-------|------|-------|----|
| 1080020041 | 20 | 25.5 | 27.0 | 11.0 | 0.013 | 10 |
| 1080025042 | 25 | 29.5 | 34.0 | 13.5 | 0.023 | 10 |
| 1080032043 | 32 | 35.0 | 43.0 | 17.0 | 0.043 | 5 |
| 1080040044 | 40 | 41.5 | 52.0 | 21.0 | 0.077 | 5 |
| 1080050045 | 50 | 49.5 | 68.0 | 26.0 | 0.162 | 5 |
| 1080063046 | 63 | 60.0 | 84.0 | 32.5 | 0.293 | 1 |
| 1080075047 | 75 | 68.5 | 100.0 | 38.5 | 0.445 | 1 |
| 1080090048 | 90 | 79.0 | 120.0 | 46.0 | 0.729 | 1 |
| 1080110049 | 110 | 93.0 | 147.0 | 56.0 | 1.292 | 1 |
| 1080125050 | 125 | 116.5 | 167.0 | 76.5 | 2.004 | 1 |



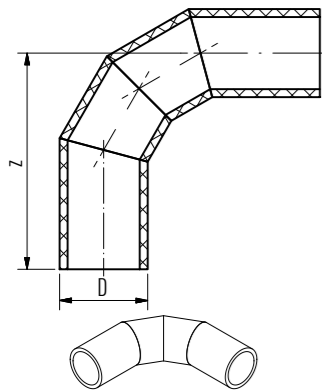


Elbow 90° female/male

socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | D | z | z1 | kg | PU |
|-------------|----|------|------|------|------|------|-------|----|
| 1080020061 | 20 | 25.5 | 25.5 | 27.0 | 11.0 | 13.5 | 0.032 | 10 |
| 1080025062 | 25 | 29.5 | 29.5 | 34.0 | 13.5 | 17.0 | 0.023 | 10 |
| 1080032063 | 32 | 35.0 | 39.0 | 43.0 | 17.0 | 21.5 | 0.048 | 5 |
| 1080040064 | 40 | 41.5 | 45.5 | 52.0 | 21.0 | 26.0 | 0.080 | 5 |



Elbow 90° butt welding

Material: fusiolen® PP-R / PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: blue / green

| Article no. | D | z | kg | PU |
|--------------|-------|---------|---------|----|
| SDR 11 | | | | |
| 1084160052 * | 160.0 | 145.0 | 1.956 | 1 |
| 1084200054 * | 200.0 | 209.0 | 4.575 | 1 |
| 1084250056 * | 250.0 | 240.0 | 7.180 | 1 |
| 2084315028 | 315.0 | 773.0 | 37.300 | 1 |
| 2084355032 | 355.0 | 833.0 | 57.074 | 1 |
| 2084400036 | 400.0 | 900.0 | 74.500 | 1 |
| 2084450040 | 450.0 | 975.0 | 89.080 | 1 |
| SDR 17.6 | | | | |
| 2087160021 * | 160.0 | 145.0 | 1.512 | 1 |
| 2087200023 * | 200.0 | 209.0 | 3.640 | 1 |
| 2087250025 * | 250.0 | 240.0 | 6.011 | 1 |
| 2087315029 | 315.0 | 773.0 | 24.000 | 1 |
| 2087355033 | 355.0 | 833.0 | 32.000 | 1 |
| 2087400037 | 400.0 | 900.0 | 42.549 | 1 |
| 2087450041 | 450.0 | 975.0 | 62.200 | 1 |
| 2087500043 | 500.0 | 1,100.0 | 91.000 | 1 |
| 2087630045 | 630.0 | 1,295.0 | 164.600 | 1 |

*Injection molded fitting

Please note! Electrofusion sockets can not be processed directly with injection molded fittings. When using electrofusion sockets either segment welded special fittings must be used or pipe pieces must be welded to the injection molded fittings.

pipe segments

Injection molded fitting

Elbow 90° with push-fit adapter

Fitting made of pipe segments

Material: fusiolen® PP-RCT / EPDM
Standards: DIN EN ISO 15874
Colour: green

| Article no. | d | l | D | z | kg | PU |
|--------------|-----|-------|-------|-------|---------|----|
| SDR 11 | | | | | | |
| 2054090100 * | 90 | 248 | 152.0 | 99.0 | 3.290 | 1 |
| 2054110101 * | 110 | 297 | 175.0 | 118.0 | 4.907 | 1 |
| 2054125102 * | 125 | 324.5 | 190.0 | 143.5 | 6.996 | 1 |
| 2054160103 * | 160 | 381 | 235.0 | 189.0 | 9.556 | 1 |
| 2054200104 * | 200 | 503 | 285.0 | 263.0 | 17.575 | 1 |
| 2054250105 * | 250 | 555 | 375.0 | 312.0 | 37.180 | 1 |
| 2054315106 | 315 | 875 | 450.0 | 600.0 | 85.850 | 1 |
| 2054355107 | 355 | 940 | 492.0 | 658.0 | 105.000 | 1 |
| 2054400018 | 400 | 1020 | 540.0 | 720.0 | 130.800 | 1 |
| 2054450109 | 450 | 1104 | 600.0 | 786.0 | 177.500 | 1 |
| SDR 17.6 | | | | | | |
| 2057160090 * | 160 | 381 | 235.0 | 189.0 | 9.111 | 1 |
| 2057200091 * | 200 | 503 | 285.0 | 263.0 | 16.640 | 1 |
| 2057250092 * | 250 | 555 | 355.0 | 312.0 | 29.011 | 1 |
| 2057315093 | 315 | 875 | 425.0 | 600.0 | 56.600 | 1 |
| 2057355094 | 355 | 940 | 470.0 | 658.0 | 72.000 | 1 |
| 2057400095 | 400 | 1020 | 510.0 | 720.0 | 90.150 | 1 |
| 2057450096 | 450 | 1104 | 565.0 | 786.0 | 117.800 | 1 |

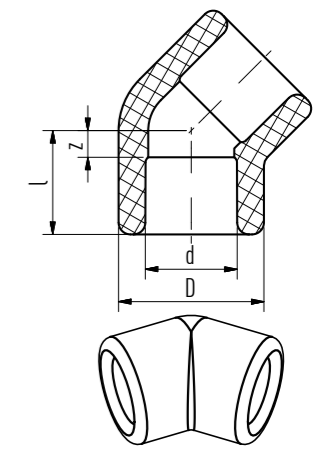
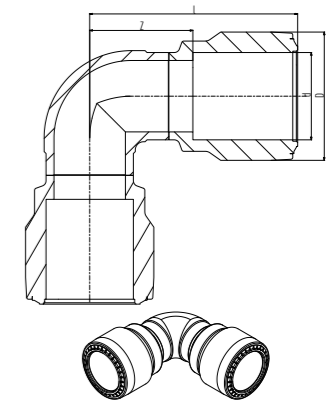
*Injection molded fitting (green)
Do not use for aquatherm blue MF RP OT

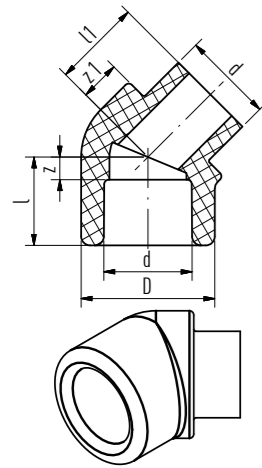
Elbow 45° socket welding

SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | D | z | kg | PU |
|-------------|-----|------|-------|------|-------|----|
| 1080020002 | 20 | 19.5 | 29.5 | 5.0 | 0.014 | 10 |
| 1080025003 | 25 | 22 | 34.0 | 6.0 | 0.018 | 10 |
| 1080032004 | 32 | 25 | 43.0 | 7.5 | 0.035 | 5 |
| 1080040005 | 40 | 30 | 52.0 | 9.5 | 0.053 | 5 |
| 1080050006 | 50 | 35 | 68.0 | 11.5 | 0.112 | 5 |
| 1080063007 | 63 | 41.5 | 84.0 | 14.0 | 0.227 | 1 |
| 1080075008 | 75 | 46.5 | 100.0 | 16.5 | 0.350 | 1 |
| 1080090009 | 90 | 52.5 | 120.0 | 19.5 | 0.568 | 1 |
| 1080110010 | 110 | 60.5 | 147.0 | 23.5 | 1.025 | 1 |
| 1080125011 | 125 | 67 | 167.0 | 27.0 | 1.329 | 1 |





Elbow 45° female/male

socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | D | z | z1 | kg | PU |
|-------------|----|------|------|------|-----|------|-------|----|
| 1080020020 | 20 | 19.5 | 19.5 | 29.5 | 5.0 | 9.0 | 0.013 | 10 |
| 1080020021 | 25 | 22.0 | 22.0 | 34.0 | 6.0 | 8.5 | 0.017 | 10 |
| 1080032022 | 32 | 25.5 | 29.0 | 43.0 | 7.5 | 11.5 | 0.036 | 5 |
| 1080040023 | 40 | 30.0 | 33.0 | 52.0 | 9.5 | 13.5 | 0.057 | 5 |

Elbow 45° butt welding

pipe segments (**or injection molded fitting)

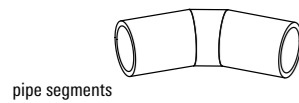
Material: fusiolen® PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: blue / green

| Article no. | D | z | kg | PU |
|---------------|-------|-------|--------|----|
| SDR 11 | | | | |
| 1084160013 | 160.0 | 95.0 | 1.371 | 1 |
| 1084200015 | 200.0 | 146.0 | 3.310 | 1 |
| 1084250017 | 250.0 | 182.0 | 6.218 | 1 |
| 2084315026 * | 315.0 | 498.0 | 27.100 | 1 |
| 2084355030 * | 355.0 | 520.0 | 38.158 | 1 |
| 2084400034 * | 400.0 | 548.0 | 44.712 | 1 |
| 2084450038 * | 450.0 | 580.0 | 60.260 | 1 |
| SDR 17.6 | | | | |
| 2087160020 ** | 160.0 | 95.0 | 1.080 | 1 |
| 2087200022 ** | 200.0 | 146.0 | 1.990 | 1 |
| 2087250024 ** | 250.0 | 182.0 | 3.875 | 1 |
| 2087315027 * | 315.0 | 498.0 | 18.000 | 1 |
| 2087355031 * | 355.0 | 520.0 | 22.058 | 1 |
| 2087400035 * | 400.0 | 548.0 | 30.800 | 1 |
| 2087450039 * | 450.0 | 580.0 | 39.123 | 1 |
| 2087500042 * | 500.0 | 665.0 | 55.112 | 1 |
| 2087630044 * | 630.0 | 741.0 | 97.148 | 1 |

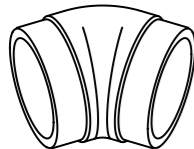
*mechanically stabilised through a fibre mix integrated in the middle layer of the fusiolen® PP-RCT.

**Injection molded fitting (green)

Please note! Electrofusion sockets can not be processed directly with injection molded fittings. When using electrofusion sockets either segment welded special fittings must be used or pipe pieces must be welded to the injection molded fittings.



pipe segments



injection molded fitting

Elbow 45° with push-fit adapter

Fitting made of pipe segments

Material: fusiolen® PP-RCT / EPDM
Standards: DIN EN ISO 15874
Colour: green

| Article no. | d | l | D | z | kg | PU |
|--------------|-----|-------|-------|-------|---------|----|
| SDR 11 | | | | | | |
| 2054090070 * | 90 | 221.5 | 152.0 | 72.5 | 5.419 | 1 |
| 2054110071 * | 110 | 264.5 | 175.0 | 85.5 | 7.482 | 1 |
| 2054125072 * | 125 | 276 | 190.0 | 95.0 | 6.321 | 1 |
| 2054160073 * | 160 | 331 | 235.0 | 139.0 | 8.971 | 1 |
| 2054200074 * | 200 | 440 | 285.0 | 200.0 | 16.310 | 1 |
| 2054250075 * | 250 | 497 | 375.0 | 254.0 | 36.218 | 1 |
| 2054315076 | 315 | 607 | 450.0 | 332.0 | 75.300 | 1 |
| 2054355077 | 355 | 638 | 492.0 | 355.0 | 82.650 | 1 |
| 2054400078 | 400 | 675 | 540.0 | 375.0 | 112.900 | 1 |
| 2054450079 | 450 | 719 | 600.0 | 401.0 | 148.500 | 1 |
| SDR 17.6 | | | | | | |
| 2057160080 * | 160 | 331 | 235.0 | 139.0 | 8.680 | 1 |
| 2057200081 * | 200 | 440 | 285.0 | 200.0 | 14.990 | 1 |
| 2057250082 * | 250 | 497 | 355.0 | 254.0 | 26.875 | 1 |
| 2057315083 | 315 | 597 | 425.0 | 322.0 | 50.600 | 1 |
| 2057355084 | 355 | 628 | 470.0 | 345.0 | 62.058 | 1 |
| 2057400085 | 400 | 675 | 510.0 | 285.0 | 78.400 | 1 |
| 2057450086 | 450 | 704 | 565.0 | 386.0 | 94.723 | 1 |

*Injection molded fitting (green)

Do not use for aquatherm blue MF RP OT

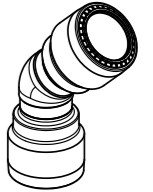
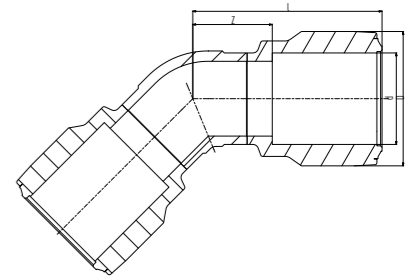
T-piece socket welding

SDR 6 / 7.4 / 9 / 11 / 17.6

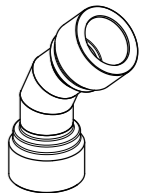
Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | D | L | z | z1 | kg | PU |
|-------------|-----|-------|-------|-------|------|------|-------|----|
| 1060020016 | 20 | 25.5 | 27.0 | 51.0 | 11.0 | 11.0 | 0.017 | 10 |
| 1060025017 | 25 | 30.5 | 34.0 | 62.0 | 14.5 | 15.0 | 0.033 | 10 |
| 1060032018 | 32 | 33.5 | 43.0 | 70.0 | 15.5 | 17.0 | 0.054 | 5 |
| 1060040019 | 40 | 40.5 | 52.0 | 81.0 | 20.0 | 20.0 | 0.099 | 5 |
| 1060050020 | 50 | 49.5 | 68.0 | 99.0 | 26.0 | 26.0 | 0.177 | 5 |
| 1060063021 | 63 | 60.0 | 84.0 | 120.0 | 32.5 | 32.5 | 0.368 | 1 |
| 1060075022 | 75 | 68.5 | 100.0 | 137.0 | 38.5 | 38.5 | 0.541 | 1 |
| 1060090023 | 90 | 79.0 | 120.0 | 158.0 | 46.0 | 46.0 | 0.920 | 1 |
| 1060110024 | 110 | 93.0 | 147.0 | 186.0 | 56.0 | 56.0 | 1.598 | 1 |
| 1060125025 | 125 | 116.5 | 167.0 | 233.0 | 76.5 | 76.5 | 2.673 | 1 |

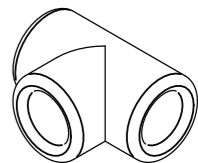
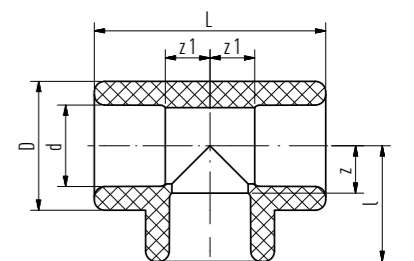
injection moulded fittings

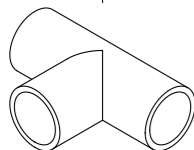
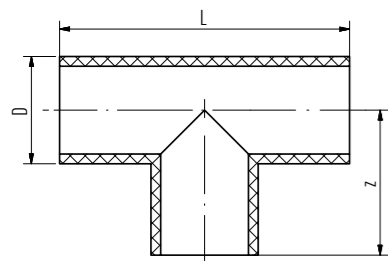


Injection molded fitting

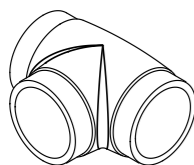
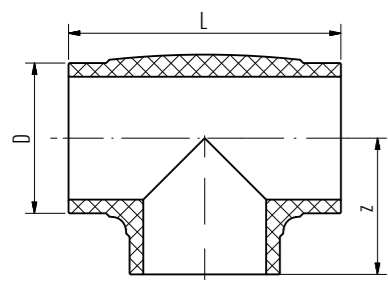


Fitting made of pipe segments





pipe segments



Injection molded fitting

T-piece butt welding

Fitting made of pipe segments

Material: fusiolen® PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | D | L | z | kg | PU |
|--------------|-------|---------|-------|---------|----|
| SDR 11 | | | | | |
| 1064160013 * | 160.0 | 290.0 | 145.0 | 2.943 | 1 |
| 1064200015 * | 200.0 | 410.0 | 205.0 | 6.099 | 1 |
| 1064250017 * | 250.0 | 486.0 | 243.0 | 10.710 | 1 |
| 2064315001 | 315.0 | 920.0 | 460.0 | 36.674 | 1 |
| 2064355002 | 355.0 | 960.0 | 480.0 | 40.000 | 1 |
| 2064400003 | 400.0 | 1,000.0 | 500.0 | 62.100 | 1 |
| 2064450004 | 450.0 | 1,050.0 | 525.0 | 82.792 | 1 |
| SDR 17.6 | | | | | |
| 2067160010 * | 160.0 | 290.0 | 145.0 | 2.348 | 1 |
| 2067200011 * | 200.0 | 410.0 | 205.0 | 4.500 | 1 |
| 2067250012 * | 250.0 | 486.0 | 243.0 | 8.868 | 1 |
| 2067315013 | 315.0 | 920.0 | 460.0 | 19.800 | 1 |
| 2067355014 | 355.0 | 960.0 | 480.0 | 27.500 | 1 |
| 2067400015 | 400.0 | 1,000.0 | 500.0 | 40.395 | 1 |
| 2067450016 | 450.0 | 1,050.0 | 525.0 | 45.400 | 1 |
| 2067500017 | 500.0 | 1,200.0 | 600.0 | 75.726 | 1 |
| 2067630018 | 630.0 | 1,330.0 | 665.0 | 122.500 | 1 |

*Injection molded fitting

Please note! Electrofusion sockets can not be processed directly with injection molded fittings. When using electrofusion sockets either segment welded special fittings must be used or pipe pieces must be welded to the injection molded fittings.

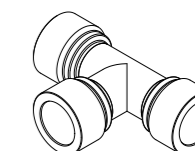
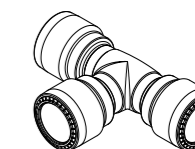
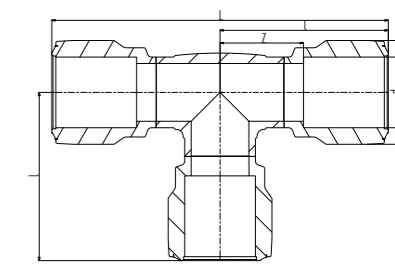
aquatherm T-piece with push-fit adapter

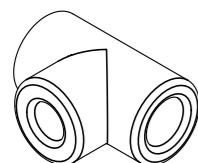
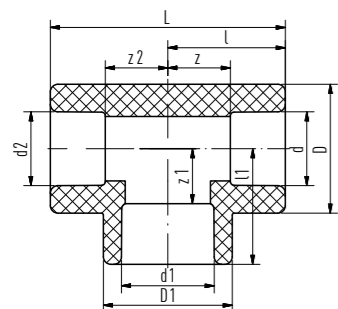
Material: fusiolen® PP-RCT / EPDM
Standards: DIN EN ISO 15874
Colour: green

| Article no. | d | l | D | L | z | kg | PU |
|--------------|-----|-------|-------|---------|-------|---------|----|
| SDR 11 | | | | | | | |
| 2054090050 | 90 | 248 | 152.0 | 496.0 | 99.0 | 4.765 | 1 |
| 2054110051 | 110 | 325.5 | 175.0 | 651.0 | 118.0 | 8.006 | 1 |
| 2054125052 | 125 | 325.5 | 190.0 | 651.0 | 144.5 | 10.162 | 1 |
| 2054160053 | 160 | 381 | 235.0 | 762.0 | 189.0 | 14.340 | 1 |
| 2054200054 | 200 | 499 | 285.0 | 998.0 | 259.0 | 25.599 | 1 |
| 2054250055 | 250 | 558 | 375.0 | 1,116.0 | 315.0 | 55.710 | 1 |
| 2054315056 * | 315 | 645 | 450.0 | 1,290.0 | 370.0 | 92.450 | 1 |
| 2054355057 * | 355 | 685 | 492.0 | 1,370.0 | 402.0 | 129.072 | 1 |
| 2054400058 * | 400 | 725 | 540.0 | 1,450.0 | 425.0 | 165.100 | 1 |
| 2054450059 * | 450 | 775 | 600.0 | 1,550.0 | 457.0 | 215.300 | 1 |
| SDR 17.6 | | | | | | | |
| 2057160060 | 160 | 381 | 235.0 | 762.0 | 189.0 | 13.747 | 1 |
| 2057200061 | 200 | 499 | 285.0 | 998.0 | 259.0 | 24.000 | 1 |
| 2057250062 | 250 | 558 | 355.0 | 1,116.0 | 315.0 | 43.368 | 1 |
| 2057315063 * | 315 | 635 | 425.0 | 1,270.0 | 360.0 | 68.700 | 1 |
| 2057355064 * | 355 | 675 | 470.0 | 1,350.0 | 392.0 | 87.500 | 1 |
| 2057400065 * | 400 | 725 | 510.0 | 1,450.0 | 425.0 | 111.795 | 1 |
| 2057450066 * | 450 | 760 | 565.0 | 1,520.0 | 442.0 | 128.800 | 1 |

*pipe segments

Do not use for aquatherm blue MF RP OT





Red. T-piece, socket welding

injection moulded fittings — SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | d1 | d2 | l | l1 | D | D1 | L | z | z1 | z2 | kg | PU |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|----|
| 1060020033 | 20 | 25.0 | 20.0 | 31.0 | 30.5 | 34.0 | 34.0 | 62.0 | 16.5 | 14.5 | 16.5 | 0.040 | 10 |
| 1060025037 | 25 | 20.0 | 20.0 | 31.0 | 30.5 | 34.0 | 34.0 | 62.0 | 15.0 | 16.0 | 16.5 | 0.039 | 10 |
| 1060025038 | 25 | 20.0 | 25.0 | 31.0 | 30.5 | 34.0 | 34.0 | 62.0 | 15.0 | 16.0 | 15.0 | 0.036 | 10 |
| 1060032039 | 32 | 16.0 | 32.0 | 35.0 | 31.0 | 43.0 | 29.5 | 70.0 | 17.0 | 18.0 | 17.0 | 0.053 | 5 |
| 1060032040 | 32 | 20.0 | 20.0 | 36.8 | 37.0 | 43.0 | 43.0 | 73.5 | 18.8 | 22.5 | 22.3 | 0.076 | 5 |
| 1060032041 | 32 | 20.0 | 32.0 | 35.0 | 31.0 | 43.0 | 29.5 | 70.0 | 17.0 | 16.5 | 17.0 | 0.053 | 5 |
| 1060032042 | 32 | 25.0 | 25.0 | 35.0 | 34.5 | 43.0 | 43.0 | 70.0 | 17.0 | 18.5 | 19.0 | 0.069 | 5 |
| 1060032043 | 32 | 25.0 | 32.0 | 35.0 | 32.0 | 43.0 | 34.0 | 70.0 | 17.0 | 16.0 | 17.0 | 0.050 | 5 |
| 1060040044 | 40 | 20.0 | 40.0 | 41.5 | 36.0 | 52.0 | 34.0 | 83.0 | 21.0 | 21.5 | 21.0 | 0.091 | 5 |
| 1060040045 | 40 | 25.0 | 40.0 | 41.5 | 36.0 | 52.0 | 34.0 | 83.0 | 21.0 | 20.0 | 21.0 | 0.089 | 5 |
| 1060040046 | 40 | 32.0 | 40.0 | 42.0 | 40.5 | 52.0 | 52.0 | 84.0 | 21.5 | 22.5 | 21.5 | 0.092 | 5 |
| 1060050047 | 50 | 20.0 | 50.0 | 49.5 | 40.5 | 68.0 | 29.5 | 99.0 | 26.0 | 26.0 | 26.0 | 0.162 | 5 |
| 1060050048 | 50 | 25.0 | 50.0 | 49.5 | 44.5 | 68.0 | 34.0 | 99.0 | 26.0 | 28.5 | 26.0 | 0.158 | 5 |
| 1060050049 | 50 | 32.0 | 50.0 | 49.5 | 44.5 | 68.0 | 43.0 | 99.0 | 26.0 | 26.5 | 26.0 | 0.160 | 5 |
| 1060050050 | 50 | 40.0 | 50.0 | 49.5 | 49.5 | 68.0 | 68.0 | 99.0 | 26.0 | 29.0 | 26.0 | 0.161 | 5 |
| 1060063051 | 63 | 20.0 | 63.0 | 60.0 | 48.5 | 84.0 | 34.0 | 120.0 | 32.5 | 34.0 | 32.5 | 0.335 | 1 |
| 1060063052 | 63 | 25.0 | 63.0 | 60.0 | 48.5 | 84.0 | 34.0 | 120.0 | 32.5 | 32.5 | 32.5 | 0.331 | 1 |
| 1060063053 | 63 | 32.0 | 63.0 | 60.0 | 53.0 | 84.0 | 52.0 | 120.0 | 32.5 | 35.5 | 32.5 | 0.340 | 1 |
| 1060063054 | 63 | 40.0 | 63.0 | 60.0 | 53.0 | 84.0 | 52.0 | 120.0 | 32.5 | 33.0 | 32.5 | 0.332 | 1 |
| 1060063055 | 63 | 50.0 | 63.0 | 60.0 | 56.0 | 84.0 | 68.0 | 120.0 | 32.5 | 36.5 | 32.5 | 0.398 | 1 |
| 1060075056 | 75 | 20.0 | 75.0 | 68.5 | 54.5 | 100.0 | 34.0 | 137.0 | 38.5 | 40.0 | 38.5 | 0.501 | 1 |
| 1060075057 | 75 | 25.0 | 75.0 | 68.5 | 54.5 | 100.0 | 34.0 | 137.0 | 38.5 | 38.5 | 38.5 | 0.497 | 1 |
| 1060075058 | 75 | 32.0 | 75.0 | 68.5 | 59.0 | 100.0 | 52.0 | 137.0 | 38.5 | 41.0 | 38.5 | 0.505 | 1 |
| 1060075059 | 75 | 40.0 | 75.0 | 68.5 | 59.0 | 100.0 | 52.0 | 137.0 | 38.5 | 38.5 | 38.5 | 0.497 | 1 |
| 1060075060 | 75 | 50.0 | 75.0 | 68.5 | 66.0 | 100.0 | 84.0 | 137.0 | 38.5 | 42.5 | 38.5 | 0.550 | 1 |
| 1060075061 | 75 | 63.0 | 75.0 | 68.5 | 66.0 | 100.0 | 84.0 | 137.0 | 38.5 | 38.5 | 38.5 | 0.515 | 1 |
| 1060090062 | 90 | 32.0 | 90.0 | 79.0 | 64.0 | 120.0 | 43.0 | 158.0 | 46.0 | 46.0 | 46.0 | 0.880 | 1 |
| 1060090063 | 90 | 40.0 | 90.0 | 79.0 | 66.5 | 120.0 | 52.0 | 158.0 | 46.0 | 46.0 | 46.0 | 0.862 | 1 |
| 1060090064 | 90 | 50.0 | 90.0 | 79.0 | 69.5 | 120.0 | 68.0 | 158.0 | 46.0 | 46.0 | 46.0 | 0.905 | 1 |
| 1060090065 | 90 | 63.0 | 90.0 | 79.0 | 73.5 | 120.0 | 84.0 | 158.0 | 46.0 | 46.0 | 46.0 | 0.876 | 1 |
| 1060090066 | 90 | 75.0 | 90.0 | 79.0 | 76.0 | 120.0 | 100 | 158.0 | 46.0 | 46.0 | 46.0 | 0.991 | 1 |
| 1060110067 | 110 | 63.0 | 110.0 | 93.0 | 83.5 | 147.0 | 84.0 | 186.0 | 56.0 | 56.0 | 56.0 | 1.534 | 1 |
| 1060110068 | 110 | 75.0 | 110.0 | 93.0 | 86.0 | 147.0 | 100.0 | 186.0 | 56.0 | 56.0 | 56.0 | 1.517 | 1 |
| 1060110069 | 110 | 90.0 | 110.0 | 93.0 | 89.0 | 147.0 | 120.0 | 186.0 | 56.0 | 56.0 | 56.0 | 1.548 | 1 |
| 1060125070 | 125 | 75.0 | 125.0 | 116.5 | 106.5 | 167.0 | 100.0 | 233.0 | 76.5 | 76.5 | 76.5 | 2.427 | 1 |
| 1060125071 | 125 | 90.0 | 125.0 | 116.5 | 109.5 | 167.0 | 120.0 | 233.0 | 76.5 | 76.5 | 76.5 | 2.509 | 1 |
| 1060125072 | 125 | 110.0 | 125.0 | 116.5 | 113.5 | 167.0 | 147.0 | 233.0 | 76.5 | 76.5 | 76.5 | 2.563 | 1 |

Red. T-piece, socket- & butt welding

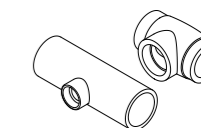
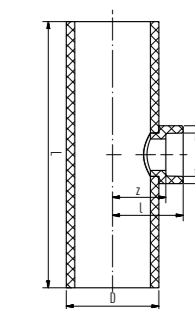
branch: socket welding

Material: fusiolen® PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | D | d1 | l | D1 | L | z | kg | PU |
|--------------|-------|-------|-------|-------|-------|------|-------|----|
| SDR 11 | | | | | | | | |
| 1064160074 | 160.0 | 75.0 | 122.0 | 100.0 | 460.0 | 92.0 | 3.140 | 1 |
| 1064160076 | 160.0 | 90.0 | 125.0 | 120.0 | 460.0 | 92.0 | 3.176 | 1 |
| 1064160078 * | 160.0 | 125.0 | 120.0 | 167.0 | 290.0 | 80.0 | 2.842 | 1 |

*Injection molded fitting

Please note! Electrofusion sockets can not be processed directly with injection molded fittings. When using electrofusion sockets either segment welded special fittings must be used or pipe pieces must be welded to the injection molded fittings.



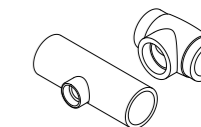
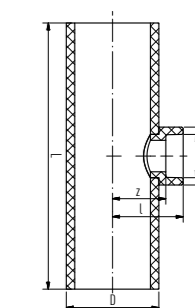
aquatherm blue red. T-piece, socket & butt welding

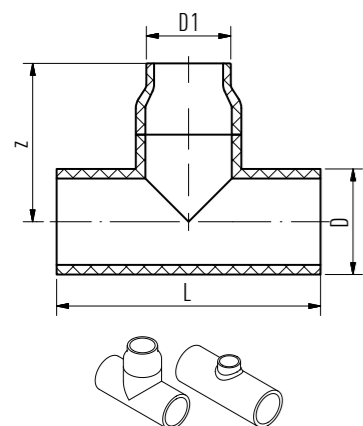
branch: socket welding, pipes with weld-in saddle

Material: fusiolen® PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: blue / green

| Article no. | D | d1 | l | D1 | L | z | kg | PU |
|--------------|-------|-------|-------|-------|---------|-------|--------|----|
| SDR 11 | | | | | | | | |
| 2064200020 | 200.0 | 75.0 | 142.0 | 100.0 | 500.0 | 112.0 | 5.460 | 1 |
| 2064200021 | 200.0 | 90.0 | 145.0 | 120.0 | 500.0 | 112.0 | 5.580 | 1 |
| 2064200022 | 200.0 | 110.0 | 149.0 | 147.0 | 500.0 | 112.0 | 5.810 | 1 |
| 2064200023 | 200.0 | 125.0 | 155.0 | 167.0 | 500.0 | 115.0 | 6.100 | 1 |
| 2064250025 | 250.0 | 75.0 | 167.0 | 100.0 | 750.0 | 137.0 | 12.440 | 1 |
| 2064250026 | 250.0 | 90.0 | 170.0 | 120.0 | 750.0 | 137.0 | 12.420 | 1 |
| 2064250027 | 250.0 | 110.0 | 174.0 | 147.0 | 750.0 | 137.0 | 12.760 | 1 |
| 2064250028 | 250.0 | 125.0 | 180.0 | 167.0 | 750.0 | 140.0 | 13.030 | 1 |
| 2064315031 | 315.0 | 125.0 | 213.0 | 167.0 | 920.0 | 173.0 | 25.000 | 1 |
| 2064355035 | 355.0 | 125.0 | 233.0 | 167.0 | 960.0 | 193.0 | 32.500 | 1 |
| 2064400040 | 400.0 | 125.0 | 255.0 | 167.0 | 1,000.0 | 215.0 | 42.100 | 1 |
| 2064450046 | 450.0 | 125.0 | 280.0 | 167.0 | 1,050.0 | 240.0 | 55.700 | 1 |
| SDR 17.6 | | | | | | | | |
| 2067160060 | 160.0 | 75.0 | 122.0 | 100.0 | 460.0 | 92.0 | 2.227 | 1 |
| 2067160061 | 160.0 | 90.0 | 125.0 | 120.0 | 460.0 | 92.0 | 2.364 | 1 |
| 2067160062 * | 160.0 | 125.0 | 120.0 | 167.0 | 290.0 | 80.0 | 2.309 | 1 |
| 2067200063 | 200.0 | 75.0 | 142.0 | 100.0 | 500.0 | 112.0 | 3.620 | 1 |
| 2067200064 | 200.0 | 90.0 | 145.0 | 120.0 | 500.0 | 112.0 | 3.742 | 1 |
| 2067200065 | 200.0 | 110.0 | 149.0 | 147.0 | 500.0 | 112.0 | 3.976 | 1 |
| 2067200066 | 200.0 | 125.0 | 155.0 | 167.0 | 500.0 | 115.0 | 4.269 | 1 |
| 2067250068 | 250.0 | 75.0 | 167.0 | 100.0 | 750.0 | 137.0 | 8.149 | 1 |
| 2067250069 | 250.0 | 90.0 | 170.0 | 120.0 | 750.0 | 137.0 | 8.274 | 1 |
| 2067250070 | 250.0 | 110.0 | 174.0 | 147.0 | 750.0 | 137.0 | 8.504 | 1 |
| 2067250071 | 250.0 | 125.0 | 180.0 | 167.0 | 750.0 | 140.0 | 9.000 | 1 |
| 2067315074 | 315.0 | 125.0 | 213.0 | 167.0 | 920.0 | 173.0 | 17.570 | 1 |
| 2067355078 | 355.0 | 125.0 | 233.0 | 167.0 | 960.0 | 193.0 | 21.500 | 1 |
| 2067400083 | 400.0 | 125.0 | 255.0 | 167.0 | 1,000.0 | 215.0 | 27.690 | 1 |
| 2067450089 | 450.0 | 125.0 | 280.0 | 167.0 | 1,050.0 | 240.0 | 36.470 | 1 |
| 2067500096 | 500.0 | 125.0 | 305.0 | 167.0 | 1,200.0 | 265.0 | 51.250 | 1 |
| 2067630104 | 630.0 | 125.0 | 370.0 | 167.0 | 1,330.0 | 330.0 | 89.170 | 1 |

pipes with weld-in saddle / *injection molded





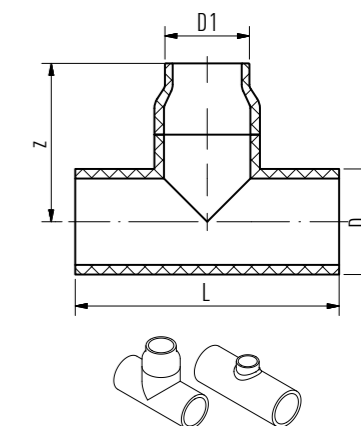
aquatherm blue SDR 11 red. T-piece, butt welding

branch: butt welding

Material: fusiolen® PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: blue / green

| Article no. | D | D1 | L | z | kg | PU |
|--------------|-------|-----|---------|-------|--------|----|
| SDR 11 | | | | | | |
| 2064200024 | 200.0 | 160 | 500.0 | 300.0 | 7.650 | 1 |
| 2064250029 | 250.0 | 160 | 750.0 | 375.0 | 19.030 | 1 |
| 2064250030 | 250.0 | 200 | 750.0 | 375.0 | 21.100 | 1 |
| 2064315032 * | 315.0 | 160 | 920.0 | 237.5 | 25.000 | 1 |
| 2064315033 | 315.0 | 200 | 920.0 | 460.0 | 33.200 | 1 |
| 2064315034 | 315.0 | 250 | 920.0 | 460.0 | 31.500 | 1 |
| 2064355036 * | 355.0 | 160 | 960.0 | 257.5 | 32.500 | 1 |
| 2064355037 * | 355.0 | 200 | 960.0 | 267.5 | 30.200 | 1 |
| 2064355038 | 355.0 | 250 | 960.0 | 480.0 | 40.000 | 1 |
| 2064355039 | 355.0 | 315 | 960.0 | 480.0 | 40.000 | 1 |
| 2064400041 * | 400.0 | 160 | 1,000.0 | 354.0 | 44.100 | 1 |
| 2064400042 * | 400.0 | 200 | 1,000.0 | 318.0 | 44.100 | 1 |
| 2064400043 * | 400.0 | 250 | 1,000.0 | 280.0 | 46.000 | 1 |
| 2064400044 | 400.0 | 315 | 1,000.0 | 500.0 | 57.790 | 1 |
| 2064400045 | 400.0 | 355 | 1,000.0 | 500.0 | 52.715 | 1 |
| 2064450047 * | 450.0 | 160 | 1,050.0 | 379.0 | 57.900 | 1 |
| 2064450048 * | 450.0 | 200 | 1,050.0 | 343.0 | 57.900 | 1 |
| 2064450049 * | 450.0 | 250 | 1,050.0 | 305.0 | 57.900 | 1 |
| 2064450050 * | 450.0 | 315 | 1,050.0 | 315.0 | 58.400 | 1 |
| 2064450051 | 450.0 | 355 | 1,050.0 | 525.0 | 62.491 | 1 |
| 2064450052 | 450.0 | 400 | 1,050.0 | 525.0 | 62.683 | 1 |

Pipe with reducer / *Pipe with weld-in saddle

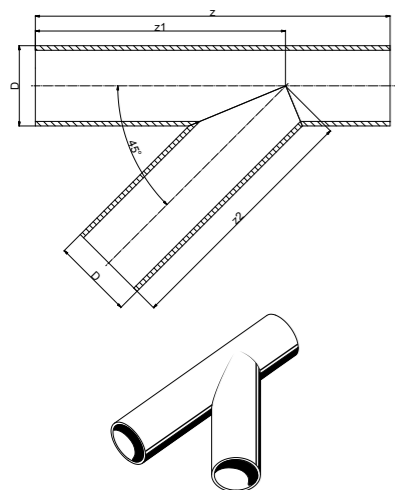


aquatherm blue SDR 17,6 red. T-piece, butt welding

Material: fusiolen® PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: blue / green

| Article no. | D | D1 | L | z | kg | PU |
|--------------|-------|-----|---------|-------|--------|----|
| SDR 17.6 | | | | | | |
| 2067200067 | 200.0 | 160 | 500.0 | 300.0 | 5.000 | 1 |
| 2067250072 | 250.0 | 160 | 750.0 | 375.0 | 11.600 | 1 |
| 2067250073 | 250.0 | 200 | 750.0 | 375.0 | 11.500 | 1 |
| 2067315075 * | 315.0 | 160 | 920.0 | 237.5 | 16.500 | 1 |
| 2067315076 | 315.0 | 200 | 920.0 | 460.0 | 23.600 | 1 |
| 2067315077 | 315.0 | 250 | 920.0 | 460.0 | 22.600 | 1 |
| 2067355079 * | 355.0 | 160 | 960.0 | 257.5 | 21.500 | 1 |
| 2067355080 * | 355.0 | 200 | 960.0 | 267.5 | 21.900 | 1 |
| 2067355081 | 355.0 | 250 | 960.0 | 480.0 | 28.300 | 1 |
| 2067355082 | 355.0 | 315 | 960.0 | 480.0 | 30.500 | 1 |
| 2067400084 * | 400.0 | 160 | 1,000.0 | 354.0 | 29.700 | 1 |
| 2067400085 * | 400.0 | 200 | 1,000.0 | 318.0 | 29.700 | 1 |
| 2067400086 * | 400.0 | 250 | 1,000.0 | 280.0 | 29.000 | 1 |
| 2067400087 | 400.0 | 315 | 1,000.0 | 500.0 | 30.667 | 1 |
| 2067400088 | 400.0 | 355 | 1,000.0 | 500.0 | 30.748 | 1 |
| 2067450090 * | 450.0 | 160 | 1,050.0 | 379.0 | 37.000 | 1 |
| 2067450091 * | 450.0 | 200 | 1,050.0 | 343.0 | 37.000 | 1 |
| 2067450092 * | 450.0 | 250 | 1,050.0 | 305.0 | 37.000 | 1 |
| 2067450093 * | 450.0 | 315 | 1,050.0 | 315.0 | 37.000 | 1 |
| 2067450094 | 450.0 | 355 | 1,050.0 | 525.0 | 50.500 | 1 |
| 2067450095 | 450.0 | 400 | 1,050.0 | 525.0 | 50.100 | 1 |
| 2067500097 * | 500.0 | 160 | 1,200.0 | 404.0 | 53.400 | 1 |
| 2067500098 * | 500.0 | 200 | 1,200.0 | 368.0 | 53.500 | 1 |
| 2067500099 * | 500.0 | 250 | 1,200.0 | 330.0 | 53.500 | 1 |
| 2067500100 | 500.0 | 315 | 1,200.0 | 340.0 | 54.000 | 1 |
| 2067500101 | 500.0 | 355 | 1,200.0 | 600.0 | 57.039 | 1 |
| 2067500102 | 500.0 | 400 | 1,200.0 | 600.0 | 57.245 | 1 |
| 2067500103 | 500.0 | 450 | 1,200.0 | 600.0 | 57.365 | 1 |
| 2067630105 * | 630.0 | 160 | 1,330.0 | 474.0 | 91.530 | 1 |
| 2067630106 * | 630.0 | 200 | 1,330.0 | 438.0 | 91.500 | 1 |
| 2067630107 * | 630.0 | 250 | 1,330.0 | 400.0 | 91.500 | 1 |
| 2067630108 * | 630.0 | 315 | 1,330.0 | 405.0 | 92.350 | 1 |
| 2067630109 | 630.0 | 400 | 1,330.0 | 665.0 | 97.299 | 1 |
| 2067630110 | 630.0 | 450 | 1,330.0 | 665.0 | 97.703 | 1 |
| 2067630111 | 630.0 | 500 | 1,330.0 | 665.0 | 98.032 | 1 |

Pipe with reducer / *Pipe with weld-in saddle



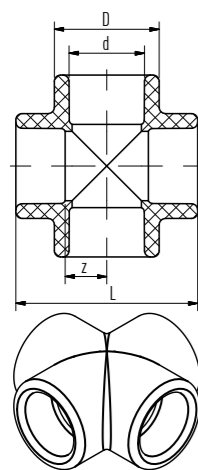
aquatherm blue Y-pieces

socket welding

Material: fusiolen® PP-RCT
Standards: DIN 16962-2
Colour: blue

| Article no. | D | z | z1 | z2 | kg | PU |
|--------------|-------|---------|-------|-------|--------|----|
| SDR 11 | | | | | | |
| 2084063001 | 63.0 | 560.0 | 380.0 | 380.0 | 0.843 | 1 |
| 2084075002 | 75.0 | 570.0 | 405.0 | 405.0 | 1.210 | 1 |
| 2084090003 | 90.0 | 577.0 | 412.0 | 412.0 | 1.750 | 1 |
| 2084110004 | 110.0 | 610.0 | 435.0 | 435.0 | 2.730 | 1 |
| 2084125005 | 125.0 | 665.0 | 475.0 | 475.0 | 3.840 | 1 |
| 2084160007 * | 160.0 | 782.0 | 551.0 | 551.0 | 7.300 | 1 |
| 2084200009 * | 200.0 | 925.0 | 650.0 | 650.0 | 13.360 | 1 |
| 2084250011 * | 250.0 | 1,105.0 | 780.0 | 780.0 | 24.780 | 1 |
| SDR 17.6 | | | | | | |
| 2087125006 | 125.0 | 665.0 | 475.0 | 475.0 | 2.470 | 1 |
| 2087160008 * | 160.0 | 782.0 | 551.0 | 551.0 | 4.700 | 1 |
| 2087200010 * | 200.0 | 925.0 | 650.0 | 650.0 | 8.640 | 1 |
| 2087250012 * | 250.0 | 1,105.0 | 780.0 | 780.0 | 16.010 | 1 |

*butt welding
Special fittings on demand, Mechanically stabilised through a fibre mix integrated in the middle layer of the fusiolen® PP-RCT
Attention – please note!
These branches are for special applications in unpressurized areas, e.g. in vacuum dewatering within shipbuilding.

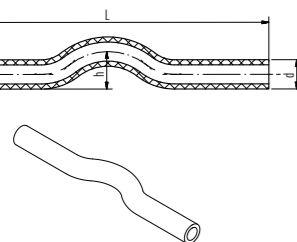


Cross

socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | L | z | kg | PU |
|-------------|----|------|------|------|-------|----|
| 1040020090 | 20 | 29.5 | 51.5 | 11.3 | 0.025 | 10 |
| 1040025091 | 25 | 34.0 | 59.0 | 13.5 | 0.035 | 10 |
| 1040032092 | 32 | 43.0 | 70.0 | 17.0 | 0.062 | 5 |
| 1040040093 | 40 | 52.0 | 83.0 | 21.0 | 0.099 | 5 |



Cross over fitting

socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

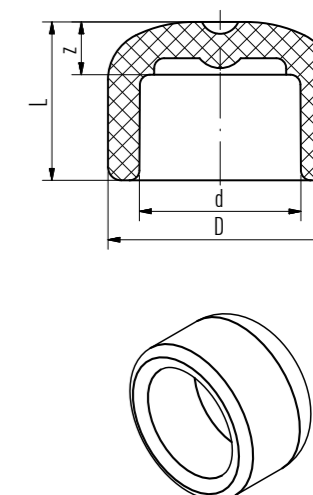
| Article no. | d | L | h | kg | PU |
|-------------|----|-------|------|-------|----|
| 1090020002 | 20 | 352.0 | 32.0 | 0.060 | 10 |
| 1090025003 | 25 | 352.0 | 37.5 | 0.091 | 10 |
| 1090032004 | 32 | 352.0 | 48.0 | 0.154 | 5 |

End cap

socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

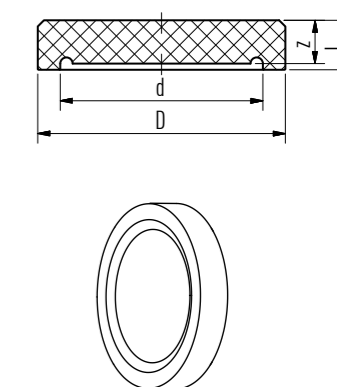
| Article no. | d | D | L | z | kg | PU |
|-------------|-----|-------|------|------|-------|----|
| 1020020002 | 20 | 29.5 | 24.0 | 9.5 | 0.009 | 10 |
| 1020025003 | 25 | 34.0 | 24.0 | 8.0 | 0.011 | 10 |
| 1020032004 | 32 | 43.0 | 29.0 | 11.0 | 0.023 | 5 |
| 1020040005 | 40 | 52.0 | 38.0 | 17.5 | 0.042 | 5 |
| 1020050006 | 50 | 68.0 | 44.5 | 21.0 | 0.082 | 5 |
| 1020063007 | 63 | 84.0 | 52.0 | 24.5 | 0.146 | 1 |
| 1020075008 | 75 | 100.0 | 58.5 | 28.5 | 0.243 | 1 |
| 1020090009 | 90 | 120.0 | 67.5 | 34.5 | 0.365 | 1 |
| 1020110010 | 110 | 147.0 | 65.0 | 28.0 | 0.635 | 1 |
| 1020125011 | 125 | 167.0 | 82.0 | 42.0 | 0.872 | 1 |

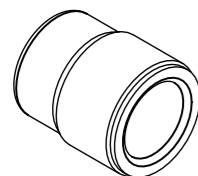
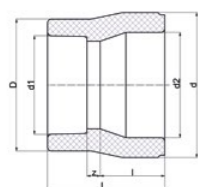


End cap butt-welding

Material: fusiolen® PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | D | d | L | z | kg | PU |
|-------------|-------|-------|------|------|--------|----|
| SDR 11 | | | | | | |
| 1024160013 | 160.0 | 130.8 | 70.0 | 14.6 | 0.631 | 1 |
| 1024200015 | 200.0 | 163.6 | 80.0 | 18.2 | 1.070 | 1 |
| 1024250017 | 250.0 | 204.6 | 90.0 | 22.7 | 1.989 | 1 |
| 1024315018 | 315.0 | 257.8 | 70.0 | 52.5 | 4.200 | 1 |
| 1024355019 | 355.0 | 290.6 | 80.0 | 67.5 | 6.410 | 1 |
| 1024400020 | 400.0 | 327.4 | 70.0 | 60.0 | 7.190 | 1 |
| 1024450021 | 450.0 | 368.2 | 80.0 | 70.0 | 10.500 | 1 |
| SDR 17.6 | | | | | | |
| 2027160001 | 160.0 | 141.8 | 70.0 | 9.1 | 0.679 | 1 |
| 2027200002 | 200.0 | 177.2 | 80.0 | 11.4 | 0.925 | 1 |
| 2027250003 | 250.0 | 221.6 | 90.0 | 14.2 | 1.305 | 1 |
| 2027315004 | 315.0 | 279.2 | 70.0 | 60.0 | 4.500 | 1 |
| 2027355005 | 355.0 | 314.8 | 70.0 | 60.0 | 5.540 | 1 |
| 2027400006 | 400.0 | 354.6 | 75.0 | 65.0 | 6.000 | 1 |
| 2027450007 | 450.0 | 399.0 | 70.0 | 56.0 | 8.520 | 1 |
| 2027500008 | 500.0 | 443.2 | 75.0 | 62.0 | 12.500 | 1 |
| 2027630009 | 630.0 | 558.6 | 90.0 | 78.0 | 23.500 | 1 |





Reducing socket, socket welding

double-sided socket welding — SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

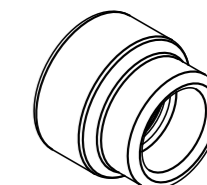
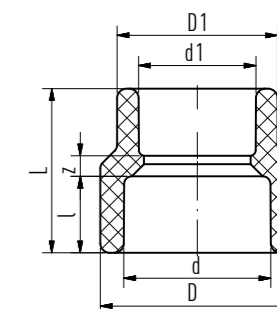
| Article no. | d | d1 | d2 | l | D | L | z | kg | PU |
|-------------|-----|-------|------|------|-------|-------|------|-------|----|
| 1040025022 | 25 | 20.0 | 16.5 | 16.0 | 29.5 | 38.5 | 8.0 | 0.012 | 10 |
| 1040032023 | 32 | 20.0 | 21.5 | 18.0 | 29.5 | 37.5 | 5.0 | 0.015 | 5 |
| 1040032024 | 32 | 25.0 | 21.0 | 18.0 | 34.0 | 38.0 | 4.0 | 0.016 | 5 |
| 1040040025 | 40 | 20.0 | 26.5 | 20.5 | 29.5 | 45.0 | 10.0 | 0.025 | 5 |
| 1040040026 | 40 | 25.0 | 26.5 | 20.5 | 34.0 | 50.0 | 13.5 | 0.028 | 5 |
| 1040040027 | 40 | 32.0 | 26.5 | 20.5 | 43.0 | 50.0 | 11.5 | 0.032 | 5 |
| 1040050028 | 50 | 20.0 | 33.5 | 23.5 | 29.5 | 55.0 | 17.0 | 0.045 | 5 |
| 1040050029 | 50 | 25.0 | 33.5 | 23.5 | 34.0 | 55.0 | 15.5 | 0.044 | 5 |
| 1040050030 | 50 | 32.0 | 33.5 | 23.5 | 43.0 | 54.0 | 12.5 | 0.048 | 5 |
| 1040050031 | 50 | 40.0 | 33.5 | 23.5 | 52.0 | 53.0 | 9.0 | 0.053 | 5 |
| 1040063032 | 63 | 20.0 | 42.0 | 27.5 | 29.5 | 65.0 | 23.0 | 0.073 | 1 |
| 1040063033 | 63 | 25.0 | 42.0 | 27.5 | 34.0 | 65.0 | 21.5 | 0.071 | 1 |
| 1040063034 | 63 | 32.0 | 42.0 | 27.5 | 43.0 | 62.0 | 16.5 | 0.080 | 1 |
| 1040063035 | 63 | 40.0 | 42.0 | 27.5 | 52.0 | 64.5 | 16.5 | 0.089 | 1 |
| 1040063036 | 63 | 50.0 | 42.0 | 27.5 | 68.0 | 63.5 | 12.5 | 0.107 | 1 |
| 1040075037 | 75 | 40.0 | 50.0 | 30.0 | 52.0 | 69.5 | 19.0 | 0.131 | 1 |
| 1040075038 | 75 | 50.0 | 50.0 | 30.0 | 68.0 | 63.0 | 9.5 | 0.141 | 1 |
| 1040075039 | 75 | 63.0 | 50.0 | 30.0 | 84.0 | 71.0 | 13.5 | 0.170 | 1 |
| 1040075040 | 75 | 20.0 | 50.0 | 30.0 | 34.5 | 65.5 | 21.0 | 0.113 | 1 |
| 1040075041 | 75 | 25.0 | 50.0 | 30.0 | 34.5 | 65.5 | 19.5 | 0.111 | 1 |
| 1040075042 | 75 | 32.0 | 50.0 | 30.0 | 52.0 | 69.5 | 21.5 | 0.140 | 1 |
| 1040090043 | 90 | 50.0 | 60.0 | 33.0 | 68.0 | 75.0 | 18.5 | 0.193 | 1 |
| 1040090044 | 90 | 63.0 | 60.0 | 33.0 | 84.0 | 78.0 | 17.5 | 0.224 | 1 |
| 1040090045 | 90 | 75.0 | 60.0 | 33.0 | 100.0 | 81.5 | 18.5 | 0.273 | 1 |
| 1040110046 | 110 | 63.0 | 73.5 | 37.0 | 84.0 | 86.0 | 21.5 | 0.356 | 1 |
| 1040110047 | 110 | 75.0 | 73.5 | 37.0 | 100.0 | 89.0 | 22.0 | 0.383 | 1 |
| 1040110048 | 110 | 90.0 | 73.5 | 37.0 | 120.0 | 99.0 | 29.0 | 0.500 | 1 |
| 1040125049 | 125 | 75.0 | 84.0 | 40.0 | 100.0 | 101.0 | 31.0 | 0.518 | 1 |
| 1040125050 | 125 | 90.0 | 84.0 | 40.0 | 120.0 | 99.0 | 26.0 | 0.588 | 1 |
| 1040125051 | 125 | 110.0 | 84.0 | 40.0 | 147.0 | 112.0 | 35.0 | 0.832 | 1 |

Reducing socket female/female

double-sided socket welding — SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | d1 | l | D | D1 | L | z | kg | PU |
|-------------|-----|-------|------|-------|-------|------|------|-------|----|
| 1040040073 | 40 | 32.0 | 20.5 | 52.0 | 43.0 | 44.0 | 5.5 | 0.035 | 1 |
| 1040050074 | 50 | 32.0 | 23.5 | 68.0 | 43.0 | 53.0 | 11.5 | 0.066 | 1 |
| 1040050075 | 50 | 40.0 | 23.5 | 68.0 | 52.0 | 50.5 | 6.3 | 0.069 | 1 |
| 1040063076 | 63 | 40.0 | 27.5 | 84.0 | 52.0 | 61.0 | 13.0 | 0.115 | 1 |
| 1040063077 | 63 | 50.0 | 27.5 | 84.0 | 68.0 | 56.0 | 5.0 | 0.120 | 1 |
| 1040075078 | 75 | 50.0 | 30.0 | 100.0 | 68.0 | 68.0 | 14.5 | 0.192 | 1 |
| 1040075079 | 75 | 63.0 | 30.0 | 100.0 | 84.0 | 62.5 | 5.0 | 0.185 | 1 |
| 1040090080 | 90 | 63.0 | 33.0 | 120.0 | 84.0 | 74.0 | 13.5 | 0.276 | 1 |
| 1040090081 | 90 | 75.0 | 33.0 | 120.0 | 100.0 | 69.0 | 6.0 | 0.297 | 1 |
| 1040110082 | 110 | 75.0 | 37.0 | 147.0 | 100.0 | 85.0 | 18.0 | 0.516 | 1 |
| 1040110083 | 110 | 90.0 | 37.0 | 147.0 | 120.0 | 77.3 | 7.3 | 0.520 | 1 |
| 1040125084 | 125 | 90.0 | 40.0 | 167.0 | 120.0 | 91.0 | 18.0 | 0.749 | 1 |
| 1040125085 | 125 | 110.0 | 40.0 | 167.0 | 147.0 | 87.0 | 10.0 | 0.726 | 1 |

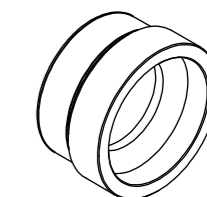
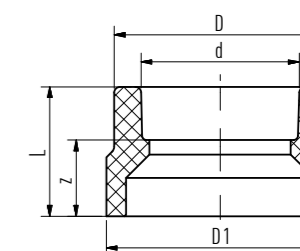


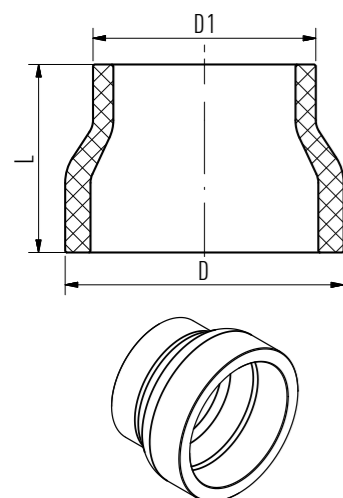
Reducing socket, socket & butt welding

one side socket welding, other side butt welding

Material: fusiolen® PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | D1 | d | D | L | z | kg | PU |
|-------------|-----|-----|-------|-------|------|-------|----|
| SDR 11 | | | | | | | |
| 1044160053 | 160 | 110 | 147.0 | 90.0 | 53.0 | 0.673 | 1 |
| 1044160055 | 160 | 125 | 167.0 | 90.0 | 50.0 | 0.709 | 1 |
| 1044200057 | 200 | 125 | 167.0 | 135.0 | 95.0 | 1.341 | 1 |
| SDR 17.6 | | | | | | | |
| 2047160001 | 160 | 110 | 147.0 | 90.0 | 53.0 | 0.589 | 1 |
| 2047160002 | 160 | 125 | 167.0 | 90.0 | 50.0 | 0.614 | 1 |
| 2047200003 | 200 | 125 | 167.0 | 135.0 | 95.0 | 1.055 | 1 |





Reducing socket, butt welding

double-sided butt welding

Material: fusiolen® PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | D | D1 | L | kg | PU |
|-------------|-------|-----|-------|--------|----|
| SDR 11 | | | | | |
| 1044200059 | 200.0 | 160 | 135.0 | 1.140 | 1 |
| 1044250061 | 250.0 | 160 | 172.5 | 2.152 | 1 |
| 1044250063 | 250.0 | 200 | 172.5 | 2.681 | 1 |
| 1044315065 | 315.0 | 250 | 225.0 | 4.690 | 1 |
| 1044355066 | 355.0 | 250 | 170.0 | 4.548 | 1 |
| 1044355067 | 355.0 | 315 | 160.0 | 4.401 | 1 |
| 1044400069 | 400.0 | 315 | 122.0 | 4.550 | 1 |
| 1044400070 | 400.0 | 355 | 110.0 | 4.620 | 1 |
| 1044450071 | 450.0 | 315 | 142.0 | 6.500 | 1 |
| 1044450072 | 450.0 | 355 | 132.0 | 6.500 | 1 |
| 1044450073 | 450.0 | 400 | 122.0 | 6.000 | 1 |
| SDR 17.6 | | | | | |
| 2047200004 | 200.0 | 160 | 135.0 | 1.012 | 1 |
| 2047250005 | 250.0 | 160 | 172.5 | 1.500 | 1 |
| 2047250006 | 250.0 | 200 | 172.5 | 1.602 | 1 |
| 2047315008 | 315.0 | 200 | 225.0 | 2.886 | 1 |
| 2047315009 | 315.0 | 250 | 225.0 | 3.420 | 1 |
| 2047355010 | 355.0 | 250 | 170.0 | 4.480 | 1 |
| 2047355011 | 355.0 | 315 | 160.0 | 3.108 | 1 |
| 2047400012 | 400.0 | 250 | 152.0 | 3.240 | 1 |
| 2047400013 | 400.0 | 315 | 122.0 | 3.000 | 1 |
| 2047400014 | 400.0 | 355 | 112.0 | 2.500 | 1 |
| 2047450015 | 450.0 | 315 | 142.0 | 4.000 | 1 |
| 2047450016 | 450.0 | 355 | 132.0 | 4.000 | 1 |
| 2047450017 | 450.0 | 400 | 122.0 | 4.000 | 1 |
| 2047500018 | 500.0 | 315 | 172.0 | 6.500 | 1 |
| 2047500019 | 500.0 | 355 | 152.0 | 7.000 | 1 |
| 2047500020 | 500.0 | 400 | 142.0 | 6.500 | 1 |
| 2047500021 | 500.0 | 450 | 122.0 | 5.500 | 1 |
| 2047630022 | 630.0 | 400 | 192.0 | 14.500 | 1 |
| 2047630023 | 630.0 | 450 | 172.0 | 12.500 | 1 |
| 2047630024 | 630.0 | 500 | 152.0 | 11.000 | 1 |

Transition piece with female thread

with spanner flat — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass or stainless steel
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | D | L | z | z1 | R | SW | kg | PU |
|--------------|----|------|-------|------|------|------|--------|----|-------|----|
| 1070020008 | 20 | 34.5 | 38.5 | 50.5 | 36.0 | 10.0 | 1/2" | 24 | 0.078 | 10 |
| 1070020009 | 20 | 29.0 | 43.5 | 50.0 | 35.5 | 10.0 | 3/4" | 31 | 0.112 | 10 |
| 1070025010 | 25 | 36.0 | 38.5 | 52.0 | 36.0 | 10.0 | 1/2" | 24 | 0.081 | 10 |
| 1070025011 | 25 | 29.0 | 43.5 | 50.0 | 34.0 | 10.0 | 3/4" | 31 | 0.109 | 10 |
| 1070032012 | 32 | 32.0 | 43.5 | 53.0 | 35.0 | 10.0 | 3/4" | 31 | 0.114 | 5 |
| 1070032013 | 32 | 37.5 | 60.0 | 59.5 | 41.5 | 14.0 | 1" | 39 | 0.239 | 5 |
| 1070040014 | 40 | 40.0 | 60.0 | 62.0 | 41.5 | 14.0 | 1" | 39 | 0.227 | 5 |
| 1070040015 | 40 | 40.0 | 74.0 | 63.0 | 42.5 | 15.0 | 1 1/4" | 50 | 0.385 | 5 |
| 1070050016 | 50 | 43.0 | 74.0 | 66.0 | 42.5 | 15.0 | 1 1/4" | 50 | 0.404 | 5 |
| 1070050017 | 50 | 45.0 | 85.5 | 67.0 | 43.5 | 15.0 | 1 1/2" | 55 | 0.418 | 5 |
| 1070063018 | 63 | 51.5 | 84.0 | 73.5 | 46.0 | 15.0 | 1 1/2" | 55 | 0.442 | 1 |
| 1070063019 | 63 | 51.0 | 101.0 | 77.0 | 49.5 | 19.0 | 2" | 67 | 0.600 | 1 |
| 1070075020 | 75 | 51.0 | 100.0 | 77.0 | 47.0 | 19.0 | 2" | 67 | 0.608 | 1 |
| 1070032066 * | 32 | 37.5 | 60.0 | 59.5 | 41.5 | 14.0 | 1" | 39 | 0.232 | 5 |
| 1070040067 * | 40 | 40.0 | 60.0 | 62.0 | 41.5 | 14.0 | 1" | 39 | 0.219 | 5 |
| 1070040068 * | 40 | 40.0 | 74.0 | 63.0 | 42.5 | 15.0 | 1 1/4" | 50 | 0.331 | 5 |
| 1070050069 * | 50 | 43.0 | 74.0 | 66.0 | 42.5 | 15.0 | 1 1/4" | 50 | 0.351 | 5 |
| 1070050070 * | 50 | 45.0 | 84.0 | 67.0 | 43.5 | 15.0 | 1 1/2" | 55 | 0.445 | 5 |
| 1070063071 * | 63 | 51.5 | 84.0 | 73.5 | 46.0 | 15.0 | 1 1/2" | 55 | 0.425 | 1 |
| 1070063072 * | 63 | 51.0 | 101.0 | 77.0 | 49.5 | 19.0 | 2" | 67 | 0.196 | 1 |
| 1070075073 * | 75 | 51.0 | 100.0 | 77.0 | 47.0 | 19.0 | 2" | 67 | 0.676 | 1 |

*stainless steel

Transition piece with male thread

round, self sealing — SDR 6 / 7.4 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | d1 | d2 | D | L | z | z2 | R | kg | PU |
|-------------|----|------|------|------|------|------|------|------|-------|----|
| 1070020051 | 20 | 21.0 | 14.0 | 38.5 | 52.5 | 38.0 | 12.0 | 1/2" | 0.090 | 10 |
| 1070025052 | 25 | 21.0 | 14.0 | 38.5 | 54.0 | 38.0 | 12.0 | 1/2" | 0.078 | 10 |
| 1070025053 | 25 | 26.5 | 18.0 | 38.5 | 53.5 | 37.5 | 13.0 | 3/4" | 0.085 | 10 |

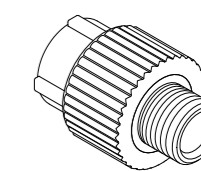
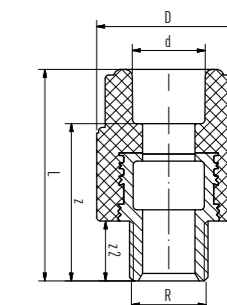
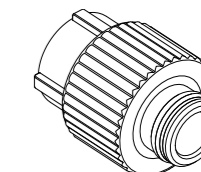
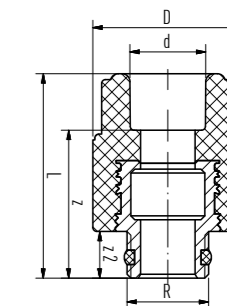
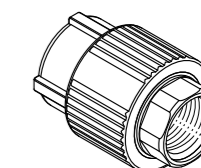
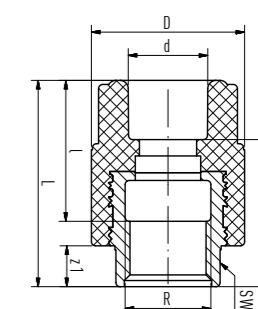
Transition piece with male thread

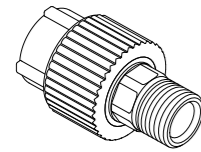
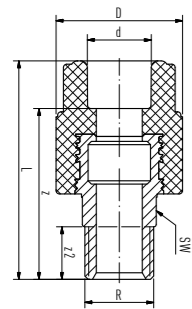
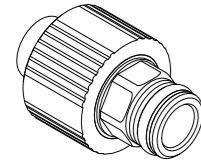
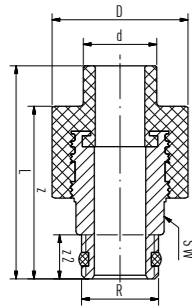
round — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass or stainless steel
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | L | z | z2 | R | kg | PU |
|--------------|----|------|------|------|------|------|-------|----|
| 1070020022 | 20 | 38.5 | 56.5 | 42.0 | 16.0 | 1/2" | 0.084 | 10 |
| 1070020023 | 20 | 38.5 | 57.5 | 43.0 | 17.0 | 3/4" | 0.109 | 10 |
| 1070025024 | 25 | 38.5 | 58.0 | 42.0 | 16.0 | 1/2" | 0.085 | 10 |
| 1070025025 | 25 | 38.5 | 57.5 | 41.5 | 17.0 | 3/4" | 0.090 | 10 |
| 1070032026 | 32 | 38.5 | 59.5 | 41.5 | 17.0 | 3/4" | 0.095 | 5 |
| 1070020074 * | 20 | 38.5 | 56.5 | 42.0 | 16.0 | 1/2" | 0.096 | 10 |
| 1070020075 * | 20 | 38.5 | 57.5 | 43.0 | 17.0 | 3/4" | 0.108 | 10 |
| 1070025076 * | 25 | 38.5 | 58.0 | 42.0 | 16.0 | 1/2" | 0.098 | 10 |
| 1070025077 * | 25 | 38.5 | 57.5 | 41.5 | 17.0 | 3/4" | 0.108 | 10 |
| 1070032078 * | 32 | 38.5 | 59.5 | 41.5 | 17.0 | 3/4" | 0.115 | 5 |

*stainless steel





Transition piece with male thread

self sealing, with hex shaped threaded transition — SDR 6 / 7.4 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | L | z | z2 | R | SW | kg | PU |
|-------------|----|------|------|------|------|------|----|-------|----|
| 1070020056 | 20 | 38.5 | 63.5 | 49.0 | 13.0 | 1/2" | 22 | 0.111 | 10 |

Transition piece with male thread

with spanner flat — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass or stainless steel
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | L | z | z2 | R | SW | kg | PU |
|--------------|-----|-------|-------|-------|------|--------|-----|-------|----|
| 1070020027 | 20 | 38.5 | 66.5 | 52.0 | 16.0 | 1/2" | 22 | 0.104 | 10 |
| 1070020028 | 20 | 38.5 | 67.5 | 53.0 | 17.0 | 3/4" | 24 | 0.129 | 10 |
| 1070025029 | 25 | 38.5 | 68.0 | 52.0 | 16.0 | 1/2" | 21 | 0.107 | 10 |
| 1070025030 | 25 | 38.5 | 67.5 | 51.5 | 17.0 | 3/4" | 24 | 0.103 | 10 |
| 1070032031 | 32 | 53.0 | 78.5 | 60.5 | 20.0 | 1" | 32 | 0.216 | 5 |
| 1070032032 | 32 | 68.0 | 81.0 | 63.0 | 21.0 | 1 1/4" | 42 | 0.318 | 5 |
| 1070040033 | 40 | 52.0 | 81.0 | 60.5 | 20.0 | 1" | 32 | 0.222 | 5 |
| 1070040034 | 40 | 68.0 | 84.5 | 64.0 | 21.0 | 1 1/4" | 42 | 0.324 | 5 |
| 1070050035 | 50 | 68.0 | 85.5 | 62.0 | 21.0 | 1 1/4" | 42 | 0.351 | 5 |
| 1070050036 | 50 | 74.0 | 88.5 | 65.0 | 22.0 | 1 1/2" | 46 | 0.425 | 5 |
| 1070063037 | 63 | 72.5 | 94.5 | 67.0 | 22.0 | 1 1/2" | 46 | 0.467 | 1 |
| 1070063038 | 63 | 84.0 | 102.5 | 75.0 | 23.5 | 2" | 50 | 0.685 | 1 |
| 1070075039 | 75 | 84.0 | 102.0 | 72.0 | 23.5 | 2" | 50 | 0.733 | 1 |
| 1070075040 | 75 | 100.0 | 105.0 | 75.0 | 26.7 | 2 1/2" | 65 | 0.970 | 1 |
| 1070090041 | 90 | 120.0 | 121.0 | 88.0 | 30.0 | 3" | 85 | 1.326 | 1 |
| 1070110042 | 110 | 147.0 | 148.0 | 111.0 | 39.0 | 4" | 105 | 2.730 | 1 |
| 1070032079 * | 32 | 53.0 | 78.5 | 60.5 | 20.0 | 1" | 32 | 0.204 | 5 |
| 1070032080 * | 32 | 68.0 | 81.0 | 63.0 | 21.0 | 1 1/4" | 41 | 0.360 | 5 |
| 1070040081 * | 40 | 52.0 | 81.0 | 60.5 | 20.0 | 1" | 32 | 0.251 | 5 |
| 1070040082 * | 40 | 68.0 | 84.5 | 64.0 | 21.0 | 1 1/4" | 41 | 0.362 | 5 |
| 1070050083 * | 50 | 68.0 | 85.5 | 62.0 | 21.0 | 1 1/4" | 41 | 0.389 | 5 |
| 1070050084 * | 50 | 74.0 | 88.5 | 65.0 | 22.0 | 1 1/2" | 46 | 0.480 | 5 |
| 1070063085 * | 63 | 72.5 | 94.5 | 67.0 | 22.0 | 1 1/2" | 46 | 0.523 | 1 |
| 1070063086 * | 63 | 84.0 | 102.5 | 75.0 | 23.5 | 2" | 50 | 0.708 | 1 |
| 1070075087 * | 75 | 84.0 | 102.0 | 72.0 | 23.5 | 2" | 50 | 0.699 | 1 |

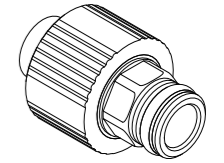
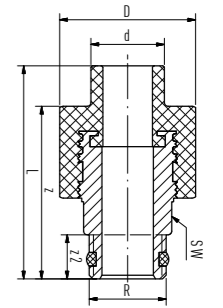
*stainless steel

Transition piece with male thread

self-sealing, with hex shaped threaded transition female/male SDR 6 / 7.4 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | L | z | z2 | R | SW | kg | PU |
|-------------|----|------|------|------|------|------|----|-------|----|
| 1070020054 | 20 | 38.5 | 59.0 | 48.0 | 13.0 | 1/2" | 22 | 0.107 | 10 |

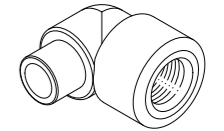
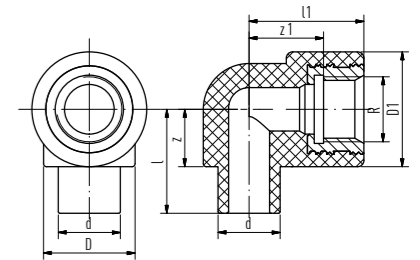


Transition elbow with female thread

SDR 6 / 7.4 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | D | D1 | z | z1 | R | kg | PU |
|-------------|----|------|------|------|------|------|------|------|-------|----|
| 1070020097 | 20 | 33.5 | 37.0 | 29.5 | 37.0 | 18.5 | 24.0 | 1/2" | 0.076 | 10 |



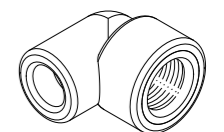
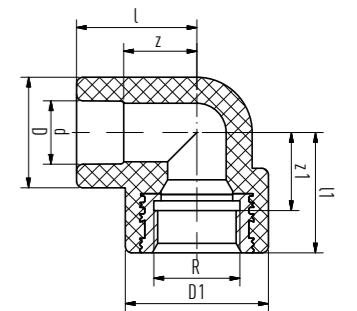
Transition elbow with female thread

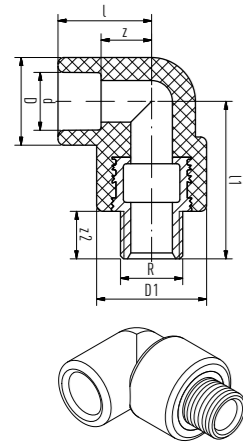
brass or stainless steel — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass or stainless steel
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | D | D1 | z | z1 | R | kg | PU |
|--------------|----|------|------|------|------|------|------|------|-------|----|
| 1070020091 | 20 | 37.0 | 37.0 | 34.0 | 44.0 | 22.5 | 24.0 | 3/4" | 0.102 | 10 |
| 1070020092 | 20 | 31.0 | 31.5 | 29.5 | 37.0 | 16.5 | 18.5 | 1/2" | 0.076 | 10 |
| 1070025093 | 25 | 37.0 | 37.0 | 34.0 | 44.0 | 21.0 | 24.0 | 3/4" | 0.100 | 10 |
| 1070025094 | 25 | 33.5 | 31.5 | 34.0 | 37.0 | 17.5 | 18.5 | 1/2" | 0.075 | 10 |
| 1070032095 | 32 | 27.5 | 51.0 | 43.0 | 44.0 | 9.5 | 38.0 | 3/4" | 0.104 | 5 |
| 1070032096 | 32 | 34.0 | 66.5 | 43.0 | 60.5 | 16.0 | 44.5 | 1" | 0.249 | 5 |
| 1070020110 * | 20 | 37.0 | 37.0 | 29.5 | 37.0 | 22.5 | 24.0 | 3/4" | 0.095 | 10 |
| 1070020111 * | 20 | 31.0 | 31.5 | 29.5 | 37.0 | 16.5 | 18.5 | 1/2" | 0.081 | 10 |
| 1070025112 * | 25 | 37.0 | 37.0 | 34.0 | 44.0 | 21.0 | 24.0 | 3/4" | 0.101 | 10 |
| 1070025113 * | 25 | 33.5 | 31.5 | 34.0 | 37.0 | 17.5 | 18.5 | 1/2" | 0.082 | 10 |
| 1070032114 * | 32 | 35.0 | 37.0 | 43.0 | 37.0 | 17.0 | 24.0 | 1/2" | 0.112 | 5 |
| 1070032115 * | 32 | 27.5 | 51.0 | 43.0 | 44.0 | 9.5 | 38.0 | 3/4" | 0.097 | 5 |
| 1070032116 * | 32 | 34.0 | 66.5 | 43.0 | 60.5 | 16.0 | 44.5 | 1" | 0.240 | 5 |

*stainless steel





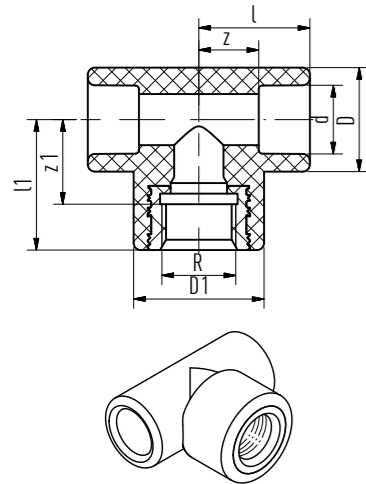
Transition elbow with male thread

brass or stainless steel — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass or stainless steel
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | D | D1 | z | z2 | R | kg | PU |
|--------------|----|------|------|------|------|------|------|------|-------|----|
| 1070020099 | 20 | 31.5 | 53.0 | 29.5 | 37.0 | 17.0 | 16.0 | 1/2" | 0.108 | 10 |
| 1070020100 | 20 | 31.5 | 54.0 | 34.0 | 38.0 | 17.0 | 17.0 | 3/4" | 0.128 | 10 |
| 1070025101 | 25 | 31.5 | 54.0 | 34.0 | 38.0 | 15.5 | 17.0 | 3/4" | 0.104 | 10 |
| 1070032102 | 32 | 27.5 | 68.0 | 43.0 | 38.0 | 9.5 | 17.0 | 3/4" | 0.112 | 5 |
| 1070032103 | 32 | 31.0 | 85.5 | 43.0 | 52.0 | 13.0 | 20.0 | 1" | 0.231 | 5 |
| 1070020117 * | 20 | 31.5 | 53.0 | 29.5 | 37.0 | 17.0 | 16.0 | 1/2" | 0.035 | 10 |
| 1070020118 * | 20 | 31.5 | 54.0 | 34.0 | 38.0 | 17.0 | 17.0 | 3/4" | 0.123 | 10 |
| 1070025119 * | 25 | 31.5 | 54.0 | 34.0 | 38.0 | 15.5 | 17.0 | 3/4" | 0.121 | 10 |
| 1070032120 * | 32 | 27.5 | 68.0 | 43.0 | 38.0 | 9.5 | 17.0 | 3/4" | 0.128 | 5 |

*stainless steel



Threaded branch tee with female thread

brass or stainless steel — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass or stainless steel
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | D | D1 | z | z1 | R | kg | PU |
|--------------|----|------|------|------|------|------|------|------|-------|----|
| 1060020141 | 20 | 31.5 | 37.0 | 29.5 | 37.0 | 17.0 | 24.0 | 1/2" | 0.086 | 10 |
| 1060020142 | 20 | 37.0 | 37.0 | 34.0 | 44.0 | 22.5 | 24.0 | 3/4" | 0.121 | 10 |
| 1060025143 | 25 | 34.0 | 38.0 | 34.0 | 37.0 | 18.0 | 25.0 | 1/2" | 0.090 | 10 |
| 1060025144 | 25 | 37.0 | 37.0 | 34.0 | 44.0 | 21.0 | 24.0 | 3/4" | 0.109 | 10 |
| 1060032145 | 32 | 35.0 | 37.0 | 43.0 | 37.0 | 17.0 | 24.0 | 1/2" | 0.103 | 5 |
| 1060032146 | 32 | 27.5 | 51.0 | 43.0 | 44.0 | 9.5 | 38.0 | 3/4" | 0.111 | 5 |
| 1060032147 | 32 | 31.5 | 67.0 | 43.0 | 60.0 | 13.5 | 45.0 | 1" | 0.255 | 5 |
| 1060040148 | 40 | 42.0 | 40.0 | 52.0 | 37.0 | 21.5 | 27.0 | 1/2" | 0.142 | 5 |
| 1060040149 | 40 | 40.5 | 40.5 | 52.0 | 52.0 | 20.0 | 27.5 | 3/4" | 0.147 | 5 |
| 1060040150 | 40 | 41.5 | 56.0 | 52.0 | 60.0 | 21.0 | 34.0 | 1" | 0.276 | 5 |
| 1060050151 | 50 | 49.5 | 63.5 | 68.0 | 60.0 | 26.0 | 41.5 | 1" | 0.385 | 5 |
| 1060050152 | 50 | 49.5 | 44.5 | 68.0 | 43.0 | 26.0 | 31.5 | 1/2" | 0.237 | 5 |
| 1060050153 | 50 | 49.5 | 44.5 | 68.0 | 43.0 | 26.0 | 31.5 | 3/4" | 0.243 | 5 |
| 1060020160 * | 20 | 31.5 | 37.0 | 29.5 | 37.0 | 17.0 | 24.0 | 1/2" | 0.087 | 10 |
| 1060020161 * | 20 | 37.0 | 37.0 | 34.0 | 44.0 | 22.5 | 24.0 | 3/4" | 0.108 | 10 |
| 1060025162 * | 25 | 34.5 | 38.0 | 34.0 | 37.0 | 18.5 | 25.0 | 1/2" | 0.093 | 10 |
| 1060025163 * | 25 | 37.0 | 37.0 | 34.0 | 44.0 | 21.0 | 24.0 | 3/4" | 0.111 | 10 |
| 1060032164 * | 32 | 35.0 | 37.0 | 43.0 | 37.0 | 17.0 | 24.0 | 1/2" | 0.113 | 5 |
| 1060032165 * | 32 | 27.5 | 51.0 | 43.0 | 44.0 | 9.5 | 38.0 | 3/4" | 0.111 | 5 |
| 1060032166 * | 32 | 31.5 | 67.0 | 43.0 | 60.0 | 13.5 | 45.0 | 1" | 0.082 | 5 |

*stainless steel

NOTICE: aquatherm green-metal compound fittings are manufactured from fusiolen® PP-R and brass. Metal inserts, without hex shaped spanner flat, with 1/2" and 3/4" female are also available in stainless steel.

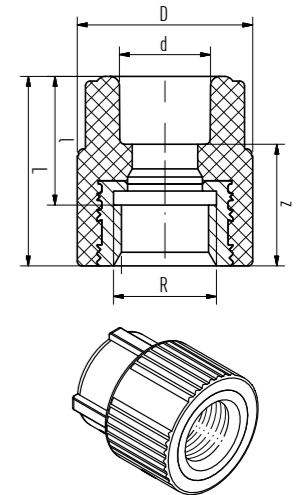
Transition piece with female thread

round, brass or stainless steel — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass or stainless steel
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | D | L | z | R | kg | PU |
|--------------|----|------|------|------|------|------|-------|----|
| 1070020002 | 20 | 27.5 | 37.5 | 40.5 | 26.0 | 1/2" | 0.064 | 10 |
| 1070020003 | 20 | 27.5 | 43.5 | 40.5 | 26.0 | 3/4" | 0.089 | 10 |
| 1070025004 | 25 | 29.5 | 38.5 | 42.5 | 26.5 | 1/2" | 0.065 | 10 |
| 1070025005 | 25 | 27.5 | 43.5 | 40.5 | 24.5 | 3/4" | 0.087 | 10 |
| 1070032006 | 32 | 30.5 | 43.5 | 43.5 | 25.5 | 3/4" | 0.092 | 5 |
| 1070020060 * | 20 | 27.5 | 37.5 | 40.5 | 26.0 | 1/2" | 0.069 | 10 |
| 1070020061 * | 20 | 27.5 | 43.5 | 40.5 | 26.0 | 3/4" | 0.090 | 10 |
| 1070025062 * | 25 | 29.5 | 38.5 | 42.5 | 26.5 | 1/2" | 0.069 | 10 |
| 1070025063 * | 25 | 27.5 | 43.5 | 40.5 | 24.5 | 3/4" | 0.086 | 10 |
| 1070032064 * | 32 | 30.5 | 43.5 | 43.5 | 25.5 | 3/4" | 0.092 | 5 |
| 1070032065 * | 32 | 28.0 | 37.0 | 41.0 | 23.0 | 1/2" | 0.078 | 5 |

*stainless steel



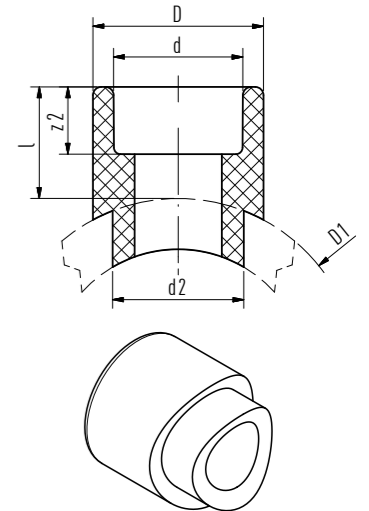
Weld-in saddle

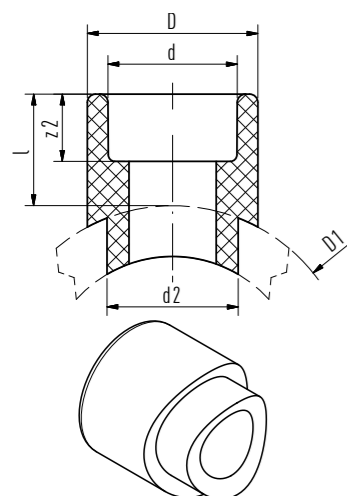
socket welding — SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | D1 | d | d2 | l | D | z2 | kg | PU |
|--------------|-----|----|------|------|------|------|-------|----|
| 1030040001 * | 40 | 20 | 25.0 | 27.0 | 29.5 | 14.5 | 0.016 | 5 |
| 1030040002 * | 40 | 25 | 25.0 | 28.5 | 34.0 | 16.0 | 0.017 | 5 |
| 1030050003 | 50 | 20 | 25.0 | 27.5 | 29.5 | 14.5 | 0.018 | 5 |
| 1030050004 | 50 | 25 | 25.0 | 28.5 | 34.0 | 16.0 | 0.019 | 5 |
| 1030063005 | 63 | 20 | 25.0 | 27.5 | 29.5 | 14.5 | 0.017 | 5 |
| 1030063006 | 63 | 25 | 25.0 | 28.5 | 34.0 | 16.0 | 0.019 | 5 |
| 1030063007 | 63 | 32 | 32.0 | 30.0 | 43.0 | 18.0 | 0.028 | 5 |
| 1030075008 | 75 | 20 | 25.0 | 27.5 | 29.5 | 14.5 | 0.018 | 5 |
| 1030075009 | 75 | 25 | 25.0 | 28.5 | 34.0 | 16.0 | 0.019 | 5 |
| 1030075010 | 75 | 32 | 32.0 | 30.0 | 43.0 | 18.0 | 0.028 | 5 |
| 1030075011 | 75 | 40 | 40.0 | 34.0 | 52.0 | 20.5 | 0.049 | 5 |
| 1030090012 | 90 | 20 | 25.0 | 27.5 | 29.5 | 14.5 | 0.018 | 5 |
| 1030090013 | 90 | 25 | 25.0 | 28.5 | 34.0 | 16.0 | 0.019 | 5 |
| 1030090014 | 90 | 32 | 32.0 | 30.0 | 43.0 | 18.0 | 0.029 | 5 |
| 1030090015 | 90 | 40 | 40.0 | 34.0 | 52.0 | 20.5 | 0.048 | 5 |
| 1030110016 | 110 | 20 | 25.0 | 27.5 | 29.5 | 14.5 | 0.019 | 5 |
| 1030110017 | 110 | 25 | 25.0 | 28.5 | 34.0 | 16.0 | 0.020 | 5 |
| 1030110018 | 110 | 32 | 32.0 | 30.0 | 43.0 | 18.0 | 0.030 | 5 |
| 1030110019 | 110 | 40 | 40.0 | 34.0 | 52.0 | 20.5 | 0.050 | 5 |
| 1030110020 | 110 | 50 | 50.0 | 34.0 | 68.0 | 23.5 | 0.091 | 5 |
| 1030125021 | 125 | 20 | 25.0 | 27.5 | 29.5 | 14.5 | 0.019 | 5 |
| 1030125022 | 125 | 25 | 25.0 | 28.5 | 34.0 | 16.0 | 0.020 | 5 |
| 1030125023 | 125 | 32 | 32.0 | 30.0 | 43.0 | 18.0 | 0.029 | 5 |
| 1030125024 | 125 | 40 | 40.0 | 34.0 | 52.0 | 20.5 | 0.050 | 5 |
| 1030125025 | 125 | 50 | 50.0 | 34.0 | 68.0 | 23.5 | 0.090 | 5 |
| 1030125026 | 125 | 63 | 63.0 | 38.0 | 84.0 | 27.5 | 0.149 | 5 |
| 1030160027 | 160 | 20 | 25.0 | 27.5 | 29.5 | 14.5 | 0.021 | 5 |
| 1030160028 | 160 | 25 | 25.0 | 28.5 | 34.0 | 16.0 | 0.023 | 5 |

*not for aquatherm blue OT
continued on next page ...





Weld-in saddle

(continued) socket welding — SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | D1 | d | d2 | l | D | z2 | kg | PU |
|-------------|---------|-----|-------|------|-------|------|-------|----|
| 1030160029 | 160 | 32 | 32.0 | 30.0 | 43.0 | 18.0 | 0.034 | 5 |
| 1030160030 | 160 | 40 | 40.0 | 34.0 | 52.0 | 20.5 | 0.054 | 5 |
| 1030160031 | 160 | 50 | 50.0 | 34.0 | 68.0 | 23.5 | 0.094 | 5 |
| 1030160032 | 160 | 63 | 63.0 | 38.0 | 84.0 | 27.5 | 0.157 | 5 |
| 1030160033 | 160 | 75 | 75.0 | 42.0 | 100.0 | 30.0 | 0.238 | 5 |
| 1030160034 | 160 | 90 | 90.0 | 45.0 | 120.0 | 33.0 | 0.360 | 5 |
| 1030250035 | 200-250 | 20 | 25.0 | 27.5 | 29.5 | 14.5 | 0.020 | 5 |
| 1030250036 | 200-250 | 25 | 25.0 | 28.5 | 34.0 | 16.0 | 0.021 | 5 |
| 1030250037 | 200-250 | 32 | 32.0 | 30.0 | 43.0 | 18.0 | 0.031 | 5 |
| 1030200038 | 200 | 40 | 40.0 | 34.0 | 52.0 | 20.5 | 0.049 | 5 |
| 1030200039 | 200 | 50 | 50.0 | 34.0 | 68.0 | 23.5 | 0.087 | 5 |
| 1030200040 | 200 | 63 | 63.0 | 37.5 | 84.0 | 27.5 | 0.146 | 5 |
| 1030200041 | 200 | 75 | 75.0 | 42.0 | 100.0 | 30.0 | 0.225 | 5 |
| 1030200042 | 200 | 90 | 90.0 | 45.0 | 120.0 | 33.0 | 0.356 | 5 |
| 1030200043 | 200 | 110 | 110.0 | 49.0 | 147.0 | 37.0 | 0.638 | 5 |
| 1030200044 | 200 | 125 | 125.0 | 55.0 | 167.0 | 40.0 | 0.862 | 5 |
| 1030250045 | 250 | 40 | 40.0 | 34.0 | 52.0 | 20.5 | 0.053 | 5 |
| 1030250046 | 250 | 50 | 50.0 | 34.0 | 68.0 | 23.5 | 0.090 | 5 |
| 1030250047 | 250 | 63 | 63.0 | 37.5 | 84.0 | 27.5 | 0.152 | 5 |
| 1030250048 | 250 | 75 | 75.0 | 42.0 | 100.0 | 30.0 | 0.222 | 5 |
| 1030250049 | 250 | 90 | 90.0 | 45.0 | 120.0 | 33.0 | 0.348 | 5 |
| 1030250050 | 250 | 110 | 110.0 | 49.0 | 147.0 | 37.0 | 0.602 | 5 |
| 1030250051 | 250 | 125 | 125.0 | 55.0 | 167.0 | 40.0 | 0.820 | 5 |
| 1030315052 | 315-355 | 63 | 63.0 | 37.5 | 84.0 | 27.5 | 0.153 | 1 |
| 1030315053 | 315-355 | 75 | 75.0 | 42.0 | 100.0 | 30.0 | 0.230 | 1 |
| 1030315054 | 315 | 90 | 90.0 | 45.0 | 120.0 | 33.0 | 0.363 | 1 |
| 1030315055 | 315 | 110 | 110.0 | 49.0 | 147.0 | 37.0 | 0.592 | 1 |
| 1030315056 | 315 | 125 | 125.0 | 55.0 | 167.0 | 40.0 | 0.830 | 1 |
| 1030355058 | 355 | 90 | 90.0 | 45.0 | 120.0 | 33.0 | 0.355 | 1 |
| 1030355059 | 355 | 110 | 110.0 | 49.0 | 147.0 | 37.0 | 0.586 | 1 |
| 1030355060 | 355 | 125 | 125.0 | 55.0 | 167.0 | 40.0 | 0.813 | 1 |
| 1030500062 | 400-500 | 75 | 75.0 | 42.0 | 100.0 | 30.0 | 0.216 | 1 |
| 1030450063 | 400-450 | 110 | 110.0 | 49.0 | 147.0 | 37.0 | 0.535 | 1 |
| 1030400064 | 400 | 125 | 125.0 | 55.0 | 167.0 | 40.0 | 0.693 | 1 |
| 1030500065 | 400-500 | 90 | 90.0 | 45.0 | 120.0 | 33.0 | 0.330 | 1 |
| 1030500066 | 450-500 | 125 | 125.0 | 55.0 | 167.0 | 40.0 | 0.671 | 1 |
| 1030630067 | 400-630 | 63 | 63.0 | 37.5 | 84.0 | 27.5 | 0.498 | 1 |
| 1030560068 | 500 | 110 | 110.0 | 49.0 | 147.0 | 37.5 | 0.533 | 1 |
| 1030630069 | 630 | 75 | 75.0 | 42.0 | 100.0 | 30.0 | 0.260 | 1 |
| 1030630070 | 630 | 90 | 90.0 | 45.0 | 120.0 | 33.0 | 0.350 | 1 |
| 1030630071 | 630 | 125 | 125.0 | 55.0 | 167.0 | 40.0 | 0.689 | 1 |
| 1030630072 | 630 | 110 | 110.0 | 49.0 | 147.0 | 37.0 | 0.567 | 1 |

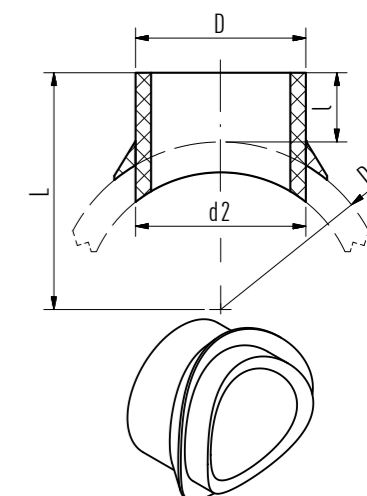
With weld-on surface and additional weld-in socket for the fusion with the inner pipe wall. The necessary tools for the fusion of aquatherm green weld-in saddles are listed in the Tools chapter.

Weld-in saddle butt welding

Material: fusiolen® PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | D1 | D | d2 | l | L | kg | PU |
|-------------|-----|-------|-------|------|-------|-------|----|
| SDR 9 | | | | | | | |
| 1033315073 | 315 | 160.0 | 160.0 | 80.0 | 237.5 | 0.831 | 1 |
| 1033355074 | 355 | 160.0 | 160.0 | 80.0 | 257.5 | 0.845 | 1 |
| SDR 11 | | | | | | | |
| 1034315057 | 315 | 160.0 | 160.0 | 80.0 | 237.5 | 0.862 | 1 |
| 1034355061 | 355 | 160.0 | 160.0 | 80.0 | 257.5 | 0.867 | 1 |

With weld-on surface and additional weld-in socket for the fusion with the inner pipe wall. The necessary tools for the fusion of aquatherm green weld-in saddles are listed in the Tools chapter.



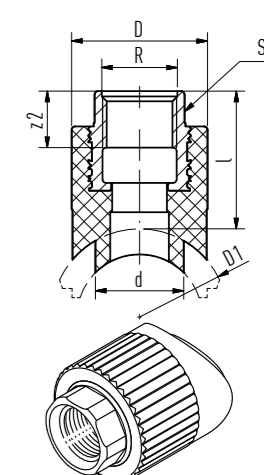
Weld-in saddle with female thread

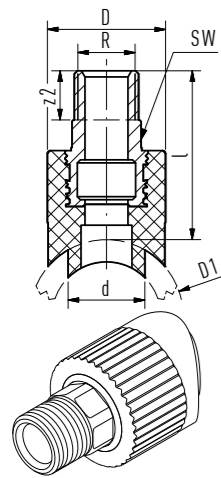
with spanner flat — SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | D1 | d | l | D | z2 | R | SW | kg | PU |
|--------------|---------|----|------|------|------|------|----|-------|----|
| 1030040100 * | 40 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | 24 | 0.088 | 5 |
| 1030050106 | 50 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | 24 | 0.090 | 5 |
| 1030063112 | 63 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | 24 | 0.089 | 5 |
| 1030075118 | 75 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | 24 | 0.083 | 5 |
| 1030090126 | 90 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | 24 | 0.090 | 5 |
| 1030110134 | 110 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | 24 | 0.089 | 5 |
| 1030125142 | 125 | 25 | 39.0 | 38.0 | 16.0 | 1/2" | 24 | 0.092 | 5 |
| 1030160150 | 160 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | 24 | 0.092 | 5 |
| 1030250158 | 200-250 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | 24 | 0.092 | 5 |
| 1030040101 | 40 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | 31 | 0.107 | 5 |
| 1030050107 | 50 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | 31 | 0.110 | 5 |
| 1030063113 | 63 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | 31 | 0.109 | 5 |
| 1030075119 | 75 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | 31 | 0.109 | 5 |
| 1030090127 | 90 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | 31 | 0.110 | 5 |
| 1030110135 | 110 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | 31 | 0.110 | 5 |
| 1030125143 | 125 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | 31 | 0.112 | 5 |
| 1030160151 | 160 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | 31 | 0.112 | 5 |
| 1030250159 | 200-250 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | 31 | 0.112 | 5 |
| 1030075120 | 75 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.223 | 5 |
| 1030090128 | 90 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.223 | 5 |
| 1030110136 | 110 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.223 | 5 |
| 1030125144 | 125 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.224 | 5 |
| 1030160152 | 160 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.226 | 5 |
| 1030250160 | 200-250 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.244 | 5 |

*do not use with aquatherm blue OT





Weld-in saddle with male thread

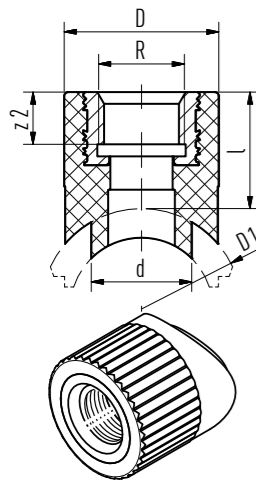
with spanner flat — SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | D1 | d | l | D | z2 | R | SW | kg | PU |
|--------------|-----|----|------|------|------|------|----|-------|----|
| 1030040102 * | 40 | 25 | 55.0 | 38.5 | 16.0 | 1/2" | 21 | 0.088 | 5 |
| 1030050108 | 50 | 25 | 55.0 | 38.5 | 16.0 | 1/2" | 21 | 0.090 | 5 |
| 1030063114 | 63 | 25 | 55.0 | 38.5 | 16.0 | 1/2" | 21 | 0.089 | 5 |
| 1030075121 | 75 | 25 | 55.0 | 38.5 | 16.0 | 1/2" | 21 | 0.097 | 5 |
| 1030090129 | 90 | 25 | 55.0 | 38.5 | 16.0 | 1/2" | 21 | 0.090 | 5 |
| 1030110137 | 110 | 25 | 55.0 | 38.5 | 16.0 | 1/2" | 21 | 0.089 | 5 |
| 1030125145 | 125 | 25 | 55.0 | 38.5 | 16.0 | 1/2" | 21 | 0.092 | 5 |
| 1030160153 | 160 | 25 | 55.0 | 38.5 | 16.0 | 1/2" | 21 | 0.092 | 5 |
| 1030040103 * | 40 | 25 | 56.0 | 43.5 | 17.0 | 3/4" | 24 | 0.107 | 5 |
| 1030050109 | 50 | 25 | 56.0 | 43.5 | 17.0 | 3/4" | 24 | 0.110 | 5 |
| 1030063115 | 63 | 25 | 56.0 | 43.5 | 17.0 | 3/4" | 24 | 0.109 | 5 |
| 1030075122 | 75 | 25 | 56.0 | 43.5 | 17.0 | 3/4" | 24 | 0.109 | 5 |
| 1030090130 | 90 | 25 | 56.0 | 43.5 | 17.0 | 3/4" | 24 | 0.110 | 5 |
| 1030110138 | 110 | 25 | 56.0 | 43.5 | 17.0 | 3/4" | 24 | 0.110 | 5 |
| 1030125146 | 125 | 25 | 56.0 | 43.5 | 17.0 | 3/4" | 24 | 0.112 | 5 |
| 1030160154 | 160 | 25 | 56.0 | 43.5 | 17.0 | 3/4" | 24 | 0.112 | 5 |

*do not use with aquatherm blue OT

With hex shaped male thread, weld-in surface and weld-in socket for fusion with the inner wall of the pipe. The necessary tools for the fusion of aquatherm green weld-in saddles are listed in the Tools chapter.



Weld-in saddle with female thread

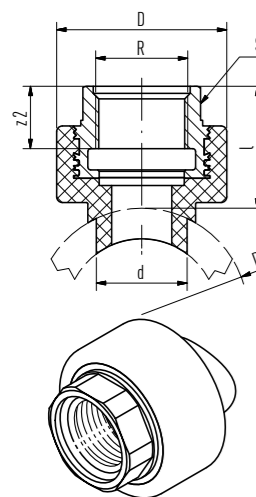
SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R / stainless steel
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | D1 | d | l | D | z2 | R | SW | kg | PU |
|---------------|---------|----|------|------|------|------|----|-------|----|
| 1030040104 ** | 40 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | - | 0.062 | 5 |
| 1030050110 | 50 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | - | 0.064 | 5 |
| 1030063116 | 63 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | - | 0.064 | 5 |
| 1030075123 | 75 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | - | 0.064 | 5 |
| 1030090131 | 90 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | - | 0.064 | 5 |
| 1030110139 | 110 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | - | 0.069 | 5 |
| 1030125147 | 125 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | - | 0.065 | 5 |
| 1030160155 | 160 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | - | 0.066 | 5 |
| 1030250161 | 200-250 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | - | 0.065 | 5 |
| 1030040105 | 40 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | - | 0.082 | 5 |
| 1030050111 | 50 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | - | 0.074 | 5 |
| 1030063117 | 63 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | - | 0.073 | 5 |
| 1030075124 | 75 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | - | 0.074 | 5 |
| 1030090132 | 90 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | - | 0.074 | 5 |
| 1030110140 | 110 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | - | 0.083 | 5 |
| 1030125148 | 125 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | - | 0.074 | 5 |
| 1030160156 | 160 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | - | 0.076 | 5 |
| 1030250162 | 200-250 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | - | 0.084 | 5 |
| 1030075125 * | 75 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.234 | 5 |
| 1030090133 * | 90 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.235 | 5 |
| 1030110141 * | 110 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.236 | 5 |
| 1030125149 * | 125 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.235 | 5 |
| 1030160157 * | 160 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.238 | 5 |
| 1030250163 * | 200-250 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.237 | 5 |

*with spanner

**do not use with aquatherm blue OT



aquatherm weld-on saddle

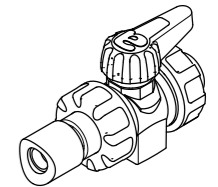
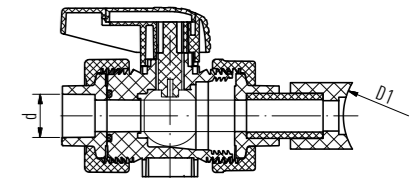
with ball valve for installation under pressure in use with tapping tool
SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D1 | PU |
|-------------|----|---------|----|
| 1090075010 | 40 | 75 | 1 |
| 1090090011 | 40 | 90 | 1 |
| 1090110012 | 40 | 110 | 1 |
| 1090125013 | 40 | 125 | 1 |
| 1090125014 | 63 | 125 | 1 |
| 1090160015 | 40 | 160 | 1 |
| 1090160016 | 63 | 160 | 1 |
| 1090200017 | 40 | 200 | 1 |
| 1090200018 | 63 | 200 | 1 |
| 1090250019 | 40 | 250 | 1 |
| 1090250020 | 63 | 250 | 1 |
| 1090315021 | 63 | 315-355 | 1 |
| 1090400022 | 63 | 400-630 | 1 |

do not use with aquatherm blue OT

With hex shaped male thread, weld-in surface and weld-in socket for fusion with the inner wall of the pipe. The necessary tools for the fusion of aquatherm green weld-in saddles are listed in the Tools chapter.

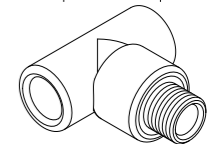
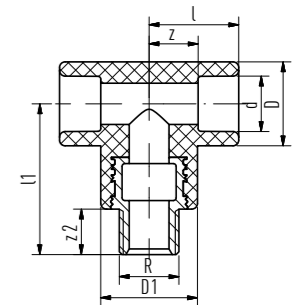


Threaded branch tee with female thread

SDR 6 / 7.4 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | D | D1 | z | z2 | R | kg | PU |
|-------------|----|------|------|------|------|------|------|------|-------|----|
| 1060020154 | 20 | 31.5 | 53.0 | 29.5 | 37.0 | 17.0 | 16.0 | 1/2" | 0.102 | 10 |

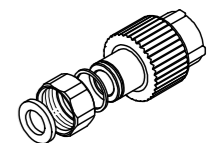
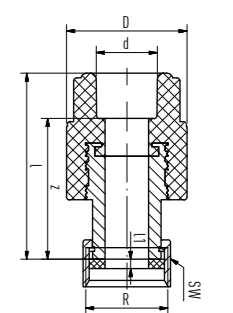


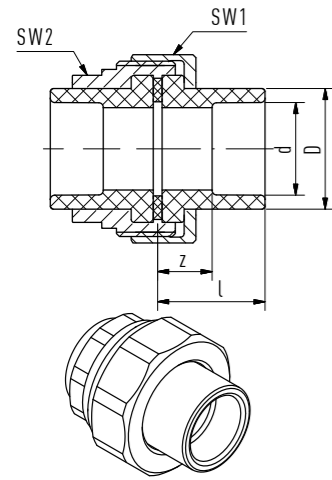
Water meter nut adapter

with gasket — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | D | z | R | SW | kg | PU |
|-------------|----|------|-----|------|------|------|----|-------|----|
| 1050020090 | 20 | 59.5 | 3.0 | 38.5 | 45.0 | 3/4" | 30 | 0.136 | 1 |
| 1050025091 | 25 | 61.0 | 3.0 | 38.5 | 45.0 | 3/4" | 30 | 0.155 | 1 |
| 1050032092 | 32 | 62.0 | 3.0 | 43.5 | 44.0 | 3/4" | 30 | 0.162 | 1 |



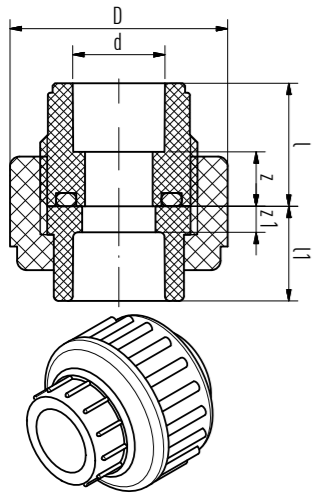


Coupling screw joint, brass

socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green, brass

| Article no. | d | l | D | z | SW1 | SW2 | kg | PU |
|-------------|----|------|------|------|-----|-----|-------|----|
| 1050032040 | 32 | 36.5 | 41.0 | 18.5 | 64 | 50 | 0.479 | 1 |
| 1050040041 | 40 | 38.0 | 50.0 | 17.5 | 80 | 60 | 0.841 | 1 |
| 1050050042 | 50 | 41.0 | 61.0 | 17.5 | 86 | 70 | 0.821 | 1 |
| 1050063043 | 63 | 45.0 | 76.0 | 17.5 | 108 | 90 | 1.498 | 1 |
| 1050075044 | 75 | 31.0 | 90.0 | 17.5 | 128 | 104 | 1.998 | 1 |

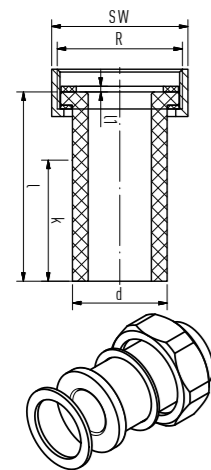


Coupling screw joint

socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | D | z | z1 | kg | PU |
|-------------|----|------|------|-------|------|-----|-------|----|
| 1050020050 | 20 | 26.0 | 20.0 | 46.0 | 12.0 | 5.5 | 0.036 | 10 |
| 1050025051 | 25 | 28.0 | 21.0 | 56.0 | 12.0 | 5.0 | 0.058 | 10 |
| 1050032052 | 32 | 30.0 | 23.0 | 66.0 | 12.0 | 5.0 | 0.089 | 5 |
| 1050040053 | 40 | 34.0 | 25.5 | 79.0 | 13.5 | 5.0 | 0.136 | 5 |
| 1050050054 | 50 | 39.0 | 28.8 | 87.0 | 15.5 | 5.0 | 0.170 | 5 |
| 1050063055 | 63 | 47.5 | 32.5 | 107.0 | 20.0 | 5.0 | 0.240 | 1 |
| 1050075056 | 75 | 50.0 | 36.0 | 128.0 | 20.0 | 6.0 | 0.546 | 1 |



Loose nut adapter

with gasket — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

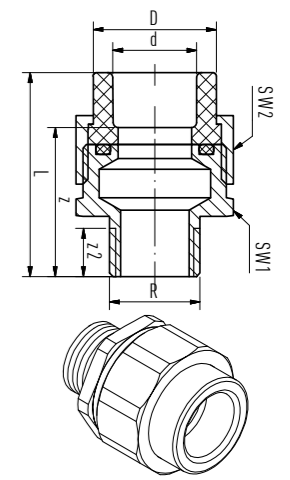
| Article no. | d | l | l1 | k | R | SW | kg | PU |
|-------------|----|-------|-----|------|--------|----|-------|----|
| 1050020082 | 20 | 100.0 | 3.0 | 65.0 | 1" | 36 | 0.079 | 1 |
| 1050025083 | 25 | 100.0 | 3.0 | 62.0 | 1 1/4" | 46 | 0.104 | 1 |
| 1050032084 | 32 | 100.0 | 3.0 | 58.0 | 1 1/2" | 52 | 0.175 | 1 |
| 1050040085 | 40 | 100.0 | 3.0 | 53.0 | 2" | 64 | 0.258 | 1 |

Transition coupling with male thread

with union nut and welding socket — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | L | z | z2 | R | SW1 | SW2 | kg | PU |
|-------------|----|------|------|------|------|--------|-----|-----|-------|----|
| 1050020070 | 20 | 27.5 | 52.5 | 38.0 | 13.5 | 1/2" | 34 | 36 | 0.145 | 1 |
| 1050025071 | 25 | 36.0 | 59.5 | 43.5 | 14.5 | 3/4" | 42 | 46 | 0.243 | 1 |
| 1050032072 | 32 | 41.5 | 64.5 | 46.5 | 16.8 | 1" | 48 | 52 | 0.336 | 1 |
| 1050040073 | 40 | 53.0 | 70.0 | 49.5 | 19.1 | 1 1/4" | 60 | 64 | 0.517 | 1 |
| 1050050074 | 50 | 59.0 | 84.8 | 61.3 | 22.0 | 1 1/2" | 48 | 72 | 0.624 | 1 |
| 1050063075 | 63 | 74.0 | 95.5 | 68.0 | 25.0 | 2" | 62 | 89 | 1.045 | 1 |

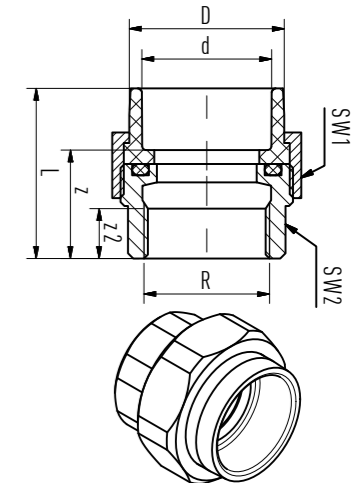


Transition coupling with female thread

with union nut and welding socket — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | L | z | z2 | R | SW1 | SW2 | kg | PU |
|-------------|----|------|------|------|------|--------|-----|-----|-------|----|
| 1050020076 | 20 | 27.5 | 45.0 | 30.5 | 15.0 | 1/2" | 36 | 24 | 0.112 | 1 |
| 1050025077 | 25 | 36.0 | 49.0 | 33.0 | 15.5 | 3/4" | 46 | 32 | 0.193 | 1 |
| 1050032078 | 32 | 41.5 | 54.0 | 36.0 | 15.0 | 1" | 52 | 40 | 0.291 | 1 |
| 1050040079 | 40 | 53.0 | 56.5 | 36.0 | 20.0 | 1 1/4" | 64 | 47 | 0.423 | 1 |
| 1050050080 | 50 | 59.0 | 64.8 | 41.3 | 19.0 | 1 1/2" | 72 | 57 | 0.610 | 1 |
| 1050063081 | 63 | 74.0 | 74.5 | 47.0 | 18.0 | 2" | 89 | 68 | 0.924 | 1 |



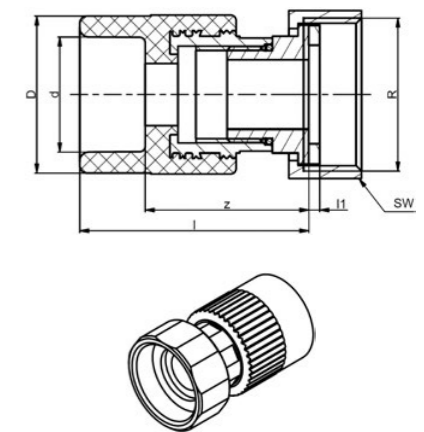
Notice: aquatherm green metal compound fittings are manufactured from fusiolen® PP-R and brass. Metal inserts, without hex shaped spanner flat, with 1/2" and 3/4" female are also available in stainless steel.

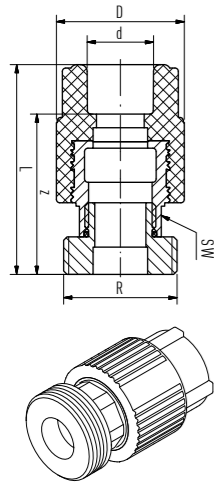
Nut adapter ISO-standard

SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | D | z | R | SW | kg | PU |
|-------------|----|------|-----|-------|------|--------|-----|-------|----|
| 1050020097 | 20 | 58.5 | 3.0 | 38.5 | 34.0 | 1" | 36 | 0.182 | 10 |
| 1050025098 | 25 | 60.0 | 3.0 | 38.5 | 44.0 | 1" | 36 | 0.186 | 10 |
| 1050025099 | 25 | 60.0 | 3.0 | 43.5 | 44.0 | 1 1/4" | 46 | 0.274 | 10 |
| 1050032100 | 32 | 63.0 | 3.0 | 43.5 | 45.0 | 1 1/4" | 46 | 0.279 | 5 |
| 1050032101 | 32 | 69.5 | 3.0 | 60.0 | 51.5 | 1 1/2" | 52 | 0.446 | 5 |
| 1050040102 | 40 | 72.0 | 3.0 | 60.0 | 51.5 | 1 1/2" | 52 | 0.421 | 5 |
| 1050040103 | 40 | 72.0 | 3.0 | 74.0 | 51.5 | 2" | 64 | 0.719 | 5 |
| 1050050104 | 50 | 75.0 | 3.0 | 74.0 | 51.5 | 2" | 64 | 0.736 | 5 |
| 1050050105 | 50 | 77.0 | 3.0 | 84.0 | 53.5 | 2 1/4" | 72 | 0.831 | 5 |
| 1050063106 | 63 | 83.5 | 3.0 | 84.0 | 56.0 | 2 1/4" | 72 | 0.889 | 1 |
| 1050063107 | 63 | 82.5 | 3.0 | 101.0 | 55.0 | 2 3/4" | 89 | 1.306 | 1 |
| 1050075108 | 75 | 85.0 | 3.0 | 100.0 | 55.0 | 2 3/4" | 89 | 1.275 | 1 |
| 1050075109 | 75 | 91.0 | 3.0 | 100.0 | 61.0 | 3 1/2" | 110 | 1.818 | 1 |



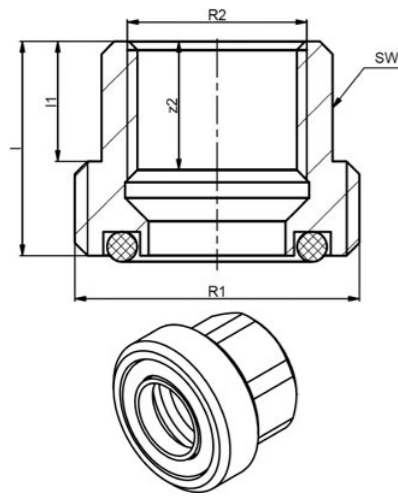


Counterpart with male thread

with welding socket for ISO-standard — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | L | z | R | SW | kg | PU |
|-------------|----|-------|-------|------|--------|----|-------|----|
| 1050020110 | 20 | 37.5 | 61.5 | 47.0 | 1" | 24 | 0.151 | 10 |
| 1050025111 | 25 | 37.5 | 63.0 | 47.0 | 1" | 24 | 0.153 | 10 |
| 1050025112 | 25 | 43.5 | 63.0 | 47.0 | 1 1/4" | 31 | 0.221 | 10 |
| 1050032113 | 32 | 43.5 | 66.0 | 48.0 | 1 1/4" | 31 | 0.226 | 5 |
| 1050032114 | 32 | 60.0 | 76.5 | 58.5 | 1 1/2" | 39 | 0.408 | 5 |
| 1050040115 | 40 | 60.0 | 79.0 | 58.5 | 1 1/2" | 39 | 0.414 | 5 |
| 1050040116 | 40 | 74.0 | 79.0 | 58.5 | 2" | 50 | 0.650 | 5 |
| 1050050117 | 50 | 74.0 | 82.0 | 58.5 | 2" | 50 | 0.634 | 5 |
| 1050050118 | 50 | 84.0 | 83.0 | 59.5 | 2 1/4" | 55 | 0.750 | 5 |
| 1050063119 | 63 | 84.0 | 89.5 | 62.0 | 2 1/4" | 55 | 0.728 | 1 |
| 1050063120 | 63 | 101.0 | 95.0 | 65.5 | 2 3/4" | 67 | 1.093 | 1 |
| 1050075121 | 75 | 100.0 | 95.0 | 65.0 | 2 3/4" | 67 | 1.117 | 1 |
| 1050075122 | 75 | 100.0 | 100.0 | 70.0 | 3 1/2" | 67 | 1.436 | 1 |



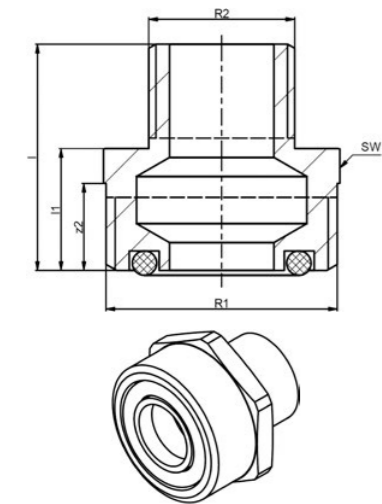
Brass counterpart with female thread

for ISO-standard adapter/loose nut adapter — SDR 6 / 7.4 / 9 / 11

Material: brass

| Article no. | l1 | L | z2 | R1 | R2 | SW | kg | PU |
|-------------|------|------|------|--------|--------|----|-------|----|
| 1050000130 | 14.0 | 25.0 | 15.0 | 1" | 1/2" | 25 | 0.063 | 10 |
| 1050000131 | 12.5 | 26.0 | 14.0 | 1 1/4" | 3/4" | 32 | 0.119 | 10 |
| 1050000132 | 15.0 | 31.0 | 17.0 | 1 1/2" | 1" | 40 | 0.175 | 5 |
| 1050000133 | 17.0 | 33.0 | 22.0 | 2" | 1 1/4" | 47 | 0.263 | 5 |
| 1050000134 | 20.0 | 36.0 | 19.0 | 2 1/4" | 1 1/2" | 57 | 0.333 | 5 |
| 1050000135 | 24.0 | 42.0 | 24.0 | 2 3/4" | 2" | 68 | 0.517 | 1 |
| 9600027522 | 24.0 | 46.0 | 27.0 | 3 1/2" | 2 1/2" | 84 | 0.801 | 1 |
| 9600027524 | 27.0 | 46.0 | 27.0 | 4" | 3" | 97 | 0.943 | 1 |

Notice: aquatherm green metal compound fittings are manufactured from fusiolen® PP-R and brass. Metal inserts, without hex shaped spanner flat, with 1/2" and 3/4" female are also available in stainless steel.



Brass counterpart with male thread

for ISO-standard adapter/loose nut adapter — SDR 6 / 7.4 / 9 / 11

Material: brass

| Article no. | l1 | L | z2 | R1 | R2 | SW | kg | PU |
|-------------|------|------|------|--------|--------|----|-------|----|
| 1050000138 | 17.5 | 32.5 | 10.5 | 1" | 1/2" | 34 | 0.109 | 10 |
| 1050000139 | 21.0 | 38.5 | 12.5 | 1 1/4" | 3/4" | 42 | 0.188 | 10 |
| 1050000140 | 22.5 | 41.5 | 13.5 | 1 1/2" | 1" | 48 | 0.211 | 5 |
| 1050000141 | 22.5 | 44.5 | 13.0 | 2" | 1 1/4" | 60 | 0.363 | 5 |
| 1050000142 | 34.0 | 56.0 | 16.0 | 2 1/4" | 1 1/2" | 48 | 0.472 | 5 |
| 1050000143 | 38.0 | 63.0 | 16.0 | 2 3/4" | 2" | 62 | 0.803 | 1 |
| 9600027722 | 42.0 | 70.0 | 22.0 | 3 1/2" | 2 1/2" | 82 | 1.189 | 1 |
| 9600027724 | 42.0 | 74.0 | 22.0 | 4" | 3" | 97 | 1.398 | 1 |

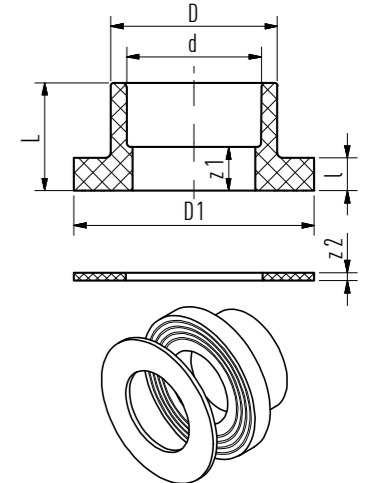
Flange adapter socket welding

with gasket — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | L | l | D | D1 | z1 | z2 | kg | PU |
|--------------|-----|-------|------|-------|-------|------|-----|-------|----|
| 1050032020 | 32 | 34.0 | 10.0 | 41.0 | 68.0 | 16.0 | 3.0 | 0.053 | 1 |
| 1050040021 | 40 | 35.5 | 11.0 | 50.0 | 78.0 | 15.0 | 3.0 | 0.071 | 1 |
| 1050050022 | 50 | 39.5 | 12.0 | 61.0 | 88.0 | 16.0 | 3.0 | 0.071 | 1 |
| 1050063023 | 63 | 43.5 | 14.0 | 76.0 | 102.0 | 16.0 | 3.0 | 0.112 | 1 |
| 1050075024 | 75 | 46.0 | 16.0 | 90.0 | 122.0 | 16.0 | 3.0 | 0.169 | 1 |
| 1050090025 | 90 | 50.0 | 17.0 | 108.0 | 138.0 | 17.0 | 3.0 | 0.261 | 1 |
| 1050110026 | 110 | 55.5 | 18.5 | 131.0 | 158.0 | 18.5 | 3.0 | 0.329 | 1 |
| 1050125028 | 125 | 63.0 | 20.0 | 165.0 | 188.0 | 23.0 | 3.0 | 0.724 | 1 |
| 1050125027 * | 125 | 195.0 | 18.5 | 131.0 | 158.0 | - | 3.0 | 1.180 | 1 |

*only use with fitting 125 mm; with 110 mm flange adapter / Suitable flange adapter for shut off valves are available on request.



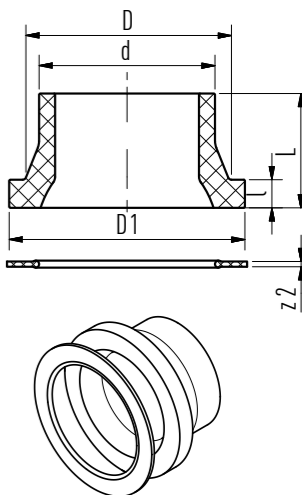
Flange adapter butt welding

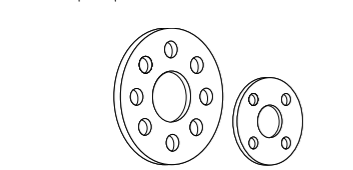
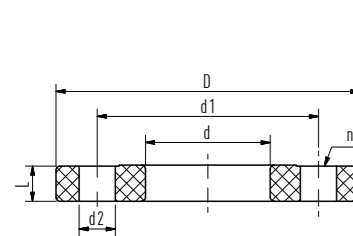
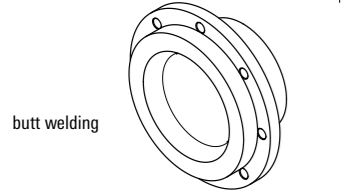
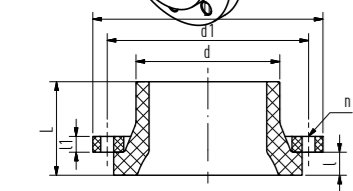
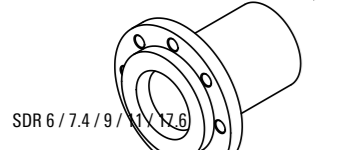
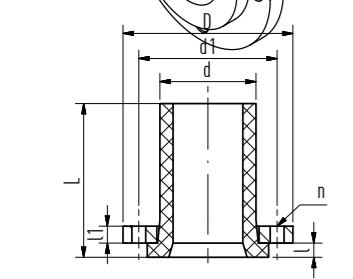
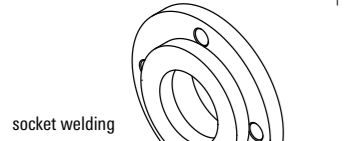
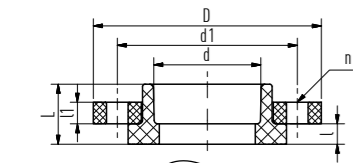
with gasket

Material: fusiolen® PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | D | D1 | L | z2 | kg | PU |
|-------------|-----|------|-------|-------|-------|-----|--------|----|
| SDR 11 | | | | | | | | |
| 1054160030 | 160 | 25.0 | 175.0 | 212.0 | 93.0 | 3.0 | 0.955 | 1 |
| 1054200032 | 200 | 32.0 | 232.0 | 268.0 | 130.0 | 6.0 | 1.957 | 1 |
| 1054250034 | 250 | 35.0 | 285.0 | 320.0 | 130.0 | 6.0 | 2.717 | 1 |
| 1054315035 | 315 | 35.0 | 335.0 | 370.0 | 168.0 | 6.0 | 6.000 | 1 |
| 1054355036 | 355 | 40.0 | 373.0 | 430.0 | 180.0 | 6.0 | 7.930 | 1 |
| 1054400037 | 400 | 46.0 | 427.0 | 482.0 | 195.0 | 6.0 | 12.000 | 1 |
| 1054450038 | 450 | 60.0 | 514.0 | 585.0 | 139.0 | 7.0 | 15.200 | 1 |
| SDR 17.6 | | | | | | | | |
| 2057160100 | 160 | 18.0 | 175.0 | 212.0 | 80.0 | 3.0 | 0.821 | 1 |
| 2057200101 | 200 | 32.0 | 232.0 | 268.0 | 130.0 | 6.0 | 1.849 | 1 |
| 2057250102 | 250 | 35.0 | 285.0 | 320.0 | 130.0 | 6.0 | 2.736 | 1 |
| 2057315103 | 315 | 25.0 | 335.0 | 370.0 | 168.0 | 6.0 | 4.500 | 1 |
| 2057355104 | 355 | 30.0 | 373.0 | 430.0 | 184.0 | 6.0 | 7.000 | 1 |
| 2057400105 | 400 | 33.0 | 427.0 | 482.0 | 195.0 | 6.0 | 7.360 | 1 |
| 2057450106 | 450 | 46.0 | 514.0 | 585.0 | 142.0 | 7.0 | 10.400 | 1 |
| 2057500107 | 500 | 46.0 | 530.0 | 585.0 | 138.0 | 7.0 | 8.700 | 1 |
| 2057630108 | 630 | 50.0 | 642.0 | 685.0 | 140.0 | 7.0 | 12.530 | 1 |

Up to 160 mm EPDM-gasket without steel ring insert. From 200 mm EPDM-gasket with steel ring insert. Suitable flange adapter for shut off valves available on request.





Flange adapter incl. Flange PN6
without gasket

Material: Flange: steel galvanised,
Flange adapter: fusiolen® PP-R
Standards: Flange according to DIN 2641
Colour: Flange: black / Flange adapter: green

| Article no. | d | D | d1 | l | l1 | L | n | kg | PU |
|--|-----|-------|-------|------|------|-------|---|-------|----|
| SDR 6 / 7.4 / 9 / 11 / 17.6 — socket welding | | | | | | | | | |
| 1050032001 | 32 | 100.0 | 75.0 | 10.0 | 10.0 | 34.0 | 4 | 1.090 | 1 |
| 1050040002 | 40 | 120.0 | 90.0 | 11.0 | 10.0 | 35.5 | 4 | 1.170 | 1 |
| 1050050003 | 50 | 130.0 | 100.0 | 12.0 | 10.0 | 39.5 | 4 | 1.360 | 1 |
| 1050063004 | 63 | 140.0 | 110.0 | 14.0 | 10.0 | 43.5 | 4 | 0.886 | 1 |
| 1050075005 | 75 | 160.0 | 130.0 | 16.0 | 10.0 | 46.0 | 4 | 1.148 | 1 |
| 1050090006 | 90 | 190.0 | 150.0 | 17.0 | 10.0 | 50.0 | 4 | 1.618 | 1 |
| 1050110007 | 110 | 210.0 | 170.0 | 18.5 | 10.0 | 55.5 | 4 | 1.824 | 1 |
| 1050125009 | 125 | 240.0 | 200.0 | 20.0 | 12.0 | 63.0 | 4 | 3.945 | 1 |
| SDR 6 / 7.4 / 9 / 11 / 17.6 | | | | | | | | | |
| 1050125008 * | 125 | 210.0 | 170.0 | 18.5 | 10.0 | 195.0 | 8 | 2.715 | 1 |
| SDR 11 — butt welding | | | | | | | | | |
| 1050160010 | 160 | 265.0 | 225.0 | 25.0 | 12.0 | 93.0 | 8 | 4.136 | 1 |
| 1050200011 | 200 | 320.0 | 280.0 | 32.0 | 12.0 | 130.0 | 8 | 6.694 | 1 |
| 1050250012 | 250 | 375.0 | 335.0 | 35.0 | 12.0 | 130.0 | 8 | 9.500 | 1 |

d = Connection dimension, d1 = hole-circle, PN 6 = Flange according to DIN 2641
*125 mm Fitting with 110 mm, flange adapter incl. flange PN6 use only in combination with a fitting

Plastic coated steel flange

SDR 6 / 7.4 / 9 / 11 / 17.6

Material: PP / steel
Standards: Flange according to
DIN EN 1092, DIN 2501
Colour: grey
kg PU

| Article no. | fitting Art. no. | Ø | DN | d | d1 | D | d2 | L | n | kg | PU |
|---------------|--------------------------|-----|-----|-------|-------|-------|------|------|----|--------|----|
| 1040032130 | 1050032020 | 32 | 25 | 42.0 | 85.0 | 116.0 | 14.0 | 15.5 | 4 | 0.469 | 1 |
| 1040040131 | 1050040021 | 40 | 32 | 51.0 | 100.0 | 141.0 | 18.0 | 17.5 | 4 | 0.722 | 1 |
| 1040050132 | 1050050022 | 50 | 40 | 62.0 | 110.0 | 151.0 | 18.0 | 17.5 | 4 | 0.770 | 1 |
| 1040063133 | 1050063023 | 63 | 50 | 78.0 | 125.0 | 166.0 | 18.0 | 19.0 | 4 | 0.911 | 1 |
| 1040075134 | 1050075024 | 75 | 65 | 92.0 | 145.0 | 186.0 | 18.0 | 19.0 | 4 | 1.132 | 1 |
| 1040090135 | 1050090025 | 90 | 80 | 110.0 | 160.0 | 201.0 | 18.0 | 21.0 | 8 | 1.356 | 1 |
| 1040110136 | 1050110026 1050125027 | 110 | 100 | 133.0 | 180.0 | 221.0 | 18.0 | 22.0 | 8 | 1.475 | 1 |
| 1040125137 | 1050125028 (125 mm) | 125 | 125 | 167.0 | 210.0 | 251.0 | 18.0 | 26.0 | 8 | 2.082 | 1 |
| 1040160138 | 1052160029 1054160030 | 160 | 150 | 178.0 | 240.0 | 286.0 | 22.0 | 27.0 | 8 | 3.671 | 1 |
| 1040200139 * | 1052200031 1054200032 | 200 | 200 | 235.0 | 295.0 | 341.0 | 22.0 | 28.0 | 8 | 4.709 | 1 |
| 1040250140 * | 1052250033 1054250034 | 250 | 250 | 288.0 | 350.0 | 406.0 | 22.0 | 31.0 | 12 | 7.094 | 1 |
| 1040315141 * | 1054315035 | 315 | 300 | 340.0 | 400.0 | 460.0 | 22.0 | 33.5 | 12 | 9.500 | 1 |
| 1040355142 * | 1054355036 | 355 | 350 | 376.0 | 460.0 | 520.0 | 22.0 | 39.0 | 16 | 15.300 | 1 |
| 1040400143 * | 2057400105 | 400 | 400 | 430.0 | 515.0 | 565.0 | 26.0 | 34.0 | 16 | 19.680 | 1 |
| 1040450144 ** | 2057450106 | 450 | 500 | 517.0 | 620.0 | 670.0 | 26.0 | 42.0 | 20 | 22.880 | 1 |
| 1040500145 ** | 2057500107 | 500 | 500 | 533.0 | 620.0 | 670.0 | 26.0 | 38.0 | 20 | 19.000 | 1 |
| 1040630146 ** | 2057630108 | 630 | 600 | 645.0 | 725.0 | 785.0 | 30.0 | 40.0 | 20 | 25.800 | 1 |

d = Connection dimension, d1 = hole-circle, PN10/16= Flange according to DIN EN1092, DIN2501
*Flange PN16 200 – 630 mm (Art. no. 9700015934–9700015954) available on request.
**Material: steel/epoxy

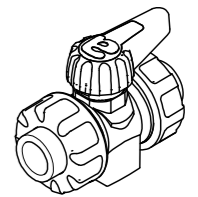
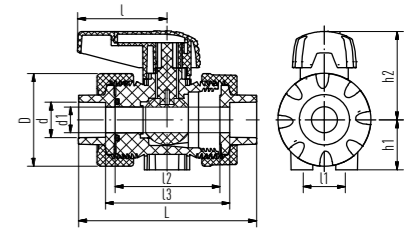
PP-ball valve, with union nut and welding socket

SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R
Colour: green

| Article no. | d | d1 | D | h1 | h2 | l1 | l2 | l3 | L | l | kg | PU |
|-------------|----|------|-------|------|-------|------|-------|-------|-------|-------|-------|----|
| 1090020052 | 20 | 13.5 | 50.3 | 27.0 | 48.0 | 25.0 | 56.5 | 68.0 | 97.0 | 48.0 | 0.118 | 1 |
| 1090025053 | 25 | 18.5 | 59.0 | 30.0 | 56.5 | 25.0 | 65.5 | 78.0 | 110.0 | 59.0 | 0.184 | 1 |
| 1090032054 | 32 | 23.9 | 70.3 | 40.0 | 64.5 | 26.0 | 72.0 | 84.5 | 120.5 | 59.0 | 0.274 | 1 |
| 1090040055 | 40 | 31.0 | 85.9 | 46.0 | 83.3 | 45.0 | 85.0 | 100.0 | 141.0 | 63.5 | 0.483 | 1 |
| 1090050056 | 50 | 38.5 | 99.5 | 55.0 | 89.4 | 45.0 | 89.0 | 107.0 | 154.0 | 63.5 | 0.648 | 1 |
| 1090063057 | 63 | 50.0 | 125.5 | 70.0 | 115.0 | 45.0 | 101.0 | 118.0 | 173.0 | 108.0 | 1.206 | 1 |

Also suitable for vacuum pipes.



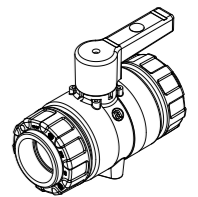
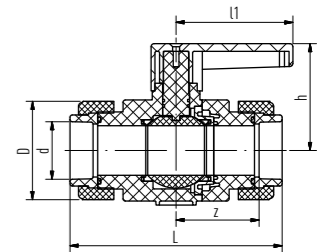
PP-ball valve, with union nut and welding socket

SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R
Colour: green

| Article no. | d | D | h | l | l1 | L | z | kg | PU |
|-------------|----|-------|-------|-------|-------|-------|-------|-------|----|
| 1090075051 | 75 | 129.0 | 139.0 | 138.0 | 152.0 | 276.0 | 108.0 | 2.441 | 1 |

Also suitable for vacuum pipes.



PP-ball valve, with flange connection on both sides

SDR 6 / 7.4 / 9 / 11 / 17.6

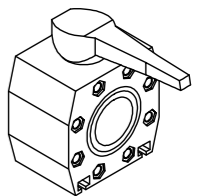
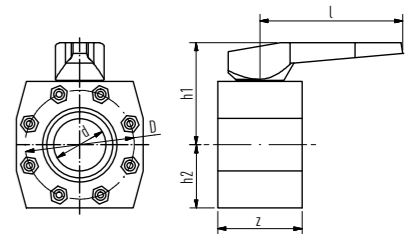
Material: fusiolen® PP-R
Colour: green

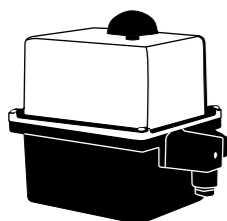
| Article no. | for Ø | d | l | D | z | h1 | h2 | kg | PU |
|-------------|-------|-------|-------|-------|-------|-------|-------|--------|----|
| 1090090058 | 90 | 77.0 | 210.0 | 160.0 | 124.0 | 150.0 | 93.0 | 4.196 | 1 |
| 1090110059 | 110 | 94.0 | 260.0 | 180.0 | 145.0 | 165.0 | 103.0 | 5.612 | 1 |
| 1090160060 | 160 | 135.0 | 310.0 | 240.0 | 205.0 | 210.0 | 136.5 | 13.420 | 1 |

Also suitable for vacuum pipes.

For dimension 125 mm the PP-ball valve Art. no. 1090110059 with flange adapter Art. no. 1050125027 and flange Art. no. 1040110136 is used. For connection with aquatherm green weldable flange adapter (Art. no. 3050090006 – 1054160030) and aquatherm green plastic coated steel flange (Art. no. 1040090135 – 1040160138). Hexagon screw M 16x60 mm for Art. no. 1090090058/1090110059 Hexagon screw M 20x80 mm for Art. no. 1090110059 corresponding flat washer M 16.

NOTICE: These are not included in the above articles.



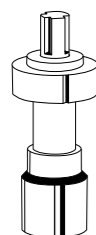


Electrical drive for ball valve

for article no. 1090020052 – 1090063057 (*for article no. 1090090058 – 1090110059)

Colour: black / red

| Article no. | Dimension | for Article no. | kg | PU |
|--------------|-----------|-------------------------------|-------|----|
| 230 Volt | | | | |
| 9700041489 | 20 | incl. fixtures for 1090020052 | 1.500 | 1 |
| 9700041491 | 25 | incl. fixtures for 1090025053 | 1.600 | 1 |
| 9700041493 | 32 | incl. fixtures for 1090032054 | 1.600 | 1 |
| 9700041495 | 40 | incl. fixtures for 1090040055 | 1.600 | 1 |
| 9700041497 | 50 | incl. fixtures for 1090050056 | 1.700 | 1 |
| 9700041499 | 63 | incl. fixtures for 1090063057 | 1.700 | 1 |
| 9700041603 * | 90 | incl. fixtures for 1090090058 | 3.300 | 1 |
| 9700041605 * | 110 | incl. fixtures for 1090110059 | 3.400 | 1 |
| 9700041608 * | 160 | incl. fixtures for 1090160060 | 3.700 | 1 |
| 24 Volt | | | | |
| 9700041589 | 20 | incl. fixtures for 1090020052 | 1.500 | 1 |
| 9700041591 | 25 | incl. fixtures for 1090025053 | 1.600 | 1 |
| 9700041593 | 32 | incl. fixtures for 1090032054 | 1.600 | 1 |
| 9700041595 | 40 | incl. fixtures for 1090040055 | 1.600 | 1 |
| 9700041597 | 50 | incl. fixtures for 1090050056 | 1.700 | 1 |
| 9700041599 | 63 | incl. fixtures for 1090063057 | 1.700 | 1 |
| 9700041703 * | 90 | incl. fixtures for 1090090058 | 3.300 | 1 |
| 9700041705 * | 110 | incl. fixtures for 1090110059 | 3.400 | 1 |
| 9700041708 * | 160 | incl. fixtures for 1090160059 | 3.700 | 1 |

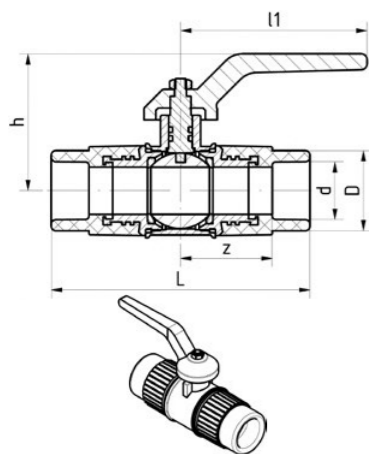


Extension for ball valve

for article no. 1090020052– 1090160060

Material: PVC
Colour: grey

| Article no. | l | kg | PU |
|-------------|-----|-------|----|
| 9700098900 | 100 | 0.020 | 1 |
| 9700098901 | 100 | 0.025 | 1 |
| 9700098902 | 100 | 0.030 | 1 |
| 9700098903 | 100 | 0.125 | 1 |



Ball valve PP/brass

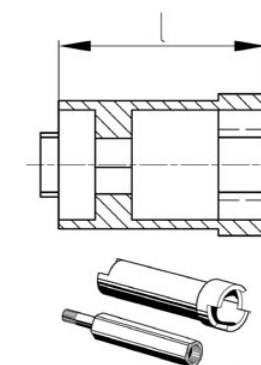
| Article no. | d | l1 | D | L | h | z | kg | PU |
|-------------|----|-------|------|-------|-------|------|-------|----|
| 1050020174 | 20 | 79.0 | 29.5 | 11.0 | 56.00 | 40.5 | 0.280 | 1 |
| 1050025175 | 25 | 79.0 | 34.0 | 11.0 | 58.00 | 39.0 | 0.375 | 1 |
| 1050032176 | 32 | 103.0 | 43.0 | 127.0 | 66.00 | 45.5 | 0.592 | 1 |
| 1050040177 | 40 | 104.0 | 52.0 | 145.0 | 71.00 | 52.0 | 1.015 | 1 |
| 1050050178 | 50 | 14.0 | 68.0 | 167.0 | 79.00 | 6.0 | 1.689 | 1 |
| 1050063179 | 63 | 14.0 | 84.0 | 205.0 | 88.00 | 75.0 | 2.874 | 1 |

Material: fusiolen® PP-R, brass green
Colour:

Extension for aquatherm green ball valve

Material: brass
Colour: chrome

| Article no. | l | for | kg | PU |
|-------------|------|-----------------------|-------|----|
| 1050000180 | 35.0 | 1050020174-1050025175 | 0.120 | 1 |
| 1050000181 | 35.0 | 1050032176-1050040177 | 0.120 | 1 |
| 1050000182 | 46.0 | 1050050178-1050063179 | 0.273 | 1 |

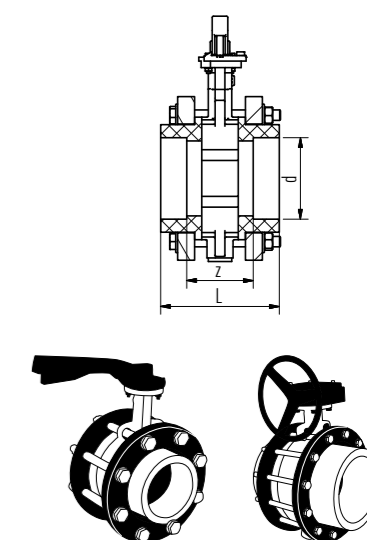


aquatherm blue shut-off valve

with lever or with drive

Material: fusiolen® PP-R, steel blue
Colour:

| Article no. | d | L | z | kg | PU |
|---|-----|-------|-------|--------|----|
| with lever or with drive for SDR 6 / 7.4 / 9 / 11 / 17.6 — socket welding | | | | | |
| 9702041820 | 75 | 138.0 | 78.0 | 6.763 | 1 |
| 9702041822 | 90 | 146.0 | 80.0 | 9.134 | 1 |
| 9702041824 | 110 | 163.0 | 89.0 | 10.400 | 1 |
| 9702041826 | 125 | 184.0 | 104.0 | 15.600 | 1 |
| with lever or with drive for SDR 11 — butt welding | | | | | |
| 9702041830 | 160 | 242.0 | 227.0 | 22.000 | 1 |
| with lever or with drive for SDR 17.6 | | | | | |
| 9702541830 | 160 | 242.0 | 227.0 | 21.700 | 1 |
| with drive for SDR 11 | | | | | |
| 9702041834 | 200 | 320.0 | 305.0 | 41.400 | 1 |
| 9702041838 | 250 | 328.0 | 313.0 | 59.200 | 1 |
| 9702041842 | 315 | 432.0 | 412.0 | 81.800 | 1 |
| with drive for SDR 17.6 | | | | | |
| 9702541834 | 200 | 320.0 | 305.0 | 40.900 | 1 |
| 9702541838 | 250 | 328.0 | 313.0 | 58.400 | 1 |
| 9702541842 | 315 | 432.0 | 412.0 | 78.600 | 1 |

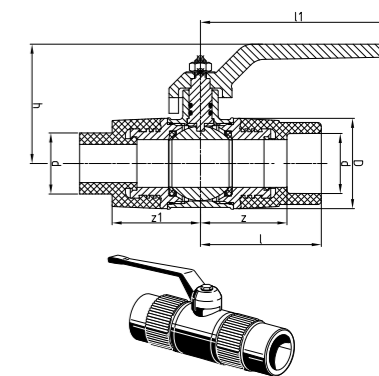


Ball valve for manifold

female/male, socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass green
Colour:

| Article no. | d | l | l1 | D | z | z1 | H | kg | PU |
|-------------|----|------|-------|------|------|------|------|-------|----|
| 1050032189 | 32 | 63.0 | 108.0 | 47.5 | 45.0 | 46.5 | 78.0 | 0.575 | 2 |

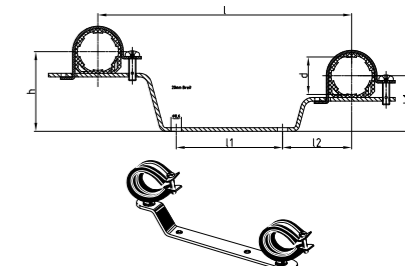


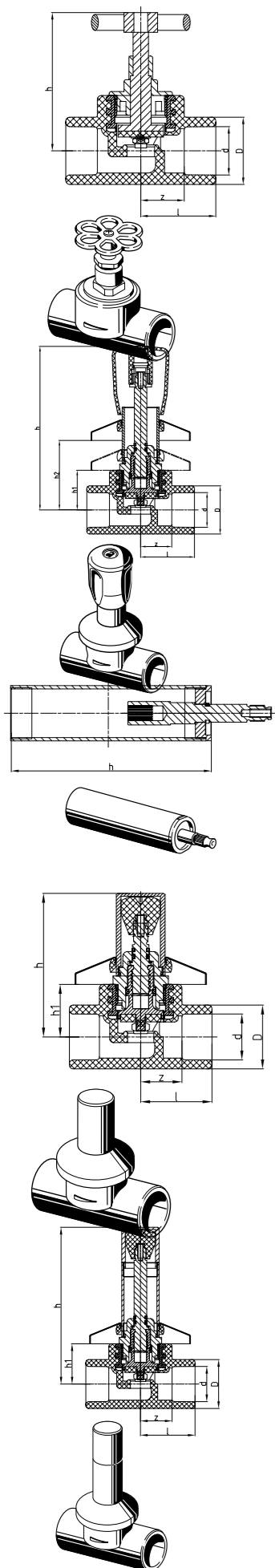
Supporting strap for four-port manifold

with clamps, galvanised, double

Material: steel/galvanised zinc
Colour:

| Article no. | d | l | l1 | l2 | h | h1 | kg | PU |
|-------------|----|-------|------|------|------|------|-------|----|
| 9600060210 | 32 | 210.0 | 80.0 | 57.0 | 66.0 | 46.0 | 0.226 | 2 |





Globe valve

for surface installation, socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Colour: green

| Article no. | d | l | D | z | h | kg | PU |
|-------------|----|------|------|------|-------|-------|----|
| 1090020040 | 20 | 35.0 | 29.5 | 20.5 | 75.3 | 0.165 | 1 |
| 1090025041 | 25 | 38.0 | 34.0 | 22.0 | 75.0 | 0.172 | 1 |
| 1090032042 | 32 | 49.0 | 43.0 | 31.0 | 97.0 | 0.314 | 1 |
| 1090040043 | 40 | 60.0 | 52.0 | 39.5 | 111.5 | 0.585 | 1 |

Concealed valve, chromium plated

socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Colour: green

| Article no. | d | l | D | z | h | h1 | H2 | kg | PU |
|-------------|----|------|------|------|-------|------|------|-------|----|
| 1050020150 | 20 | 35.0 | 29.5 | 20.5 | 116.0 | 28.0 | 59.0 | 0.319 | 1 |
| 1050025151 | 25 | 38.0 | 34.0 | 22.0 | 116.0 | 28.0 | 59.0 | 0.330 | 1 |
| 1050032152 | 32 | 49.0 | 43.0 | 31.0 | 121.0 | 34.0 | 59.0 | 0.416 | 1 |

Extension for concealed valve

chromium-plated for art. no. 1050020150-1050032152

Material: brass
Colour: chrome

| Article no. | H | kg | PU |
|-------------|-------|-------|----|
| 9600040900 | 92.0 | 0.148 | 1 |
| 9600040902 | 132.0 | 0.209 | 1 |

Concealed valve, tamper proof

chromium-plated / short design, socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Colour: green, chrome

| Article no. | d | l | D | z | h | h1 | kg | PU |
|-------------|----|------|------|------|------|------|-------|----|
| 1050020153 | 20 | 35.0 | 29.5 | 20.5 | 71.5 | 28.0 | 0.258 | 1 |
| 1050025154 | 25 | 38.0 | 34.0 | 22.0 | 72.0 | 28.0 | 0.288 | 1 |
| 1050032155 | 32 | 49.0 | 43.0 | 31.0 | 82.5 | 34.0 | 0.376 | 1 |

Concealed valve, tamper proof

chromium-plated / long design, socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Colour: green, chrome

| Article no. | d | l | D | z | h | h1 | kg | PU |
|-------------|----|------|------|------|-------|------|-------|----|
| 1050020159 | 20 | 35.0 | 29.5 | 20.5 | 109.0 | 28.0 | 0.342 | 1 |
| 1050025160 | 25 | 38.0 | 34.0 | 22.0 | 109.0 | 28.0 | 0.350 | 1 |
| 1050032161 | 32 | 49.0 | 43.0 | 31.0 | 115.0 | 34.0 | 0.432 | 1 |

Concealed valve, construction depth 55–100 mm

suitable for construction depth 55 mm to 100 mm, socket welding SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Colour: green, chrome

| Article no. | d | l | D | z | h | h1 | h2 | kg | PU |
|-------------|----|------|------|------|-------|------|-------|-------|----|
| 1050020156 | 20 | 35.0 | 29.5 | 20.5 | 213.0 | 59.0 | 147.0 | 0.357 | 1 |
| 1050025157 | 25 | 38.0 | 34.0 | 22.0 | 213.0 | 59.0 | 147.0 | 0.369 | 1 |
| 1050032158 | 32 | 49.0 | 43.0 | 31.0 | 219.0 | 65.0 | 153.0 | 0.455 | 1 |

Stop valve body

socket welding

Material: fusiolen® PP-R / brass
Colour: green

| Article no. | d | l | D | D1 | z | h | R | kg | PU |
|-------------|----|------|------|------|------|------|--------|-------|----|
| 1090020046 | 20 | 35.0 | 29.5 | 44.0 | 20.0 | 28.0 | 3/4" | 0.082 | 1 |
| 1090025047 | 25 | 38.0 | 34.0 | 44.0 | 22.0 | 28.0 | 3/4" | 0.101 | 1 |
| 1090032048 | 32 | 49.0 | 43.0 | 52.0 | 31.0 | 34.0 | 1" | 0.146 | 1 |
| 1090040049 | 40 | 60.0 | 52.0 | 69.0 | 39.5 | 41.0 | 1 1/4" | 0.313 | 1 |

Inclined valve

without drain, socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Colour: green

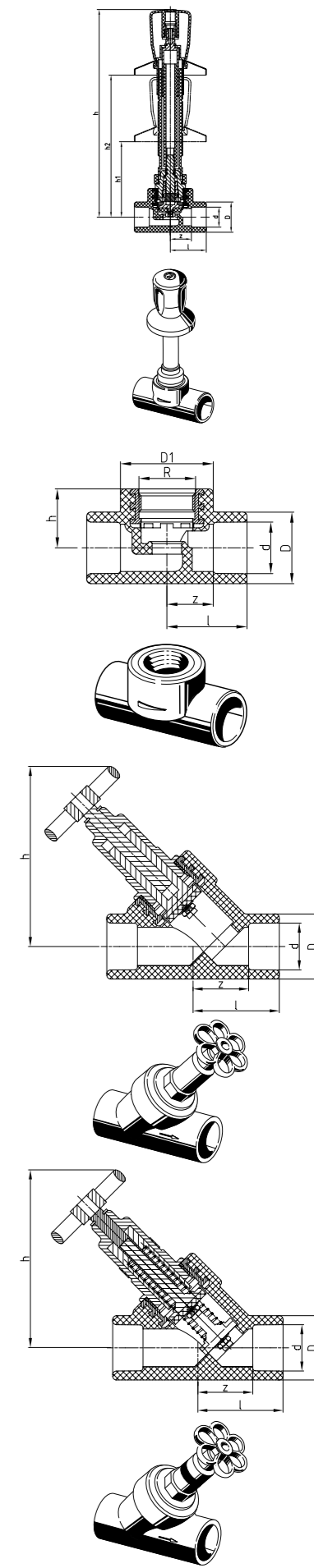
| Article no. | d | l | D | z | h | kg | PU |
|-------------|----|------|------|------|-------|-------|----|
| 1050020162 | 20 | 45.0 | 34.0 | 30.5 | 95.5 | 0.294 | 1 |
| 1050025163 | 25 | 45.0 | 34.0 | 29.0 | 95.5 | 0.283 | 1 |
| 1050032164 | 32 | 56.0 | 43.0 | 38.0 | 111.5 | 0.421 | 1 |
| 1050040165 | 40 | 65.0 | 52.0 | 44.5 | 135.0 | 0.834 | 1 |

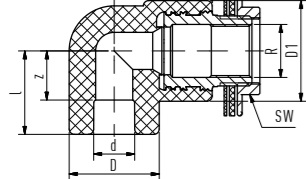
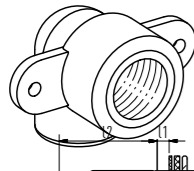
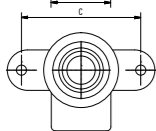
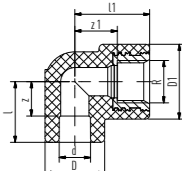
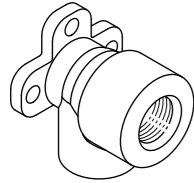
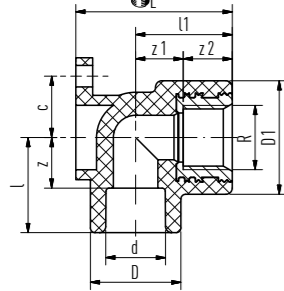
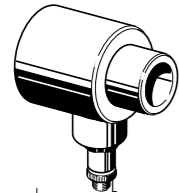
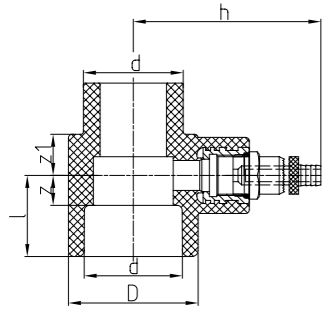
Non-return valve

without drain, socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Colour: green

| Article no. | d | l | D | z | h | kg | PU |
|-------------|----|------|------|------|-------|-------|----|
| 1050020170 | 20 | 45.0 | 34.0 | 30.5 | 95.5 | 0.297 | 1 |
| 1050025171 | 25 | 45.0 | 34.0 | 29.0 | 95.5 | 0.292 | 1 |
| 1050032172 | 32 | 56.0 | 43.0 | 38.0 | 111.5 | 0.432 | 1 |
| 1050040173 | 40 | 65.0 | 52.0 | 44.5 | 135.0 | 0.840 | 1 |





Draining branch

to weld in aquatherm green valves, socket welding
SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Colour: green

| Article no. | d | l | D | z | z1 | h | kg | PU |
|-------------|----|------|------|------|------|------|-------|----|
| 1050020183 | 20 | 26.0 | 34.0 | 11.5 | 16.5 | 71.0 | 0.098 | 1 |
| 1050025184 | 25 | 26.0 | 34.0 | 10.0 | 16.5 | 71.0 | 0.096 | 1 |
| 1050032185 | 32 | 32.0 | 43.0 | 14.0 | 17.0 | 74.5 | 0.118 | 1 |
| 1050040186 | 40 | 32.5 | 52.0 | 12.0 | 16.5 | 80.5 | 0.140 | 1 |
| 1050050187 | 50 | 39.0 | 68.0 | 15.5 | 17.0 | 88.0 | 0.202 | 1 |
| 1050063188 | 63 | 44.0 | 84.0 | 16.5 | 16.5 | 96.0 | 0.288 | 1 |

Back plate elbow

brass (*stainless steel), socket welding — SDR 6 / 7.4 / 11

Material: fusiolen® PP-R / brass or stainless steel
Standards: DIN 1692, DIN EN ISO 15874
Colour: green

| Article no. | d | R | l | l1 | D | D1 | L | z | z1 | z2 | c | kg | PU |
|--------------|----|------|------|------|------|------|------|------|------|------|------|-------|----|
| 1040020151 | 20 | 1/2" | 31.0 | 31.5 | 29.5 | 37.0 | 51.0 | 16.5 | 18.5 | 13.0 | 20.0 | 0.079 | 10 |
| 1040020152 | 20 | 3/4" | 37.0 | 37.0 | 34.0 | 44.0 | 54.0 | 22.5 | 24.0 | 13.0 | - | 0.106 | 10 |
| 1040025153 | 25 | 3/4" | 37.0 | 37.0 | 34.0 | 44.0 | 54.0 | 21.0 | 24.0 | 13.0 | - | 0.105 | 10 |
| 1040025154 | 25 | 1/2" | 33.5 | 31.0 | 34.0 | 37.0 | 53.0 | 17.5 | 18.0 | 13.0 | 20.0 | 0.080 | 10 |
| 1090020070 * | 20 | 1/2" | 31.0 | 31.5 | 29.5 | 37.0 | 51.0 | 16.5 | 18.5 | 13.0 | 20.0 | 0.084 | 10 |
| 1090020071 * | 20 | 3/4" | 37.0 | 37.0 | 34.0 | 44.0 | 54.0 | 22.5 | 24.0 | 13.0 | - | 0.101 | 10 |
| 1090025072 * | 25 | 3/4" | 37.0 | 37.0 | 34.0 | 44.0 | 54.0 | 21.0 | 24.0 | 13.0 | - | 0.111 | 10 |
| 1090025073 * | 25 | 1/2" | 33.5 | 31.0 | 34.0 | 37.0 | 53.0 | 17.5 | 18.0 | 13.0 | 20.0 | 0.076 | 10 |

*stainless steel

Back plate elbow for dry construction

brass (*stainless steel), socket welding — SDR 6 / 7.4 / 11

Material: fusiolen® PP-R / brass or stainless steel
Standards: DIN 16962, DIN EN ISO 15874
Colour: green or stainless steel

| Article no. | d | l | l1 | D | D1 | z | z1 | R | kg | PU |
|--------------|----|------|------|------|------|------|------|------|-------|----|
| 1040020156 | 20 | 30.0 | 37.0 | 29.5 | 37.0 | 15.5 | 24.0 | 1/2" | 0.079 | 10 |
| 1090020074 * | 20 | 30.0 | 37.0 | 29.5 | 37.0 | 15.5 | 24.0 | 1/2" | 0.078 | 10 |

*stainless steel

Transition piece with counter nut

with gasket and tension washer, socket welding — SDR 6 / 7.4 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | l2 | D | D1 | z | R | SW | kg | PU |
|-------------|----|------|-----|------|------|------|------|------|----|-------|----|
| 1050020062 | 20 | 37.0 | 3.5 | 35.0 | 29.5 | 44.0 | 22.5 | 1/2" | 29 | 0.154 | 10 |
| 1050025063 | 25 | 37.0 | 3.5 | 37.0 | 34.0 | 44.0 | 21.0 | 1/2" | 29 | 0.206 | 10 |

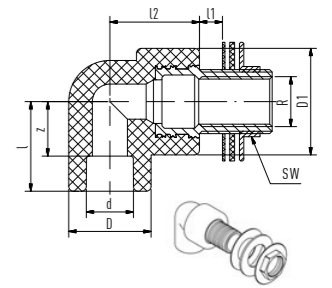
Transition elbow for plasterboard

socket welding, SDR 6 / 7.4 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | l2 | D | D1 | z | R | SW | kg | PU |
|-------------|----|------|------|------|------|------|------|------|----|-------|----|
| 1050020064 | 20 | 37.0 | 18.5 | 35.0 | 29.5 | 44.0 | 22.5 | 1/2" | 29 | 0.223 | 10 |

with 30 mm thread, counter nut, gasket and tension washer

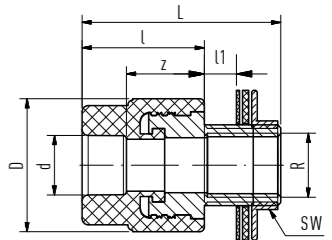


Transition piece with counter nut

with gasket and tension washer, socket welding — SDR 6 / 7.4 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

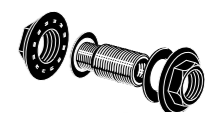
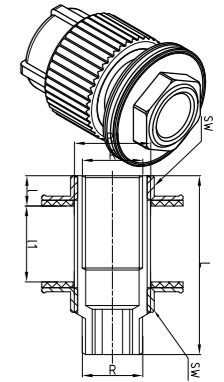
| Article no. | d | l | l1 | D | L | z | R | SW | kg | PU |
|-------------|----|------|------|------|------|------|------|----|-------|----|
| 1050020060 | 20 | 40.0 | 13.5 | 43.5 | 65.0 | 25.5 | 1/2" | 29 | 0.204 | 10 |



Dry construction wall fitting

Material: brass

| Article no. | R | R1 | l | l1 | L | SW | kg | PU |
|-------------|------|------|------|------|------|----|-------|----|
| 9600020114 | 1/2" | 3/4" | 10.5 | 26.0 | 62.0 | 30 | 0.213 | 10 |

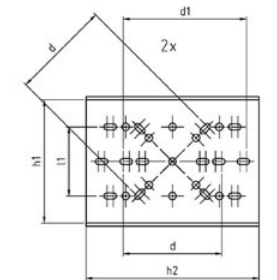
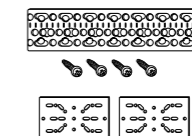
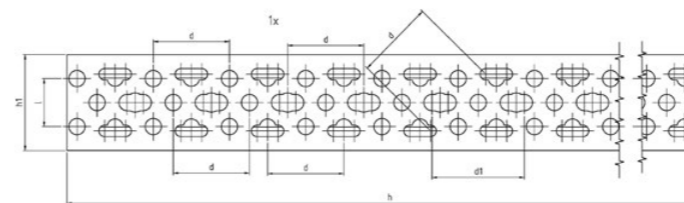


Mounting plate galvanised

Material: iron / galvanised

to fix back plate elbows as double connection including 2 fixing plates and 4 screws

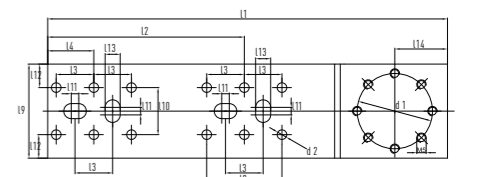
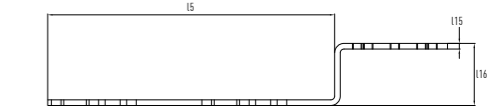
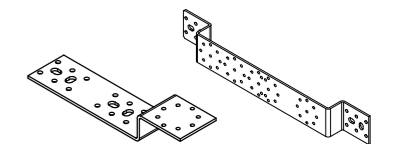
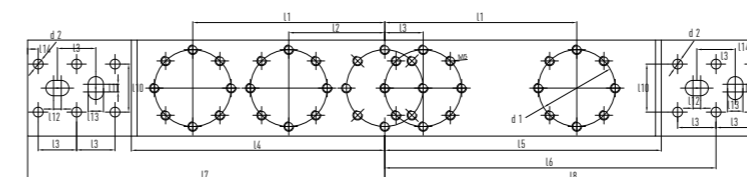
| Article no. | d | d1 | l | l1 | h | h1 | h2 | kg | PU |
|-------------|----|------|----|------|-----|----|----|-------|----|
| 7050000016 | 40 | 50.0 | 25 | 28.0 | 560 | 50 | 70 | 0.546 | 1 |

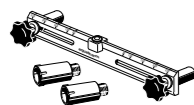
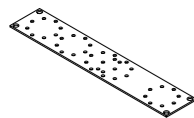
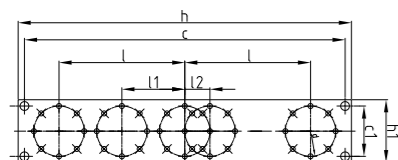


Mounting rail (double and single)

Material: iron / galvanised

| Article no. | d1 | d2 | kg | PU |
|-------------|------|-----|-------|----|
| 7050000017 | 40.0 | 5.1 | 0.412 | 2 |
| 7050000018 | 40.0 | 5.1 | 0.235 | 2 |





Mounting plate galvanised

to fix back plate elbows as double connection

Material: Iron / galvanised

| Article no. | d | l | l1 | l2 | c | c1 | h | h1 | kg | PU |
|-------------|----|-----|------|------|-----|----|-----|----|-------|----|
| 7050000020 | 40 | 100 | 50.0 | 20.0 | 255 | 40 | 265 | 50 | 0.221 | 1 |

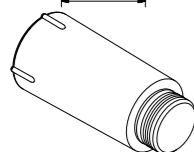
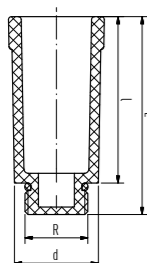
not suitable for connection with sound insulation plate (art. no. 7020000015). We recommend mounting rail art. no. 7050000016

Assembling jig

as water level with 2 plugs 1/2"

Material: fusiolen® PP-R
Colour: green

| Article no. | kg | PU |
|-------------|-------|----|
| 9800050700 | 0.252 | 1 |

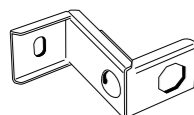
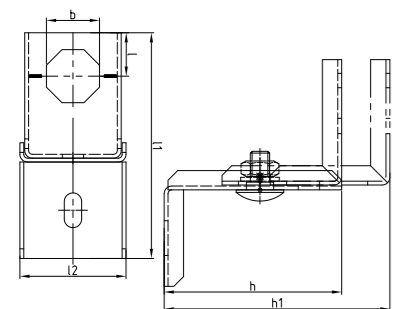


Plug for pressure tests

with gasket

Material: fusiolen® PP-R
Colour: green

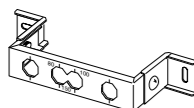
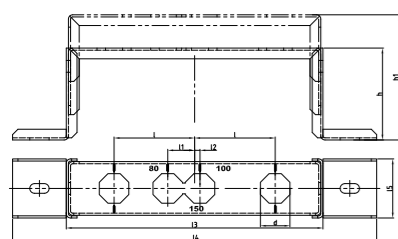
| Article no. | d | l | L | R | kg | PU |
|-------------|----|------|------|------|-------|----|
| 9800050708 | 28 | 55.5 | 66.0 | 1/2" | 0.022 | 10 |
| 9800050710 | 34 | 55.5 | 66.0 | 3/4" | 0.027 | 10 |



Mounting unit, single

Material: Iron / galvanised

| Article no. | B | l | l1 | l2 | h | h1 | kg | PU |
|-------------|------|-----|------|------|------|-------|-------|----|
| 7050000002 | 27.5 | 118 | 22.5 | 55.0 | 92.5 | 122.5 | 0.278 | 1 |



Mounting unit, double

Material: Iron / galvanised

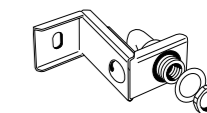
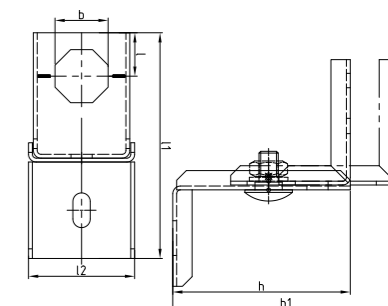
| Article no. | b | l | l1 | l2 | h | h1 | l3 | l4 | l5 | kg | PU |
|-------------|------|----|------|-----|------|-------|-------|-----|----|-------|----|
| 7050000001 | 27.5 | 75 | 25.0 | 5.0 | 92.5 | 122.5 | 239.0 | 339 | 55 | 0.630 | 1 |

Mounting unit with one aquatherm green transition elbow

with one aquatherm green transition elbow, with counternut, gasket and tension washer

Material: fusiolen® PP-R / brass, Iron / galvanised

| Article no. | b | l | l1 | l2 | h | h1 | kg | PU |
|-------------|------|------|-------|------|------|-------|-------|----|
| 7050000004 | 27.5 | 22.5 | 118.0 | 55.0 | 92.5 | 122.5 | 0.434 | 1 |

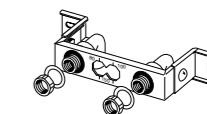
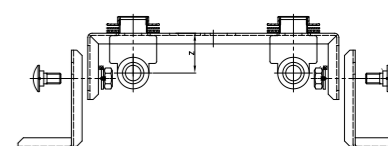


Mounting unit with two aquatherm green transition elbows

with two aquatherm green transition elbows, with counternut, gasket and tension washer

Material: fusiolen® PP-R / brass, Iron / galvanised

| Article no. | b | l | l1 | l2 | h | h1 | l3 | l4 | l5 | kg | PU |
|-------------|------|----|------|-----|------|-------|-------|-----|----|-------|----|
| 7050000003 | 27.5 | 75 | 25.0 | 5.0 | 92.5 | 122.5 | 239.0 | 339 | 55 | 0.942 | 1 |



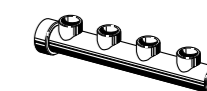
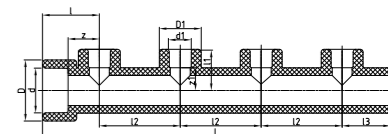
Four-port manifold

length: 246 mm, with 4 branches — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R
Colour: green

| Article no. | d | d1 | l | l1 | l2 | l3 | D | D1 | L | z | z1 | kg | PU |
|-------------|----|------|----|------|------|------|------|------|-------|------|------|-------|----|
| 1090032032 | 32 | 16.0 | 40 | 29.0 | 57.0 | 36.0 | 43.0 | 29.5 | 245.0 | 22.0 | 16 | 0.148 | 1 |
| 1090032033 | 32 | 20.0 | 40 | 29.0 | 57.0 | 36.0 | 43.0 | 29.5 | 245.0 | 22.0 | 14.5 | 0.134 | 1 |

The four-port manifold can be shortened or extended by fusion with further four-port manifolds, if required.



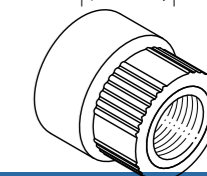
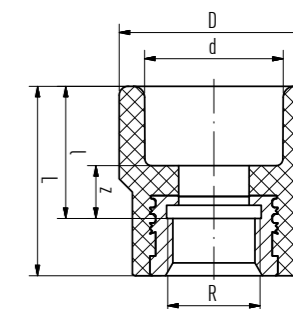
Manifold end piece with female thread

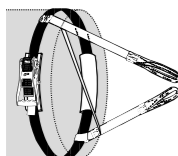
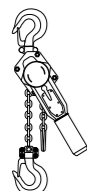
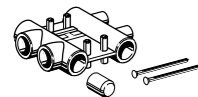
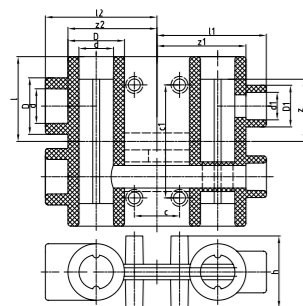
SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | D | L | z | R | kg | PU |
|-------------|----|------|------|------|------|------|-------|----|
| 1090032034 | 32 | 30.0 | 43.0 | 43.0 | 12.0 | 1/2" | 0.073 | 1 |

Transition piece as manifold endpiece with female thread





Distribution block plumbing

including 1 plug and 2 fasteners — SDR 6 / 7.4 / 11

Material: fusiolen® PP-R
Colour: green

| Article no. | d | d1 | l | l1 | l2 | D | D1 | z | z1 | z2 | c | c1 | cl | l3 | h | kg | PU |
|-------------|----|------|----|------|------|------|------|------|----|------|----|----|-----|------|----|-------|----|
| 1050025016 | 25 | 20.0 | 60 | 77.5 | 79.0 | 40.0 | 29.5 | 44.0 | 63 | 63.0 | 32 | 80 | 100 | 36.0 | 51 | 0.273 | 1 |

Chain hoist

Tools for assembling push-in couplings

| Article no. | kg | PU |
|-------------|-------|----|
| 9800050530 | 2.800 | 1 |

Tension band

width 50 mm including towing eyes. For fixing the pipe when assembling push-in couplings

| Article no. | kg | PU |
|-------------|-------|----|
| 9800050533 | 2.500 | 1 |

50 mm incl. towing eyes

Brush

for applying lubricant when assembling push-in coupling systems

| Article no. | kg | PU |
|-------------|-------|----|
| 9800050534 | 0.045 | 1 |

Lubricant

250 ml for use when assembling push-in coupling systems

| Article no. | kg | PU |
|-------------|-------|----|
| 9800050535 | 0.280 | 1 |

Adhesive tape to protect against UV-radiation

Dimension 50 mm x 10 m

| Article no. | kg | PU |
|-------------|-------|----|
| 9700010871 | 0.133 | 1 |

aquatherm-PP-Primer

for aquatherm PP pipes

| Article no. | Container | kg | PU |
|-------------|----------------|-------|----|
| 9700050230 | Container: 1l | 0.994 | 1 |
| 9700050231 | Container: 10l | 9.269 | 1 |

aquatherm special top coat

for aquatherm PP-pipes

| Article no. | Container | kg | PU |
|-------------|-----------------------|-------|----|
| 9700050232 | black Container: 2,5l | 3.007 | 1 |
| 9700050233 | white Container: 2,5l | 3.436 | 1 |

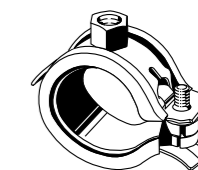
Pipe clamps

suitable for sliding and fixed point installation

Material: steel

| Article no. | for pipe diameters | kg | PU |
|-------------|--------------------|-------|----|
| 9600060520 | 20 | 0.048 | 50 |
| 9600060525 | 25 | 0.051 | 50 |
| 9600060532 | 32 | 0.060 | 50 |
| 9600060540 | 40 | 0.067 | 50 |
| 9600060550 | 50 | 0.079 | 50 |
| 9600060563 | 63 | 0.091 | 25 |
| 9600060575 | 75 | 0.105 | 25 |
| 9600060590 | 90 | 0.128 | 25 |
| 9600060594 | 110 | 0.155 | 25 |
| 9600060595 | 125 | 0.212 | 25 |
| 9600060597 | 160 | 0.342 | 25 |
| 9600060650 | 200 | 1.014 | 1 |
| 9600060654 | 250 | 1.193 | 1 |
| 9600060658 | 315 | 1.618 | 1 |
| 9600060660 | 355 | 1.920 | 1 |

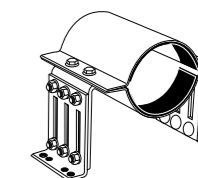
Thread connection: M8 & M10 for 16 – 125 mm | M10 for 160 mm | M16 for 200 – 355 mm



Pipe clamps suitable for fixed point installation

Material: steel

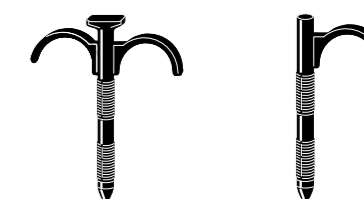
| Article no. | for pipe diameters | kg | PU |
|-------------|--------------------|--------|----|
| 9600060768 | 160 | 8.548 | 1 |
| 9600060770 | 200 | 9.449 | 1 |
| 9600060774 | 250 | 19.367 | 1 |
| 9600060778 | 315 | 22.753 | 1 |
| 9600060780 | 355 | 24.840 | 1 |
| 9600060782 | 400 | 43.642 | 1 |
| 9600060784 | 450 | 46.253 | 1 |
| 9600060786 | 500 | 48.865 | 1 |
| 9600060790 | 630 | 55.659 | 1 |



Pipe fastening bow 16-32 mm

Material: PA

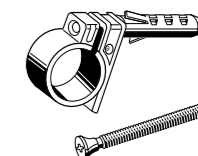
| Article no. | for pipe diameters | kg | PU |
|-------------|----------------------------|-------|----|
| 7020016005 | for pipes 16-32 mm L=45 mm | 0.005 | 50 |
| 7020016006 | for pipes 16-32 mm L=75 mm | 0.007 | 50 |
| 7020016007 | for pipes 16-32 mm L=45 mm | 0.007 | 50 |
| 7020016008 | for pipes 16-32 mm L=75 mm | 0.009 | 50 |



Plastic pipe clamps 16-40 mm

Material: fusiolen® PP-R

| Article no. | for pipe diameters | kg | PU |
|-------------|--------------------|-------|----|
| 7090020011 | for pipes 20 mm | 0.008 | 50 |
| 7090025012 | for pipes 25 mm | 0.016 | 30 |
| 7090032013 | for pipes 32 mm | 0.017 | 30 |
| 7040040014 | for pipes 40 mm | 0.020 | 30 |



aquatherm green

Pipe system made of polypropylene

aquatherm green has revolutionised the plastic piping sector and has been shaping it for decades.

The innovative all-rounder made of corrosion-resistant polypropylene shows its advantages due to its excellent ecological properties, especially in the field of drinking water applications, as it is completely free of heavy metals and toxic chemicals.

aquatherm green is also suitable for swimming pools, agriculture, shipbuilding or the transport of chemicals considering the chemical resistance.

aquatherm pipes and fittings are joined together by heat fusion which ensures the material becomes one cohesive unit, thus creating a secure connection.

Application:

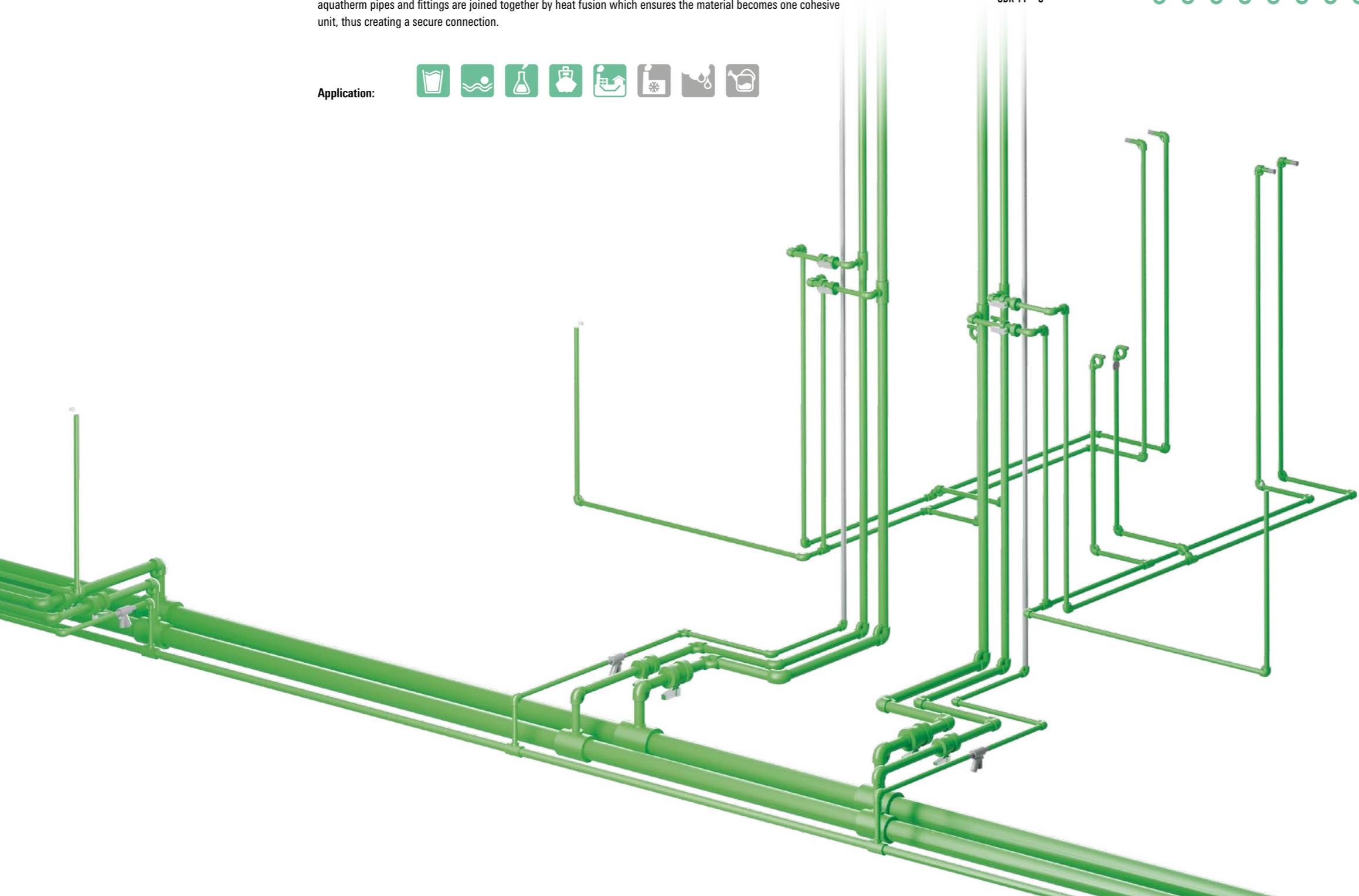


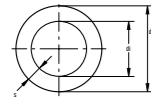
For potable water supply

| | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 75 | 90 | 110 | 125 | 160 | 200 | 250 | 315 |
|--------------------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| SDR 6 S | - | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | - | - | - | - | - |
| SDR 7.4 S | - | ○ | ○ | ○ | ○ | ○ | ○ | - | - | - | - | - | - | - | - |
| SDR 7.4 MF | - | ○ | ○ | ○ | - | - | - | - | - | - | - | - | - | - | - |
| SDR 7.4 MF UV | - | ○ | ○ | ○ | - | - | - | - | - | - | - | - | - | - | - |
| SDR 9 MF RP | - | - | - | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| SDR 9 MF RP UV | - | - | - | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| SDR 9 MF RP ENERGY | - | - | - | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| SDR 11 S | - | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

Legend table abbreviations:

- d** diameter in mm
- D** diameter in mm
- s** wall thickness in mm
- di** internal diameter in mm
- l/m** water content in litres/metres
- kg/m** weight data in kg per metre
- DN** diameter nominal
- PU** packing unit in metre
- SDR** standard dimension ratio
- lengths** units in mm unless otherwise specified





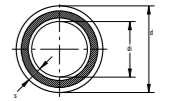
aquatherm green SDR 6 / 7.4 S

S = single-layer
socket welding

Material: fusiolen® PP-R
Pipe series: SDR 6 / S 2,5
Standards: DIN 8077, DIN 8078,
DIN EN ISO 15874, ASTM F 2389, CSA B 137.11
Colour: green
Packing unit: 4 m straight lengths

| Article no. | d | s | di | l/m | kg/m | DN | PU [m] |
|--------------|-----|------|------|-------|-------|----|--------|
| SDR 6 | | | | | | | |
| 1011020006 | 20 | 3.4 | 13.2 | 0.137 | 0.174 | 12 | 100 |
| 1011025008 | 25 | 4.2 | 16.6 | 0.216 | 0.268 | 15 | 100 |
| 1011032010 | 32 | 5.4 | 21.2 | 0.353 | 0.437 | 20 | 40 |
| 1011040012 | 40 | 6.7 | 26.6 | 0.555 | 0.675 | 25 | 40 |
| 1011050014 | 50 | 8.3 | 33.4 | 0.876 | 1.047 | 32 | 20 |
| 1011063016 | 63 | 10.5 | 42.0 | 1.385 | 1.662 | 40 | 20 |
| 1011075018 | 75 | 12.5 | 50.0 | 1.963 | 2.351 | 50 | 20 |
| 1011090020 | 90 | 15.0 | 60.0 | 2.826 | 3.379 | 60 | 12 |
| 1011110022 | 110 | 18.3 | 73.4 | 4.229 | 5.040 | 65 | 8 |
| 1011016303 * | 16 | 2.7 | 10.6 | 0.088 | 0.111 | 10 | 100 |
| 1011020306 * | 20 | 3.4 | 13.2 | 0.137 | 0.174 | 12 | 100 |
| 1011025308 * | 25 | 4.2 | 16.6 | 0.216 | 0.268 | 15 | 100 |
| SDR 7.4 | | | | | | | |
| 1012020006 | 20 | 2.8 | 14.4 | 0.163 | 0.149 | 15 | 100 |
| 1012025008 | 25 | 3.5 | 18.0 | 0.254 | 0.232 | 20 | 100 |
| 1012032010 | 32 | 4.4 | 23.2 | 0.423 | 0.372 | 25 | 40 |
| 1012040012 | 40 | 5.5 | 29.0 | 0.660 | 0.578 | 32 | 40 |
| 1012050014 | 50 | 6.9 | 36.2 | 1.029 | 0.901 | 40 | 20 |
| 1012063016 | 63 | 8.6 | 45.8 | 1.647 | 1.416 | 50 | 20 |
| 1012016303 * | 16 | 2.2 | 11.6 | 0.106 | 0.096 | 12 | 100 |
| 1012020306 * | 20 | 2.8 | 14.4 | 0.163 | 0.149 | 15 | 100 |

*Packing unit: in coils



aquatherm green SDR 7.4 MF

MF = multi-layer, fibre-reinforced

Material: fusiolen® PP-R
Pipe series: SDR 7.4 / S 3.2
Standards: SKZ HR 3.28, ASTM F 2389,
CSA B 137.11, ISO 21003, SKZ A314/616
Colour: green with 4 dark green stripes
Packing unit: 4 m straight lengths

| Article no. | d | s | di | l/m | kg/m | DN | PU [m] |
|----------------|-----|------|-------|--------|--------|-----|--------|
| socket welding | | | | | | | |
| 1012020506 | 20 | 2.8 | 14.4 | 0.163 | 0.157 | 15 | 100 |
| 1012025508 | 25 | 3.5 | 18.0 | 0.254 | 0.244 | 20 | 100 |
| 1012032510 | 32 | 4.4 | 23.0 | 0.423 | 0.391 | 25 | 40 |
| 1012040512 | 40 | 5.5 | 28.8 | 0.660 | 0.608 | 32 | 40 |
| 1012050514 | 50 | 6.9 | 36.2 | 1.029 | 0.948 | 40 | 20 |
| 1012063516 | 63 | 8.6 | 45.6 | 1.647 | 1.490 | 50 | 20 |
| 1012075518 | 75 | 10.3 | 54.4 | 2.323 | 2.120 | - | 20 |
| 1012090520 | 90 | 12.3 | 65.4 | 3.358 | 3.037 | 65 | 12 |
| 1012110522 | 110 | 15.1 | 79.8 | 4.999 | 4.546 | 80 | 8 |
| 1012125524 | 125 | 17.1 | 90.8 | 6.472 | 5.850 | - | 4 |
| butt welding | | | | | | | |
| 1012160526 | 160 | 21.9 | 116.2 | 10.599 | 9.559 | 125 | 5.8 |
| 1012200528 | 200 | 27.4 | 145.2 | 16.558 | 14.944 | 150 | 5.8 |
| 1012250530 | 250 | 34.2 | 181.6 | 25.901 | 23.312 | 175 | 5.8 |

Mechanically stabilised through a fibre mix integrated in the middle layer of the fusiolen® PP-R.

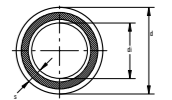
aquatherm green SDR 7.4 MF UV

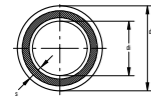
MF = multi-layer, fibre-reinforced
UV = UV-resistant

Material: fusiolen® PP-R
Pipe series: SDR 7.4 / S 3.2
Standards: SKZ HR 3.28, ASTM F 2389,
CSA B 137.11, ISO 21003, SKZ A314/616
Colour: inner layer: green / outer layer: black
Packing unit: ø 20 – 125 mm straight lengths 4 m
ø 160 – 250 mm straight lengths 5.8 m

| Article no. | d | s | di | l/m | kg/m | DN | PU [m] |
|----------------|-----|------|-------|--------|--------|-----|--------|
| socket welding | | | | | | | |
| 1212020006 | 20 | 2.8 | 14.4 | 0.163 | 0.210 | 15 | 100 |
| 1212025008 | 25 | 3.5 | 18.0 | 0.254 | 0.314 | 20 | 100 |
| 1212032010 | 32 | 4.4 | 23.0 | 0.423 | 0.485 | 25 | 40 |
| 1212040012 | 40 | 5.5 | 28.8 | 0.660 | 0.728 | 32 | 40 |
| 1212050014 | 50 | 6.9 | 36.2 | 1.029 | 1.101 | 40 | 20 |
| 1212063016 | 63 | 8.6 | 45.6 | 1.647 | 1.686 | 50 | 20 |
| 1212075018 | 75 | 10.3 | 54.4 | 2.323 | 2.347 | - | 20 |
| 1212090020 | 90 | 12.3 | 65.4 | 3.358 | 3.378 | 65 | 12 |
| 1212110022 | 110 | 15.1 | 79.8 | 4.999 | 5.054 | 80 | 8 |
| 1212125024 | 125 | 17.1 | 90.8 | 6.472 | 6.494 | - | 4 |
| butt welding | | | | | | | |
| 1212160026 | 160 | 21.9 | 116.2 | 10.599 | 9.859 | 100 | 5.8 |
| 1212200028 | 200 | 27.4 | 145.2 | 16.550 | 15.273 | 150 | 5.8 |
| 1212250030 | 250 | 34.2 | 181.6 | 25.888 | 23.630 | 175 | 5.8 |

Resistant against UV-rays. Mechanically stabilised through a fibre mix integrated in the middle layer of the fusiolen® PP-R.





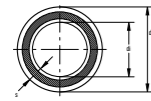
aquatherm green SDR 9 MF RP

MF = multi-layer, fibre-reinforced
RP = raised pressure resistance

Material: fusiolen® PP-R / PP-RCT
Pipe series: SDR 9 / S 4
Standards: SKZ HR 3.28, ASTM F 2389, ISO 21003, SKZ A632/A644
Colour: green with 4 dark green stripes
Packing unit: Ø 32 – 125 mm 4 m straight lengths
160 – 315 mm 5.8 m straight lengths

| Article no. | d | s | di | V/m | kg/m | DN | PU [m] |
|----------------|-----|------|-------|--------|--------|-----|--------|
| socket welding | | | | | | | |
| 1013032010 | 32 | 3.6 | 24.8 | 0.483 | 0.328 | 25 | 40 |
| 1013040012 | 40 | 4.5 | 31.0 | 0.754 | 0.511 | 32 | 40 |
| 1013050014 | 50 | 5.6 | 38.8 | 1.182 | 0.791 | 40 | 20 |
| 1013063016 | 63 | 7.1 | 48.8 | 1.869 | 1.261 | 50 | 20 |
| 1013075018 | 75 | 8.4 | 58.2 | 2.659 | 1.771 | - | 20 |
| 1013090020 | 90 | 10.1 | 69.8 | 3.825 | 2.553 | 65 | 12 |
| 1013110022 | 110 | 12.3 | 85.4 | 5.725 | 3.789 | 80 | 8 |
| 1013125024 | 125 | 14.0 | 97.0 | 7.386 | 4.886 | 100 | 4 |
| butt welding | | | | | | | |
| 1013160026 | 160 | 17.9 | 124.2 | 12.109 | 7.987 | 125 | 5.8 |
| 1013200028 | 200 | 22.4 | 155.2 | 18.908 | 12.488 | 150 | 5.8 |
| 1013250030 | 250 | 27.9 | 194.2 | 29.605 | 19.422 | 200 | 5.8 |
| 1013315032 | 315 | 35.2 | 244.6 | 46.966 | 30.876 | 250 | 5.8 |

Mechanically stabilised through a fibre mix integrated in the middle layer of the fusiolen® PP-RCT

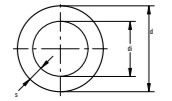


aquatherm green SDR 9 MF RP UV

MF = multi-layer, fibre-reinforced
RP = raised pressure resistance
UV = UV-resistant

Material: fusiolen® PP-R / PP-RCT
Pipe series: SDR 9 / S 4
Standards: SKZ HR 3.28, ASTM F 2389, ISO 21003, SKZ A632/A644
Colour: inner layer: green, outer layer: black
Packing unit: 4 m straight lengths

| Article no. | d | s | di | V/m | kg/m | DN | PU [m] |
|----------------|-----|------|-------|--------|--------|-----|--------|
| socket welding | | | | | | | |
| 1213032010 | 32 | 3.6 | 24.8 | 0.483 | 0.422 | 25 | 40 |
| 1213040012 | 40 | 4.5 | 31.0 | 0.754 | 0.630 | 32 | 40 |
| 1213050014 | 50 | 5.6 | 38.8 | 1.182 | 0.944 | 40 | 20 |
| 1213063016 | 63 | 7.1 | 48.8 | 1.869 | 1.457 | 50 | 20 |
| 1213075018 | 75 | 8.4 | 58.2 | 2.659 | 1.998 | - | 20 |
| 1213090020 | 90 | 10.1 | 69.8 | 3.825 | 2.894 | 65 | 12 |
| 1213110022 | 110 | 12.3 | 85.4 | 5.725 | 4.397 | 80 | 8 |
| 1213125024 | 125 | 14.0 | 97.0 | 7.386 | 5.530 | 100 | 4 |
| butt welding | | | | | | | |
| 1213160026 | 160 | 17.9 | 124.2 | 12.109 | 8.287 | 125 | 5.8 |
| 1213200028 | 200 | 22.4 | 155.2 | 18.908 | 12.818 | 150 | 5.8 |



aquatherm green SDR 11 S

S = single-layer

Material: fusiolen® PP-R
Pipe series: SDR 11 / S 5
Standards: DIN 8077 / 78, DIN EN ISO 15874, ASTM F 2389, CSA B 137.11
Colour: green with 4 blue stripes
Packing unit: 4 m straight lengths

| Article no. | d | s | di | V/m | kg/m | DN | PU [m] |
|----------------|-----|------|-------|--------|--------|-----|--------|
| socket welding | | | | | | | |
| 1014020006 | 20 | 1.9 | 16.2 | 0.206 | 0.108 | 15 | 100 |
| 1014025008 | 25 | 2.3 | 20.4 | 0.327 | 0.165 | 20 | 100 |
| 1014032010 | 32 | 2.9 | 26.2 | 0.539 | 0.261 | 25 | 40 |
| 1014040012 | 40 | 3.7 | 32.6 | 0.834 | 0.414 | 32 | 40 |
| 1014050014 | 50 | 4.6 | 40.8 | 1.307 | 0.641 | 40 | 20 |
| 1014063016 | 63 | 5.8 | 51.4 | 2.074 | 1.012 | 50 | 20 |
| 1014075018 | 75 | 6.8 | 61.4 | 2.959 | 1.411 | 65 | 20 |
| 1014090020 | 90 | 8.2 | 73.6 | 4.252 | 2.043 | 80 | 12 |
| 1014110022 | 110 | 10.0 | 90.0 | 6.359 | 3.026 | - | 8 |
| 1014125024 | 125 | 11.4 | 102.2 | 8.199 | 3.924 | 100 | 4 |
| 1014020306 * | 20 | 1.9 | 16.2 | 0.206 | 0.108 | 15 | 100 |
| 1014025308 * | 25 | 2.3 | 20.4 | 0.327 | 0.165 | 20 | 100 |
| 1014032310 * | 32 | 2.9 | 26.2 | 0.539 | 0.261 | 25 | 50 |
| butt welding | | | | | | | |
| 1014160026 | 160 | 14.6 | 130.8 | 13.430 | 6.415 | 125 | 5.8 |
| 1014200028 | 200 | 18.2 | 163.6 | 21.010 | 9.992 | 150 | 5.8 |
| 1014250030 | 250 | 22.7 | 204.6 | 32.861 | 15.548 | 200 | 5.8 |
| 1014315032 | 315 | 28.6 | 257.8 | 52.172 | 24.664 | 250 | 5.8 |

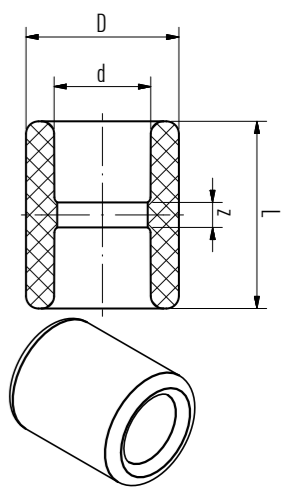
*in coils

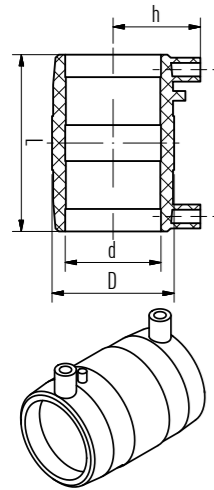
Socket

SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | L | z | kg | PU |
|-------------|-----|-------|------|------|-------|----|
| 1040020002 | 20 | 27.0 | 32.0 | 3.0 | 0.008 | 10 |
| 1040025003 | 25 | 34.0 | 35.0 | 3.0 | 0.013 | 10 |
| 1040032004 | 32 | 43.0 | 40.5 | 4.5 | 0.026 | 5 |
| 1040040005 | 40 | 52.0 | 47.5 | 6.5 | 0.044 | 5 |
| 1040050006 | 50 | 68.0 | 53.0 | 6.0 | 0.084 | 5 |
| 1040063007 | 63 | 84.0 | 60.5 | 5.5 | 0.139 | 1 |
| 1040075008 | 75 | 100.0 | 66.5 | 6.5 | 0.226 | 1 |
| 1040090009 | 90 | 120.0 | 72.5 | 6.5 | 0.343 | 1 |
| 1040110010 | 110 | 147.0 | 82.0 | 8.0 | 0.581 | 1 |
| 1040125011 | 125 | 167.0 | 92.0 | 12.0 | 0.845 | 1 |





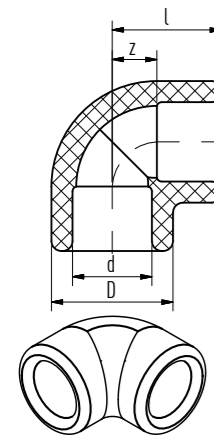
Electrofusion socket

Electro-socket welding — SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | L | h | kg | PU |
|--------------|-----|-------|-------|-------|-------|----|
| 1040020094 | 20 | 31.5 | 70.0 | 36.0 | 0.049 | 1 |
| 1040025100 | 25 | 36.5 | 78.0 | 38.5 | 0.057 | 1 |
| 1040032101 | 32 | 45.0 | 80.0 | 42.5 | 0.077 | 1 |
| 1040040102 | 40 | 54.0 | 92.0 | 47.0 | 0.103 | 1 |
| 1040050103 | 50 | 65.0 | 103.0 | 52.0 | 0.142 | 1 |
| 1040063104 | 63 | 81.5 | 118.0 | 58.0 | 0.239 | 1 |
| 1040075105 | 75 | 96.0 | 130.0 | 64.5 | 0.347 | 1 |
| 1040090106 | 90 | 113.5 | 145.0 | 72.0 | 0.501 | 1 |
| 1040110107 | 110 | 139.0 | 160.0 | 82.5 | 0.821 | 1 |
| 1040125108 | 125 | 156.0 | 172.0 | 90.0 | 1.097 | 1 |
| 1040160109 * | 160 | 197.0 | 186.0 | 109.5 | 1.754 | 1 |
| 1040200110 * | 200 | 243.0 | 210.0 | 134.0 | 3.625 | 1 |
| 1040250111 * | 250 | 315.0 | 250.0 | 170.0 | 7.142 | 1 |

do not use with 160 – 250 mm fittings

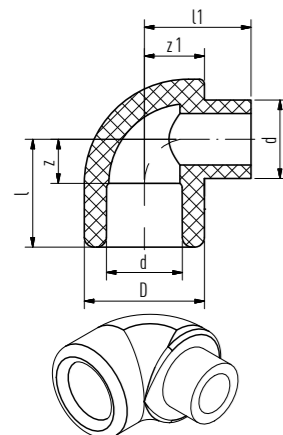


Elbow 90° socket welding

SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | D | z | kg | PU |
|-------------|-----|-------|-------|------|-------|----|
| 1080020041 | 20 | 25.5 | 27.0 | 11.0 | 0.013 | 10 |
| 1080025042 | 25 | 29.5 | 34.0 | 13.5 | 0.023 | 10 |
| 1080032043 | 32 | 35.0 | 43.0 | 17.0 | 0.043 | 5 |
| 1080040044 | 40 | 41.5 | 52.0 | 21.0 | 0.077 | 5 |
| 1080050045 | 50 | 49.5 | 68.0 | 26.0 | 0.162 | 5 |
| 1080063046 | 63 | 60.0 | 84.0 | 32.5 | 0.293 | 1 |
| 1080075047 | 75 | 68.5 | 100.0 | 38.5 | 0.445 | 1 |
| 1080090048 | 90 | 79.0 | 120.0 | 46.0 | 0.729 | 1 |
| 1080110049 | 110 | 93.0 | 147.0 | 56.0 | 1.292 | 1 |
| 1080125050 | 125 | 116.5 | 167.0 | 76.5 | 2.004 | 1 |



Elbow 90° female/male

socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | D | z | z1 | kg | PU |
|-------------|----|------|------|------|------|------|-------|----|
| 1080020061 | 20 | 25.5 | 25.5 | 27.0 | 11.0 | 13.5 | 0.032 | 10 |
| 1080025062 | 25 | 29.5 | 29.5 | 34.0 | 13.5 | 17.0 | 0.023 | 10 |
| 1080032063 | 32 | 35.0 | 39.0 | 43.0 | 17.0 | 21.5 | 0.048 | 5 |
| 1080040064 | 40 | 41.5 | 45.5 | 52.0 | 21.0 | 26.0 | 0.080 | 5 |

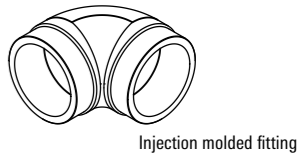
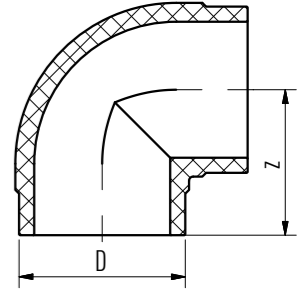
Elbow 90° butt welding

Material: fusiolen® PP-R / PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

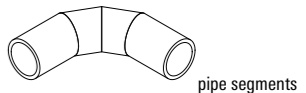
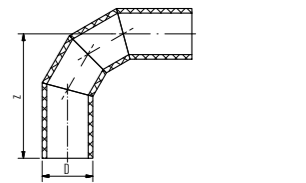
| Article no. | D | z | kg | PU |
|--------------|-------|-------|--------|----|
| SDR 7.4 | | | | |
| 1082160051 | 160.0 | 145.0 | 2.561 | 1 |
| 1082200053 | 200.0 | 450.0 | 11.685 | 1 |
| 1082250055 | 250.0 | 625.0 | 26.000 | 1 |
| SDR 9 | | | | |
| 1083160070 * | 160.0 | 145.0 | 2.371 | 1 |
| 1083200071 * | 200.0 | 209.0 | 4.320 | 1 |
| 1083250072 * | 250.0 | 240.0 | 8.500 | 1 |
| 1083315073 | 315.0 | 773.0 | 42.300 | 1 |
| SDR 11 | | | | |
| 1084160052 * | 160.0 | 145.0 | 1.956 | 1 |
| 1084200054 * | 200.0 | 209.0 | 4.575 | 1 |
| 1084250056 * | 250.0 | 240.0 | 7.180 | 1 |
| 1084315057 | 315.0 | 773.0 | 37.850 | 1 |

*Injection molded fitting

Please note! Electrofusion sockets can not be processed directly with injection molded fittings. When using electrofusion sockets either segment welded special fittings must be used or pipe pieces must be welded to the injection molded fittings.



Injection molded fitting



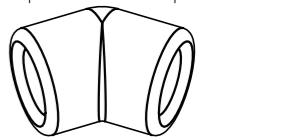
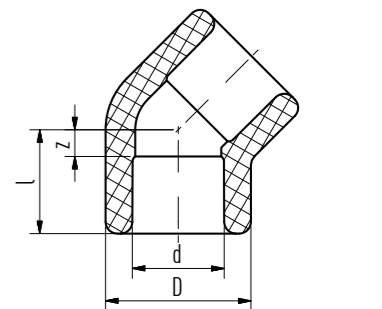
pipe segments

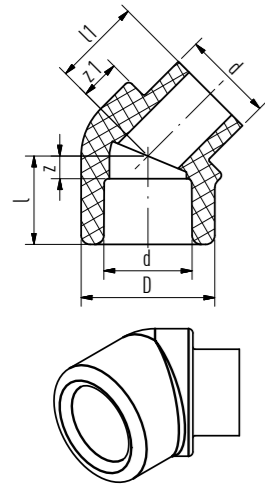
Elbow 45° socket welding

SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | D | z | kg | PU |
|-------------|-----|------|-------|------|-------|----|
| 1080020002 | 20 | 19.5 | 29.5 | 5.0 | 0.014 | 10 |
| 1080025003 | 25 | 22 | 34.0 | 6.0 | 0.018 | 10 |
| 1080032004 | 32 | 25 | 43.0 | 7.5 | 0.035 | 5 |
| 1080040005 | 40 | 30 | 52.0 | 9.5 | 0.053 | 5 |
| 1080050006 | 50 | 35 | 68.0 | 11.5 | 0.112 | 5 |
| 1080063007 | 63 | 41.5 | 84.0 | 14.0 | 0.227 | 1 |
| 1080075008 | 75 | 46.5 | 100.0 | 16.5 | 0.350 | 1 |
| 1080090009 | 90 | 52.5 | 120.0 | 19.5 | 0.568 | 1 |
| 1080110010 | 110 | 60.5 | 147.0 | 23.5 | 1.025 | 1 |
| 1080125011 | 125 | 67 | 167.0 | 27.0 | 1.329 | 1 |



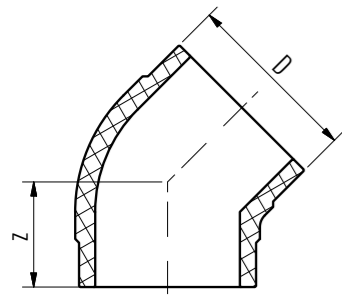


Elbow 45° female/male

socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | D | z | z1 | kg | PU |
|-------------|----|------|------|------|-----|------|-------|----|
| 1080020020 | 20 | 19.5 | 19.5 | 29.5 | 5.0 | 9.0 | 0.013 | 10 |
| 1080020021 | 25 | 22.0 | 22.0 | 34.0 | 6.0 | 8.5 | 0.017 | 10 |
| 1080032022 | 32 | 25.5 | 29.0 | 43.0 | 7.5 | 11.5 | 0.036 | 5 |
| 1080040023 | 40 | 30.0 | 33.0 | 52.0 | 9.5 | 13.5 | 0.057 | 5 |



Elbow 45° butt welding

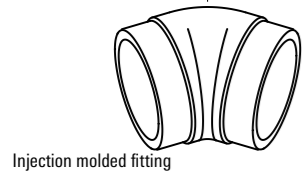
pipe segments

Material: fusiolen® PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

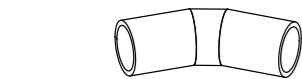
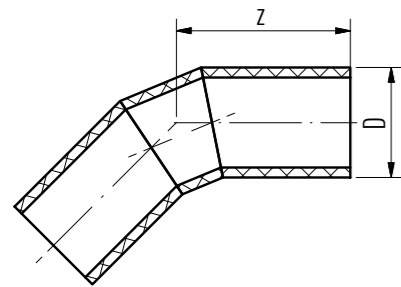
| Article no. | D | z | kg | PU |
|--------------|-------|-------|--------|----|
| SDR 7.4 | | | | |
| 1082160012 | 160.0 | 95.0 | 1.903 | 1 |
| 1082200014 | 200.0 | 274.0 | 8.175 | 1 |
| 1082250016 | 250.0 | 412.0 | 20.500 | 1 |
| SDR 9 | | | | |
| 1083160030 | 160.0 | 95.0 | 4.230 | 1 |
| 1083200031 | 200.0 | 146.0 | 7.500 | 1 |
| 1083250032 | 250.0 | 182.0 | 17.000 | 1 |
| 1083315033 * | 315.0 | 498.0 | 30.567 | 1 |
| SDR 11 | | | | |
| 1084160013 | 160.0 | 95.0 | 1.371 | 1 |
| 1084200015 | 200.0 | 146.0 | 3.310 | 1 |
| 1084250017 | 250.0 | 182.0 | 6.218 | 1 |
| 1084315018 * | 315.0 | 498.0 | 27.300 | 1 |

*mechanically stabilised through a fibre mix integrated in the middle layer of the fusiolen® PP-RCT.

Please note! Electrofusion sockets can not be processed directly with injection molded fittings. When using electrofusion sockets either segment welded special fittings must be used or pipe pieces must be welded to the injection molded fittings.



Injection molded fitting



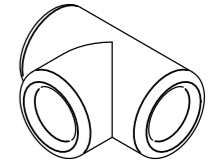
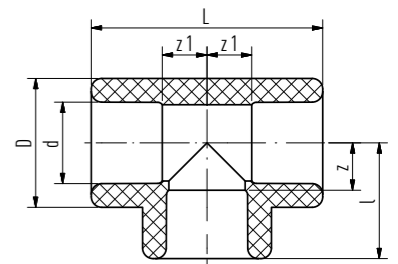
pipe segments

T-piece socket welding

injection moulded fittings — SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | D | L | z | z1 | kg | PU |
|-------------|-----|-------|-------|-------|------|------|-------|----|
| 1060020016 | 20 | 25.5 | 27.0 | 51.0 | 11.0 | 11.0 | 0.017 | 10 |
| 1060025017 | 25 | 30.5 | 34.0 | 62.0 | 14.5 | 15.0 | 0.033 | 10 |
| 1060032018 | 32 | 33.5 | 43.0 | 70.0 | 15.5 | 17.0 | 0.054 | 5 |
| 1060040019 | 40 | 40.5 | 52.0 | 81.0 | 20.0 | 20.0 | 0.099 | 5 |
| 1060050020 | 50 | 49.5 | 68.0 | 99.0 | 26.0 | 26.0 | 0.177 | 5 |
| 1060063021 | 63 | 60.0 | 84.0 | 120.0 | 32.5 | 32.5 | 0.368 | 1 |
| 1060075022 | 75 | 68.5 | 100.0 | 137.0 | 38.5 | 38.5 | 0.541 | 1 |
| 1060090023 | 90 | 79.0 | 120.0 | 158.0 | 46.0 | 46.0 | 0.920 | 1 |
| 1060110024 | 110 | 93.0 | 147.0 | 186.0 | 56.0 | 56.0 | 1.598 | 1 |
| 1060125025 | 125 | 116.5 | 167.0 | 233.0 | 76.5 | 76.5 | 2.673 | 1 |



T-piece butt welding

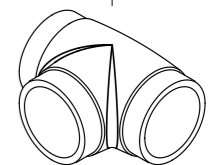
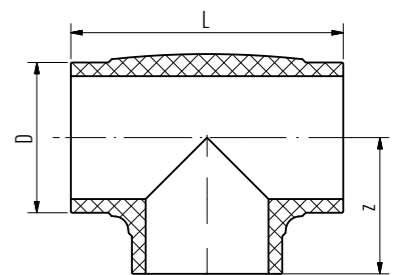
fitting made of pipe segments

Material: fusiolen® PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

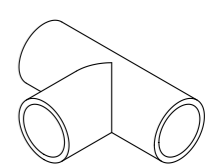
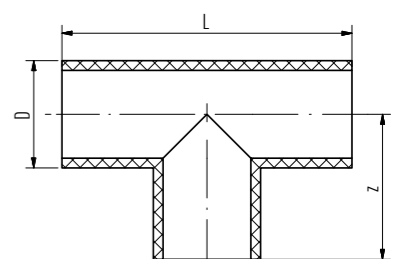
| Article no. | D | L | z | kg | PU |
|--------------|-------|-------|-------|--------|----|
| SDR 7.4 | | | | | |
| 1062160012 * | 160.0 | 290.0 | 145.0 | 3.600 | 1 |
| 1062200014 | 200.0 | 500.0 | 250.0 | 9.825 | 1 |
| 1062250016 | 250.0 | 750.0 | 375.0 | 24.000 | 1 |
| SDR 9 | | | | | |
| 1063160019 | 160.0 | 290.0 | 145.0 | 3.290 | 1 |
| 1063200020 | 200.0 | 410.0 | 205.0 | 7.000 | 1 |
| 1063250021 | 250.0 | 486.0 | 243.0 | 12.500 | 1 |
| 1063315022 * | 315.0 | 920.0 | 460.0 | 42.609 | 1 |
| SDR 11 | | | | | |
| 1064160013 | 160.0 | 290.0 | 145.0 | 2.943 | 1 |
| 1064200015 | 200.0 | 410.0 | 205.0 | 6.099 | 1 |
| 1064250017 | 250.0 | 486.0 | 243.0 | 10.710 | 1 |
| 1064315018 * | 315.0 | 920.0 | 460.0 | 20.450 | 1 |

*Injection molded fitting

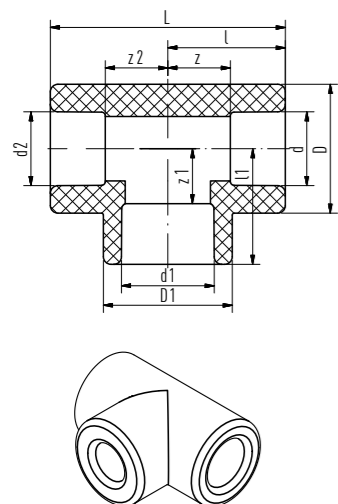
Please note! Electrofusion sockets can not be processed directly with injection molded fittings. When using electrofusion sockets either segment welded special fittings must be used or pipe pieces must be welded to the injection molded fittings.



Injection molded fitting



pipe segments



Red. T-piece, socket welding

injection moulded fittings — SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | d1 | d2 | l | l1 | D | D1 | L | z | z1 | z2 | kg | PU |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|----|
| 1060020030 | 20 | 16.0 | 16.0 | 25.5 | 25.3 | 29.5 | 29.5 | 51.0 | 11.0 | 12.3 | 12.5 | 0.025 | 10 |
| 1060020031 | 20 | 16.0 | 20.0 | 25.5 | 25.3 | 29.5 | 29.5 | 51.0 | 11.0 | 12.3 | 11.0 | 0.024 | 10 |
| 1060020032 | 20 | 20.0 | 16.0 | 25.5 | 25.3 | 29.5 | 29.5 | 51.0 | 11.0 | 10.8 | 12.5 | 0.023 | 10 |
| 1060020033 | 20 | 25.0 | 20.0 | 31.0 | 30.5 | 34.0 | 34.0 | 62.0 | 16.5 | 14.5 | 16.5 | 0.040 | 10 |
| 1060025034 | 25 | 16.0 | 16.0 | 31.0 | 30.5 | 34.0 | 34.0 | 62.0 | 15.0 | 17.5 | 18.0 | 0.043 | 10 |
| 1060025035 | 25 | 16.0 | 20.0 | 31.0 | 30.5 | 34.0 | 34.0 | 62.0 | 15.0 | 17.5 | 16.5 | 0.041 | 10 |
| 1060025036 | 25 | 16.0 | 25.0 | 31.0 | 30.5 | 34.0 | 34.0 | 62.0 | 15.0 | 17.5 | 15.0 | 0.038 | 10 |
| 1060025037 | 25 | 20.0 | 20.0 | 31.0 | 30.5 | 34.0 | 34.0 | 62.0 | 15.0 | 16.0 | 16.5 | 0.039 | 10 |
| 1060025038 | 25 | 20.0 | 25.0 | 31.0 | 30.5 | 34.0 | 34.0 | 62.0 | 15.0 | 16.0 | 15.0 | 0.036 | 10 |
| 1060032039 | 32 | 16.0 | 32.0 | 35.0 | 31.0 | 43.0 | 29.5 | 70.0 | 17.0 | 18.0 | 17.0 | 0.053 | 5 |
| 1060032040 | 32 | 20.0 | 20.0 | 36.8 | 37.0 | 43.0 | 43.0 | 73.5 | 18.8 | 22.5 | 22.3 | 0.076 | 5 |
| 1060032041 | 32 | 20.0 | 32.0 | 35.0 | 31.0 | 43.0 | 29.5 | 70.0 | 17.0 | 16.5 | 17.0 | 0.053 | 5 |
| 1060032042 | 32 | 25.0 | 25.0 | 35.0 | 34.5 | 43.0 | 43.0 | 70.0 | 17.0 | 18.5 | 19.0 | 0.069 | 5 |
| 1060032043 | 32 | 25.0 | 32.0 | 35.0 | 32.0 | 43.0 | 34.0 | 70.0 | 17.0 | 16.0 | 17.0 | 0.050 | 5 |
| 1060040044 | 40 | 20.0 | 40.0 | 41.5 | 36.0 | 52.0 | 34.0 | 83.0 | 21.0 | 21.5 | 21.0 | 0.091 | 5 |
| 1060040045 | 40 | 25.0 | 40.0 | 41.5 | 36.0 | 52.0 | 34.0 | 83.0 | 21.0 | 20.0 | 21.0 | 0.089 | 5 |
| 1060040046 | 40 | 32.0 | 40.0 | 42.0 | 40.5 | 52.0 | 52.0 | 84.0 | 21.5 | 22.5 | 21.5 | 0.092 | 5 |
| 1060050047 | 50 | 20.0 | 50.0 | 49.5 | 40.5 | 68.0 | 29.5 | 99.0 | 26.0 | 26.0 | 26.0 | 0.162 | 5 |
| 1060050048 | 50 | 25.0 | 50.0 | 49.5 | 44.5 | 68.0 | 34.0 | 99.0 | 26.0 | 28.5 | 26.0 | 0.158 | 5 |
| 1060050049 | 50 | 32.0 | 50.0 | 49.5 | 44.5 | 68.0 | 43.0 | 99.0 | 26.0 | 26.5 | 26.0 | 0.160 | 5 |
| 1060050050 | 50 | 40.0 | 50.0 | 49.5 | 49.5 | 68.0 | 68.0 | 99.0 | 26.0 | 29.0 | 26.0 | 0.161 | 5 |
| 1060063051 | 63 | 20.0 | 63.0 | 60.0 | 48.5 | 84.0 | 34.0 | 120.0 | 32.5 | 34.0 | 32.5 | 0.335 | 1 |
| 1060063052 | 63 | 25.0 | 63.0 | 60.0 | 48.5 | 84.0 | 34.0 | 120.0 | 32.5 | 32.5 | 32.5 | 0.331 | 1 |
| 1060063053 | 63 | 32.0 | 63.0 | 60.0 | 53.0 | 84.0 | 52.0 | 120.0 | 32.5 | 35.5 | 32.5 | 0.340 | 1 |
| 1060063054 | 63 | 40.0 | 63.0 | 60.0 | 53.0 | 84.0 | 52.0 | 120.0 | 32.5 | 33.0 | 32.5 | 0.332 | 1 |
| 1060063055 | 63 | 50.0 | 63.0 | 60.0 | 56.0 | 84.0 | 68.0 | 120.0 | 32.5 | 36.5 | 32.5 | 0.398 | 1 |
| 1060075056 | 75 | 20.0 | 75.0 | 68.5 | 54.5 | 100.0 | 34.0 | 137.0 | 38.5 | 40.0 | 38.5 | 0.501 | 1 |
| 1060075057 | 75 | 25.0 | 75.0 | 68.5 | 54.5 | 100.0 | 34.0 | 137.0 | 38.5 | 38.5 | 38.5 | 0.497 | 1 |
| 1060075058 | 75 | 32.0 | 75.0 | 68.5 | 59.0 | 100.0 | 52.0 | 137.0 | 38.5 | 41.0 | 38.5 | 0.505 | 1 |
| 1060075059 | 75 | 40.0 | 75.0 | 68.5 | 59.0 | 100.0 | 52.0 | 137.0 | 38.5 | 38.5 | 38.5 | 0.497 | 1 |
| 1060075060 | 75 | 50.0 | 75.0 | 68.5 | 66.0 | 100.0 | 84.0 | 137.0 | 38.5 | 42.5 | 38.5 | 0.550 | 1 |
| 1060075061 | 75 | 63.0 | 75.0 | 68.5 | 66.0 | 100.0 | 84.0 | 137.0 | 38.5 | 38.5 | 38.5 | 0.515 | 1 |
| 1060090062 | 90 | 32.0 | 90.0 | 79.0 | 64.0 | 120.0 | 43.0 | 158.0 | 46.0 | 46.0 | 46.0 | 0.880 | 1 |
| 1060090063 | 90 | 40.0 | 90.0 | 79.0 | 66.5 | 120.0 | 52.0 | 158.0 | 46.0 | 46.0 | 46.0 | 0.862 | 1 |
| 1060090064 | 90 | 50.0 | 90.0 | 79.0 | 69.5 | 120.0 | 68.0 | 158.0 | 46.0 | 46.0 | 46.0 | 0.905 | 1 |
| 1060090065 | 90 | 63.0 | 90.0 | 79.0 | 73.5 | 120.0 | 84.0 | 158.0 | 46.0 | 46.0 | 46.0 | 0.876 | 1 |
| 1060090066 | 90 | 75.0 | 90.0 | 79.0 | 76.0 | 120.0 | 100 | 158.0 | 46.0 | 46.0 | 46.0 | 0.991 | 1 |
| 1060110067 | 110 | 63.0 | 110.0 | 93.0 | 83.5 | 147.0 | 84.0 | 186.0 | 56.0 | 56.0 | 56.0 | 1.534 | 1 |
| 1060110068 | 110 | 75.0 | 110.0 | 93.0 | 86.0 | 147.0 | 100.0 | 186.0 | 56.0 | 56.0 | 56.0 | 1.517 | 1 |
| 1060110069 | 110 | 90.0 | 110.0 | 93.0 | 89.0 | 147.0 | 120.0 | 186.0 | 56.0 | 56.0 | 56.0 | 1.548 | 1 |
| 1060125070 | 125 | 75.0 | 125.0 | 116.5 | 106.5 | 167.0 | 100.0 | 233.0 | 76.5 | 76.5 | 76.5 | 2.427 | 1 |
| 1060125071 | 125 | 90.0 | 125.0 | 116.5 | 109.5 | 167.0 | 120.0 | 233.0 | 76.5 | 76.5 | 76.5 | 2.509 | 1 |
| 1060125072 | 125 | 110.0 | 125.0 | 116.5 | 113.5 | 167.0 | 147.0 | 233.0 | 76.5 | 76.5 | 76.5 | 2.563 | 1 |

Red. T-piece, socket- & butt welding

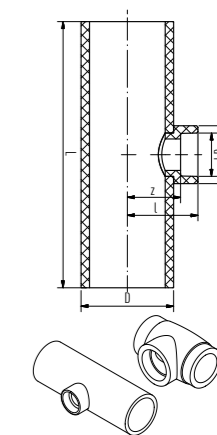
branch: socket welding

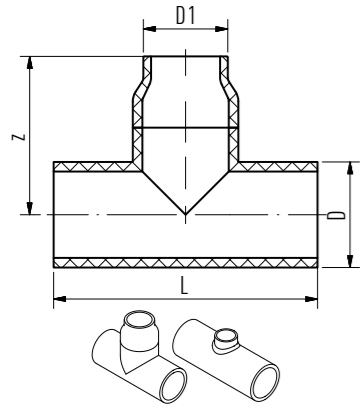
Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d1 | l | D | D1 | L | z | kg | PU |
|---------------|-------|-------|-------|-------|-------|-------|--------|----|
| SDR 7.4 | | | | | | | | |
| 1062160073 | 75.0 | 122.0 | 160.0 | 100.0 | 460.0 | 92.0 | 4.414 | 1 |
| 1062160075 | 90.0 | 125.0 | 160.0 | 120.0 | 460.0 | 92.0 | 4.515 | 1 |
| 1062160077 ** | 125.0 | 120.0 | 160.0 | 167.0 | 290.0 | 80.0 | 3.441 | 1 |
| 1062200079 | 75.0 | 142.0 | 200.0 | 100.0 | 500.0 | 112.0 | 7.110 | 1 |
| 1062200081 | 90.0 | 145.0 | 200.0 | 120.0 | 500.0 | 112.0 | 7.540 | 1 |
| 1062200083 | 110.0 | 149.0 | 200.0 | 147.0 | 500.0 | 112.0 | 7.325 | 1 |
| 1062200085 | 125.0 | 155.0 | 200.0 | 167.0 | 500.0 | 115.0 | 7.645 | 1 |
| 1062250089 | 75.0 | 167.0 | 250.0 | 100.0 | 750.0 | 137.0 | 16.600 | 1 |
| 1062250091 | 90.0 | 170.0 | 250.0 | 120.0 | 750.0 | 137.0 | 16.800 | 1 |
| 1062250093 | 110.0 | 174.0 | 250.0 | 147.0 | 750.0 | 137.0 | 16.800 | 1 |
| 1062250095 | 125.0 | 180.0 | 250.0 | 167.0 | 750.0 | 140.0 | 17.000 | 1 |
| SDR 9 | | | | | | | | |
| 1063160120 | 75.0 | 122.0 | 160.0 | 100.0 | 460.0 | 92.0 | 3.903 | 1 |
| 1063160121 | 90.0 | 125.0 | 160.0 | 120.0 | 460.0 | 92.0 | 4.039 | 1 |
| 1063200122 | 75.0 | 142.0 | 200.0 | 100.0 | 500.0 | 112.0 | 6.476 | 1 |
| 1063200123 | 90.0 | 145.0 | 200.0 | 120.0 | 500.0 | 112.0 | 6.581 | 1 |
| 1063200124 | 110.0 | 149.0 | 200.0 | 147.0 | 500.0 | 112.0 | 6.863 | 1 |
| 1063200125 | 125.0 | 155.0 | 200.0 | 167.0 | 500.0 | 115.0 | 7.114 | 1 |
| 1063250127 | 75.0 | 167.0 | 250.0 | 100.0 | 750.0 | 137.0 | 14.802 | 1 |
| 1063250128 | 90.0 | 170.0 | 250.0 | 120.0 | 750.0 | 137.0 | 14.932 | 1 |
| 1063250129 | 110.0 | 174.0 | 250.0 | 147.0 | 750.0 | 137.0 | 15.178 | 1 |
| 1063250130 | 125.0 | 180.0 | 250.0 | 167.0 | 750.0 | 140.0 | 15.398 | 1 |
| 1063315133 * | 125.0 | 212.5 | 315.0 | 167.0 | 920.0 | 172.5 | 29.196 | 1 |
| SDR 11 | | | | | | | | |
| 1064160074 | 75.0 | 122.0 | 160.0 | 100.0 | 460.0 | 92.0 | 3.140 | 1 |
| 1064160076 | 90.0 | 125.0 | 160.0 | 120.0 | 460.0 | 92.0 | 3.176 | 1 |
| 1064160078 ** | 125.0 | 120.0 | 160.0 | 167.0 | 290.0 | 80.0 | 2.842 | 1 |
| 1064200080 | 75.0 | 142.0 | 200.0 | 100.0 | 500.0 | 112.0 | 5.284 | 1 |
| 1064200082 | 90.0 | 145.0 | 200.0 | 120.0 | 500.0 | 112.0 | 5.168 | 1 |
| 1064200084 | 110.0 | 149.0 | 200.0 | 147.0 | 500.0 | 112.0 | 5.648 | 1 |
| 1064200086 | 125.0 | 155.0 | 200.0 | 167.0 | 500.0 | 115.0 | 5.786 | 1 |
| 1064250090 | 75.0 | 167.0 | 250.0 | 100.0 | 750.0 | 137.0 | 12.000 | 1 |
| 1064250092 | 90.0 | 170.0 | 250.0 | 120.0 | 750.0 | 137.0 | 12.000 | 1 |
| 1064250094 | 110.0 | 174.0 | 250.0 | 147.0 | 750.0 | 137.0 | 13.000 | 1 |
| 1064250096 | 125.0 | 180.0 | 250.0 | 167.0 | 750.0 | 140.0 | 12.000 | 1 |
| 1064315101 * | 125.0 | 213.0 | 315.0 | 167.0 | 920.0 | 173.0 | 25.150 | 1 |

*mechanically stabilised through a fibre mix integrated in the middle layer of the fusiolen® PP-R
**Injection molded fitting

Please note! Electrofusion sockets can not be processed directly with injection molded fittings. When using electrofusion sockets either segment welded special fittings must be used or pipe pieces must be welded to the injection molded fittings.



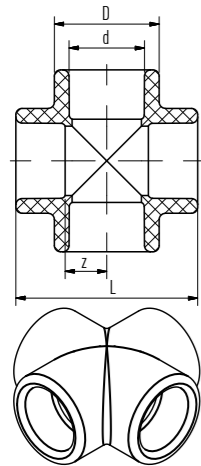


Red. T-piece, butt welding

Material: fusiolen® PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | D | D1 | L | z | kg | PU |
|--------------|-------|-----|-------|-------|--------|----|
| SDR 7.4 | | | | | | |
| 1062200087 | 200.0 | 160 | 500.0 | 300.0 | 10.891 | 1 |
| 1062250097 | 250.0 | 160 | 750.0 | 375.0 | 28.000 | 1 |
| 1062250099 | 250.0 | 200 | 750.0 | 375.0 | 27.000 | 1 |
| SDR 9 | | | | | | |
| 1063200126 | 200.0 | 160 | 500.0 | 300.0 | 9.332 | 1 |
| 1063250131 | 250.0 | 160 | 750.0 | 375.0 | 21.547 | 1 |
| 1063250132 | 250.0 | 200 | 750.0 | 376.0 | 21.853 | 1 |
| 1063315134 * | 315.0 | 160 | 920.0 | 238.0 | 29.237 | 1 |
| 1063315135 | 315.0 | 200 | 920.0 | 460.0 | 42.166 | 1 |
| 1063315136 | 315.0 | 250 | 920.0 | 460.0 | 42.557 | 1 |
| SDR 11 | | | | | | |
| 1064200088 | 200.0 | 160 | 500.0 | 300.0 | 7.445 | 1 |
| 1064250098 | 250.0 | 160 | 750.0 | 375.0 | 19.500 | 1 |
| 1064250100 | 250.0 | 200 | 750.0 | 375.0 | 18.500 | 1 |
| 1064315102 * | 315.0 | 160 | 920.0 | 237.5 | 24.850 | 1 |
| 1064315103 | 315.0 | 200 | 920.0 | 460.0 | 29.400 | 1 |
| 1064315104 | 315.0 | 250 | 920.0 | 460.0 | 30.500 | 1 |

*Pipe with weld-in saddle

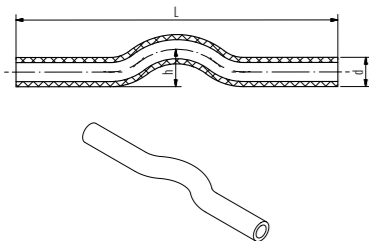


Cross

socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | L | z | kg | PU |
|-------------|----|------|------|------|-------|----|
| 1040020090 | 20 | 29.5 | 51.5 | 11.3 | 0.025 | 10 |
| 1040025091 | 25 | 34.0 | 59.0 | 13.5 | 0.035 | 10 |
| 1040032092 | 32 | 43.0 | 70.0 | 17.0 | 0.062 | 5 |
| 1040040093 | 40 | 52.0 | 83.0 | 21.0 | 0.099 | 5 |



Cross over fitting

socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

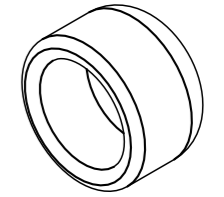
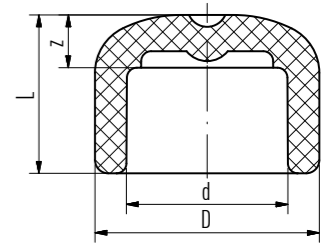
| Article no. | d | L | h | kg | PU |
|-------------|----|-------|------|-------|----|
| 1090020002 | 20 | 352.0 | 32.0 | 0.060 | 10 |
| 1090025003 | 25 | 352.0 | 37.5 | 0.091 | 10 |
| 1090032004 | 32 | 352.0 | 48.0 | 0.154 | 5 |

End cap

socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

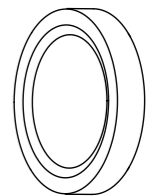
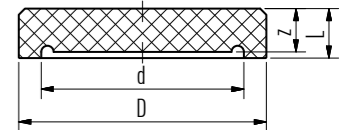
| Article no. | d | D | L | z | kg | PU |
|-------------|-----|-------|------|------|-------|----|
| 1020020002 | 20 | 29.5 | 24.0 | 9.5 | 0.009 | 10 |
| 1020025003 | 25 | 34.0 | 24.0 | 8.0 | 0.011 | 10 |
| 1020032004 | 32 | 43.0 | 29.0 | 11.0 | 0.023 | 5 |
| 1020040005 | 40 | 52.0 | 38.0 | 17.5 | 0.042 | 5 |
| 1020050006 | 50 | 68.0 | 44.5 | 21.0 | 0.082 | 5 |
| 1020063007 | 63 | 84.0 | 52.0 | 24.5 | 0.146 | 1 |
| 1020075008 | 75 | 100.0 | 58.5 | 28.5 | 0.243 | 1 |
| 1020090009 | 90 | 120.0 | 67.5 | 34.5 | 0.365 | 1 |
| 1020110010 | 110 | 147.0 | 65.0 | 28.0 | 0.635 | 1 |
| 1020125011 | 125 | 167.0 | 82.0 | 42.0 | 0.872 | 1 |



End cap butt-welding

Material: fusiolen® PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | L | z | kg | PU |
|-------------|-------|-------|------|------|--------|----|
| SDR 7.4 | | | | | | |
| 1022160012 | 116.2 | 160.0 | 70.0 | 21.9 | 0.876 | 1 |
| 1022200014 | 145.2 | 200.0 | 80.0 | 27.4 | 1.398 | 1 |
| 1022250016 | 181.6 | 250.0 | 90.0 | 34.2 | 2.530 | 1 |
| SDR 9 | | | | | | |
| 1023160022 | 124.2 | 160.0 | 70.0 | 17.9 | 0.847 | 1 |
| 1023200023 | 155.2 | 200.0 | 80.0 | 22.4 | 1.373 | 1 |
| 1023250024 | 194.2 | 250.0 | 90.0 | 27.9 | 2.856 | 1 |
| 1023315025 | 244.6 | 315.0 | 70.0 | 52.5 | 5.080 | 1 |
| 1023355026 | 275.6 | 355.0 | 80.0 | 66.5 | 7.050 | 1 |
| SDR 11 | | | | | | |
| 1024160013 | 130.8 | 160.0 | 70.0 | 14.6 | 0.631 | 1 |
| 1024200015 | 163.6 | 200.0 | 80.0 | 18.2 | 1.070 | 1 |
| 1024250017 | 204.6 | 250.0 | 90.0 | 22.7 | 1.989 | 1 |
| 1024315018 | 257.8 | 315.0 | 70.0 | 52.5 | 4.200 | 1 |
| 1024355019 | 290.6 | 355.0 | 80.0 | 67.5 | 6.410 | 1 |
| 1024400020 | 327.4 | 400.0 | 70.0 | 60.0 | 7.190 | 1 |
| 1024450021 | 368.2 | 450.0 | 80.0 | 70.0 | 10.500 | 1 |

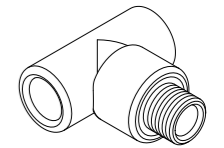
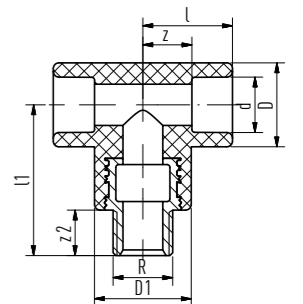


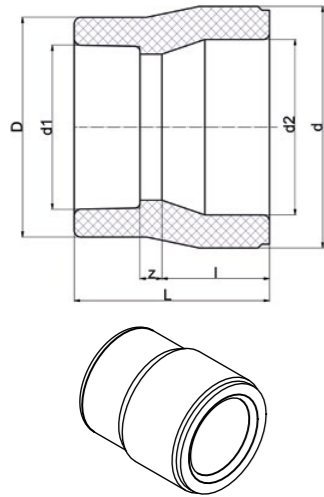
Threaded branch tee with male thread

SDR 6 / 7.4 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | D | D1 | z2 | R | z | kg | PU |
|-------------|----|------|------|------|------|------|------|------|-------|----|
| 1060020154 | 20 | 31.5 | 53.0 | 29.5 | 37.0 | 16.0 | 1/2" | 17.0 | 0.102 | 10 |





Reducing socket, socket welding

double-sided socket welding — SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

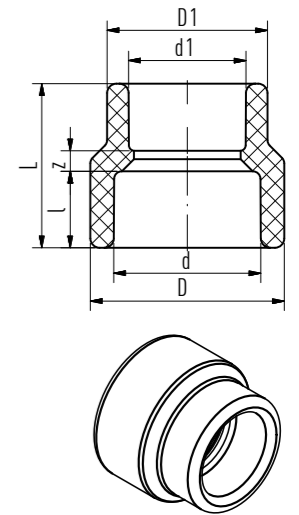
| Article no. | d | d1 | d2 | l | D | L | z | kg | PU |
|-------------|-----|-------|------|------|-------|-------|------|-------|----|
| 1040020020 | 20 | 16.0 | 13.5 | 14.5 | 24.5 | 39.0 | 11.5 | 0.009 | 10 |
| 1040025021 | 25 | 16.0 | 16.5 | 16.0 | 26.0 | 38.0 | 9.0 | 0.012 | 10 |
| 1040025022 | 25 | 20.0 | 16.5 | 16.0 | 29.5 | 38.5 | 8.0 | 0.012 | 10 |
| 1040032023 | 32 | 20.0 | 21.5 | 18.0 | 29.5 | 37.5 | 5.0 | 0.015 | 5 |
| 1040032024 | 32 | 25.0 | 21.0 | 18.0 | 34.0 | 38.0 | 4.0 | 0.016 | 5 |
| 1040040025 | 40 | 20.0 | 26.5 | 20.5 | 29.5 | 45.0 | 10.0 | 0.025 | 5 |
| 1040040026 | 40 | 25.0 | 26.5 | 20.5 | 34.0 | 50.0 | 13.5 | 0.028 | 5 |
| 1040040027 | 40 | 32.0 | 26.5 | 20.5 | 43.0 | 50.0 | 11.5 | 0.032 | 5 |
| 1040050028 | 50 | 20.0 | 33.5 | 23.5 | 29.5 | 55.0 | 17.0 | 0.045 | 5 |
| 1040050029 | 50 | 25.0 | 33.5 | 23.5 | 34.0 | 55.0 | 15.5 | 0.044 | 5 |
| 1040050030 | 50 | 32.0 | 33.5 | 23.5 | 43.0 | 54.0 | 12.5 | 0.048 | 5 |
| 1040050031 | 50 | 40.0 | 33.5 | 23.5 | 52.0 | 53.0 | 9.0 | 0.053 | 5 |
| 1040063032 | 63 | 20.0 | 42.0 | 27.5 | 29.5 | 65.0 | 23.0 | 0.073 | 1 |
| 1040063033 | 63 | 25.0 | 42.0 | 27.5 | 34.0 | 65.0 | 21.5 | 0.071 | 1 |
| 1040063034 | 63 | 32.0 | 42.0 | 27.5 | 43.0 | 62.0 | 16.5 | 0.080 | 1 |
| 1040063035 | 63 | 40.0 | 42.0 | 27.5 | 52.0 | 64.5 | 16.5 | 0.089 | 1 |
| 1040063036 | 63 | 50.0 | 42.0 | 27.5 | 68.0 | 63.5 | 12.5 | 0.107 | 1 |
| 1040075037 | 75 | 40.0 | 50.0 | 30.0 | 52.0 | 69.5 | 19.0 | 0.131 | 1 |
| 1040075038 | 75 | 50.0 | 50.0 | 30.0 | 68.0 | 63.0 | 9.5 | 0.141 | 1 |
| 1040075039 | 75 | 63.0 | 50.0 | 30.0 | 84.0 | 71.0 | 13.5 | 0.170 | 1 |
| 1040075040 | 75 | 20.0 | 50.0 | 30.0 | 34.5 | 65.5 | 21.0 | 0.113 | 1 |
| 1040075041 | 75 | 25.0 | 50.0 | 30.0 | 34.5 | 65.5 | 19.5 | 0.111 | 1 |
| 1040075042 | 75 | 32.0 | 50.0 | 30.0 | 52.0 | 69.5 | 21.5 | 0.140 | 1 |
| 1040090043 | 90 | 50.0 | 60.0 | 33.0 | 68.0 | 75.0 | 18.5 | 0.193 | 1 |
| 1040090044 | 90 | 63.0 | 60.0 | 33.0 | 84.0 | 78.0 | 17.5 | 0.224 | 1 |
| 1040090045 | 90 | 75.0 | 60.0 | 33.0 | 100.0 | 81.5 | 18.5 | 0.273 | 1 |
| 1040110046 | 110 | 63.0 | 73.5 | 37.0 | 84.0 | 86.0 | 21.5 | 0.356 | 1 |
| 1040110047 | 110 | 75.0 | 73.5 | 37.0 | 100.0 | 89.0 | 22.0 | 0.383 | 1 |
| 1040110048 | 110 | 90.0 | 73.5 | 37.0 | 120.0 | 99.0 | 29.0 | 0.500 | 1 |
| 1040125049 | 125 | 75.0 | 84.0 | 40.0 | 100.0 | 101.0 | 31.0 | 0.518 | 1 |
| 1040125050 | 125 | 90.0 | 84.0 | 40.0 | 120.0 | 99.0 | 26.0 | 0.588 | 1 |
| 1040125051 | 125 | 110.0 | 84.0 | 40.0 | 147.0 | 112.0 | 35.0 | 0.832 | 1 |

Reducing socket female/female

double-sided socket welding — SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | d1 | l | D | D1 | L | z | kg | PU |
|-------------|-----|-------|------|-------|-------|------|------|-------|----|
| 1040040073 | 40 | 32.0 | 20.5 | 52.0 | 43.0 | 44.0 | 5.5 | 0.035 | 1 |
| 1040050074 | 50 | 32.0 | 23.5 | 68.0 | 43.0 | 53.0 | 11.5 | 0.066 | 1 |
| 1040050075 | 50 | 40.0 | 23.5 | 68.0 | 52.0 | 50.5 | 6.3 | 0.069 | 1 |
| 1040063076 | 63 | 40.0 | 27.5 | 84.0 | 52.0 | 61.0 | 13.0 | 0.115 | 1 |
| 1040063077 | 63 | 50.0 | 27.5 | 84.0 | 68.0 | 56.0 | 5.0 | 0.120 | 1 |
| 1040075078 | 75 | 50.0 | 30.0 | 100.0 | 68.0 | 68.0 | 14.5 | 0.192 | 1 |
| 1040075079 | 75 | 63.0 | 30.0 | 100.0 | 84.0 | 62.5 | 5.0 | 0.185 | 1 |
| 1040090080 | 90 | 63.0 | 33.0 | 120.0 | 84.0 | 74.0 | 13.5 | 0.276 | 1 |
| 1040090081 | 90 | 75.0 | 33.0 | 120.0 | 100.0 | 69.0 | 6.0 | 0.297 | 1 |
| 1040110082 | 110 | 75.0 | 37.0 | 147.0 | 100.0 | 85.0 | 18.0 | 0.516 | 1 |
| 1040110083 | 110 | 90.0 | 37.0 | 147.0 | 120.0 | 77.3 | 7.3 | 0.520 | 1 |
| 1040125084 | 125 | 90.0 | 40.0 | 167.0 | 120.0 | 91.0 | 18.0 | 0.749 | 1 |
| 1040125085 | 125 | 110.0 | 40.0 | 167.0 | 147.0 | 87.0 | 10.0 | 0.726 | 1 |

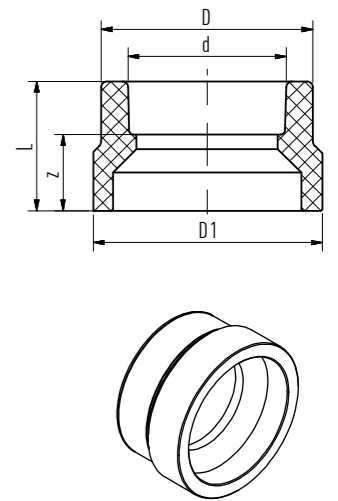


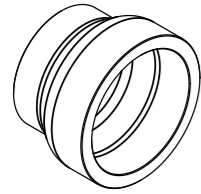
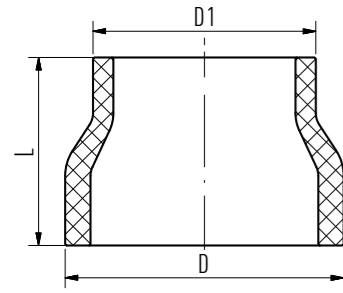
Reducing socket, socket & butt welding

one side socket welding, other side butt welding

Material: fusiolen® PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | D1 | L | z | kg | PU |
|-------------|-----|-------|-----|-------|------|-------|----|
| SDR 7.4 | | | | | | | |
| 1042160052 | 110 | 147.0 | 160 | 90.0 | 53.0 | 0.730 | 1 |
| 1042160054 | 125 | 167.0 | 160 | 90.0 | 50.0 | 0.837 | 1 |
| 1042200056 | 125 | 167.0 | 200 | 135.0 | 95.0 | 1.644 | 1 |
| SDR 9 | | | | | | | |
| 1043160122 | 110 | 147.0 | 160 | 90.0 | 53.0 | 0.694 | 1 |
| 1043160123 | 125 | 167.0 | 160 | 90.0 | 50.0 | 0.868 | 1 |
| 1043200124 | 125 | 167.0 | 200 | 135.0 | 95.0 | 1.599 | 1 |
| SDR 11 | | | | | | | |
| 1044160053 | 110 | 147.0 | 160 | 90.0 | 53.0 | 0.673 | 1 |
| 1044160055 | 125 | 167.0 | 160 | 90.0 | 50.0 | 0.709 | 1 |
| 1044200057 | 125 | 167.0 | 200 | 135.0 | 95.0 | 1.341 | 1 |





Reducing socket, butt welding

double-sided butt welding

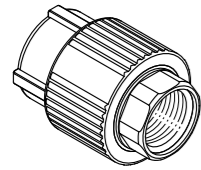
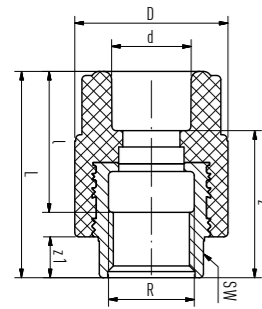
Material: fusiolen® PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | D | D1 | L | kg | PU |
|-------------|-------|-----|-------|-------|----|
| SDR 7.4 | 200.0 | 160 | 135.0 | 1.609 | 1 |
| 1042200058 | 250.0 | 160 | 172.5 | 2.881 | 1 |
| 1042250060 | 250.0 | 200 | 172.5 | 3.250 | 1 |
| 1042250062 | | | | | |
| SDR 9 | | | | | |
| 1043200125 | 200.0 | 160 | 135.0 | 1.588 | 1 |
| 1043250126 | 250.0 | 160 | 172.5 | 2.900 | 1 |
| 1043250127 | 250.0 | 200 | 172.5 | 3.206 | 1 |
| 1043315128 | 315.0 | 250 | 225.0 | 7.050 | 1 |
| 1043315131 | 315.0 | 200 | 225.0 | 6.350 | 1 |
| SDR 11 | | | | | |
| 1044200059 | 200.0 | 160 | 135.0 | 1.140 | 1 |
| 1044250061 | 250.0 | 160 | 172.5 | 2.152 | 1 |
| 1044250063 | 250.0 | 200 | 172.5 | 2.681 | 1 |
| 1044315065 | 315.0 | 250 | 225.0 | 4.690 | 1 |

Transition piece with female thread

with spanner flat — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass or stainless steel
Standards: DIN 16962, DIN EN ISO 15874
Colour: green



| Article no. | d | l | D | L | z | z1 | R | SW | kg | PU |
|--------------|----|------|-------|------|------|------|--------|----|-------|----|
| 1070020008 | 20 | 34.5 | 38.5 | 50.5 | 36.0 | 10.0 | 1/2" | 24 | 0.078 | 10 |
| 1070020009 | 20 | 29.0 | 43.5 | 50.0 | 35.5 | 10.0 | 3/4" | 31 | 0.112 | 10 |
| 1070025010 | 25 | 36.0 | 38.5 | 52.0 | 36.0 | 10.0 | 1/2" | 24 | 0.081 | 10 |
| 1070025011 | 25 | 29.0 | 43.5 | 50.0 | 34.0 | 10.0 | 3/4" | 31 | 0.109 | 10 |
| 1070032012 | 32 | 32.0 | 43.5 | 53.0 | 35.0 | 10.0 | 3/4" | 31 | 0.114 | 5 |
| 1070032013 | 32 | 37.5 | 60.0 | 59.5 | 41.5 | 14.0 | 1" | 39 | 0.239 | 5 |
| 1070040014 | 40 | 40.0 | 60.0 | 62.0 | 41.5 | 14.0 | 1" | 39 | 0.227 | 5 |
| 1070040015 | 40 | 40.0 | 74.0 | 63.0 | 42.5 | 15.0 | 1 1/4" | 50 | 0.385 | 5 |
| 1070050016 | 50 | 43.0 | 74.0 | 66.0 | 42.5 | 15.0 | 1 1/4" | 50 | 0.404 | 5 |
| 1070050017 | 50 | 45.0 | 85.5 | 67.0 | 43.5 | 15.0 | 1 1/2" | 55 | 0.418 | 5 |
| 1070063018 | 63 | 51.5 | 84.0 | 73.5 | 46.0 | 15.0 | 1 1/2" | 55 | 0.442 | 1 |
| 1070063019 | 63 | 51.0 | 101.0 | 77.0 | 49.5 | 19.0 | 2" | 67 | 0.600 | 1 |
| 1070075020 | 75 | 51.0 | 100.0 | 77.0 | 47.0 | 19.0 | 2" | 67 | 0.608 | 1 |
| 1070032066 * | 32 | 37.5 | 60.0 | 59.5 | 41.5 | 14.0 | 1" | 39 | 0.232 | 5 |
| 1070040067 * | 40 | 40.0 | 60.0 | 62.0 | 41.5 | 14.0 | 1" | 39 | 0.219 | 5 |
| 1070040068 * | 40 | 40.0 | 74.0 | 63.0 | 42.5 | 15.0 | 1 1/4" | 50 | 0.331 | 5 |
| 1070050069 * | 50 | 43.0 | 74.0 | 66.0 | 42.5 | 15.0 | 1 1/4" | 50 | 0.351 | 5 |
| 1070050070 * | 50 | 45.0 | 84.0 | 67.0 | 43.5 | 15.0 | 1 1/2" | 55 | 0.445 | 5 |
| 1070063071 * | 63 | 51.5 | 84.0 | 73.5 | 46.0 | 15.0 | 1 1/2" | 55 | 0.425 | 1 |
| 1070063072 * | 63 | 51.0 | 101.0 | 77.0 | 49.5 | 19.0 | 2" | 67 | 0.196 | 1 |
| 1070075073 * | 75 | 51.0 | 100.0 | 77.0 | 47.0 | 19.0 | 2" | 67 | 0.676 | 1 |

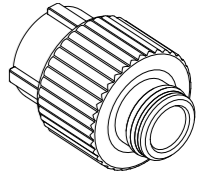
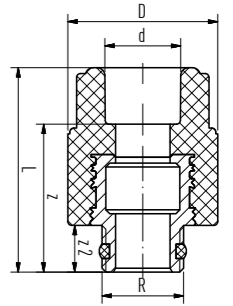
*stainless steel

Transition piece with male thread

round, self sealing — SDR 6 / 7.4 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | L | z | z2 | R | kg | PU |
|-------------|----|------|------|------|------|------|-------|----|
| 1070020051 | 20 | 38.5 | 52.5 | 38.0 | 12.0 | 1/2" | 0.090 | 10 |
| 1070025052 | 25 | 38.5 | 54.0 | 38.0 | 12.0 | 1/2" | 0.078 | 10 |
| 1070025053 | 25 | 38.5 | 53.5 | 37.5 | 13.0 | 3/4" | 0.085 | 10 |



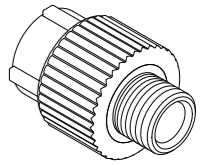
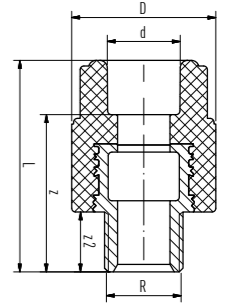
Transition piece with male thread

round — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass or stainless steel
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | L | z | z2 | R | kg | PU |
|--------------|----|------|------|------|------|------|-------|----|
| 1070020022 | 20 | 38.5 | 56.5 | 42.0 | 16.0 | 1/2" | 0.084 | 10 |
| 1070020023 | 20 | 38.5 | 57.5 | 43.0 | 17.0 | 3/4" | 0.109 | 10 |
| 1070025024 | 25 | 38.5 | 58.0 | 42.0 | 16.0 | 1/2" | 0.085 | 10 |
| 1070025025 | 25 | 38.5 | 57.5 | 41.5 | 17.0 | 3/4" | 0.090 | 10 |
| 1070032026 | 32 | 38.5 | 59.5 | 41.5 | 17.0 | 3/4" | 0.095 | 5 |
| 1070020074 * | 20 | 38.5 | 56.5 | 42.0 | 16.0 | 1/2" | 0.096 | 10 |
| 1070020075 * | 20 | 38.5 | 57.5 | 43.0 | 17.0 | 3/4" | 0.108 | 10 |
| 1070025076 * | 25 | 38.5 | 58.0 | 42.0 | 16.0 | 1/2" | 0.098 | 10 |
| 1070025077 * | 25 | 38.5 | 57.5 | 41.5 | 17.0 | 3/4" | 0.108 | 10 |
| 1070032078 * | 32 | 38.5 | 59.5 | 41.5 | 17.0 | 3/4" | 0.115 | 5 |

*Stainless steel

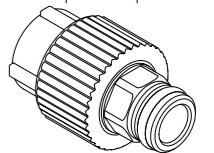
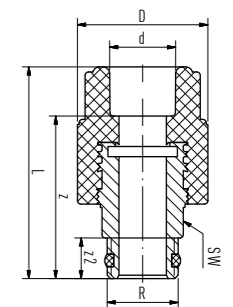


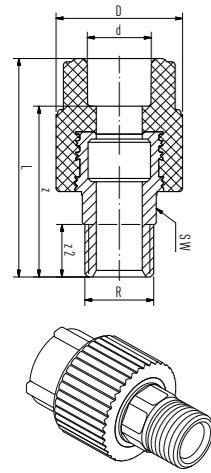
Transition piece with male thread

self sealing, with hex shaped threaded transition — SDR 6 / 7.4 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | L | z | z2 | R | SW | kg | PU |
|-------------|----|------|------|------|------|------|----|-------|----|
| 1070020056 | 20 | 38.5 | 63.5 | 49.0 | 13.0 | 1/2" | 22 | 0.111 | 10 |





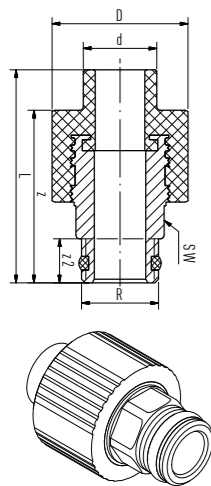
Transition piece with male thread

with spanner flat — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass or stainless steel
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | L | z | z2 | R | SW | kg | PU |
|--------------|-----|-------|-------|-------|------|--------|-----|-------|----|
| 1070020027 | 20 | 38.5 | 66.5 | 52.0 | 16.0 | 1/2" | 22 | 0.104 | 10 |
| 1070020028 | 20 | 38.5 | 67.5 | 53.0 | 17.0 | 3/4" | 24 | 0.129 | 10 |
| 1070025029 | 25 | 38.5 | 68.0 | 52.0 | 16.0 | 1/2" | 21 | 0.107 | 10 |
| 1070025030 | 25 | 38.5 | 67.5 | 51.5 | 17.0 | 3/4" | 24 | 0.103 | 10 |
| 1070032031 | 32 | 53.0 | 78.5 | 60.5 | 20.0 | 1" | 32 | 0.216 | 5 |
| 1070032032 | 32 | 68.0 | 81.0 | 63.0 | 21.0 | 1 1/4" | 42 | 0.318 | 5 |
| 1070040033 | 40 | 52.0 | 81.0 | 60.5 | 20.0 | 1" | 32 | 0.222 | 5 |
| 1070040034 | 40 | 68.0 | 84.5 | 64.0 | 21.0 | 1 1/4" | 42 | 0.324 | 5 |
| 1070050035 | 50 | 68.0 | 85.5 | 62.0 | 21.0 | 1 1/4" | 42 | 0.351 | 5 |
| 1070050036 | 50 | 74.0 | 88.5 | 65.0 | 22.0 | 1 1/2" | 46 | 0.425 | 5 |
| 1070063037 | 63 | 72.5 | 94.5 | 67.0 | 22.0 | 1 1/2" | 46 | 0.467 | 1 |
| 1070063038 | 63 | 84.0 | 102.5 | 75.0 | 23.5 | 2" | 50 | 0.685 | 1 |
| 1070075039 | 75 | 84.0 | 102.0 | 72.0 | 23.5 | 2" | 50 | 0.733 | 1 |
| 1070075040 | 75 | 100.0 | 105.0 | 75.0 | 26.7 | 2 1/2" | 65 | 0.970 | 1 |
| 1070090041 | 90 | 120.0 | 121.0 | 88.0 | 30.0 | 3" | 85 | 1.326 | 1 |
| 1070110042 | 110 | 147.0 | 148.0 | 111.0 | 39.0 | 4" | 105 | 2.730 | 1 |
| 1070032079 * | 32 | 53.0 | 78.5 | 60.5 | 20.0 | 1" | 32 | 0.204 | 5 |
| 1070032080 * | 32 | 68.0 | 81.0 | 63.0 | 21.0 | 1 1/4" | 41 | 0.360 | 5 |
| 1070040081 * | 40 | 52.0 | 81.0 | 60.5 | 20.0 | 1" | 32 | 0.251 | 5 |
| 1070040082 * | 40 | 68.0 | 84.5 | 64.0 | 21.0 | 1 1/4" | 41 | 0.362 | 5 |
| 1070050083 * | 50 | 68.0 | 85.5 | 62.0 | 21.0 | 1 1/4" | 41 | 0.389 | 5 |
| 1070050084 * | 50 | 74.0 | 88.5 | 65.0 | 22.0 | 1 1/2" | 46 | 0.480 | 5 |
| 1070063085 * | 63 | 72.5 | 94.5 | 67.0 | 22.0 | 1 1/2" | 46 | 0.523 | 1 |
| 1070063086 * | 63 | 84.0 | 102.5 | 75.0 | 23.5 | 2" | 50 | 0.708 | 1 |
| 1070075087 * | 75 | 84.0 | 102.0 | 72.0 | 23.5 | 2" | 50 | 0.699 | 1 |

*stainless steel



Transition piece with male thread

self-sealing, with hex shaped threaded transition female/male
SDR 6 / 7.4 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | L | z | z2 | R | SW | kg | PU |
|-------------|----|------|------|------|------|------|----|-------|----|
| 1070020054 | 20 | 38.5 | 59.0 | 48.0 | 13.0 | 1/2" | 22 | 0.107 | 10 |

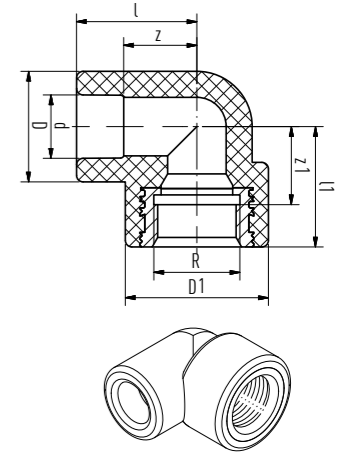
Transition elbow with female thread

brass or stainless steel — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass or stainless steel
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | D | D1 | z | z1 | R | kg | PU |
|--------------|----|------|------|------|------|------|------|------|-------|----|
| 1070020091 | 20 | 37.0 | 37.0 | 34.0 | 44.0 | 22.5 | 24.0 | 3/4" | 0.102 | 10 |
| 1070020092 | 20 | 31.0 | 31.5 | 29.5 | 37.0 | 16.5 | 18.5 | 1/2" | 0.076 | 10 |
| 1070025093 | 25 | 37.0 | 37.0 | 34.0 | 44.0 | 21.0 | 24.0 | 3/4" | 0.100 | 10 |
| 1070025094 | 25 | 33.5 | 31.5 | 34.0 | 37.0 | 17.5 | 18.5 | 1/2" | 0.075 | 10 |
| 1070032095 | 32 | 27.5 | 51.0 | 43.0 | 44.0 | 9.5 | 38.0 | 3/4" | 0.104 | 5 |
| 1070032096 | 32 | 34.0 | 66.5 | 43.0 | 60.5 | 16.0 | 44.5 | 1" | 0.249 | 5 |
| 1070020110 * | 20 | 37.0 | 37.0 | 29.5 | 37.0 | 22.5 | 24.0 | 3/4" | 0.095 | 10 |
| 1070020111 * | 20 | 31.0 | 31.5 | 29.5 | 37.0 | 16.5 | 18.5 | 1/2" | 0.081 | 10 |
| 1070025112 * | 25 | 37.0 | 37.0 | 34.0 | 44.0 | 21.0 | 24.0 | 3/4" | 0.101 | 10 |
| 1070025113 * | 25 | 33.5 | 31.5 | 34.0 | 37.0 | 17.5 | 18.5 | 1/2" | 0.082 | 10 |
| 1070032114 * | 32 | 35.0 | 37.0 | 43.0 | 37.0 | 17.0 | 24.0 | 1/2" | 0.112 | 5 |
| 1070032115 * | 32 | 27.5 | 51.0 | 43.0 | 44.0 | 9.5 | 38.0 | 3/4" | 0.097 | 5 |
| 1070032116 * | 32 | 34.0 | 66.5 | 43.0 | 60.5 | 16.0 | 44.5 | 1" | 0.240 | 5 |

*stainless steel

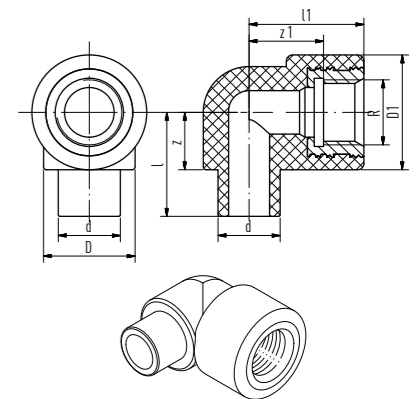


Transition elbow with female thread

SDR 6 / 7.4 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | D | D1 | z | z1 | R | kg | PU |
|-------------|----|------|------|------|------|------|------|------|-------|----|
| 1070020097 | 20 | 33.5 | 37.0 | 29.5 | 37.0 | 18.5 | 24.0 | 1/2" | 0.076 | 10 |



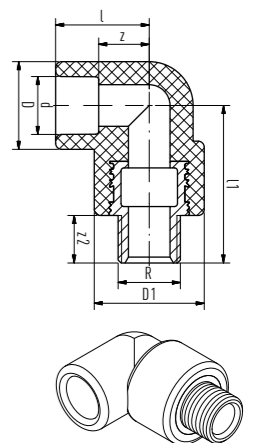
Transition elbow with male thread

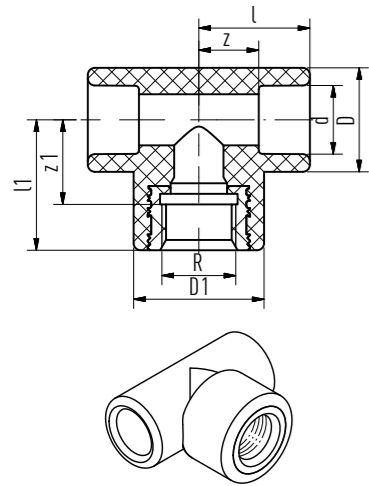
brass or stainless steel — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass or stainless steel
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | D | D1 | z | z2 | R | kg | PU |
|--------------|----|------|------|------|------|------|------|------|-------|----|
| 1070020099 | 20 | 31.5 | 53.0 | 29.5 | 37.0 | 17.0 | 16.0 | 1/2" | 0.108 | 10 |
| 1070020100 | 20 | 31.5 | 54.0 | 34.0 | 38.0 | 17.0 | 17.0 | 3/4" | 0.128 | 10 |
| 1070025101 | 25 | 31.5 | 54.0 | 34.0 | 38.0 | 15.5 | 17.0 | 3/4" | 0.104 | 10 |
| 1070032102 | 32 | 27.5 | 68.0 | 43.0 | 38.0 | 9.5 | 17.0 | 3/4" | 0.112 | 5 |
| 1070032103 | 32 | 31.0 | 85.5 | 43.0 | 52.0 | 13.0 | 20.0 | 1" | 0.231 | 5 |
| 1070020117 * | 20 | 31.5 | 53.0 | 29.5 | 37.0 | 17.0 | 16.0 | 1/2" | 0.035 | 10 |
| 1070020118 * | 20 | 31.5 | 54.0 | 34.0 | 38.0 | 17.0 | 17.0 | 3/4" | 0.123 | 10 |
| 1070025119 * | 25 | 31.5 | 54.0 | 34.0 | 38.0 | 15.5 | 17.0 | 3/4" | 0.121 | 10 |
| 1070032120 * | 32 | 27.5 | 68.0 | 43.0 | 38.0 | 9.5 | 17.0 | 3/4" | 0.128 | 5 |

*stainless steel





Threaded branch tee with female thread

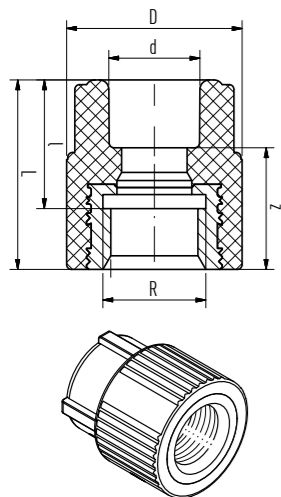
brass or stainless steel — SDR 6 / 7.4 / 9 / 11

Material: fusiole® PP-R / brass or stainless steel
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | D | D1 | z | z1 | R | kg | PU |
|--------------|----|------|------|------|------|------|------|------|-------|----|
| 1060020141 | 20 | 31.5 | 37.0 | 29.5 | 37.0 | 17.0 | 24.0 | 1/2" | 0.086 | 10 |
| 1060020142 | 20 | 37.0 | 37.0 | 34.0 | 44.0 | 22.5 | 24.0 | 3/4" | 0.121 | 10 |
| 1060025143 | 25 | 34.0 | 38.0 | 34.0 | 37.0 | 18.0 | 25.0 | 1/2" | 0.090 | 10 |
| 1060025144 | 25 | 37.0 | 37.0 | 34.0 | 44.0 | 21.0 | 24.0 | 3/4" | 0.109 | 10 |
| 1060032145 | 32 | 35.0 | 37.0 | 43.0 | 37.0 | 17.0 | 24.0 | 1/2" | 0.103 | 5 |
| 1060032146 | 32 | 27.5 | 51.0 | 43.0 | 44.0 | 9.5 | 38.0 | 3/4" | 0.111 | 5 |
| 1060032147 | 32 | 31.5 | 67.0 | 43.0 | 60.0 | 13.5 | 45.0 | 1" | 0.255 | 5 |
| 1060040148 | 40 | 42.0 | 40.0 | 52.0 | 37.0 | 21.5 | 27.0 | 1/2" | 0.142 | 5 |
| 1060040149 | 40 | 40.5 | 40.5 | 52.0 | 52.0 | 20.0 | 27.5 | 3/4" | 0.147 | 5 |
| 1060040150 | 40 | 41.5 | 56.0 | 52.0 | 60.0 | 21.0 | 34.0 | 1" | 0.276 | 5 |
| 1060050151 | 50 | 49.5 | 63.5 | 68.0 | 60.0 | 26.0 | 41.5 | 1" | 0.385 | 5 |
| 1060050152 | 50 | 49.5 | 44.5 | 68.0 | 43.0 | 26.0 | 31.5 | 1/2" | 0.237 | 5 |
| 1060050153 | 50 | 49.5 | 44.5 | 68.0 | 43.0 | 26.0 | 31.5 | 3/4" | 0.243 | 5 |
| 1060020160 * | 20 | 31.5 | 37.0 | 29.5 | 37.0 | 17.0 | 24.0 | 1/2" | 0.087 | 10 |
| 1060020161 * | 20 | 37.0 | 37.0 | 34.0 | 44.0 | 22.5 | 24.0 | 3/4" | 0.108 | 10 |
| 1060025162 * | 25 | 34.5 | 38.0 | 34.0 | 37.0 | 18.5 | 25.0 | 1/2" | 0.093 | 10 |
| 1060025163 * | 25 | 37.0 | 37.0 | 34.0 | 44.0 | 21.0 | 24.0 | 3/4" | 0.111 | 10 |
| 1060032164 * | 32 | 35.0 | 37.0 | 43.0 | 37.0 | 17.0 | 24.0 | 1/2" | 0.113 | 5 |
| 1060032165 * | 32 | 27.5 | 51.0 | 43.0 | 44.0 | 9.5 | 38.0 | 3/4" | 0.111 | 5 |
| 1060032166 * | 32 | 31.5 | 67.0 | 43.0 | 60.0 | 13.5 | 45.0 | 1" | 0.082 | 5 |

*stainless steel

NOTICE: aquatherm green-metal compound fittings are manufactured from fusiole® PP-R and brass. Metal inserts, without hex shaped spanner flat, with 1/2" and 3/4" female are also available in stainless steel.



Transition piece with female thread

round, brass or stainless steel — SDR 6 / 7.4 / 9 / 11

Material: fusiole® PP-R / brass or stainless steel
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | D | L | z | R | kg | PU |
|--------------|----|------|------|------|------|------|-------|----|
| 1070020002 | 20 | 27.5 | 37.5 | 40.5 | 26.0 | 1/2" | 0.064 | 10 |
| 1070020003 | 20 | 27.5 | 43.5 | 40.5 | 26.0 | 3/4" | 0.089 | 10 |
| 1070025004 | 25 | 29.5 | 38.5 | 42.5 | 26.5 | 1/2" | 0.065 | 10 |
| 1070025005 | 25 | 27.5 | 43.5 | 40.5 | 24.5 | 3/4" | 0.087 | 10 |
| 1070032006 | 32 | 30.5 | 43.5 | 43.5 | 25.5 | 3/4" | 0.092 | 5 |
| 1070020060 * | 20 | 27.5 | 37.5 | 40.5 | 26.0 | 1/2" | 0.069 | 10 |
| 1070020061 * | 20 | 27.5 | 43.5 | 40.5 | 26.0 | 3/4" | 0.090 | 10 |
| 1070025062 * | 25 | 29.5 | 38.5 | 42.5 | 26.5 | 1/2" | 0.069 | 10 |
| 1070025063 * | 25 | 27.5 | 43.5 | 40.5 | 24.5 | 3/4" | 0.086 | 10 |
| 1070032064 * | 32 | 30.5 | 43.5 | 43.5 | 25.5 | 3/4" | 0.092 | 5 |
| 1070032065 * | 32 | 28.0 | 37.0 | 41.0 | 23.0 | 1/2" | 0.078 | 5 |

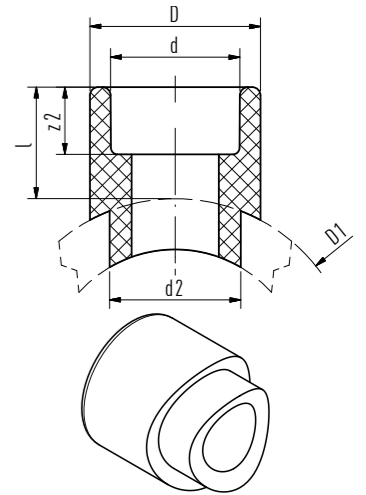
*stainless steel

Weld-in saddle

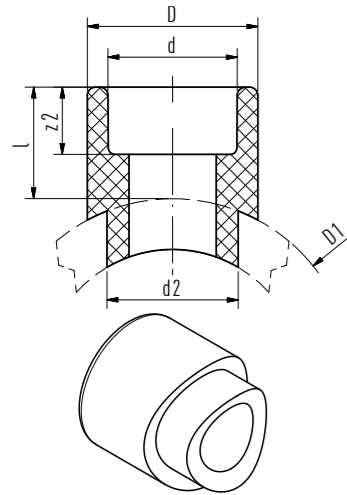
socket welding — SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiole® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | D1 | d | d2 | l | D | z2 | kg | PU |
|--------------|---------|-----|-------|------|-------|------|-------|----|
| 1030040001 * | 40 | 20 | 25.0 | 27.0 | 29.5 | 14.5 | 0.016 | 5 |
| 1030040002 * | 40 | 25 | 25.0 | 28.5 | 34.0 | 16.0 | 0.017 | 5 |
| 1030050003 | 50 | 20 | 25.0 | 27.5 | 29.5 | 14.5 | 0.018 | 5 |
| 1030050004 | 50 | 25 | 25.0 | 28.5 | 34.0 | 16.0 | 0.019 | 5 |
| 1030063005 | 63 | 20 | 25.0 | 27.5 | 29.5 | 14.5 | 0.017 | 5 |
| 1030063006 | 63 | 25 | 25.0 | 28.5 | 34.0 | 16.0 | 0.019 | 5 |
| 1030063007 | 63 | 32 | 32.0 | 30.0 | 43.0 | 18.0 | 0.028 | 5 |
| 1030075008 | 75 | 20 | 25.0 | 27.5 | 29.5 | 14.5 | 0.018 | 5 |
| 1030075009 | 75 | 25 | 25.0 | 28.5 | 34.0 | 16.0 | 0.019 | 5 |
| 1030075010 | 75 | 32 | 32.0 | 30.0 | 43.0 | 18.0 | 0.028 | 5 |
| 1030075011 | 75 | 40 | 40.0 | 34.0 | 52.0 | 20.5 | 0.049 | 5 |
| 1030090012 | 90 | 20 | 25.0 | 27.5 | 29.5 | 14.5 | 0.018 | 5 |
| 1030090013 | 90 | 25 | 25.0 | 28.5 | 34.0 | 16.0 | 0.019 | 5 |
| 1030090014 | 90 | 32 | 32.0 | 30.0 | 43.0 | 18.0 | 0.029 | 5 |
| 1030090015 | 90 | 40 | 40.0 | 34.0 | 52.0 | 20.5 | 0.048 | 5 |
| 1030110016 | 110 | 20 | 25.0 | 27.5 | 29.5 | 14.5 | 0.019 | 5 |
| 1030110017 | 110 | 25 | 25.0 | 28.5 | 34.0 | 16.0 | 0.020 | 5 |
| 1030110018 | 110 | 32 | 32.0 | 30.0 | 43.0 | 18.0 | 0.030 | 5 |
| 1030110019 | 110 | 40 | 40.0 | 34.0 | 52.0 | 20.5 | 0.050 | 5 |
| 1030110020 | 110 | 50 | 50.0 | 34.0 | 68.0 | 23.5 | 0.091 | 5 |
| 1030125021 | 125 | 20 | 25.0 | 27.5 | 29.5 | 14.5 | 0.019 | 5 |
| 1030125022 | 125 | 25 | 25.0 | 28.5 | 34.0 | 16.0 | 0.020 | 5 |
| 1030125023 | 125 | 32 | 32.0 | 30.0 | 43.0 | 18.0 | 0.029 | 5 |
| 1030125024 | 125 | 40 | 40.0 | 34.0 | 52.0 | 20.5 | 0.050 | 5 |
| 1030125025 | 125 | 50 | 50.0 | 34.0 | 68.0 | 23.5 | 0.090 | 5 |
| 1030125026 | 125 | 63 | 63.0 | 38.0 | 84.0 | 27.5 | 0.149 | 5 |
| 1030160027 | 160 | 20 | 25.0 | 27.5 | 29.5 | 14.5 | 0.021 | 5 |
| 1030160028 | 160 | 25 | 25.0 | 28.5 | 34.0 | 16.0 | 0.023 | 5 |
| 1030160029 | 160 | 32 | 32.0 | 30.0 | 43.0 | 18.0 | 0.034 | 5 |
| 1030160030 | 160 | 40 | 40.0 | 34.0 | 52.0 | 20.5 | 0.054 | 5 |
| 1030160031 | 160 | 50 | 50.0 | 34.0 | 68.0 | 23.5 | 0.094 | 5 |
| 1030160032 | 160 | 63 | 63.0 | 38.0 | 84.0 | 27.5 | 0.157 | 5 |
| 1030160033 | 160 | 75 | 75.0 | 42.0 | 100.0 | 30.0 | 0.238 | 5 |
| 1030160034 | 160 | 90 | 90.0 | 45.0 | 120.0 | 33.0 | 0.360 | 5 |
| 1030250035 | 200-250 | 20 | 25.0 | 27.5 | 29.5 | 14.5 | 0.020 | 5 |
| 1030250036 | 200-250 | 25 | 25.0 | 28.5 | 34.0 | 16.0 | 0.021 | 5 |
| 1030250037 | 200-250 | 32 | 32.0 | 30.0 | 43.0 | 18.0 | 0.031 | 5 |
| 1030200038 | 200 | 40 | 40.0 | 34.0 | 52.0 | 20.5 | 0.049 | 5 |
| 1030200039 | 200 | 50 | 50.0 | 34.0 | 68.0 | 23.5 | 0.087 | 5 |
| 1030200040 | 200 | 63 | 63.0 | 37.5 | 84.0 | 27.5 | 0.146 | 5 |
| 1030200041 | 200 | 75 | 75.0 | 42.0 | 100.0 | 30.0 | 0.225 | 5 |
| 1030200042 | 200 | 90 | 90.0 | 45.0 | 120.0 | 33.0 | 0.356 | 5 |
| 1030200043 | 200 | 110 | 110.0 | 49.0 | 147.0 | 37.0 | 0.638 | 5 |
| 1030200044 | 200 | 125 | 125.0 | 55.0 | 167.0 | 40.0 | 0.862 | 5 |
| 1030250045 | 250 | 40 | 40.0 | 34.0 | 52.0 | 20.5 | 0.053 | 5 |



*do not use with aquatherm blue OT
continued on next page ...



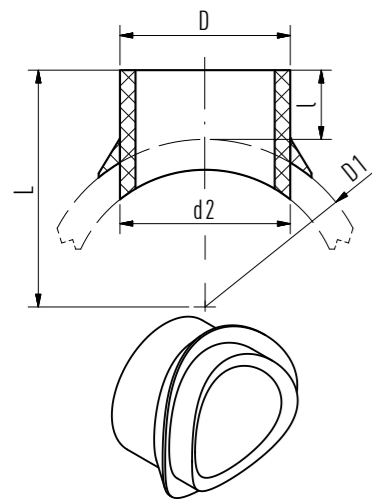
Weld-in saddle

(continued) socket welding — SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | D1 | d | d2 | l | D | z2 | kg | PU |
|-------------|---------|-----|-------|------|-------|------|-------|----|
| 1030250046 | 250 | 50 | 50.0 | 34.0 | 68.0 | 23.5 | 0.090 | 5 |
| 1030250047 | 250 | 63 | 63.0 | 37.5 | 84.0 | 27.5 | 0.152 | 5 |
| 1030250048 | 250 | 75 | 75.0 | 42.0 | 100.0 | 30.0 | 0.222 | 5 |
| 1030250049 | 250 | 90 | 90.0 | 45.0 | 120.0 | 33.0 | 0.348 | 5 |
| 1030250050 | 250 | 110 | 110.0 | 49.0 | 147.0 | 37.0 | 0.602 | 5 |
| 1030250051 | 250 | 125 | 125.0 | 55.0 | 167.0 | 40.0 | 0.820 | 5 |
| 1030315052 | 315-355 | 63 | 63.0 | 37.5 | 84.0 | 27.5 | 0.153 | 1 |
| 1030315053 | 315-355 | 75 | 75.0 | 42.0 | 100.0 | 30.0 | 0.230 | 1 |
| 1030315054 | 315 | 90 | 90.0 | 45.0 | 120.0 | 33.0 | 0.363 | 1 |
| 1030315055 | 315 | 110 | 110.0 | 49.0 | 147.0 | 37.0 | 0.592 | 1 |
| 1030315056 | 315 | 125 | 125.0 | 55.0 | 167.0 | 40.0 | 0.830 | 1 |

With weld-on surface and additional weld-in socket for the fusion with the inner pipe wall. The necessary tools for the fusion of aquatherm green weld-in saddles are listed in the Tools chapter.



Weld-in saddle butt welding

Material: fusiolen® PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | D1 | D | d2 | l | L | kg | PU |
|-------------|-----|-------|-------|------|-------|-------|----|
| SDR 9 | | | | | | | |
| 1033315073 | 315 | 160.0 | 160.0 | 80.0 | 237.5 | 0.831 | 1 |
| 1033355074 | 355 | 160.0 | 160.0 | 80.0 | 257.5 | 0.845 | 1 |
| SDR 11 | | | | | | | |
| 1034315057 | 315 | 160.0 | 160.0 | 80.0 | 237.5 | 0.862 | 1 |
| 1034355061 | 355 | 160.0 | 160.0 | 80.0 | 257.5 | 0.867 | 1 |

With weld-on surface and additional weld-in socket for the fusion with the inner pipe wall. The necessary tools for the fusion of aquatherm green weld-in saddles are listed in the Tools chapter.

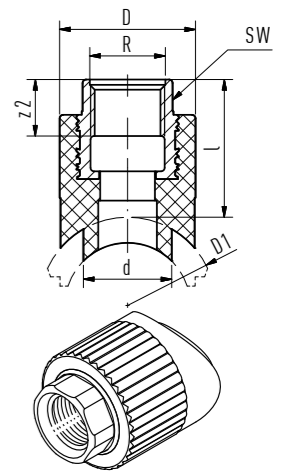
Weld-in saddle with female thread

with spanner flat — SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | D1 | d | l | D | z2 | R | SW | kg | PU |
|--------------|---------|----|------|------|------|------|----|-------|----|
| 1030040100 * | 40 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | 24 | 0.088 | 5 |
| 1030050106 | 50 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | 24 | 0.090 | 5 |
| 1030063112 | 63 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | 24 | 0.089 | 5 |
| 1030075118 | 75 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | 24 | 0.083 | 5 |
| 1030090126 | 90 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | 24 | 0.090 | 5 |
| 1030110134 | 110 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | 24 | 0.089 | 5 |
| 1030125142 | 125 | 25 | 39.0 | 38.0 | 16.0 | 1/2" | 24 | 0.092 | 5 |
| 1030160150 | 160 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | 24 | 0.092 | 5 |
| 1030250158 | 200-250 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | 24 | 0.092 | 5 |
| 1030040101 | 40 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | 31 | 0.107 | 5 |
| 1030050107 | 50 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | 31 | 0.110 | 5 |
| 1030063113 | 63 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | 31 | 0.109 | 5 |
| 1030075119 | 75 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | 31 | 0.109 | 5 |
| 1030090127 | 90 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | 31 | 0.110 | 5 |
| 1030110135 | 110 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | 31 | 0.110 | 5 |
| 1030125143 | 125 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | 31 | 0.112 | 5 |
| 1030160151 | 160 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | 31 | 0.112 | 5 |
| 1030250159 | 200-250 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | 31 | 0.112 | 5 |
| 1030075120 | 75 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.223 | 5 |
| 1030090128 | 90 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.223 | 5 |
| 1030110136 | 110 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.223 | 5 |
| 1030125144 | 125 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.224 | 5 |
| 1030160152 | 160 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.226 | 5 |
| 1030250160 | 200-250 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.244 | 5 |

*do not use with aquatherm blue OT



Weld-in saddle with male thread

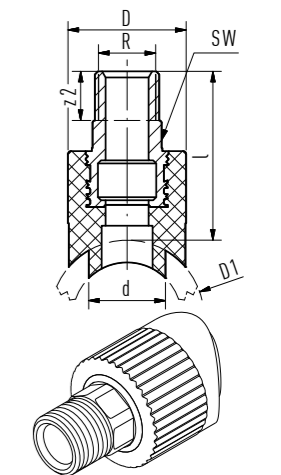
with spanner flat — SDR 6 / 7.4 / 9 / 11 / 17.6

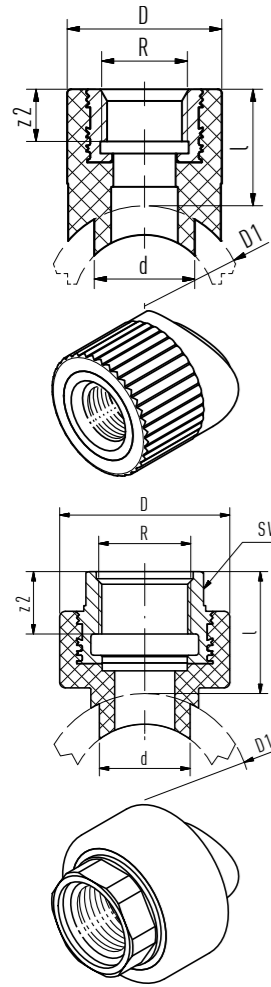
Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | D1 | d | l | D | z2 | R | SW | kg | PU |
|--------------|-----|----|------|------|------|------|----|-------|----|
| 1030040102 * | 40 | 25 | 55.0 | 38.5 | 16.0 | 1/2" | 21 | 0.088 | 5 |
| 1030050108 | 50 | 25 | 55.0 | 38.5 | 16.0 | 1/2" | 21 | 0.090 | 5 |
| 1030063114 | 63 | 25 | 55.0 | 38.5 | 16.0 | 1/2" | 21 | 0.089 | 5 |
| 1030075121 | 75 | 25 | 55.0 | 38.5 | 16.0 | 1/2" | 21 | 0.097 | 5 |
| 1030090129 | 90 | 25 | 55.0 | 38.5 | 16.0 | 1/2" | 21 | 0.090 | 5 |
| 1030110137 | 110 | 25 | 55.0 | 38.5 | 16.0 | 1/2" | 21 | 0.089 | 5 |
| 1030125145 | 125 | 25 | 55.0 | 38.5 | 16.0 | 1/2" | 21 | 0.092 | 5 |
| 1030160153 | 160 | 25 | 55.0 | 38.5 | 16.0 | 1/2" | 21 | 0.092 | 5 |
| 1030040103 * | 40 | 25 | 56.0 | 43.5 | 17.0 | 3/4" | 24 | 0.107 | 5 |
| 1030050109 | 50 | 25 | 56.0 | 43.5 | 17.0 | 3/4" | 24 | 0.110 | 5 |
| 1030063115 | 63 | 25 | 56.0 | 43.5 | 17.0 | 3/4" | 24 | 0.109 | 5 |
| 1030075122 | 75 | 25 | 56.0 | 43.5 | 17.0 | 3/4" | 24 | 0.109 | 5 |
| 1030090130 | 90 | 25 | 56.0 | 43.5 | 17.0 | 3/4" | 24 | 0.110 | 5 |
| 1030110138 | 110 | 25 | 56.0 | 43.5 | 17.0 | 3/4" | 24 | 0.110 | 5 |
| 1030125146 | 125 | 25 | 56.0 | 43.5 | 17.0 | 3/4" | 24 | 0.112 | 5 |
| 1030160154 | 160 | 25 | 56.0 | 43.5 | 17.0 | 3/4" | 24 | 0.112 | 5 |

*do not use with aquatherm blue OT

With weld-on surface and additional weld-in socket for the fusion with the inner pipe wall. The necessary tools for the fusion of aquatherm green weld-in saddles are listed in the Tools chapter.





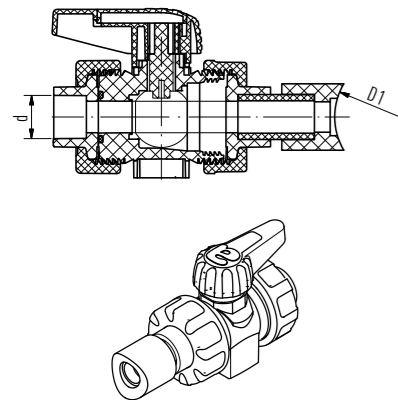
Weld-in saddle with female thread

SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R / stainless steel
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | D1 | d | l | D | z2 | R | SW | kg | PU |
|---------------|---------|----|------|------|------|------|----|-------|----|
| 1030040104 ** | 40 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | - | 0.062 | 5 |
| 1030050110 | 50 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | - | 0.064 | 5 |
| 1030063116 | 63 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | - | 0.064 | 5 |
| 1030075123 | 75 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | - | 0.064 | 5 |
| 1030090131 | 90 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | - | 0.064 | 5 |
| 1030110139 | 110 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | - | 0.069 | 5 |
| 1030125147 | 125 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | - | 0.065 | 5 |
| 1030160155 | 160 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | - | 0.066 | 5 |
| 1030250161 | 200-250 | 25 | 39.0 | 38.5 | 16.0 | 1/2" | - | 0.065 | 5 |
| 1030040105 | 40 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | - | 0.082 | 5 |
| 1030050111 | 50 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | - | 0.074 | 5 |
| 1030063117 | 63 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | - | 0.073 | 5 |
| 1030075124 | 75 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | - | 0.074 | 5 |
| 1030090132 | 90 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | - | 0.074 | 5 |
| 1030110140 | 110 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | - | 0.083 | 5 |
| 1030125148 | 125 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | - | 0.074 | 5 |
| 1030160156 | 160 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | - | 0.076 | 5 |
| 1030250162 | 200-250 | 25 | 39.0 | 43.5 | 21.0 | 3/4" | - | 0.084 | 5 |
| 1030075125 * | 75 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.234 | 5 |
| 1030090133 * | 90 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.235 | 5 |
| 1030110141 * | 110 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.236 | 5 |
| 1030125149 * | 125 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.235 | 5 |
| 1030160157 * | 160 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.238 | 5 |
| 1030250163 * | 200-250 | 32 | 43.0 | 60.0 | 22.0 | 1" | 39 | 0.237 | 5 |

*with spanner
**do not use with aquatherm blue OT



aquatherm weld-on saddle

with ball valve for installation under pressure in use with tapping tool
SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D1 | PU |
|-------------|----|---------|----|
| 1090075010 | 40 | 75 | 1 |
| 1090090011 | 40 | 90 | 1 |
| 1090110012 | 40 | 110 | 1 |
| 1090125013 | 40 | 125 | 1 |
| 1090125014 | 63 | 125 | 1 |
| 1090160015 | 40 | 160 | 1 |
| 1090160016 | 63 | 160 | 1 |
| 1090200017 | 40 | 200 | 1 |
| 1090200018 | 63 | 200 | 1 |
| 1090250019 | 40 | 250 | 1 |
| 1090250020 | 63 | 250 | 1 |
| 1090315021 | 63 | 315-355 | 1 |
| 1090400022 | 63 | 400-630 | 1 |

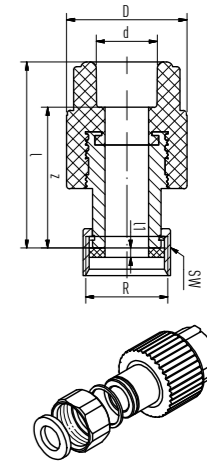
With hex shaped male thread, weld-in surface and weld-in socket for fusion with the inner wall of the pipe. The necessary tools for the fusion of aquatherm green weld-in saddles are listed in the Tools chapter.

Water meter nut adapter

with gasket — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | D | z | R | SW | kg | PU |
|-------------|----|------|-----|------|------|------|----|-------|----|
| 1050020090 | 20 | 59.5 | 3.0 | 38.5 | 45.0 | 3/4" | 30 | 0.136 | 1 |
| 1050025091 | 25 | 61.0 | 3.0 | 38.5 | 45.0 | 3/4" | 30 | 0.155 | 1 |
| 1050032092 | 32 | 62.0 | 3.0 | 43.5 | 44.0 | 3/4" | 30 | 0.162 | 1 |

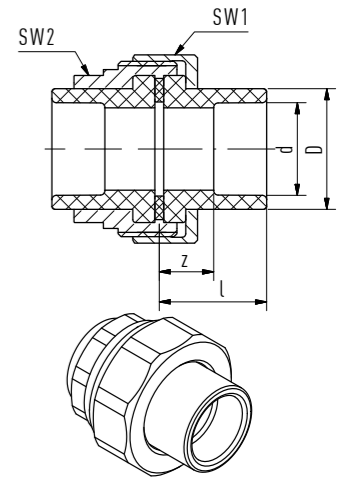


Coupling screw joint, brass

socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green, brass

| Article no. | d | l | D | z | SW1 | SW2 | kg | PU |
|-------------|----|------|------|------|-----|-----|-------|----|
| 1050032040 | 32 | 36.5 | 41.0 | 18.5 | 64 | 50 | 0.479 | 1 |
| 1050040041 | 40 | 38.0 | 50.0 | 17.5 | 80 | 60 | 0.841 | 1 |
| 1050050042 | 50 | 41.0 | 61.0 | 17.5 | 86 | 70 | 0.821 | 1 |
| 1050063043 | 63 | 45.0 | 76.0 | 17.5 | 108 | 90 | 1.498 | 1 |
| 1050075044 | 75 | 31.0 | 90.0 | 17.5 | 128 | 104 | 1.998 | 1 |

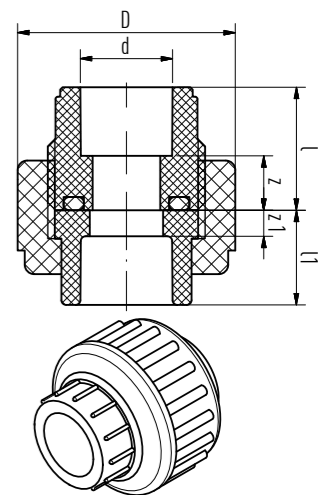


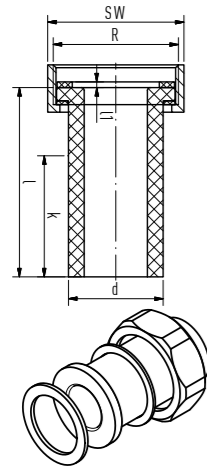
Coupling screw joint

socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | D | z | z1 | kg | PU |
|-------------|----|------|------|-------|------|-----|-------|----|
| 1050020050 | 20 | 26.0 | 20.0 | 46.0 | 12.0 | 5.5 | 0.036 | 10 |
| 1050025051 | 25 | 28.0 | 21.0 | 56.0 | 12.0 | 5.0 | 0.058 | 10 |
| 1050032052 | 32 | 30.0 | 23.0 | 66.0 | 12.0 | 5.0 | 0.089 | 5 |
| 1050040053 | 40 | 34.0 | 25.5 | 79.0 | 13.5 | 5.0 | 0.136 | 5 |
| 1050050054 | 50 | 39.0 | 28.8 | 87.0 | 15.5 | 5.0 | 0.170 | 5 |
| 1050063055 | 63 | 47.5 | 32.5 | 107.0 | 20.0 | 5.0 | 0.240 | 1 |
| 1050075056 | 75 | 50.0 | 36.0 | 128.0 | 20.0 | 6.0 | 0.546 | 1 |

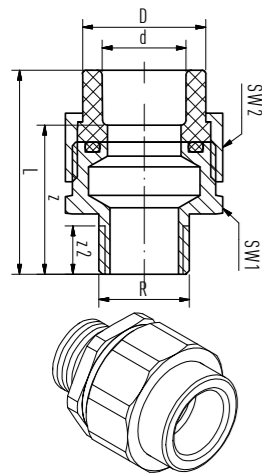




Loose nut adapter
with gasket — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

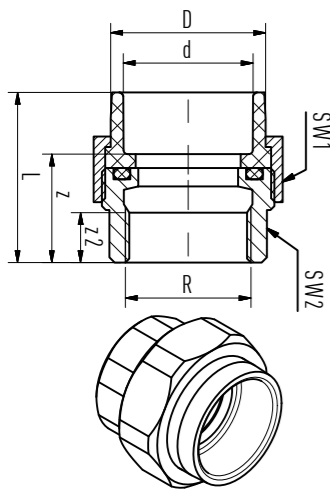
| Article no. | d | l | l1 | k | R | SW | kg | PU |
|-------------|----|-------|-----|------|--------|----|-------|----|
| 1050020082 | 20 | 100.0 | 3.0 | 65.0 | 1" | 36 | 0.079 | 1 |
| 1050025083 | 25 | 100.0 | 3.0 | 62.0 | 1 1/4" | 46 | 0.104 | 1 |
| 1050032084 | 32 | 100.0 | 3.0 | 58.0 | 1 1/2" | 52 | 0.175 | 1 |
| 1050040085 | 40 | 100.0 | 3.0 | 53.0 | 2" | 64 | 0.258 | 1 |



Transition coupling with male thread
with union nut and welding socket — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | D | L | z | z2 | R | SW1 | SW2 | kg | PU |
|-------------|----|------|------|------|------|--------|-----|-----|-------|----|
| 1050020070 | 20 | 27.5 | 52.5 | 38.0 | 13.5 | 1/2" | 34 | 36 | 0.145 | 1 |
| 1050025071 | 25 | 36.0 | 59.5 | 43.5 | 14.5 | 3/4" | 42 | 46 | 0.243 | 1 |
| 1050032072 | 32 | 41.5 | 64.5 | 46.5 | 16.8 | 1" | 48 | 52 | 0.336 | 1 |
| 1050040073 | 40 | 53.0 | 70.0 | 49.5 | 19.1 | 1 1/4" | 60 | 64 | 0.517 | 1 |
| 1050050074 | 50 | 59.0 | 84.8 | 61.3 | 22.0 | 1 1/2" | 48 | 72 | 0.624 | 1 |
| 1050063075 | 63 | 74.0 | 95.5 | 68.0 | 25.0 | 2" | 62 | 89 | 1.045 | 1 |



Transition coupling with female thread
with union nut and welding socket — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

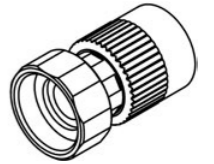
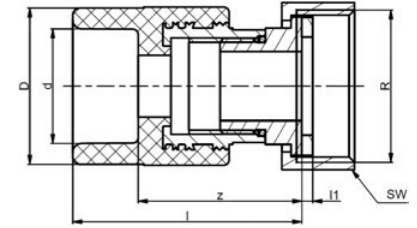
| Article no. | d | D | L | z | z2 | R | SW1 | SW2 | kg | PU |
|-------------|----|------|------|------|------|--------|-----|-----|-------|----|
| 1050020076 | 20 | 27.5 | 45.0 | 30.5 | 15.0 | 1/2" | 36 | 24 | 0.112 | 1 |
| 1050025077 | 25 | 36.0 | 49.0 | 33.0 | 15.5 | 3/4" | 46 | 32 | 0.193 | 1 |
| 1050032078 | 32 | 41.5 | 54.0 | 36.0 | 15.0 | 1" | 52 | 40 | 0.291 | 1 |
| 1050040079 | 40 | 53.0 | 56.5 | 36.0 | 20.0 | 1 1/4" | 64 | 47 | 0.423 | 1 |
| 1050050080 | 50 | 59.0 | 64.8 | 41.3 | 19.0 | 1 1/2" | 72 | 57 | 0.610 | 1 |
| 1050063081 | 63 | 74.0 | 74.5 | 47.0 | 18.0 | 2" | 89 | 68 | 0.924 | 1 |

Notice: aquatherm green metal compound fittings are manufactured from fusiolen® PP-R and brass. Metal inserts, without hex shaped spanner flat, with 1/2" and 3/4" female are also available in stainless steel.

Nut adapter ISO-standard
SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

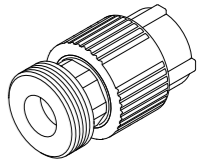
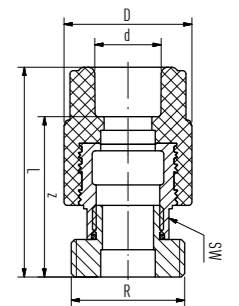
| Article no. | d | l | l1 | D | z | R | SW | kg | PU |
|-------------|----|------|-----|-------|------|--------|-----|-------|----|
| 1050020097 | 20 | 58.5 | 3.0 | 38.5 | 34.0 | 1" | 36 | 0.182 | 10 |
| 1050025098 | 25 | 60.0 | 3.0 | 38.5 | 44.0 | 1" | 36 | 0.186 | 10 |
| 1050025099 | 25 | 60.0 | 3.0 | 43.5 | 44.0 | 1 1/4" | 46 | 0.274 | 10 |
| 1050032100 | 32 | 63.0 | 3.0 | 43.5 | 45.0 | 1 1/4" | 46 | 0.279 | 5 |
| 1050032101 | 32 | 69.5 | 3.0 | 60.0 | 51.5 | 1 1/2" | 52 | 0.446 | 5 |
| 1050040102 | 40 | 72.0 | 3.0 | 60.0 | 51.5 | 1 1/2" | 52 | 0.421 | 5 |
| 1050040103 | 40 | 72.0 | 3.0 | 74.0 | 51.5 | 2" | 64 | 0.719 | 5 |
| 1050050104 | 50 | 75.0 | 3.0 | 74.0 | 51.5 | 2" | 64 | 0.736 | 5 |
| 1050050105 | 50 | 77.0 | 3.0 | 84.0 | 53.5 | 2 1/4" | 72 | 0.831 | 5 |
| 1050063106 | 63 | 83.5 | 3.0 | 84.0 | 56.0 | 2 1/4" | 72 | 0.889 | 1 |
| 1050063107 | 63 | 82.5 | 3.0 | 101.0 | 55.0 | 2 3/4" | 89 | 1.306 | 1 |
| 1050075108 | 75 | 85.0 | 3.0 | 100.0 | 55.0 | 2 3/4" | 89 | 1.275 | 1 |
| 1050075109 | 75 | 91.0 | 3.0 | 100.0 | 61.0 | 3 1/2" | 110 | 1.818 | 1 |



Counterpart with male thread
with welding socket for ISO-standard — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

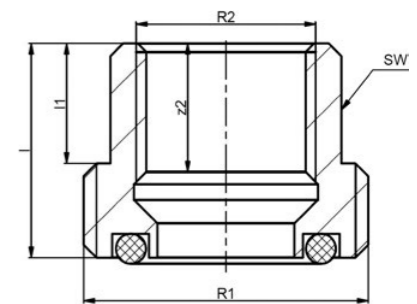
| Article no. | d | D | L | z | R | SW | kg | PU |
|-------------|----|-------|-------|------|--------|----|-------|----|
| 1050020110 | 20 | 37.5 | 61.5 | 47.0 | 1" | 24 | 0.151 | 10 |
| 1050025111 | 25 | 37.5 | 63.0 | 47.0 | 1" | 24 | 0.153 | 10 |
| 1050025112 | 25 | 43.5 | 63.0 | 47.0 | 1 1/4" | 31 | 0.221 | 10 |
| 1050032113 | 32 | 43.5 | 66.0 | 48.0 | 1 1/4" | 31 | 0.226 | 5 |
| 1050032114 | 32 | 60.0 | 76.5 | 58.5 | 1 1/2" | 39 | 0.408 | 5 |
| 1050040115 | 40 | 60.0 | 79.0 | 58.5 | 1 1/2" | 39 | 0.414 | 5 |
| 1050040116 | 40 | 74.0 | 79.0 | 58.5 | 2" | 50 | 0.650 | 5 |
| 1050050117 | 50 | 74.0 | 82.0 | 58.5 | 2" | 50 | 0.634 | 5 |
| 1050050118 | 50 | 84.0 | 83.0 | 59.5 | 2 1/4" | 55 | 0.750 | 5 |
| 1050063119 | 63 | 84.0 | 89.5 | 62.0 | 2 1/4" | 55 | 0.728 | 1 |
| 1050063120 | 63 | 101.0 | 95.0 | 65.5 | 2 3/4" | 67 | 1.093 | 1 |
| 1050075121 | 75 | 100.0 | 95.0 | 65.0 | 2 3/4" | 67 | 1.117 | 1 |
| 1050075122 | 75 | 100.0 | 100.0 | 70.0 | 3 1/2" | 67 | 1.436 | 1 |

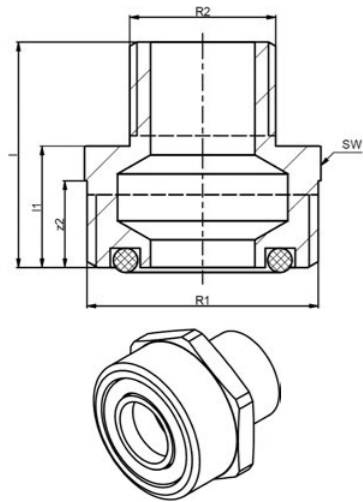


Brass counterpart with female thread
for ISO-standard adapter/loose nut adapter — SDR 6 / 7.4 / 9 / 11

Material: brass

| Article no. | l1 | L | z2 | R1 | R2 | SW | kg | PU |
|-------------|------|------|------|--------|--------|----|-------|----|
| 1050000130 | 14.0 | 25.0 | 15.0 | 1" | 1/2" | 25 | 0.063 | 10 |
| 1050000131 | 12.5 | 26.0 | 14.0 | 1 1/4" | 3/4" | 32 | 0.119 | 10 |
| 1050000132 | 15.0 | 31.0 | 17.0 | 1 1/2" | 1" | 40 | 0.175 | 5 |
| 1050000133 | 17.0 | 33.0 | 22.0 | 2" | 1 1/4" | 47 | 0.263 | 5 |
| 1050000134 | 20.0 | 36.0 | 19.0 | 2 1/4" | 1 1/2" | 57 | 0.333 | 5 |
| 1050000135 | 24.0 | 42.0 | 24.0 | 2 3/4" | 2" | 68 | 0.517 | 1 |
| 9600027522 | 24.0 | 46.0 | 27.0 | 3 1/2" | 2 1/2" | 84 | 0.801 | 1 |
| 9600027524 | 27.0 | 46.0 | 27.0 | 4" | 3" | 97 | 0.943 | 1 |





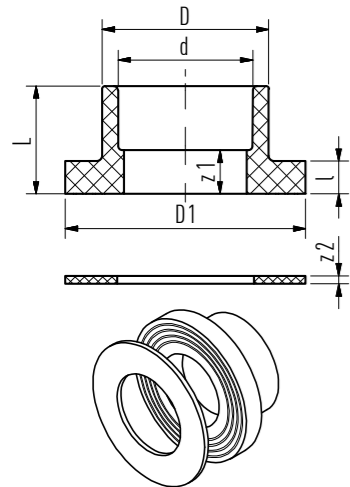
Brass counterpart with male thread

for ISO-standard adapter/loose nut adapter — SDR 6 / 7.4 / 9 / 11

Material: brass

| Article no. | l1 | L | z2 | R1 | R2 | SW | kg | PU |
|-------------|------|------|------|--------|--------|----|-------|----|
| 1050000138 | 17.5 | 32.5 | 10.5 | 1" | 1/2" | 34 | 0.109 | 10 |
| 1050000139 | 21.0 | 38.5 | 12.5 | 1 1/4" | 3/4" | 42 | 0.188 | 10 |
| 1050000140 | 22.5 | 41.5 | 13.5 | 1 1/2" | 1" | 48 | 0.211 | 5 |
| 1050000141 | 22.5 | 44.5 | 13.0 | 2" | 1 1/4" | 60 | 0.363 | 5 |
| 1050000142 | 34.0 | 56.0 | 16.0 | 2 1/4" | 1 1/2" | 48 | 0.472 | 5 |
| 1050000143 | 38.0 | 63.0 | 16.0 | 2 3/4" | 2" | 62 | 0.803 | 1 |
| 9600027722 | 42.0 | 70.0 | 22.0 | 3 1/2" | 2 1/2" | 82 | 1.189 | 1 |
| 9600027724 | 42.0 | 74.0 | 22.0 | 4" | 3" | 97 | 1.398 | 1 |

Notice: aquatherm green metal compound fittings are manufactured from fusiolen® PP-R and brass. Metal inserts, without hex shaped spanner flat, with 1/2" and 3/4" female are also available in stainless steel.



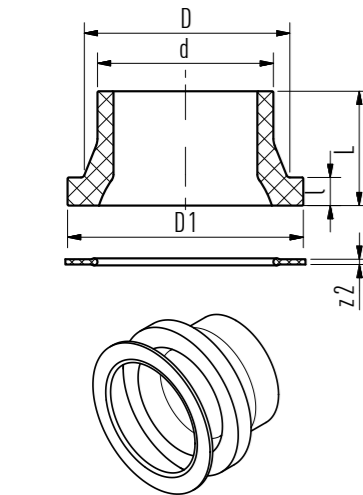
Flange adapter socket welding

with gasket — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | L | l | D | D1 | z1 | z2 | kg | PU |
|--------------|-----|-------|------|-------|-------|------|-----|-------|----|
| 1050032020 | 32 | 34.0 | 10.0 | 41.0 | 68.0 | 16.0 | 3.0 | 0.053 | 1 |
| 1050040021 | 40 | 35.5 | 11.0 | 50.0 | 78.0 | 15.0 | 3.0 | 0.071 | 1 |
| 1050050022 | 50 | 39.5 | 12.0 | 61.0 | 88.0 | 16.0 | 3.0 | 0.071 | 1 |
| 1050063023 | 63 | 43.5 | 14.0 | 76.0 | 102.0 | 16.0 | 3.0 | 0.112 | 1 |
| 1050075024 | 75 | 46.0 | 16.0 | 90.0 | 122.0 | 16.0 | 3.0 | 0.169 | 1 |
| 1050090025 | 90 | 50.0 | 17.0 | 108.0 | 138.0 | 17.0 | 3.0 | 0.261 | 1 |
| 1050110026 | 110 | 55.5 | 18.5 | 131.0 | 158.0 | 18.5 | 3.0 | 0.329 | 1 |
| 1050125028 | 125 | 63.0 | 20.0 | 165.0 | 188.0 | 23.0 | 3.0 | 0.724 | 1 |
| 1050125027 * | 125 | 195.0 | 18.5 | 131.0 | 158.0 | - | 3.0 | 1.180 | 1 |

*only use with fitting 125 mm; with 110 mm flange adapter / Suitable flange adapter for shut off valves are available on request.



Flange adapter butt welding

with gasket

Material: fusiolen® PP-RCT
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | D | D1 | L | z2 | kg | PU |
|--------------|-----|------|-------|-------|-------|-----|-------|----|
| SDR 7.4 | | | | | | | | |
| 1052160029 | 160 | 25.0 | 175.0 | 212.0 | 93.0 | 3.0 | 1.163 | 1 |
| 1052200031 | 200 | 32.0 | 232.0 | 268.0 | 130.0 | 6.0 | 2.292 | 1 |
| 1052250033 | 250 | 35.0 | 285.0 | 320.0 | 130.0 | 6.0 | 3.298 | 1 |
| SDR 9 | | | | | | | | |
| 1023160000 * | 160 | 25.0 | 175.0 | 212.0 | 93.0 | 3.0 | 1.150 | 1 |
| 1023200031 | 200 | 32.0 | 232.0 | 268.0 | 130.0 | 6.0 | 2.292 | 1 |
| 1023250032 | 250 | 35.0 | 285.0 | 320.0 | 130.0 | 6.0 | 3.313 | 1 |
| 1023315033 | 315 | 52.0 | 337.0 | 370.0 | 172.5 | 6.0 | 5.640 | 1 |
| SDR 11 | | | | | | | | |
| 1054160030 | 160 | 25.0 | 175.0 | 212.0 | 93.0 | 3.0 | 0.955 | 1 |
| 1054200032 | 200 | 32.0 | 232.0 | 268.0 | 130.0 | 6.0 | 1.957 | 1 |
| 1054250034 | 250 | 35.0 | 285.0 | 320.0 | 130.0 | 6.0 | 2.717 | 1 |
| 1054315035 | 315 | 35.0 | 335.0 | 370.0 | 168.0 | 6.0 | 6.000 | 1 |

Up to 160 mm EPDM-gasket without steel ring insert. From 200 mm EPDM-gasket with steel ring insert. Suitable flange adapter for shut off valves available on request.

Flange adapter incl. Flange PN6

without gasket

Material: Flange: steel galvanised,
Flange adapter: fusiolen® PP-R
Standards: Flange according to DIN 2641
Colour: Flange: black / Flange adapter: green

| Article no. | d | D | d1 | l | l1 | L | n | kg | PU |
|--|-----|-------|-------|------|------|-------|---|-------|----|
| SDR 6 / 7.4 / 9 / 11 / 17.6 — socket welding | | | | | | | | | |
| 1050032001 | 32 | 100.0 | 75.0 | 10.0 | 10.0 | 34.0 | 4 | 1.090 | 1 |
| 1050040002 | 40 | 120.0 | 90.0 | 11.0 | 10.0 | 35.5 | 4 | 1.170 | 1 |
| 1050050003 | 50 | 130.0 | 100.0 | 12.0 | 10.0 | 39.5 | 4 | 1.360 | 1 |
| 1050063004 | 63 | 140.0 | 110.0 | 14.0 | 10.0 | 43.5 | 4 | 0.886 | 1 |
| 1050075005 | 75 | 160.0 | 130.0 | 16.0 | 10.0 | 46.0 | 4 | 1.148 | 1 |
| 1050090006 | 90 | 190.0 | 150.0 | 17.0 | 10.0 | 50.0 | 4 | 1.618 | 1 |
| 1050110007 | 110 | 210.0 | 170.0 | 18.5 | 10.0 | 55.5 | 4 | 1.824 | 1 |
| 1050125009 | 125 | 240.0 | 200.0 | 20.0 | 12.0 | 63.0 | 4 | 3.945 | 1 |
| SDR 6 / 7.4 / 9 / 11 / 17.6 | | | | | | | | | |
| 1050125008 * | 125 | 210.0 | 170.0 | 18.5 | 10.0 | 195.0 | 8 | 2.715 | 1 |
| SDR 11 — butt welding | | | | | | | | | |
| 1050160010 | 160 | 265.0 | 225.0 | 25.0 | 12.0 | 93.0 | 8 | 4.136 | 1 |
| 1050200011 | 200 | 320.0 | 280.0 | 32.0 | 12.0 | 130.0 | 8 | 6.694 | 1 |
| 1050250012 | 250 | 375.0 | 335.0 | 35.0 | 12.0 | 130.0 | 8 | 9.500 | 1 |

d = Connection dimension, d1 = hole-circle, PN 6 = Flange according to DIN 2641

*125 mm Fitting with 110 mm, flange adapter incl. flange PN6 Use only in combination with a fitting

Plastic coated steel flange

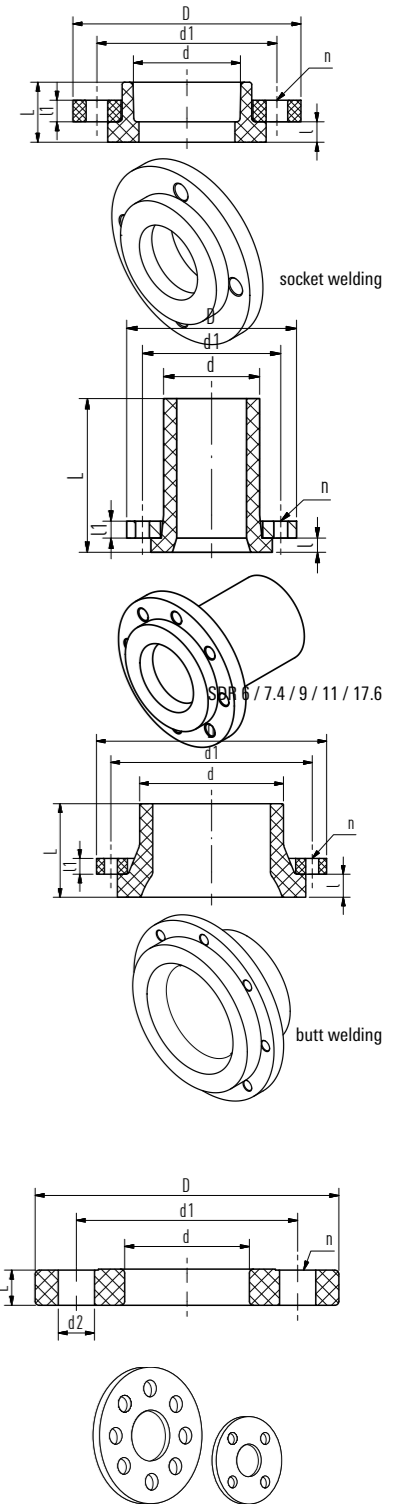
SDR 6 / 7.4 / 9 / 11 / 17.6

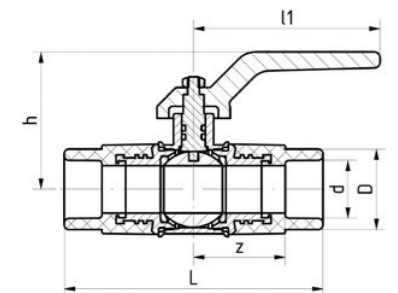
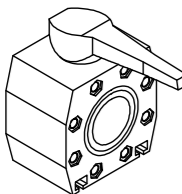
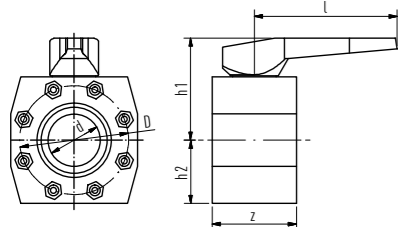
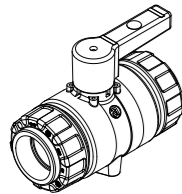
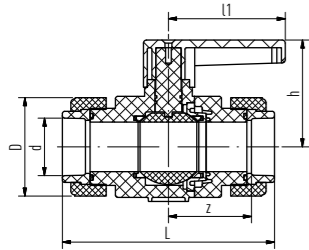
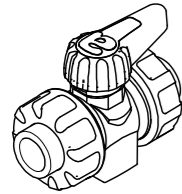
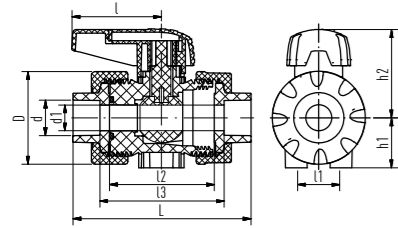
Material: PP / steel
Standards: Flange according to
DIN EN 1092, DIN 2501
Colour: grey

| Article no. | passend zu Art. no. | Ø Bund- buchse | DN | d | d1 | D | d2 | L | n | kg | PU |
|--------------|--------------------------|----------------|-----|-------|-------|-------|------|------|----|--------|----|
| 1040032130 | 1050032020 | 32 | 25 | 42.0 | 85.0 | 116.0 | 14.0 | 15.5 | 4 | 0.469 | 1 |
| 1040040131 | 1050040021 | 40 | 32 | 51.0 | 100.0 | 141.0 | 18.0 | 17.5 | 4 | 0.722 | 1 |
| 1040050132 | 1050050022 | 50 | 40 | 62.0 | 110.0 | 151.0 | 18.0 | 17.5 | 4 | 0.770 | 1 |
| 1040063133 | 1050063023 | 63 | 50 | 78.0 | 125.0 | 166.0 | 18.0 | 19.0 | 4 | 0.911 | 1 |
| 1040075134 | 1050075024 | 75 | 65 | 92.0 | 145.0 | 186.0 | 18.0 | 19.0 | 4 | 1.132 | 1 |
| 1040090135 | 1050090025 | 90 | 80 | 110.0 | 160.0 | 201.0 | 18.0 | 21.0 | 8 | 1.356 | 1 |
| 1040110136 | 1050110026 1050125027 | 110 | 100 | 133.0 | 180.0 | 221.0 | 18.0 | 22.0 | 8 | 1.475 | 1 |
| 1040125137 | 1050125028 (125 mm) | 125 | 125 | 167.0 | 210.0 | 251.0 | 18.0 | 26.0 | 8 | 2.082 | 1 |
| 1040160138 | 1052160029 1054160030 | 160 | 150 | 178.0 | 240.0 | 286.0 | 22.0 | 27.0 | 8 | 3.671 | 1 |
| 1040200139 | 1052200031 1054200032 | 200 | 200 | 235.0 | 295.0 | 341.0 | 22.0 | 28.0 | 8 | 4.709 | 1 |
| 1040250140 | 1052250033 1054250034 | 250 | 250 | 288.0 | 350.0 | 406.0 | 22.0 | 31.0 | 12 | 7.094 | 1 |
| 1040315141 | 1054315035 | 315 | 300 | 340.0 | 400.0 | 460.0 | 22.0 | 33.5 | 12 | 9.500 | 1 |
| 1040355142 | 1054355036 | 355 | 350 | 376.0 | 460.0 | 520.0 | 22.0 | 39.0 | 16 | 15.300 | 1 |
| 1040400143 | 2057400105 | 400 | 400 | 430.0 | 515.0 | 565.0 | 26.0 | 34.0 | 16 | 19.680 | 1 |
| 1040450144 * | 2057450106 | 450 | 500 | 517.0 | 620.0 | 670.0 | 26.0 | 42.0 | 20 | 22.880 | 1 |
| 1040500145 * | 2057500107 | 500 | 500 | 533.0 | 620.0 | 670.0 | 26.0 | 38.0 | 20 | 19.000 | 1 |
| 1040630146 * | 2057630108 | 630 | 600 | 645.0 | 725.0 | 785.0 | 30.0 | 40.0 | 20 | 25.800 | 1 |

d = Connection dimension, d1 = hole-circle, PN10/16= Flange according to DIN EN1092, DIN2501

*Flange PN16 200 – 630 mm available on request.





PP-ball valve, with union nut and welding socket

SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R
Colour: green

| Article no. | d | d1 | D | h1 | h2 | l1 | l2 | l3 | L | l | kg | PU |
|-------------|----|------|-------|------|-------|------|-------|-------|-------|-------|-------|----|
| 1090020052 | 20 | 13.5 | 50.3 | 27.0 | 48.0 | 25.0 | 56.5 | 68.0 | 97.0 | 48.0 | 0.118 | 1 |
| 1090025053 | 25 | 18.5 | 59.0 | 30.0 | 56.5 | 25.0 | 65.5 | 78.0 | 110.0 | 59.0 | 0.184 | 1 |
| 1090032054 | 32 | 23.9 | 70.3 | 40.0 | 64.5 | 26.0 | 72.0 | 84.5 | 120.5 | 59.0 | 0.274 | 1 |
| 1090040055 | 40 | 31.0 | 85.9 | 46.0 | 83.3 | 45.0 | 85.0 | 100.0 | 141.0 | 63.5 | 0.483 | 1 |
| 1090050056 | 50 | 38.5 | 99.5 | 55.0 | 89.4 | 45.0 | 89.0 | 107.0 | 154.0 | 63.5 | 0.648 | 1 |
| 1090063057 | 63 | 50.0 | 125.5 | 70.0 | 115.0 | 45.0 | 101.0 | 118.0 | 173.0 | 108.0 | 1.206 | 1 |

PP-ball valve, with union nut and welding socket

SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R
Colour: green

| Article no. | d | D | h | l | l1 | L | z | kg | PU |
|-------------|----|-------|-------|-------|-------|-------|-------|-------|----|
| 1090075051 | 75 | 129.0 | 139.0 | 138.0 | 152.0 | 276.0 | 108.0 | 2.441 | 1 |

Also suitable for vacuum pipes.

PP-ball valve, with flange connection on both sides

SDR 6 / 7.4 / 9 / 11 / 17.6

Material: fusiolen® PP-R
Colour: green

| Article no. | for Ø | d | l | D | z | h1 | h2 | kg | PU |
|-------------|-------|-------|-------|-------|-------|-------|-------|--------|----|
| 1090090058 | 90 | 77.0 | 210.0 | 160.0 | 124.0 | 150.0 | 93.0 | 4.196 | 1 |
| 1090110059 | 110 | 94.0 | 260.0 | 180.0 | 145.0 | 165.0 | 103.0 | 5.612 | 1 |
| 1090160060 | 160 | 135.0 | 310.0 | 240.0 | 205.0 | 210.0 | 136.5 | 13.420 | 1 |

Also suitable for vacuum pipes.

For dimension 125 mm the PP-ball valve Art. no. 1090110059 with flange adapter Art. no. 1050125027 and flange Art. no. 1040110136 is used. For connection with aquatherm green weldable flange adapter (Art. no. 3050090006 – 1054160030) and aquatherm green plastic coated steel flange (Art. no. 1040090135 – 1040160138). Hexagon screw M 16x60 mm for Art. no. 1090090058/1090110059 Hexagon screw M 20x80 mm for Art. no. 1090110059 corresponding flat washer M 16.

NOTICE: These are not included with the above articles.

Ball valve pp/brass

Material: fusiolen® PP-R / brass
Colour: green

| Article no. | d | l1 | D | L | h | z | kg | PU |
|-------------|----|-------|------|-------|-------|------|-------|----|
| 1050020174 | 20 | 79.0 | 29.5 | 11.0 | 56.00 | 40.5 | 0.280 | 1 |
| 1050025175 | 25 | 79.0 | 34.0 | 11.0 | 58.00 | 39.0 | 0.375 | 1 |
| 1050032176 | 32 | 103.0 | 43.0 | 127.0 | 66.00 | 45.5 | 0.592 | 1 |
| 1050040177 | 40 | 104.0 | 52.0 | 145.0 | 71.00 | 52.0 | 1.015 | 1 |
| 1050050178 | 50 | 14.0 | 68.0 | 167.0 | 79.00 | 6.0 | 1.689 | 1 |
| 1050063179 | 63 | 14.0 | 84.0 | 205.0 | 88.00 | 75.0 | 2.874 | 1 |

Ball valve for manifold

female/male, socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Colour: green

| Article no. | d | l | l1 | D | z | z1 | H | kg | PU |
|-------------|----|------|-------|------|------|------|------|-------|----|
| 1050032189 | 32 | 63.0 | 108.0 | 47.5 | 45.0 | 46.5 | 78.0 | 0.575 | 2 |

Extension for aquatherm green ball valve

Material: brass
Colour: chrome

| Article no. | l | for | kg | PU |
|-------------|------|-----------------------|-------|----|
| 1050000180 | 35.0 | 1050020174-1050025175 | 0.120 | 1 |
| 1050000181 | 35.0 | 1050032176-1050040177 | 0.120 | 1 |
| 1050000182 | 46.0 | 1050050178-1050063179 | 0.273 | 1 |

Extension for ball valve

for article no. 1090020052–1090063057

Material: PVC
Colour: grey

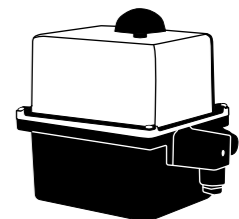
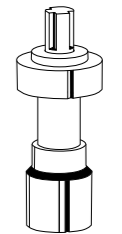
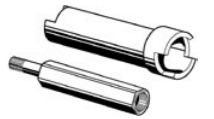
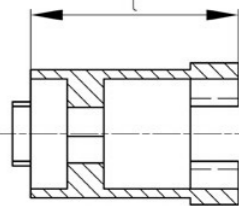
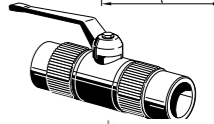
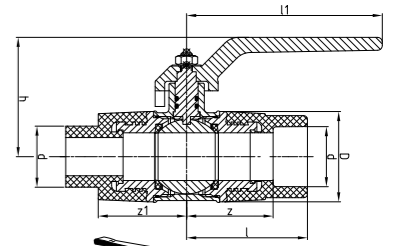
| Article no. | for Art. no. | l | kg | PU |
|-------------|--------------------------------|-----|-------|----|
| 9700098900 | 1090020052 L:100 mm | 100 | 0.020 | 1 |
| 9700098901 | 1090025053/1090032054 L:100 mm | 100 | 0.025 | 1 |
| 9700098902 | 1090040055/1090050056 L:100 mm | 100 | 0.030 | 1 |
| 9700098903 | 1090063057 L:100 mm | 100 | 0.125 | 1 |

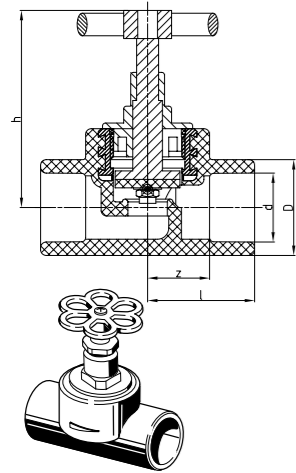
Electrical drive for ball valve

for article no. 1090020052 – 1090063057 (*for article no. 1090090058 – 1090110059)

Colour: black / red

| Article no. | Dimension | for Art. no. | kg | PU |
|--------------|-----------|-------------------------------|-------|----|
| 230 Volt | | | | |
| 9700041489 | 20 | incl. fixtures for 1090020052 | 1.500 | 1 |
| 9700041491 | 25 | incl. fixtures for 1090025053 | 1.600 | 1 |
| 9700041493 | 32 | incl. fixtures for 1090032054 | 1.600 | 1 |
| 9700041495 | 40 | incl. fixtures for 1090040055 | 1.600 | 1 |
| 9700041497 | 50 | incl. fixtures for 1090050056 | 1.700 | 1 |
| 9700041499 | 63 | incl. fixtures for 1090063057 | 1.700 | 1 |
| 9700041603 * | 90 | incl. fixtures for 1090090058 | 3.300 | 1 |
| 9700041605 * | 110 | incl. fixtures for 1090110059 | 3.400 | 1 |
| 9700041608 * | 160 | incl. fixtures for 1090160060 | 3.700 | 1 |
| 24 Volt | | | | |
| 9700041589 | 20 | incl. fixtures for 1090020052 | 1.500 | 1 |
| 9700041591 | 25 | incl. fixtures for 1090025053 | 1.600 | 1 |
| 9700041593 | 32 | incl. fixtures for 1090032054 | 1.600 | 1 |
| 9700041595 | 40 | incl. fixtures for 1090040055 | 1.600 | 1 |
| 9700041597 | 50 | incl. fixtures for 1090050056 | 1.700 | 1 |
| 9700041599 | 63 | incl. fixtures for 1090063057 | 1.700 | 1 |
| 9700041703 * | 90 | incl. fixtures for 1090090058 | 3.300 | 1 |
| 9700041705 * | 110 | incl. fixtures for 1090110059 | 3.400 | 1 |
| 9700041708 * | 160 | incl. fixtures for 1090110059 | 3.700 | 1 |



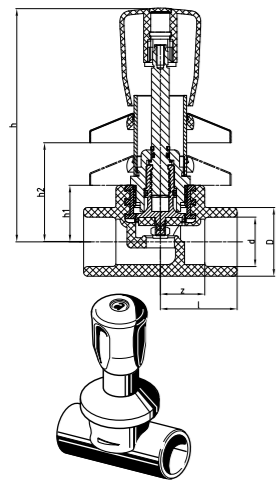


Globe valve

for surface installation, socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Colour: green

| Article no. | d | l | D | z | h | kg | PU |
|-------------|----|------|------|------|-------|-------|----|
| 1090020040 | 20 | 35.0 | 29.5 | 20.5 | 75.3 | 0.165 | 1 |
| 1090025041 | 25 | 38.0 | 34.0 | 22.0 | 75.0 | 0.172 | 1 |
| 1090032042 | 32 | 49.0 | 43.0 | 31.0 | 97.0 | 0.314 | 1 |
| 1090040043 | 40 | 60.0 | 52.0 | 39.5 | 111.5 | 0.585 | 1 |

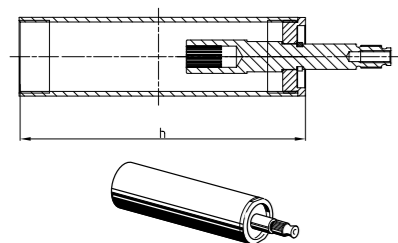


Concealed valve, chromium plated

socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Colour: green

| Article no. | d | l | D | z | h | h1 | h2 | kg | PU |
|-------------|----|------|------|------|-------|------|------|-------|----|
| 1050020150 | 20 | 35.0 | 29.5 | 20.5 | 116.0 | 28.0 | 59.0 | 0.319 | 1 |
| 1050025151 | 25 | 38.0 | 34.0 | 22.0 | 116.0 | 28.0 | 59.0 | 0.330 | 1 |
| 1050032152 | 32 | 49.0 | 43.0 | 31.0 | 121.0 | 34.0 | 59.0 | 0.416 | 1 |

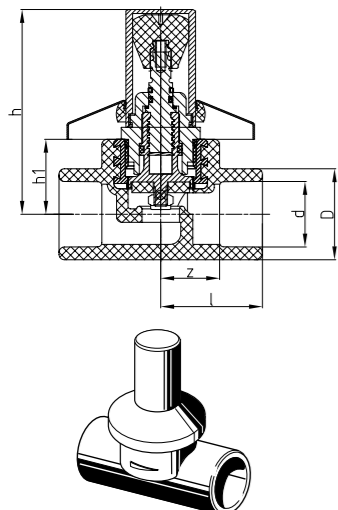


Extension for concealed valve

chromium-plated for art. no. 1050020150-1050032152

Material: brass
Colour: chrome

| Article no. | h | kg | PU |
|-------------|-------|-------|----|
| 9600040900 | 92.0 | 0.148 | 1 |
| 9600040902 | 132.0 | 0.209 | 1 |



Concealed valve, tamper proof

chromium-plated / short design, socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Colour: green, chrome

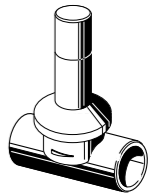
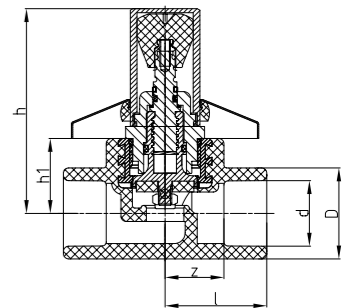
| Article no. | d | l | D | z | h | h1 | kg | PU |
|-------------|----|------|------|------|------|------|-------|----|
| 1050020153 | 20 | 35.0 | 29.5 | 20.5 | 71.5 | 28.0 | 0.258 | 1 |
| 1050025154 | 25 | 38.0 | 34.0 | 22.0 | 72.0 | 28.0 | 0.288 | 1 |
| 1050032155 | 32 | 49.0 | 43.0 | 31.0 | 82.5 | 34.0 | 0.376 | 1 |

Concealed valve, tamper proof

chromium-plated / long design, socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Colour: green, chrome

| Article no. | d | l | D | z | h | h1 | kg | PU |
|-------------|----|------|------|------|-------|------|-------|----|
| 1050020159 | 20 | 35.0 | 29.5 | 20.5 | 109.0 | 28.0 | 0.342 | 1 |
| 1050025160 | 25 | 38.0 | 34.0 | 22.0 | 109.0 | 28.0 | 0.350 | 1 |
| 1050032161 | 32 | 49.0 | 43.0 | 31.0 | 115.0 | 34.0 | 0.432 | 1 |

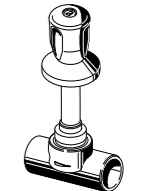
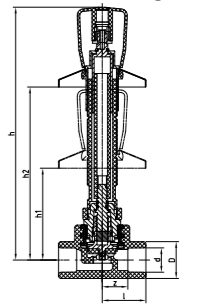


Concealed valve, construction depth 55–100 mm

suitable for construction depth 55 mm to 100 mm, socket welding SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Colour: green, chrome

| Article no. | d | l | D | z | h | h1 | h2 | kg | PU |
|-------------|----|------|------|------|-------|------|-------|-------|----|
| 1050020156 | 20 | 35.0 | 29.5 | 20.5 | 213.0 | 59.0 | 147.0 | 0.357 | 1 |
| 1050025157 | 25 | 38.0 | 34.0 | 22.0 | 213.0 | 59.0 | 147.0 | 0.369 | 1 |
| 1050032158 | 32 | 49.0 | 43.0 | 31.0 | 219.0 | 65.0 | 153.0 | 0.455 | 1 |

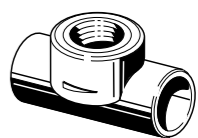
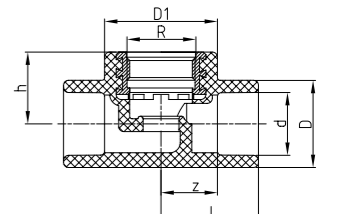


Stop valve body

socket welding

Material: fusiolen® PP-R / brass
Colour: green

| Article no. | d | l | D | D1 | z | h | R | kg | PU |
|-------------|----|------|------|------|------|------|--------|-------|----|
| 1090020046 | 20 | 35.0 | 29.5 | 44.0 | 20.0 | 28.0 | 3/4" | 0.082 | 1 |
| 1090025047 | 25 | 38.0 | 34.0 | 44.0 | 22.0 | 28.0 | 3/4" | 0.101 | 1 |
| 1090032048 | 32 | 49.0 | 43.0 | 52.0 | 31.0 | 34.0 | 1" | 0.146 | 1 |
| 1090040049 | 40 | 60.0 | 52.0 | 69.0 | 39.5 | 41.0 | 1 1/4" | 0.313 | 1 |

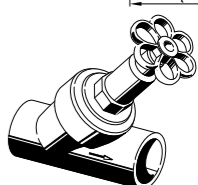
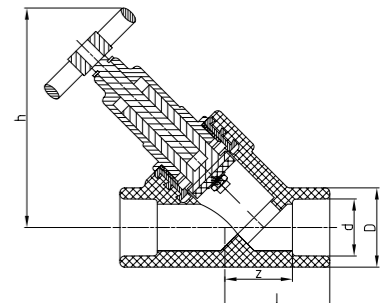


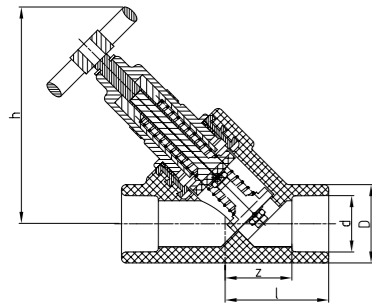
Inclined valve

without drain, socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Colour: green

| Article no. | d | l | D | z | h | kg | PU |
|-------------|----|------|------|------|-------|-------|----|
| 1050020162 | 20 | 45.0 | 34.0 | 30.5 | 95.5 | 0.294 | 1 |
| 1050025163 | 25 | 45.0 | 34.0 | 29.0 | 95.5 | 0.283 | 1 |
| 1050032164 | 32 | 56.0 | 43.0 | 38.0 | 111.5 | 0.421 | 1 |
| 1050040165 | 40 | 65.0 | 52.0 | 44.5 | 135.0 | 0.834 | 1 |



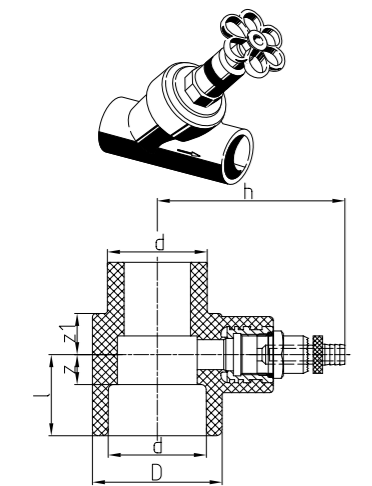


Non-return valve

without drain, socket welding — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Colour: green

| Article no. | d | l | D | z | h | kg | PU |
|-------------|----|------|------|------|-------|-------|----|
| 1050020170 | 20 | 45.0 | 34.0 | 30.5 | 95.5 | 0.297 | 1 |
| 1050025171 | 25 | 45.0 | 34.0 | 29.0 | 95.5 | 0.292 | 1 |
| 1050032172 | 32 | 56.0 | 43.0 | 38.0 | 111.5 | 0.432 | 1 |
| 1050040173 | 40 | 65.0 | 52.0 | 44.5 | 135.0 | 0.840 | 1 |

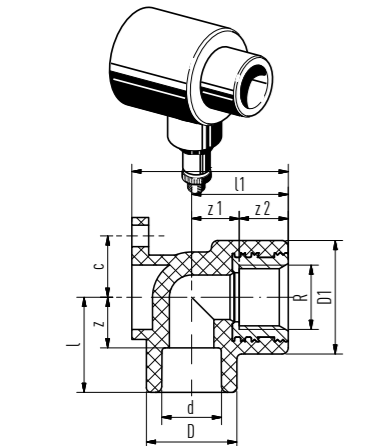


Draining branch

to weld in aquatherm green valves, socket welding
SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Colour: green

| Article no. | d | l | D | z | z1 | h | kg | PU |
|-------------|----|------|------|------|------|------|-------|----|
| 1050020183 | 20 | 26.0 | 34.0 | 11.5 | 16.5 | 71.0 | 0.098 | 1 |
| 1050025184 | 25 | 26.0 | 34.0 | 10.0 | 16.5 | 71.0 | 0.096 | 1 |
| 1050032185 | 32 | 32.0 | 43.0 | 14.0 | 17.0 | 74.5 | 0.118 | 1 |
| 1050040186 | 40 | 32.5 | 52.0 | 12.0 | 16.5 | 80.5 | 0.140 | 1 |
| 1050050187 | 50 | 39.0 | 68.0 | 15.5 | 17.0 | 88.0 | 0.202 | 1 |
| 1050063188 | 63 | 44.0 | 84.0 | 16.5 | 16.5 | 96.0 | 0.288 | 1 |



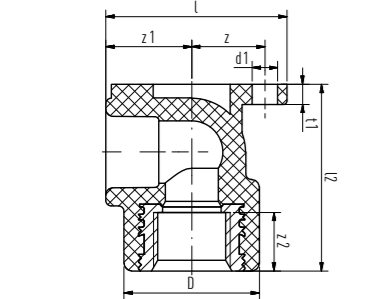
Back plate elbow

brass (*stainless steel), socket welding — SDR 6 / 7.4 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 1692, DIN EN ISO 15874
Colour: green

| Article no. | d | R | l | l1 | D | D1 | L | z | z1 | z2 | c | kg | PU |
|--------------|----|------|------|------|------|------|------|------|------|------|------|-------|----|
| 1040020151 | 20 | 1/2" | 31.0 | 31.5 | 29.5 | 37.0 | 51.0 | 16.5 | 18.5 | 13.0 | 20.0 | 0.079 | 10 |
| 1040020152 | 20 | 3/4" | 37.0 | 37.0 | 34.0 | 44.0 | 54.0 | 22.5 | 24.0 | 13.0 | - | 0.106 | 10 |
| 1040025153 | 25 | 3/4" | 37.0 | 37.0 | 34.0 | 44.0 | 54.0 | 21.0 | 24.0 | 13.0 | - | 0.105 | 10 |
| 1040025154 | 25 | 1/2" | 33.5 | 31.0 | 34.0 | 37.0 | 53.0 | 17.5 | 18.0 | 13.0 | 20.0 | 0.080 | 10 |
| 1090020070 * | 20 | 1/2" | 31.0 | 31.5 | 29.5 | 37.0 | 51.0 | 16.5 | 18.5 | 13.0 | 20.0 | 0.084 | 10 |
| 1090020071 * | 20 | 3/4" | 37.0 | 37.0 | 34.0 | 44.0 | 54.0 | 22.5 | 24.0 | 13.0 | - | 0.101 | 10 |
| 1090025072 * | 25 | 3/4" | 37.0 | 37.0 | 34.0 | 44.0 | 54.0 | 21.0 | 24.0 | 13.0 | - | 0.111 | 10 |
| 1090025073 * | 25 | 1/2" | 33.5 | 31.0 | 34.0 | 37.0 | 53.0 | 17.5 | 18.0 | 13.0 | 20.0 | 0.076 | 10 |

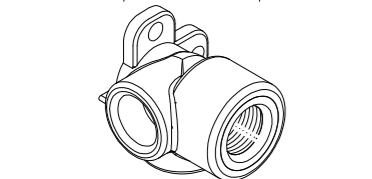
*stainless steel



Flow-through back plate elbow 90°

Material: fusiolen® PP-R / brass

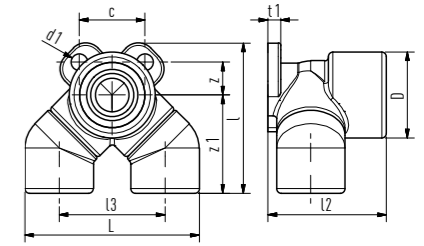
| Article no. | Dimensions | d1 | l | l2 | D | t1 | z | z1 | z2 | PU |
|-------------|----------------------------|-----|------|------|------|-----|------|------|------|----|
| 1090020031 | 90° 20 mm x 1/2"16 x 20 mm | 7.0 | 49.5 | 51.0 | 37.0 | 5.5 | 20.0 | 23.5 | 16.0 | 1 |



Flow-through back plate elbow, parallel

Material: fusiolen® PP-R / brass

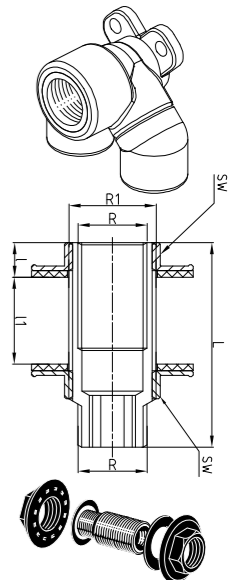
| Article no. | Dimensions | d1 | l | l2 | l3 | D | L | c | t1 | z | z1 | PU |
|-------------|---------------------------------|-----|------|------|------|------|------|------|-----|------|------|----|
| 1050020015 | parallel 20 mm x 1/2"16 x 20 mm | 7.0 | 65.0 | 51.0 | 45.6 | 37.0 | 75.0 | 28.3 | 5.5 | 14.0 | 42.3 | 1 |



Dry construction wall fitting

Material: brass

| Article no. | R | R1 | l | l1 | L | SW | kg | PU |
|-------------|------|------|------|------|------|----|-------|----|
| 9600020114 | 1/2" | 3/4" | 10.5 | 26.0 | 62.0 | 30 | 0.213 | 10 |



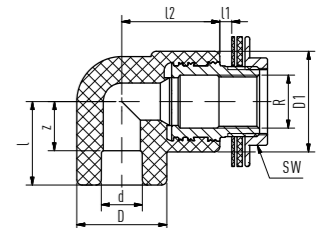
Transition piece with counternut

with gasket and tension washer, socket welding — SDR 6 / 7.4 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | l2 | D | D1 | z | R | SW | kg | PU |
|-------------|----|------|-----|------|------|------|------|------|----|-------|----|
| 1050020062 | 20 | 37.0 | 3.5 | 35.0 | 29.5 | 44.0 | 22.5 | 1/2" | 29 | 0.154 | 10 |
| 1050025063 | 25 | 37.0 | 3.5 | 37.0 | 34.0 | 44.0 | 21.0 | 1/2" | 29 | 0.206 | 10 |

e.g. for connection of a cistern or application with mounting



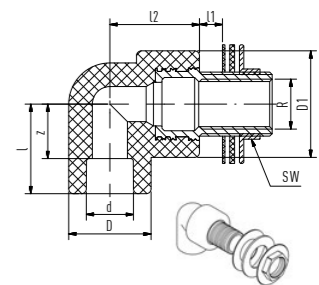
Transition elbow for plasterboard

socket welding — SDR 6 / 7.4 / 11

Material: fusiolen® PP-R / brass
Colour: green

| Article no. | d | l | l1 | l2 | D | D1 | z | R | SW | kg | PU |
|-------------|----|------|------|------|------|------|------|------|----|-------|----|
| 1050020064 | 20 | 37.0 | 18.5 | 35.0 | 29.5 | 44.0 | 22.5 | 1/2" | 29 | 0.223 | 10 |

with 30 mm thread, counternut, gasket and tension washer

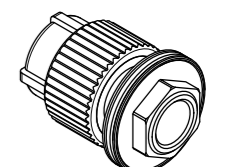
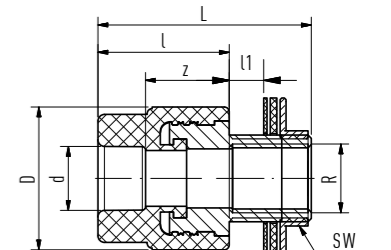


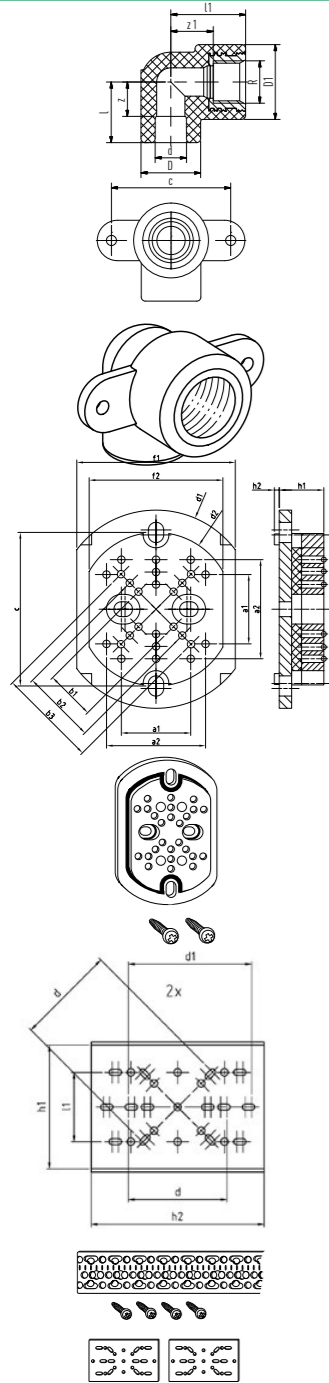
Transition piece with counternut

with gasket and tension washer, socket welding — SDR 6 / 7.4 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | l1 | D | L | z | R | SW | kg | PU |
|-------------|----|------|------|------|------|------|------|----|-------|----|
| 1050020060 | 20 | 40.0 | 13.5 | 43.5 | 65.0 | 25.5 | 1/2" | 29 | 0.204 | 10 |





Back plate elbow for dry construction

brass (*stainless steel), socket welding — SDR 6 / 7.4 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green or stainless steel

| Article no. | d | l | l1 | D | D1 | z | z1 | R | kg | PU |
|--------------|----|------|------|------|------|------|------|------|-------|----|
| 1040020156 | 20 | 30.0 | 37.0 | 29.5 | 37.0 | 15.5 | 24.0 | 1/2" | 0.079 | 10 |
| 1090020074 * | 20 | 30.0 | 37.0 | 29.5 | 37.0 | 15.5 | 24.0 | 1/2" | 0.078 | 10 |

*stainless steel

Sound insulation plate

for aquatherm green back plate elbow

Material: PP
Colour: white

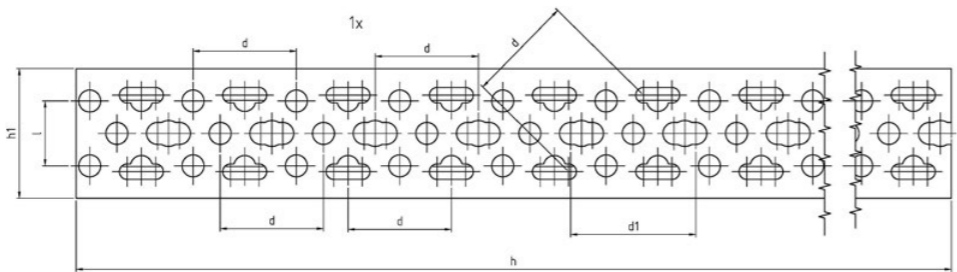
| Article no. | a1 | a2 | b1 | b2 | b3 | c | d1 | d2 | f1 | f2 | h1 | h2 | kg | PU |
|-------------|----|----|----|----|----|----|------|------|----|----|----|----|-------|----|
| 7020000015 | 28 | 40 | 20 | 30 | 40 | 62 | 80.0 | 62.0 | 64 | 54 | 18 | 2 | 0.058 | 2 |

Mounting plate galvanised

to fix back plate elbows as double connection includes 2 fixing plates and 4 screws

Material: iron / galvanised

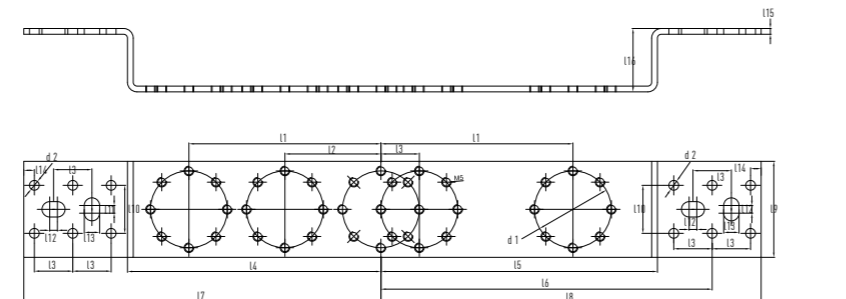
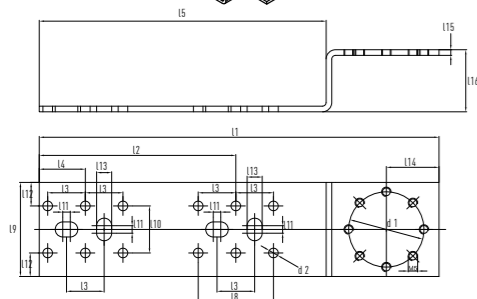
| Article no. | d | d1 | l | l1 | h | h1 | h2 | kg | PU |
|-------------|----|------|----|------|-----|----|----|-------|----|
| 7050000016 | 40 | 50.0 | 25 | 28.0 | 560 | 50 | 70 | 0.546 | 1 |



Mounting rail (double and single)

Material: iron / galvanised

| Article no. | d1 | d2 | kg | PU |
|-------------|------|-----|-------|----|
| 7050000017 | 40.0 | 5.1 | 0.412 | 2 |
| 7050000018 | 40.0 | 5.1 | 0.235 | 2 |



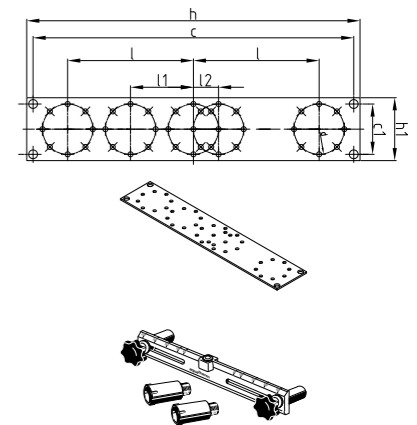
Mounting plate galvanised

to fix back plate elbows as double connection

Material: Iron / galvanised

| Article no. | d | l | l1 | l2 | c | c1 | h | h1 | kg | PU |
|-------------|----|-----|------|------|-----|----|-----|----|-------|----|
| 7050000020 | 40 | 100 | 50.0 | 20.0 | 255 | 40 | 265 | 50 | 0.221 | 1 |

not suitable for connection with sound insulation plate (art. no. 7020000015). We recommend mounting rail art. no. 7050000016

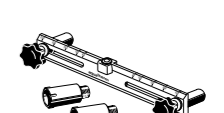


Assembling jig

as water level with 2 plugs 1/2"

Material: fusiolen® PP-R
Colour: green

| Article no. | kg | PU |
|-------------|-------|----|
| 9800050700 | 0.252 | 1 |

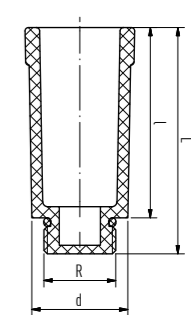


Plug for pressure tests

with gasket

Material: fusiolen® PP-R
Colour: green

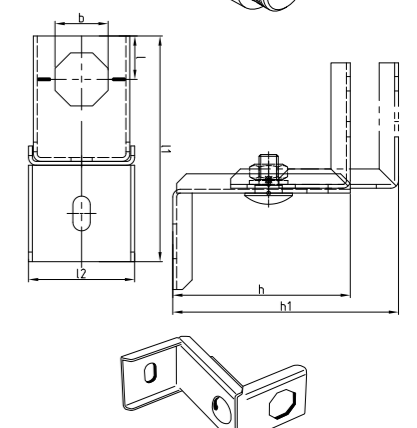
| Article no. | d | l | L | R | kg | PU |
|-------------|----|------|------|------|-------|----|
| 9800050708 | 28 | 55.5 | 66.0 | 1/2" | 0.022 | 10 |
| 9800050710 | 34 | 55.5 | 66.0 | 3/4" | 0.027 | 10 |



Mounting unit, single

Material: Iron / galvanised

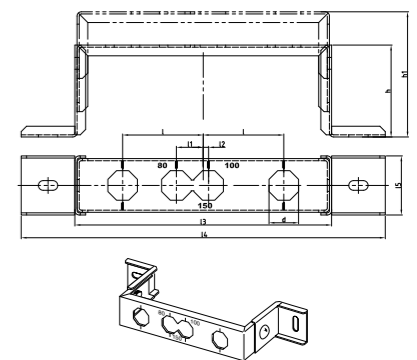
| Article no. | b | l | l1 | l2 | h | h1 | kg | PU |
|-------------|------|-----|------|------|------|-------|-------|----|
| 7050000002 | 27.5 | 118 | 22.5 | 55.0 | 92.5 | 122.5 | 0.278 | 1 |

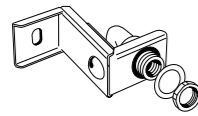
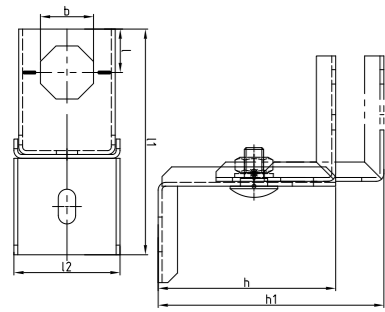


Mounting unit, double

Material: Iron / galvanised

| Article no. | b | l | l1 | l2 | h | h1 | l3 | l4 | l5 | kg | PU |
|-------------|------|----|------|-----|------|-------|-------|-----|----|-------|----|
| 7050000001 | 27.5 | 75 | 25.0 | 5.0 | 92.5 | 122.5 | 239.0 | 339 | 55 | 0.630 | 1 |

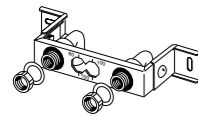
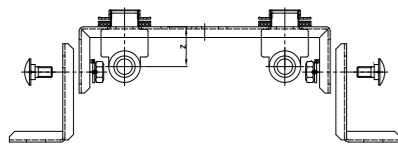




Mounting unit with one aquatherm green transition elbow

Material: fusiolen® PP-R / brass, Iron / galvanised

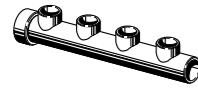
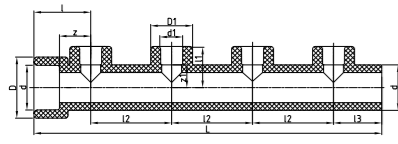
| Article no. | b | l | l1 | l2 | h | h1 | kg | PU |
|-------------|------|------|-------|------|------|-------|-------|----|
| 705000004 | 27.5 | 22.5 | 118.0 | 55.0 | 92.5 | 122.5 | 0.434 | 1 |



Mounting unit with two aquatherm green transition elbows

Material: fusiolen® PP-R / brass, Iron / galvanised

| Article no. | b | l | l1 | l2 | z | h | h1 | kg | PU |
|-------------|------|----|------|-----|------|------|-------|-------|----|
| 705000003 | 27.5 | 75 | 25.0 | 5.0 | 37.5 | 92.5 | 122.5 | 0.942 | 1 |



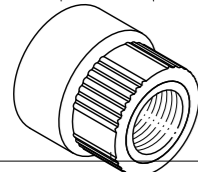
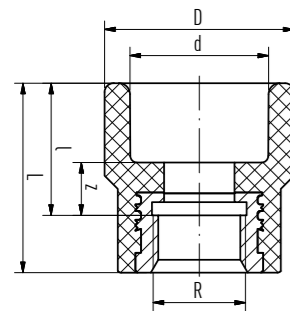
Four-port manifold

length: 245 mm, with 4 branches — SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R
Colour: green

| Article no. | d | d1 | l | l1 | l2 | l3 | D | D1 | L | z | z1 | kg | PU |
|-------------|----|------|----|------|------|------|------|------|-------|------|------|-------|----|
| 1090032032 | 32 | 16.0 | 40 | 29.0 | 57.0 | 36.0 | 43.0 | 29.5 | 245.0 | 22.0 | 16 | 0.148 | 1 |
| 1090032033 | 32 | 20.0 | 40 | 29.0 | 57.0 | 36.0 | 43.0 | 29.5 | 245.0 | 22.0 | 14.5 | 0.134 | 1 |

The four-port manifold can be shortened or extended by fusion with further four-port manifolds, if required.



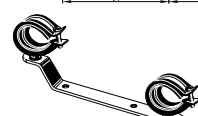
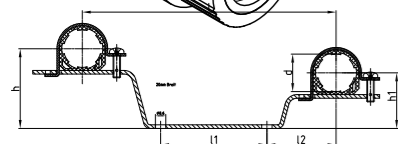
Manifold end piece with female thread

SDR 6 / 7.4 / 9 / 11

Material: fusiolen® PP-R / brass
Standards: DIN 16962, DIN EN ISO 15874
Colour: green

| Article no. | d | l | D | L | z | R | kg | PU |
|-------------|----|------|------|------|------|------|-------|----|
| 1090032034 | 32 | 30.0 | 43.0 | 43.0 | 12.0 | 1/2" | 0.073 | 1 |

Transition piece as distributor pipe end piece with female thread.



Supporting strap for four-port manifold

with clamps, galvanised, double

Material: steel/galvanised zinc
Colour: double

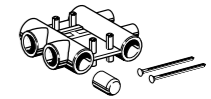
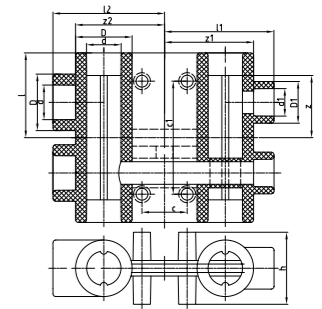
| Article no. | d | l | l1 | l2 | h | h1 | kg | PU |
|-------------|----|-------|------|------|------|------|-------|----|
| 9600060210 | 32 | 210.0 | 80.0 | 57.0 | 66.0 | 46.0 | 0.226 | 2 |

Distribution block plumbing

including 1 plug and 2 fasteners — SDR 6 / 7.4 / 11

Material: fusiolen® PP-R
Colour: green

| Article no. | d | d1 | l | l1 | l2 | D | D1 | z | z1 | z2 | c | c1 | cl | l3 | h | kg | PU |
|-------------|----|------|----|------|------|------|------|------|----|------|----|----|-----|------|----|-------|----|
| 1050025016 | 25 | 20.0 | 60 | 77.5 | 79.0 | 40.0 | 29.5 | 44.0 | 63 | 63.0 | 32 | 80 | 100 | 36.0 | 51 | 0.273 | 1 |



Adhesive tape to protect against UV-radiation

| Article no. | Dimension | kg | PU |
|-------------|-------------------------|-------|----|
| 9700010871 | width 50 mm length 10 m | 0.133 | 1 |

aquatherm-PP-Primer

for aquatherm PP pipes

| Article no. | Container | kg | PU |
|-------------|----------------|-------|----|
| 9700050230 | Container: 1l | 0.994 | 1 |
| 9700050231 | Container: 10l | 9.269 | 1 |

aquatherm special top coat

for aquatherm PP-Pipes

| Article no. | Container | kg | PU |
|-------------|-----------------------|-------|----|
| 9700050232 | black Container: 2.5l | 3.007 | 1 |
| 9700050233 | white Container: 2.5l | 3.436 | 1 |

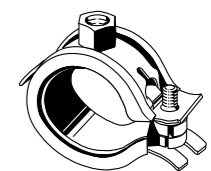
Pipe clamps

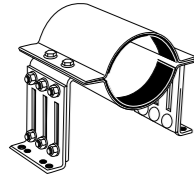
suitable for sliding and fixed point installation

Material: steel

| Article no. | for pipe diameters | kg | PU |
|-------------|--------------------|-------|----|
| 9600060520 | 20 | 0.048 | 50 |
| 9600060525 | 25 | 0.051 | 50 |
| 9600060532 | 32 | 0.060 | 50 |
| 9600060540 | 40 | 0.067 | 50 |
| 9600060550 | 50 | 0.079 | 50 |
| 9600060563 | 63 | 0.091 | 25 |
| 9600060575 | 75 | 0.105 | 25 |
| 9600060590 | 90 | 0.128 | 25 |
| 9600060594 | 110 | 0.155 | 25 |
| 9600060595 | 125 | 0.212 | 25 |
| 9600060597 | 160 | 0.342 | 25 |
| 9600060650 | 200 | 1.014 | 1 |
| 9600060654 | 250 | 1.193 | 1 |
| 9600060658 | 315 | 1.618 | 1 |

Thread connection: M8 & M10 for 16 – 125 mm | M10 for 160 mm | M16 for 200 – 315 mm

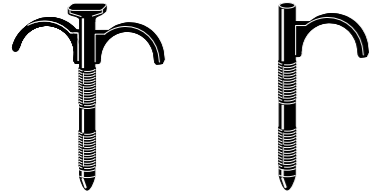




Pipe clamps suitable for fixed point installation

Material: steel

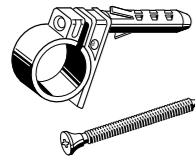
| Article no. | for pipe diameters | kg | PU |
|-------------|--------------------|--------|----|
| 9600060768 | 160 | 8.548 | 1 |
| 9600060770 | 200 | 9.449 | 1 |
| 9600060774 | 250 | 19.367 | 1 |
| 9600060778 | 315 | 22.753 | 1 |



Pipe fastening bow 16-32 mm

Material: PA

| Article no. | for pipe diameters | kg | PU |
|-------------|----------------------------|-------|----|
| 7020016005 | for pipes 16-32 mm L=45 mm | 0.005 | 50 |
| 7020016006 | for pipes 16-32 mm L=75 mm | 0.007 | 50 |
| 7020016007 | for pipes 16-32 mm L=45 mm | 0.007 | 50 |
| 7020016008 | for pipes 16-32 mm L=75 mm | 0.009 | 50 |



Plastic pipe clamps 16-40 mm

Material: fusiolen® PP-R

| Article no. | for pipe diameters | kg | PU |
|-------------|--------------------|-------|----|
| 7090020011 | for pipes 20 mm | 0.008 | 50 |
| 7090025012 | for pipes 25 mm | 0.016 | 30 |
| 7090032013 | for pipes 32 mm | 0.017 | 30 |
| 7040040014 | for pipes 40 mm | 0.020 | 30 |



aquatherm energy

Polypropylene piping system

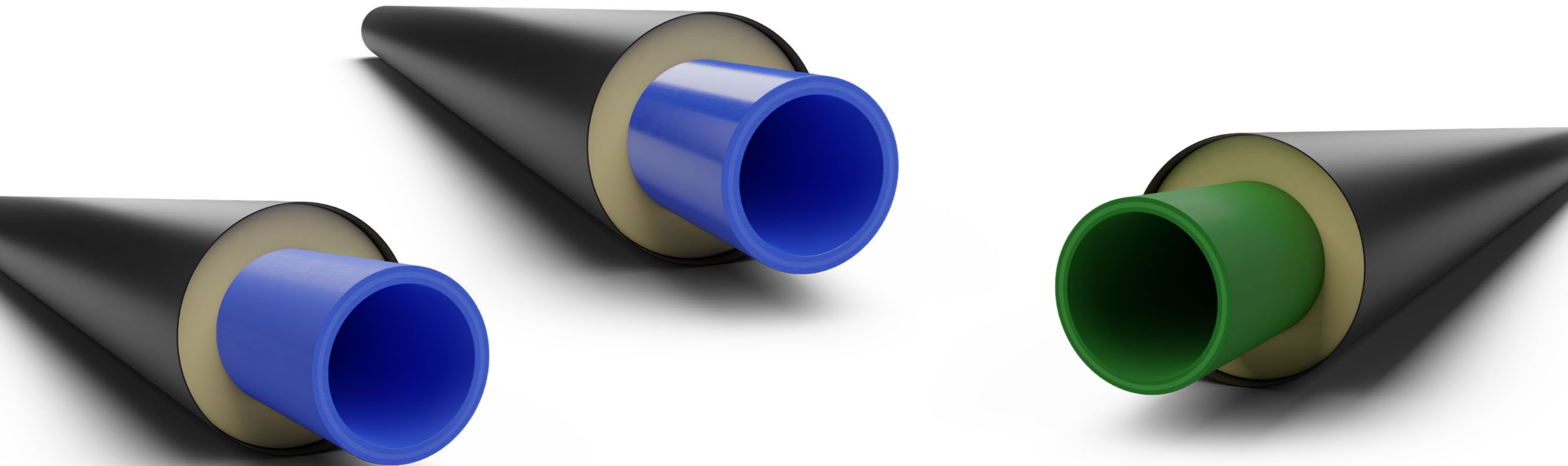
The aquatherm energy-piping system consists of pre- insulated polypropylene pipes as well as fittings and connectors. All service pipes, fittings and connecting pieces used in aquatherm energy are made of the material fusiolen® PP-R/PP-RCT, insulated with PUR- hard foam and enclosed with a casing pipe of HDPE.

The pre-insulated aquatherm energy pipe is primarily suitable for the energy-efficient transport of heating and cooling media. The system is the solution for many different applications to distribute heat and cold. Here are some possible applications: district heating supply, local heating supply, district cooling supply, water distribution, cooling plants, bio-mass plants, biogas plants, geothermal energy, geothermal heat, swimming pool technology, open space heating, open space cooling, thermal water pipes - cooling technology - connection to heat pumps - lawn heating air conditioning systems.

aquatherm energy green & blue

| Diameter in mm | 16 | 17 | 20 | 25 | 32 | 40 | 50 | 63 | 75 | 90 | 110 | 125 | 160 | 200 | 250 | 315 | 355 | 400 | 450 | 500 | 630 | |
|----------------|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| SDR 9 MFRP | . | . | . | . | ○ | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| SDR 9 MFRPOT | . | . | . | . | ○ | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| SDR 11 MFRP | . | . | . | . | . | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | . | . | . | . | . |
| SDR 11 MFRPOT | . | . | . | . | . | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | . | . | . | . | . | . |
| SDR 17,6 MFRP | . | . | . | . | . | . | . | . | . | . | . | . | ○ | ○ | ○ | ○ | ○ | . | . | . | . | . |
| SDR 9 MFRP | . | . | . | . | . | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | . | . | . | . | . |

- Legend table abbreviations:**
- d** diameter in mm
 - D** diameter in mm
 - s** wall thickness in mm
 - di** internal diameter in mm
 - l/m** water content in litres/metre
 - kg/m** weight data in kg per metre
 - DN** diameter nominal
 - PU** packing unit in metre
 - SDR** standard dimension ratio
 - lengths** Units in mm unless otherwise specified



aquatherm energy faser composite pipes à 5.8 m

aquatherm energy blue SDR 11 MF RP / *SDR 9 MF RP

faser composite pipe, 5.8 m length with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | PU [m] |
|----------------|-------------------------|-------------------------|--------|
| socket welding | | | |
| 2314032010 * | 32 | 90.0 | 5.8 |
| 2314040012 | 40 | 110.0 | 5.8 |
| 2314050014 | 50 | 110.0 | 5.8 |
| 2314063016 | 63 | 125.0 | 5.8 |
| 2314075018 | 75 | 140.0 | 5.8 |
| 2314090020 | 90 | 160.0 | 5.8 |
| 2314110022 | 110 | 200.0 | 5.8 |
| 2314125024 | 125 | 225.0 | 5.8 |
| butt welding | | | |
| 2314160026 | 160 | 250.0 | 5.8 |
| 2314200028 | 200 | 315.0 | 5.8 |
| 2314250030 | 250 | 400.0 | 5.8 |
| 2314315032 | 315 | 450.0 | 5.8 |
| 2314355034 | 355 | 500.0 | 5.8 |

aquatherm energy faser composite pipes OT à 5.8 m

aquatherm energy blue ot SDR 11 / *SDR 9 MF RP

faser composite pipe, 5.8 m length with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | PU [m] |
|----------------|-------------------------|-------------------------|--------|
| socket welding | | | |
| 2414032010 * | 32 | 90.0 | 5.8 |
| 2414040012 | 40 | 110.0 | 5.8 |
| 2414050014 | 50 | 110.0 | 5.8 |
| 2414063016 | 63 | 125.0 | 5.8 |
| 2414075018 | 75 | 140.0 | 5.8 |
| 2414090020 | 90 | 160.0 | 5.8 |
| 2414110022 | 110 | 200.0 | 5.8 |
| 2414125024 | 125 | 225.0 | 5.8 |
| butt welding | | | |
| 2414160026 | 160 | 250.0 | 5.8 |
| 2414200028 | 200 | 315.0 | 5.8 |
| 2414250030 | 250 | 400.0 | 5.8 |

aquatherm energy faser composite pipes à 5.8 m

aquatherm energy blue SDR 17.6 MF RP

faser composite pipe, 5.8 m length with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | PU [m] |
|----------------|-------------------------|-------------------------|--------|
| socket welding | | | |
| 2317125024 | 125 | 225.0 | 5.8 |
| butt welding | | | |
| 2317160026 | 160 | 250.0 | 5.8 |
| 2317200028 | 200 | 315.0 | 5.8 |
| 2317250030 | 250 | 400.0 | 5.8 |
| 2317315032 | 315 | 450.0 | 5.8 |
| 2317355034 | 355 | 500.0 | 5.8 |

aquatherm energy faser composite pipes à 11.6 m

aquatherm energy blue SDR 11 MF RP / *SDR 9 MF RP

faser composite pipe, 11.6 m length with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | PU [m] |
|----------------|-------------------------|-------------------------|--------|
| socket welding | | | |
| 2314032110 * | 32 | 90.0 | 11.6 |
| 2314040112 | 40 | 110.0 | 11.6 |
| 2314050114 | 50 | 110.0 | 11.6 |
| 2314063116 | 63 | 125.0 | 11.6 |
| 2314075118 | 75 | 140.0 | 11.6 |
| 2314090120 | 90 | 160.0 | 11.6 |
| 2314110122 | 110 | 200.0 | 11.6 |
| 2314125124 | 125 | 225.0 | 11.6 |
| butt welding | | | |
| 2314160126 | 160 | 250.0 | 11.6 |
| 2314200128 | 200 | 315.0 | 11.6 |
| 2314250130 | 250 | 400.0 | 11.6 |
| 2314315132 | 315 | 450.0 | 11.6 |
| 2314355134 | 355 | 500.0 | 11.6 |

aquatherm energy faser composite pipes OT à 11.6 m

aquatherm energy blue ot SDR 11 / *SDR 9 MF RP

faser composite pipe, 11.6 m length with PUR rigid foam and coated with a casing pipe made of PEHD

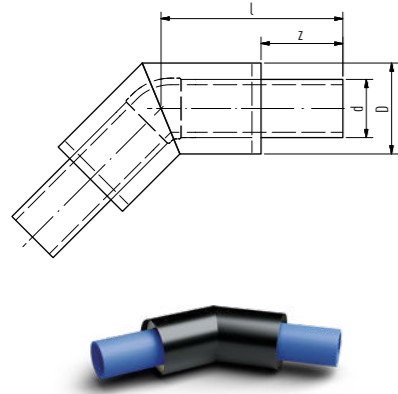
| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | PU [m] |
|----------------|-------------------------|-------------------------|--------|
| socket welding | | | |
| 2414032110 * | 32 | 90.0 | 11.6 |
| 2414040112 | 40 | 110.0 | 11.6 |
| 2414050114 | 50 | 110.0 | 11.6 |
| 2414063116 | 63 | 125.0 | 11.6 |
| 2414075118 | 75 | 140.0 | 11.6 |
| 2414090120 | 90 | 160.0 | 11.6 |
| 2414110122 | 110 | 200.0 | 11.6 |
| 2414125124 | 125 | 225.0 | 11.6 |
| butt welding | | | |
| 2414160126 | 160 | 250.0 | 11.6 |
| 2414200128 | 200 | 315.0 | 11.6 |
| 2414250130 | 250 | 400.0 | 11.6 |

aquatherm energy faser composite pipes à 11.6 m

aquatherm energy blue SDR 17.6 MF RP

faser composite pipe, 11.6 m length with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | PU [m] |
|----------------|-------------------------|-------------------------|--------|
| socket welding | | | |
| 2317125124 | 125 | 225.0 | 11.6 |
| butt welding | | | |
| 2317160126 | 160 | 250.0 | 11.6 |
| 2317200128 | 200 | 315.0 | 11.6 |
| 2317250130 | 250 | 400.0 | 11.6 |
| 2317315132 | 315 | 450.0 | 11.6 |
| 2317355134 | 355 | 500.0 | 11.6 |



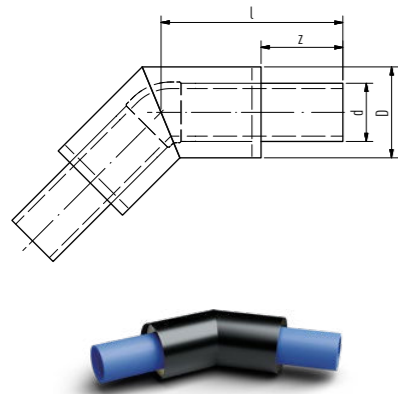
aquatherm energy elbow 45° SL 500

for aquatherm energy blue SDR 11 / *SDR 9 MF RP

with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | z | l | kg | PU |
|----------------|-------------------------|-------------------------|-------|-----|--------|----|
| socket welding | | | | | | |
| 2384032060 * | 32 | 90.0 | 225.0 | 500 | 1.026 | 1 |
| 2384050062 | 50 | 110.0 | 225.0 | 500 | 1.720 | 1 |
| 2384063063 | 63 | 125.0 | 225.0 | 500 | 2.340 | 1 |
| 2384075064 | 75 | 140.0 | 225.0 | 500 | 2.988 | 1 |
| 2384090065 | 90 | 160.0 | 225.0 | 500 | 4.150 | 1 |
| 2384110061 | 40 | 110.0 | 225.0 | 500 | 1.496 | 1 |
| 2384110066 | 110 | 200.0 | 225.0 | 500 | 6.300 | 1 |
| 2384125067 | 125 | 225.0 | 225.0 | 500 | 7.850 | 1 |
| butt welding | | | | | | |
| 2384160069 | 160 | 250.0 | 225.0 | 500 | 10.000 | 1 |
| 2384200071 | 200 | 315.0 | 225.0 | 500 | 14.806 | 1 |
| 2384250073 | 250 | 400.0 | 225.0 | 500 | 24.889 | 1 |
| 2384315075 | 315 | 450.0 | 225.0 | 500 | 38.788 | 1 |
| 2384355077 | 355 | 500.0 | 225.0 | 500 | 50.247 | 1 |

also available in design 15° and 30°.



aquatherm energy elbow 45° SL 500

for aquatherm energy blue ot SDR 11 / *SDR 9 MF RP

with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | z | l | kg | PU |
|----------------|-------------------------|-------------------------|-------|-----|--------|----|
| socket welding | | | | | | |
| 2480032001 * | 32 | 90.0 | 225.0 | 500 | 1.237 | 1 |
| 2480040002 | 40 | 110.0 | 225.0 | 500 | 1.533 | 1 |
| 2480050003 | 50 | 110.0 | 225.0 | 500 | 1.812 | 1 |
| 2480063004 | 63 | 125.0 | 225.0 | 500 | 2.455 | 1 |
| 2480075005 | 75 | 140.0 | 225.0 | 500 | 3.035 | 1 |
| 2480090006 | 90 | 160.0 | 225.0 | 500 | 4.293 | 1 |
| 2480110007 | 110 | 200.0 | 225.0 | 500 | 6.389 | 1 |
| 2480125008 | 125 | 225.0 | 225.0 | 500 | 8.177 | 1 |
| butt welding | | | | | | |
| 2484160009 | 160 | 250.0 | 225.0 | 500 | 10.156 | 1 |
| 2484200010 | 200 | 315.0 | 225.0 | 500 | 15.348 | 1 |
| 2484250011 | 250 | 400.0 | 225.0 | 500 | 25.853 | 1 |

also available in design 15° and 30°

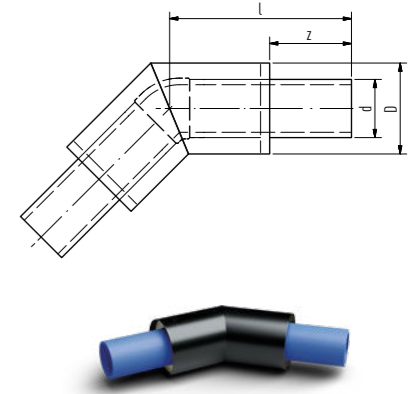
aquatherm energy elbow 45° SL 500

for aquatherm energy blue SDR 17.6 MF RP

with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | z | l | kg | PU |
|----------------|-------------------------|-------------------------|-------|-----|--------|----|
| socket welding | | | | | | |
| 2387125068 | 125 | 225.0 | 225.0 | 500 | 6.310 | 1 |
| butt welding | | | | | | |
| 2387160070 | 160 | 250.0 | 225.0 | 500 | 7.239 | 1 |
| 2387200072 | 200 | 315.0 | 225.0 | 500 | 11.163 | 1 |
| 2387250074 | 250 | 400.0 | 225.0 | 500 | 18.813 | 1 |
| 2387315076 | 315 | 450.0 | 225.0 | 500 | 28.521 | 1 |
| 2387355078 | 355 | 500.0 | 225.0 | 500 | 0.031 | 1 |

also available in design 15° and 30°



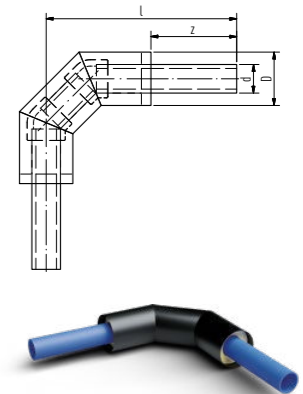
aquatherm energy elbow 90° SL 500

for aquatherm energy blue SDR 11 / *SDR 9 MF RP

with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | z | l | kg | PU |
|----------------|-------------------------|-------------------------|-------|-----|-------|----|
| socket welding | | | | | | |
| 2384032081 * | 32 | 90.0 | 225.0 | 500 | 1.000 | 1 |
| 2384040083 | 40 | 110.0 | 225.0 | 500 | 1.500 | 1 |
| 2384050085 | 50 | 110.0 | 225.0 | 500 | 1.660 | 1 |
| 2384063087 | 63 | 125.0 | 225.0 | 500 | 2.500 | 1 |
| 2384075089 | 75 | 140.0 | 225.0 | 500 | 3.000 | 1 |

also available in design 60° and 75°



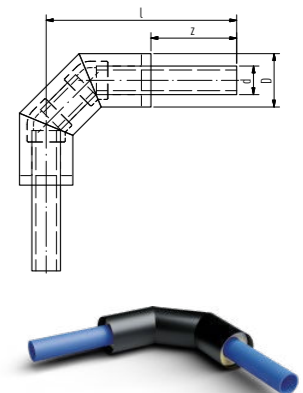
aquatherm energy elbow 90° SL 500

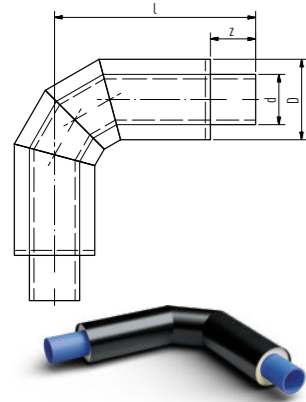
for aquatherm energy blue ot SDR 11 / *SDR 9 MF RP

with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | z | l | kg | PU |
|----------------|-------------------------|-------------------------|-------|-----|-------|----|
| socket welding | | | | | | |
| 2480032021 * | 32 | 90.0 | 225.0 | 500 | 1.264 | 1 |
| 2480040023 | 40 | 110.0 | 225.0 | 500 | 1.370 | 1 |
| 2480050025 | 50 | 110.0 | 225.0 | 500 | 1.670 | 1 |
| 2480063027 | 63 | 125.0 | 225.0 | 500 | 2.407 | 1 |
| 2480075029 | 75 | 140.0 | 225.0 | 500 | 3.500 | 1 |

also available in design 60° and 75°





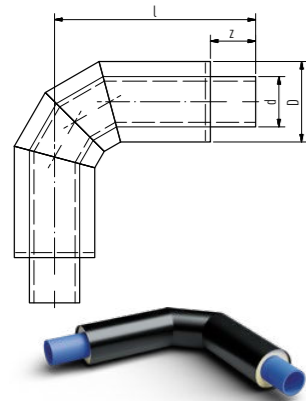
aquatherm energy elbow 90° SL 1000

with PUR rigid foam and coated with a casing pipe made of PEHD

for aquatherm energy blue SDR 11 / *SDR 9 MF RP

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | z | l | PU |
|----------------|-------------------------|-------------------------|-------|------|----|
| socket welding | | | | | |
| 2380032080 * | 32 | 90.0 | 225.0 | 1000 | 1 |
| 2380040082 | 40 | 110.0 | 225.0 | 1000 | 1 |
| 2380050084 | 50 | 110.0 | 225.0 | 1000 | 1 |
| 2380063086 | 63 | 125.0 | 225.0 | 1000 | 1 |
| 2380075088 | 75 | 140.0 | 225.0 | 1000 | 1 |
| 2380090090 | 90 | 160.0 | 225.0 | 1000 | 1 |
| 2380110091 | 110 | 200.0 | 225.0 | 1000 | 1 |
| 2380125092 | 125 | 225.0 | 225.0 | 1000 | 1 |
| butt welding | | | | | |
| 2384160094 | 160 | 250.0 | 225.0 | 1000 | 1 |
| 2384200096 | 200 | 315.0 | 225.0 | 1000 | 1 |
| 2384250098 | 250 | 400.0 | 225.0 | 1000 | 1 |
| 2384315100 | 315 | 450.0 | 225.0 | 1000 | 1 |
| 2384355102 | 355 | 500.0 | 225.0 | 1000 | 1 |

also available in design 60° and 75°



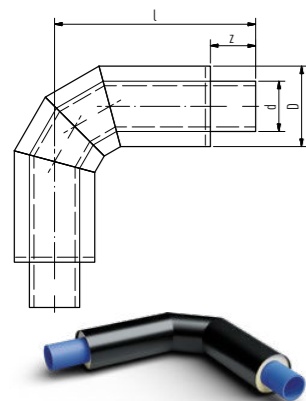
aquatherm energy elbow 90° SL 1000

with PUR rigid foam and coated with a casing pipe made of PEHD

for aquatherm energy blue ot SDR 11 / *SDR 9 MF RP

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | z | l | PU |
|----------------|-------------------------|-------------------------|-------|------|----|
| socket welding | | | | | |
| 2480032020 * | 32 | 90.0 | 225.0 | 1000 | 1 |
| 2480040022 | 40 | 110.0 | 225.0 | 1000 | 1 |
| 2480050024 | 50 | 110.0 | 225.0 | 1000 | 1 |
| 2480063026 | 63 | 125.0 | 225.0 | 1000 | 1 |
| 2480075028 | 75 | 140.0 | 225.0 | 1000 | 1 |
| 2480090030 | 90 | 160.0 | 225.0 | 1000 | 1 |
| 2480110031 | 110 | 200.0 | 225.0 | 1000 | 1 |
| 2480125032 | 125 | 225.0 | 225.0 | 1000 | 1 |
| butt welding | | | | | |
| 2484160033 | 160 | 250.0 | 225.0 | 1000 | 1 |
| 2484200034 | 200 | 315.0 | 225.0 | 1000 | 1 |
| 2484250035 | 250 | 400.0 | 225.0 | 1000 | 1 |

also available in design 60° and 75°



aquatherm energy elbow 90° SL 1000

with PUR rigid foam and coated with a casing pipe made of PEHD

for aquatherm energy blue SDR 17.6 MF RP

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | z | l | PU |
|----------------|-------------------------|-------------------------|-------|------|----|
| socket welding | | | | | |
| 2387125093 | 125 | 225.0 | 225.0 | 1000 | 1 |
| butt welding | | | | | |
| 2387160095 | 160 | 250.0 | 225.0 | 1000 | 1 |
| 2387200097 | 200 | 315.0 | 225.0 | 1000 | 1 |
| 2387250099 | 250 | 400.0 | 225.0 | 1000 | 1 |
| 2387315101 | 315 | 450.0 | 225.0 | 1000 | 1 |
| 2387355103 | 355 | 500.0 | 225.0 | 1000 | 1 |

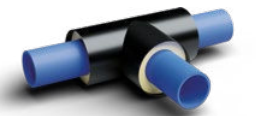
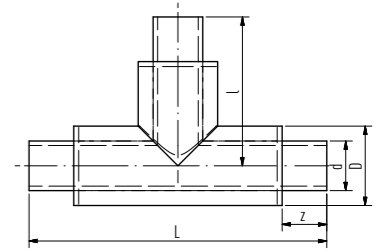
also available in design 60° and 75°

aquatherm energy branch

with PUR rigid foam and coated with a casing pipe made of PEHD

for aquatherm energy blue SDR 11 / *SDR 9 MF RP

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | z | l | L | PU |
|----------------|-------------------------|-------------------------|-------|-----|---------|----|
| socket welding | | | | | | |
| 2360032001 * | 32 | 90.0 | 225.0 | 500 | 1,000.0 | 1 |
| 2360040002 | 40 | 110.0 | 225.0 | 500 | 1,000.0 | 1 |
| 2360050003 | 50 | 110.0 | 225.0 | 500 | 1,000.0 | 1 |
| 2360063004 | 63 | 125.0 | 225.0 | 500 | 1,000.0 | 1 |
| 2360075005 | 75 | 140.0 | 225.0 | 500 | 1,000.0 | 1 |
| 2360090006 | 90 | 160.0 | 225.0 | 500 | 1,000.0 | 1 |
| 2360110007 | 110 | 200.0 | 225.0 | 500 | 1,000.0 | 1 |
| 2360125008 | 125 | 225.0 | 225.0 | 500 | 1,000.0 | 1 |
| butt welding | | | | | | |
| 2364160009 | 160 | 250.0 | 225.0 | 500 | 1,000.0 | 1 |
| 2364200010 | 200 | 315.0 | 225.0 | 750 | 1,500.0 | 1 |
| 2364250011 | 250 | 400.0 | 225.0 | 750 | 1,500.0 | 1 |
| 2364315012 | 315 | 450.0 | 225.0 | 750 | 1,500.0 | 1 |
| 2364355013 | 355 | 500.0 | 225.0 | 750 | 1,500.0 | 1 |

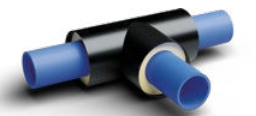
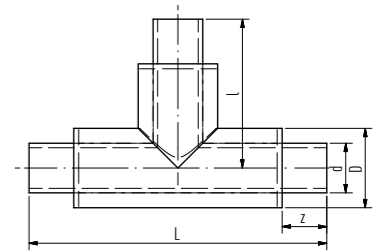


aquatherm energy branch

with PUR rigid foam and coated with a casing pipe made of PEHD

for aquatherm energy blue ot SDR 11 / *SDR 9 MF RP

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | z | l | L | PU |
|----------------|-------------------------|-------------------------|-------|-----|---------|----|
| socket welding | | | | | | |
| 2460032001 * | 32 | 90.0 | 225.0 | 500 | 1,000.0 | 1 |
| 2460040002 | 40 | 110.0 | 225.0 | 500 | 1,000.0 | 1 |
| 2460050003 | 50 | 110.0 | 225.0 | 500 | 1,000.0 | 1 |
| 2460063004 | 63 | 125.0 | 225.0 | 500 | 1,000.0 | 1 |
| 2460075005 | 75 | 140.0 | 225.0 | 500 | 1,000.0 | 1 |
| 2460090006 | 90 | 160.0 | 225.0 | 500 | 1,000.0 | 1 |
| 2460110007 | 110 | 200.0 | 225.0 | 500 | 1,000.0 | 1 |
| 2460125008 | 125 | 225.0 | 225.0 | 500 | 1,000.0 | 1 |
| butt welding | | | | | | |
| 2464160009 | 160 | 250.0 | 225.0 | 500 | 1,000.0 | 1 |
| 2464200010 | 200 | 315.0 | 225.0 | 750 | 1,500.0 | 1 |
| 2464250011 | 250 | 400.0 | 225.0 | 750 | 1,500.0 | 1 |

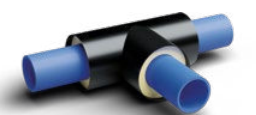
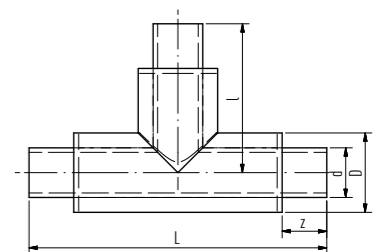


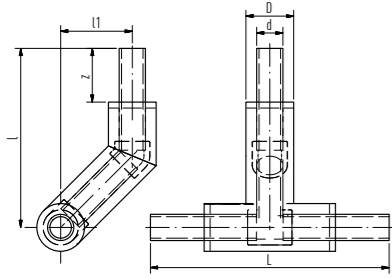
aquatherm energy branch

with PUR rigid foam and coated with a casing pipe made of PEHD

for aquatherm energy blue SDR 17.6 MF RP

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | z | l | L | PU |
|----------------|-------------------------|-------------------------|-------|-----|---------|----|
| socket welding | | | | | | |
| 2367125040 | 125 | 225.0 | 225.0 | 500 | 1,000.0 | 1 |
| butt welding | | | | | | |
| 2367160041 | 160 | 250.0 | 225.0 | 500 | 1,000.0 | 1 |
| 2367200042 | 200 | 315.0 | 225.0 | 750 | 1,500.0 | 1 |
| 2367250043 | 250 | 400.0 | 225.0 | 750 | 1,500.0 | 1 |
| 2367315044 | 315 | 450.0 | 225.0 | 750 | 1,500.0 | 1 |
| 2367355045 | 355 | 500.0 | 225.0 | 750 | 1,500.0 | 1 |



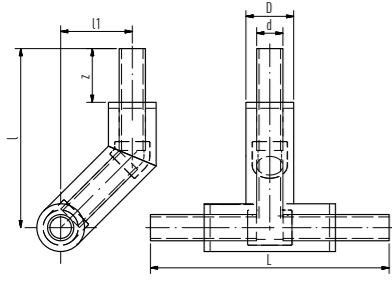


aquatherm energy cross-over branch

for aquatherm energy blue SDR 11 / *SDR 9 MF RP

with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | z | l | l1 | L | PU |
|----------------|-------------------------|-------------------------|-------|------|------|---------|----|
| socket welding | | | | | | | |
| 2360032020 * | 32 | 90.0 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360040021 | 40 | 110.0 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360050022 | 50 | 110.0 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360063023 | 63 | 125.0 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360075024 | 75 | 140.0 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360090025 | 90 | 160.0 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360110026 | 110 | 200.0 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360125027 | 125 | 225.0 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| butt welding | | | | | | | |
| 2364160028 | 160 | 250.0 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364200029 | 200 | 315.0 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |
| 2364250030 | 250 | 400.0 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |
| 2364315031 | 315 | 450.0 | 225.0 | 1250 | 1250 | 1,500.0 | 1 |
| 2364355032 | 355 | 500.0 | 225.0 | 1250 | 1250 | 1,500.0 | 1 |

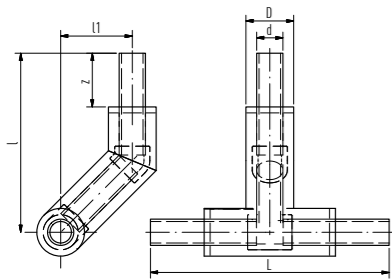


aquatherm energy cross-over branch

for aquatherm energy blue ot SDR 11 / *SDR 9 MF RP

with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | z | l | l1 | L | PU |
|----------------|-------------------------|-------------------------|-------|------|------|---------|----|
| socket welding | | | | | | | |
| 2460032020 * | 32 | 90.0 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460040021 | 40 | 110.0 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460050022 | 50 | 110.0 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460063023 | 63 | 125.0 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460075024 | 75 | 140.0 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460090025 | 90 | 160.0 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460110026 | 110 | 200.0 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460125027 | 125 | 225.0 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| butt welding | | | | | | | |
| 2464160028 | 160 | 250.0 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2464200029 | 200 | 315.0 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |
| 2464250030 | 250 | 400.0 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |



aquatherm energy cross-over branch

for aquatherm energy blue SDR 17.6 MF RP

with PUR rigid foam and coated with a casing pipe made of PEHD

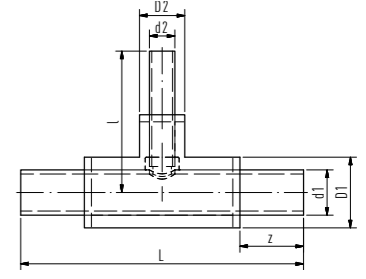
| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | z | l | l1 | L | PU |
|----------------|-------------------------|-------------------------|-------|------|------|---------|----|
| socket welding | | | | | | | |
| 2367125050 | 125 | 225.0 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| butt welding | | | | | | | |
| 2367160051 | 160 | 250.0 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367200052 | 200 | 315.0 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |
| 2367250053 | 250 | 400.0 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |
| 2367315054 | 315 | 450.0 | 225.0 | 1250 | 1250 | 1,500.0 | 1 |
| 2367355055 | 355 | 500.0 | 225.0 | 1250 | 1250 | 1,500.0 | 1 |

aquatherm energy red. branch

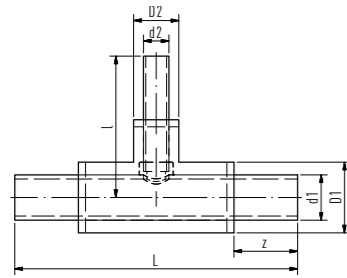
for aquatherm energy blue SDR 11 / *SDR 9 MF RP

with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside d1 | Ø outside d2 | Ø outside D1 | Ø outside D2 | z | l | L | PU |
|----------------|--------------|--------------|--------------|--------------|-------|-----|---------|----|
| socket welding | | | | | | | | |
| 2360040060 * | 40.0 | 32.0 | 110 | 90 | 225.0 | 500 | 1,000.0 | 1 |
| 2360050061 * | 50.0 | 32.0 | 110 | 90 | 225.0 | 500 | 1,000.0 | 1 |
| 2360050062 | 50.0 | 40.0 | 110 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2360063063 * | 63.0 | 32.0 | 125 | 90 | 225.0 | 500 | 1,000.0 | 1 |
| 2360063064 | 63.0 | 40.0 | 125 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2360063065 | 63.0 | 50.0 | 125 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2360075066 * | 75.0 | 32.0 | 140 | 90 | 225.0 | 500 | 1,000.0 | 1 |
| 2360075067 | 75.0 | 40.0 | 140 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2360075068 | 75.0 | 50.0 | 140 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2360075069 | 75.0 | 63.0 | 140 | 125 | 225.0 | 500 | 1,000.0 | 1 |
| 2360090070 * | 90.0 | 32.0 | 160 | 90 | 225.0 | 500 | 1,000.0 | 1 |
| 2360090071 | 90.0 | 40.0 | 160 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2360090072 | 90.0 | 50.0 | 160 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2360090073 | 90.0 | 63.0 | 160 | 125 | 225.0 | 500 | 1,000.0 | 1 |
| 2360090074 | 90.0 | 75.0 | 160 | 140 | 225.0 | 500 | 1,000.0 | 1 |
| 2360110075 * | 110.0 | 32.0 | 200 | 90 | 225.0 | 500 | 1,000.0 | 1 |
| 2360110076 | 110.0 | 40.0 | 200 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2360110077 | 110.0 | 50.0 | 200 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2360110078 | 110.0 | 63.0 | 200 | 125 | 225.0 | 500 | 1,000.0 | 1 |
| 2360110079 | 110.0 | 75.0 | 200 | 140 | 225.0 | 500 | 1,000.0 | 1 |
| 2360110080 | 110.0 | 90.0 | 200 | 160 | 225.0 | 500 | 1,000.0 | 1 |
| 2360125081 * | 125.0 | 32.0 | 225 | 90 | 225.0 | 500 | 1,000.0 | 1 |
| 2360125082 | 125.0 | 40.0 | 225 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2360125083 | 125.0 | 50.0 | 225 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2360125084 | 125.0 | 63.0 | 225 | 125 | 225.0 | 500 | 1,000.0 | 1 |
| 2360125085 | 125.0 | 75.0 | 225 | 140 | 225.0 | 500 | 1,000.0 | 1 |
| 2360125086 | 125.0 | 90.0 | 225 | 160 | 225.0 | 500 | 1,000.0 | 1 |
| 2360125087 | 125.0 | 110.0 | 225 | 200 | 225.0 | 500 | 1,000.0 | 1 |
| butt welding | | | | | | | | |
| 2364160088 * | 160.0 | 32.0 | 250 | 90 | 225.0 | 500 | 1,000.0 | 1 |
| 2364160089 | 160.0 | 40.0 | 250 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2364160090 | 160.0 | 50.0 | 250 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2364160091 | 160.0 | 63.0 | 250 | 125 | 225.0 | 500 | 1,000.0 | 1 |
| 2360160092 | 160.0 | 75.0 | 250 | 140 | 225.0 | 500 | 1,000.0 | 1 |
| 2364160093 | 160.0 | 90.0 | 250 | 160 | 225.0 | 500 | 1,000.0 | 1 |
| 2364160094 | 160.0 | 110.0 | 200 | 200 | 225.0 | 750 | 1,500.0 | 1 |
| 2364160095 | 160.0 | 125.0 | 250 | 225 | 225.0 | 750 | 1,500.0 | 1 |



*branch d2 SDR 9
continued on next page ...



aquatherm energy red. branch

(continued) for aquatherm energy blue ot SDR 11 / *SDR 9 MF RP

with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside d1 | Ø outside d2 | Ø outside D1 | Ø outside D2 | z | l | L | PU |
|--------------|--------------|--------------|--------------|--------------|-------|-----|---------|----|
| butt welding | | | | | | | | |
| 2364200096 * | 200.0 | 32.0 | 315 | 90 | 225.0 | 750 | 1,500.0 | 1 |
| 2364200097 | 200.0 | 40.0 | 315 | 110 | 225.0 | 750 | 1,500.0 | 1 |
| 2364200098 | 200.0 | 50.0 | 315 | 110 | 225.0 | 750 | 1,500.0 | 1 |
| 2364200099 | 200.0 | 63.0 | 315 | 125 | 225.0 | 750 | 1,500.0 | 1 |
| 2364200100 | 200.0 | 75.0 | 315 | 140 | 225.0 | 750 | 1,500.0 | 1 |
| 2364200101 | 200.0 | 90.0 | 315 | 160 | 225.0 | 750 | 1,500.0 | 1 |
| 2364200102 | 200.0 | 110.0 | 315 | 200 | 225.0 | 750 | 1,500.0 | 1 |
| 2364200103 | 200.0 | 125.0 | 315 | 225 | 225.0 | 750 | 1,500.0 | 1 |
| 2364200104 | 200.0 | 160.0 | 315 | 250 | 225.0 | 750 | 1,500.0 | 1 |
| 2364250105 * | 250.0 | 32.0 | 400 | 90 | 225.0 | 750 | 1,500.0 | 1 |
| 2364250106 | 250.0 | 40.0 | 400 | 110 | 225.0 | 750 | 1,500.0 | 1 |
| 2364250107 | 250.0 | 50.0 | 400 | 110 | 225.0 | 750 | 1,500.0 | 1 |
| 2364250108 | 250.0 | 63.0 | 400 | 125 | 225.0 | 750 | 1,500.0 | 1 |
| 2364250109 | 250.0 | 75.0 | 400 | 140 | 225.0 | 750 | 1,500.0 | 1 |
| 2364250110 | 250.0 | 90.0 | 400 | 160 | 225.0 | 750 | 1,500.0 | 1 |
| 2364250111 | 250.0 | 110.0 | 400 | 200 | 225.0 | 750 | 1,500.0 | 1 |
| 2364250112 | 250.0 | 125.0 | 400 | 225 | 225.0 | 750 | 1,500.0 | 1 |
| 2364250113 | 250.0 | 160.0 | 400 | 250 | 225.0 | 750 | 1,500.0 | 1 |
| 2364250114 | 250.0 | 200.0 | 400 | 315 | 225.0 | 750 | 1,500.0 | 1 |
| 2364315115 * | 315.0 | 32.0 | 450 | 90 | 225.0 | 750 | 1,500.0 | 1 |
| 2364315116 | 315.0 | 40.0 | 450 | 110 | 225.0 | 750 | 1,500.0 | 1 |
| 2364315117 | 315.0 | 50.0 | 450 | 110 | 225.0 | 750 | 1,500.0 | 1 |
| 2364315118 | 315.0 | 63.0 | 450 | 125 | 225.0 | 750 | 1,500.0 | 1 |
| 2364315119 | 315.0 | 75.0 | 450 | 140 | 225.0 | 750 | 1,500.0 | 1 |
| 2364315120 | 315.0 | 90.0 | 450 | 160 | 225.0 | 750 | 1,500.0 | 1 |
| 2364315121 | 315.0 | 110.0 | 450 | 200 | 225.0 | 750 | 1,500.0 | 1 |
| 2364315122 | 315.0 | 125.0 | 450 | 225 | 225.0 | 750 | 1,500.0 | 1 |
| 2364315123 | 315.0 | 160.0 | 450 | 250 | 225.0 | 750 | 1,500.0 | 1 |
| 2364315124 | 315.0 | 200.0 | 450 | 315 | 225.0 | 750 | 1,500.0 | 1 |
| 2364315125 | 315.0 | 250.0 | 450 | 400 | 225.0 | 750 | 1,500.0 | 1 |
| 2364355126 * | 355.0 | 32.0 | 500 | 90 | 225.0 | 750 | 1,500.0 | 1 |
| 2364355127 | 355.0 | 40.0 | 500 | 110 | 225.0 | 750 | 1,500.0 | 1 |
| 2364355128 | 355.0 | 50.0 | 500 | 110 | 225.0 | 750 | 1,500.0 | 1 |
| 2364355129 | 355.0 | 63.0 | 500 | 125 | 225.0 | 750 | 1,500.0 | 1 |
| 2364355130 | 355.0 | 75.0 | 500 | 140 | 225.0 | 750 | 1,500.0 | 1 |
| 2364355131 | 355.0 | 90.0 | 500 | 160 | 225.0 | 750 | 1,500.0 | 1 |
| 2364355132 | 355.0 | 110.0 | 500 | 200 | 225.0 | 750 | 1,500.0 | 1 |
| 2364355133 | 355.0 | 125.0 | 500 | 225 | 225.0 | 750 | 1,500.0 | 1 |
| 2364355134 | 355.0 | 160.0 | 500 | 250 | 225.0 | 750 | 1,500.0 | 1 |
| 2364355135 | 355.0 | 200.0 | 500 | 315 | 225.0 | 750 | 1,500.0 | 1 |
| 2364355136 | 355.0 | 250.0 | 500 | 400 | 225.0 | 750 | 1,500.0 | 1 |
| 2364355137 | 355.0 | 315.0 | 500 | 450 | 225.0 | 750 | 1,500.0 | 1 |

*branch d2 SDR 9

aquatherm energy red. branch

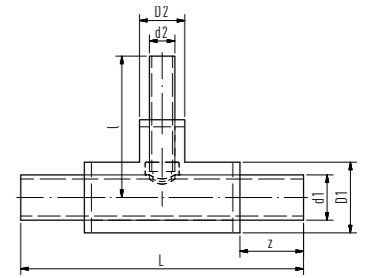
for aquatherm energy blue ot SDR 11 / *SDR 9 MF RP

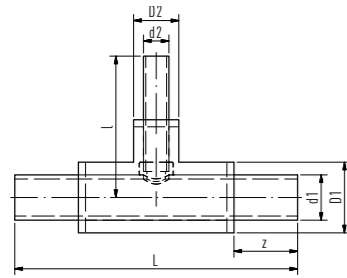
with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside d1 | Ø outside d2 | Ø outside D1 | Ø outside D2 | z | l | L | PU |
|----------------|--------------|--------------|--------------|--------------|-------|-----|---------|----|
| socket welding | | | | | | | | |
| 2460040220 * | 40.0 | 32.0 | 110 | 90 | 225.0 | 500 | 1,000.0 | 1 |
| 2460050221 * | 50.0 | 32.0 | 110 | 90 | 225.0 | 500 | 1,000.0 | 1 |
| 2460050222 | 50.0 | 40.0 | 110 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2460063223 * | 63.0 | 32.0 | 125 | 90 | 225.0 | 500 | 1,000.0 | 1 |
| 2460063224 | 63.0 | 40.0 | 125 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2460063225 | 63.0 | 50.0 | 125 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2460075226 * | 75.0 | 32.0 | 140 | 90 | 225.0 | 500 | 1,000.0 | 1 |
| 2460075227 | 75.0 | 40.0 | 140 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2460075228 | 75.0 | 50.0 | 140 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2460075229 | 75.0 | 63.0 | 140 | 125 | 225.0 | 500 | 1,000.0 | 1 |
| 2460090230 * | 90.0 | 32.0 | 160 | 90 | 225.0 | 500 | 1,000.0 | 1 |
| 2460090231 | 90.0 | 40.0 | 160 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2460090232 | 90.0 | 50.0 | 160 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2460090233 | 90.0 | 63.0 | 160 | 125 | 225.0 | 500 | 1,000.0 | 1 |
| 2460090234 | 90.0 | 75.0 | 160 | 140 | 225.0 | 500 | 1,000.0 | 1 |
| 2460110235 * | 110.0 | 32.0 | 200 | 90 | 225.0 | 500 | 1,000.0 | 1 |
| 2460110236 | 110.0 | 40.0 | 200 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2460110237 | 110.0 | 50.0 | 200 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2460110238 | 110.0 | 63.0 | 200 | 125 | 225.0 | 500 | 1,000.0 | 1 |
| 2460110239 | 110.0 | 75.0 | 200 | 140 | 225.0 | 500 | 1,000.0 | 1 |
| 2460110240 | 110.0 | 90.0 | 200 | 160 | 225.0 | 500 | 1,000.0 | 1 |
| 2460125241 * | 125.0 | 32.0 | 225 | 90 | 225.0 | 500 | 1,000.0 | 1 |
| 2460125242 | 125.0 | 40.0 | 225 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2460125243 | 125.0 | 50.0 | 225 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2460125244 | 125.0 | 63.0 | 225 | 125 | 225.0 | 500 | 1,000.0 | 1 |
| 2460125245 | 125.0 | 75.0 | 225 | 140 | 225.0 | 500 | 1,000.0 | 1 |
| 2460125246 | 125.0 | 90.0 | 225 | 160 | 225.0 | 500 | 1,000.0 | 1 |
| 2460125247 | 125.0 | 110.0 | 225 | 200 | 225.0 | 500 | 1,000.0 | 1 |
| butt welding | | | | | | | | |
| 2464160248 * | 160.0 | 32.0 | 250 | 90 | 225.0 | 500 | 1,000.0 | 1 |
| 2464160249 | 160.0 | 40.0 | 250 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2464160250 | 160.0 | 50.0 | 250 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2464160251 | 160.0 | 63.0 | 250 | 125 | 225.0 | 500 | 1,000.0 | 1 |
| 2464160252 | 160.0 | 75.0 | 250 | 140 | 225.0 | 500 | 1,000.0 | 1 |
| 2464160253 | 160.0 | 90.0 | 250 | 160 | 225.0 | 500 | 1,000.0 | 1 |
| 2464160254 | 160.0 | 110.0 | 250 | 200 | 225.0 | 750 | 1,500.0 | 1 |
| 2464160255 | 160.0 | 125.0 | 250 | 225 | 225.0 | 750 | 1,500.0 | 1 |

*branch d2 SDR 9

continued on next page ...





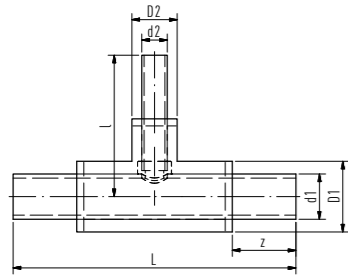
aquatherm energy red. branch

(continued) for aquatherm energy blue at SDR 11 / *SDR 9 MF RP

with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside d1 | Ø outside d2 | Ø outside D1 | Ø outside D2 | z | l | L | PU |
|--------------|--------------|--------------|--------------|--------------|-------|-----|---------|----|
| butt welding | | | | | | | | |
| 2464200256 * | 200.0 | 32.0 | 315 | 90 | 225.0 | 750 | 1,500.0 | 1 |
| 2464200257 | 200.0 | 40.0 | 315 | 110 | 225.0 | 750 | 1,500.0 | 1 |
| 2464200258 | 200.0 | 50.0 | 315 | 110 | 225.0 | 750 | 1,500.0 | 1 |
| 2464200259 | 200.0 | 63.0 | 315 | 125 | 225.0 | 750 | 1,500.0 | 1 |
| 2464200260 | 200.0 | 75.0 | 315 | 140 | 225.0 | 750 | 1,500.0 | 1 |
| 2464200261 | 200.0 | 90.0 | 315 | 160 | 225.0 | 750 | 1,500.0 | 1 |
| 2464200262 | 200.0 | 110.0 | 315 | 200 | 225.0 | 750 | 1,500.0 | 1 |
| 2464200263 | 200.0 | 125.0 | 315 | 225 | 225.0 | 750 | 1,500.0 | 1 |
| 2464200264 | 200.0 | 160.0 | 315 | 250 | 225.0 | 750 | 1,500.0 | 1 |
| 2464250265 * | 250.0 | 32.0 | 400 | 90 | 225.0 | 750 | 1,500.0 | 1 |
| 2464250266 | 250.0 | 40.0 | 400 | 110 | 225.0 | 750 | 1,500.0 | 1 |
| 2464250267 | 250.0 | 50.0 | 400 | 110 | 225.0 | 750 | 1,500.0 | 1 |
| 2464250268 | 250.0 | 63.0 | 400 | 125 | 225.0 | 750 | 1,500.0 | 1 |
| 2464250269 | 250.0 | 75.0 | 400 | 140 | 225.0 | 750 | 1,500.0 | 1 |
| 2464250270 | 250.0 | 90.0 | 400 | 160 | 225.0 | 750 | 1,500.0 | 1 |
| 2464250271 | 250.0 | 110.0 | 400 | 200 | 225.0 | 750 | 1,500.0 | 1 |
| 2464250272 | 250.0 | 125.0 | 400 | 225 | 225.0 | 750 | 1,500.0 | 1 |
| 2464250273 | 250.0 | 160.0 | 400 | 250 | 225.0 | 750 | 1,500.0 | 1 |
| 2464250274 | 250.0 | 200.0 | 400 | 315 | 225.0 | 750 | 1,500.0 | 1 |

*branch d2 SDR 9



aquatherm energy red. branch

for aquatherm energy blue SDR 17.6 / SDR 11 MF RP

with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside d1 | Ø outside d2 | Ø outside D1 | Ø outside D2 | z | l | L | PU |
|----------------|--------------|--------------|--------------|--------------|-------|-----|---------|----|
| socket welding | | | | | | | | |
| 2367125335 * | 125.0 | 32.0 | 225 | 90 | 225.0 | 500 | 1,000.0 | 1 |
| 2367125336 * | 125.0 | 40.0 | 225 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2367125337 * | 125.0 | 50.0 | 225 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2367125338 * | 125.0 | 63.0 | 225 | 125 | 225.0 | 500 | 1,000.0 | 1 |
| 2360125339 * | 125.0 | 75.0 | 225 | 140 | 225.0 | 500 | 1,000.0 | 1 |
| 2367125340 * | 125.0 | 90.0 | 225 | 160 | 225.0 | 500 | 1,000.0 | 1 |
| 2360125341 * | 125.0 | 110.0 | 225 | 200 | 225.0 | 500 | 1,000.0 | 1 |
| butt welding | | | | | | | | |
| 2367160342 * | 160.0 | 32.0 | 250 | 90 | 225.0 | 500 | 1,000.0 | 1 |
| 2367160343 * | 160.0 | 40.0 | 250 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2367160344 * | 160.0 | 50.0 | 250 | 110 | 225.0 | 500 | 1,000.0 | 1 |
| 2367160345 * | 160.0 | 63.0 | 250 | 125 | 225.0 | 500 | 1,000.0 | 1 |
| 2367160346 * | 160.0 | 75.0 | 250 | 140 | 225.0 | 500 | 1,000.0 | 1 |
| 2367160347 * | 160.0 | 90.0 | 250 | 160 | 225.0 | 500 | 1,000.0 | 1 |
| 2367160348 * | 160.0 | 110.0 | 250 | 200 | 225.0 | 750 | 1,500.0 | 1 |
| 2367160349 | 160.0 | 125.0 | 250 | 225 | 225.0 | 750 | 1,500.0 | 1 |

*branch d2 SDR 11
continued on next page ...

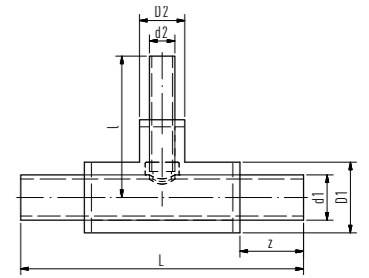
aquatherm energy red. branch

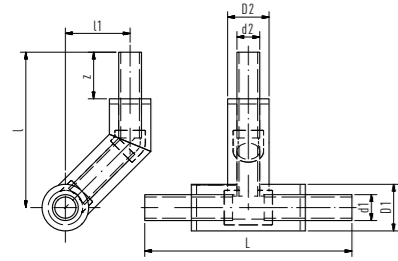
(continued) for aquatherm energy blue SDR 17.6 / SDR 11 MF RP

with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside d1 | Ø outside d2 | Ø outside D1 | Ø outside D2 | z | l | L | PU |
|--------------|--------------|--------------|--------------|--------------|-------|-----|---------|----|
| butt welding | | | | | | | | |
| 2367200350 * | 200.0 | 32.0 | 315 | 90 | 225.0 | 750 | 1,500.0 | 1 |
| 2367200351 * | 200.0 | 40.0 | 315 | 110 | 225.0 | 750 | 1,500.0 | 1 |
| 2367200352 * | 200.0 | 50.0 | 315 | 110 | 225.0 | 750 | 1,500.0 | 1 |
| 2367200353 * | 200.0 | 63.0 | 315 | 125 | 225.0 | 750 | 1,500.0 | 1 |
| 2367200354 * | 200.0 | 75.0 | 315 | 140 | 225.0 | 750 | 1,500.0 | 1 |
| 2367200355 * | 200.0 | 90.0 | 315 | 160 | 225.0 | 750 | 1,500.0 | 1 |
| 2367200356 * | 200.0 | 110.0 | 315 | 200 | 225.0 | 750 | 1,500.0 | 1 |
| 2367200357 | 200.0 | 125.0 | 315 | 225 | 225.0 | 750 | 1,500.0 | 1 |
| 2367200358 | 200.0 | 160.0 | 315 | 250 | 225.0 | 750 | 1,500.0 | 1 |
| 2367250359 * | 250.0 | 32.0 | 400 | 90 | 225.0 | 750 | 1,500.0 | 1 |
| 2367250360 * | 250.0 | 40.0 | 400 | 110 | 225.0 | 750 | 1,500.0 | 1 |
| 2367250361 * | 250.0 | 50.0 | 400 | 110 | 225.0 | 750 | 1,500.0 | 1 |
| 2367250362 * | 250.0 | 63.0 | 400 | 125 | 225.0 | 750 | 1,500.0 | 1 |
| 2367250363 * | 250.0 | 75.0 | 400 | 140 | 225.0 | 750 | 1,500.0 | 1 |
| 2367250364 * | 250.0 | 90.0 | 400 | 160 | 225.0 | 750 | 1,500.0 | 1 |
| 2367250365 * | 250.0 | 110.0 | 400 | 200 | 225.0 | 750 | 1,500.0 | 1 |
| 2367250366 | 250.0 | 125.0 | 400 | 225 | 225.0 | 750 | 1,500.0 | 1 |
| 2367250367 | 250.0 | 160.0 | 400 | 250 | 225.0 | 750 | 1,500.0 | 1 |
| 2367250368 | 250.0 | 200.0 | 400 | 315 | 225.0 | 750 | 1,500.0 | 1 |
| 2367315369 * | 315.0 | 32.0 | 450 | 90 | 225.0 | 750 | 1,500.0 | 1 |
| 2367315370 * | 315.0 | 40.0 | 450 | 110 | 225.0 | 750 | 1,500.0 | 1 |
| 2367315371 * | 315.0 | 50.0 | 450 | 110 | 225.0 | 750 | 1,500.0 | 1 |
| 2367315372 * | 315.0 | 63.0 | 450 | 125 | 225.0 | 750 | 1,500.0 | 1 |
| 2367315373 * | 315.0 | 75.0 | 450 | 140 | 225.0 | 750 | 1,500.0 | 1 |
| 2367315374 * | 315.0 | 90.0 | 450 | 160 | 225.0 | 750 | 1,500.0 | 1 |
| 2367315375 * | 315.0 | 110.0 | 450 | 200 | 225.0 | 750 | 1,500.0 | 1 |
| 2367315376 | 315.0 | 125.0 | 450 | 225 | 225.0 | 750 | 1,500.0 | 1 |
| 2367315377 | 315.0 | 160.0 | 450 | 250 | 225.0 | 750 | 1,500.0 | 1 |
| 2367315378 | 315.0 | 200.0 | 450 | 315 | 225.0 | 750 | 1,500.0 | 1 |
| 2367315379 | 315.0 | 250.0 | 450 | 400 | 225.0 | 750 | 1,500.0 | 1 |
| 2367355380 * | 355.0 | 32.0 | 500 | 90 | 225.0 | 750 | 1,500.0 | 1 |
| 2367355381 * | 355.0 | 40.0 | 500 | 110 | 225.0 | 750 | 1,500.0 | 1 |
| 2367355382 * | 355.0 | 50.0 | 500 | 110 | 225.0 | 750 | 1,500.0 | 1 |
| 2367355383 * | 355.0 | 63.0 | 500 | 125 | 225.0 | 750 | 1,500.0 | 1 |
| 2367355384 * | 355.0 | 75.0 | 500 | 140 | 225.0 | 750 | 1,500.0 | 1 |
| 2367355385 * | 355.0 | 90.0 | 500 | 160 | 225.0 | 750 | 1,500.0 | 1 |
| 2367355386 * | 355.0 | 110.0 | 500 | 200 | 225.0 | 750 | 1,500.0 | 1 |
| 2367355387 | 355.0 | 125.0 | 500 | 225 | 225.0 | 750 | 1,500.0 | 1 |
| 2367355388 | 355.0 | 160.0 | 500 | 250 | 225.0 | 750 | 1,500.0 | 1 |
| 2367355389 | 355.0 | 200.0 | 500 | 315 | 225.0 | 750 | 1,500.0 | 1 |
| 2367355390 | 355.0 | 250.0 | 500 | 400 | 225.0 | 750 | 1,500.0 | 1 |
| 2367355391 | 355.0 | 315.0 | 500 | 450 | 225.0 | 750 | 1,500.0 | 1 |

*branch d2 SDR 11





aquatherm energy cross-over branch

with PUR rigid foam and coated with a casing pipe made of PEHD

for aquatherm energy blue SDR 11 / *SDR 9 MF RP

| Article no. | Ø outside d1 | Ø outside d2 | Ø outside D1 | Ø outside D2 | z | l | l1 | L | PU |
|----------------|--------------|--------------|--------------|--------------|-------|------|------|---------|----|
| socket welding | | | | | | | | | |
| 2360040138 * | 40.0 | 32.0 | 110 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360050139 * | 50.0 | 32.0 | 110 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360050140 | 50.0 | 40.0 | 110 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360063141 * | 63.0 | 32.0 | 125 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360063142 | 63.0 | 40.0 | 125 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360063143 | 63.0 | 50.0 | 125 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360075144 * | 75.0 | 32.0 | 140 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360075145 | 75.0 | 40.0 | 140 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360075146 | 75.0 | 50.0 | 140 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360075147 | 75.0 | 63.0 | 140 | 125 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360090148 * | 90.0 | 32.0 | 160 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360090149 | 90.0 | 40.0 | 160 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360090150 | 90.0 | 50.0 | 160 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360090151 | 90.0 | 63.0 | 160 | 125 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360090152 | 90.0 | 75.0 | 160 | 140 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360110153 * | 110.0 | 32.0 | 200 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360110154 | 110.0 | 40.0 | 200 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360110155 | 110.0 | 50.0 | 200 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360110156 | 110.0 | 63.0 | 200 | 125 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360110157 | 110.0 | 75.0 | 200 | 140 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360110158 | 110.0 | 90.0 | 200 | 160 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360125159 * | 125.0 | 32.0 | 225 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360125160 | 125.0 | 40.0 | 225 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360125161 | 125.0 | 50.0 | 225 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360125162 | 125.0 | 63.0 | 225 | 125 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360125163 | 125.0 | 75.0 | 225 | 140 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360125164 | 125.0 | 90.0 | 225 | 160 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360125165 | 125.0 | 110.0 | 225 | 200 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| butt welding | | | | | | | | | |
| 2364160166 * | 160.0 | 32.0 | 250 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2364160167 | 160.0 | 40.0 | 250 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2364160168 | 160.0 | 50.0 | 250 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2364160169 | 160.0 | 63.0 | 250 | 125 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2364160170 | 160.0 | 75.0 | 250 | 140 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2364160171 | 160.0 | 90.0 | 250 | 160 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2364160172 | 160.0 | 110.0 | 250 | 200 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364160173 | 160.0 | 125.0 | 250 | 225 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |

*branch d2 SDR 9
continued on next page ...

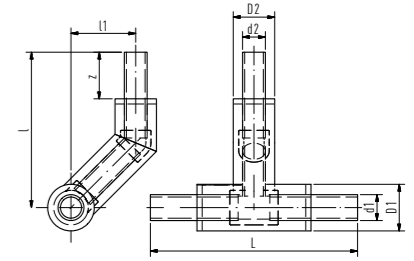
aquatherm energy cross-over branch

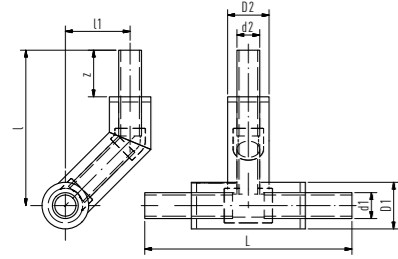
with PUR rigid foam and coated with a casing pipe made of PEHD

(continued) for aquatherm energy blue SDR 11 / *SDR 9 MF RP

| Article no. | Ø outside d1 | Ø outside d2 | Ø outside D1 | Ø outside D2 | z | l | l1 | L | PU |
|--------------|--------------|--------------|--------------|--------------|-------|------|------|---------|----|
| butt welding | | | | | | | | | |
| 2364200174 * | 200.0 | 32.0 | 315 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2364200175 | 200.0 | 40.0 | 315 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2364200176 | 200.0 | 50.0 | 315 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2364200177 | 200.0 | 63.0 | 315 | 125 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2364200178 | 200.0 | 75.0 | 315 | 140 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2364200179 | 200.0 | 90.0 | 315 | 160 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2364200180 | 200.0 | 110.0 | 315 | 200 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364200181 | 200.0 | 125.0 | 315 | 225 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |
| 2364200182 | 200.0 | 160.0 | 315 | 250 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |
| 2364250183 * | 250.0 | 32.0 | 400 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2364250184 | 250.0 | 40.0 | 400 | 110 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364250185 | 250.0 | 50.0 | 400 | 110 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364250186 | 250.0 | 63.0 | 400 | 125 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364250187 | 250.0 | 75.0 | 400 | 140 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364250188 | 250.0 | 90.0 | 400 | 160 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364250189 | 250.0 | 110.0 | 400 | 200 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364250190 | 250.0 | 125.0 | 400 | 225 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364250191 | 250.0 | 160.0 | 400 | 250 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |
| 2364250192 | 250.0 | 200.0 | 400 | 315 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |
| 2364315193 * | 315.0 | 32.0 | 450 | 90 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364315194 | 315.0 | 40.0 | 450 | 110 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364315195 | 315.0 | 50.0 | 450 | 110 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364315196 | 315.0 | 63.0 | 450 | 125 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364315197 | 315.0 | 75.0 | 450 | 140 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364315198 | 315.0 | 90.0 | 450 | 160 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364315199 | 315.0 | 110.0 | 450 | 200 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364315200 | 315.0 | 125.0 | 450 | 225 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364315201 | 315.0 | 160.0 | 450 | 250 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364315202 | 315.0 | 200.0 | 450 | 315 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |
| 2364315203 | 315.0 | 250.0 | 450 | 400 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |
| 2364355204 * | 355.0 | 32.0 | 500 | 90 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364355205 | 355.0 | 40.0 | 500 | 110 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364355206 | 355.0 | 50.0 | 500 | 110 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364355207 | 355.0 | 63.0 | 500 | 125 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364355208 | 355.0 | 75.0 | 500 | 140 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364355209 | 355.0 | 90.0 | 500 | 160 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364355210 | 355.0 | 110.0 | 500 | 200 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364355211 | 355.0 | 125.0 | 500 | 225 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364355212 | 355.0 | 160.0 | 500 | 250 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364355213 | 355.0 | 200.0 | 500 | 315 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2364355214 | 355.0 | 250.0 | 500 | 400 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |
| 2364355215 | 355.0 | 315.0 | 500 | 450 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |

*branch d2 SDR 9





aquatherm energy cross-over branch

for aquatherm energy blue ot SDR 11 / *SDR 9 MF RP

with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside d1 | Ø outside d2 | Ø outside D1 | Ø outside D2 | z | l | l1 | L | PU |
|----------------|--------------|--------------|--------------|--------------|-------|------|------|---------|----|
| socket welding | | | | | | | | | |
| 2460040280 * | 40.0 | 32.0 | 110 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460050281 * | 50.0 | 32.0 | 110 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460050282 | 50.0 | 40.0 | 110 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460063283 * | 63.0 | 32.0 | 125 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460063284 | 63.0 | 40.0 | 125 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460063285 | 63.0 | 50.0 | 125 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460075286 * | 75.0 | 32.0 | 140 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460075287 | 75.0 | 40.0 | 140 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460075288 | 75.0 | 50.0 | 140 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460075289 | 75.0 | 63.0 | 140 | 125 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460090290 * | 90.0 | 32.0 | 160 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460090291 | 90.0 | 40.0 | 160 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460090292 | 90.0 | 50.0 | 160 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460090293 | 90.0 | 63.0 | 160 | 125 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460090294 | 90.0 | 75.0 | 160 | 140 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460110295 * | 110.0 | 32.0 | 200 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460110296 | 110.0 | 40.0 | 200 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460110297 | 110.0 | 50.0 | 200 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460110298 | 110.0 | 63.0 | 200 | 125 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460110299 | 110.0 | 75.0 | 200 | 140 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460110300 | 110.0 | 90.0 | 200 | 160 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460125301 * | 125.0 | 32.0 | 225 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460125302 | 125.0 | 40.0 | 225 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460125303 | 125.0 | 50.0 | 225 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460125304 | 125.0 | 63.0 | 225 | 125 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460125305 | 125.0 | 75.0 | 225 | 140 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460125306 | 125.0 | 90.0 | 225 | 160 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2460125307 | 125.0 | 110.0 | 225 | 200 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| butt welding | | | | | | | | | |
| 2464160308 * | 160.0 | 32.0 | 250 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2464160309 | 160.0 | 40.0 | 250 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2464160310 | 160.0 | 50.0 | 250 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2464160311 | 160.0 | 63.0 | 250 | 125 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2464160312 | 160.0 | 75.0 | 250 | 140 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2464160313 | 160.0 | 90.0 | 250 | 160 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2464160314 | 160.0 | 110.0 | 250 | 200 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2464160315 | 160.0 | 125.0 | 250 | 225 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |

*branch d2 SDR 11
continued on next page ...

aquatherm energy cross-over branch

(continued) for aquatherm energy blue ot SDR 11 / *SDR 9 MF RP

with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside d1 | Ø outside d2 | Ø outside D1 | Ø outside D2 | z | l | l1 | L | PU |
|--------------|--------------|--------------|--------------|--------------|-------|------|------|---------|----|
| butt welding | | | | | | | | | |
| 2464200316 * | 200.0 | 32.0 | 315 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2464200317 | 200.0 | 40.0 | 315 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2464200318 | 200.0 | 50.0 | 315 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2464200319 | 200.0 | 63.0 | 315 | 125 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2464200320 | 200.0 | 75.0 | 315 | 140 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2464200321 | 200.0 | 90.0 | 315 | 160 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2464200322 | 200.0 | 110.0 | 315 | 200 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2464200323 | 200.0 | 125.0 | 315 | 225 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2464200324 | 200.0 | 160.0 | 315 | 250 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2464250325 * | 250.0 | 32.0 | 400 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2464250326 | 250.0 | 40.0 | 400 | 110 | 250.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2464250327 | 250.0 | 50.0 | 400 | 110 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2464250328 | 250.0 | 63.0 | 400 | 125 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2464250329 | 250.0 | 75.0 | 400 | 140 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2464250330 | 250.0 | 90.0 | 400 | 160 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2464250331 | 250.0 | 110.0 | 400 | 200 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2464250332 | 250.0 | 125.0 | 400 | 225 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2464250333 | 250.0 | 160.0 | 400 | 250 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |
| 2464250334 | 250.0 | 200.0 | 400 | 315 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |

*branch d2 SDR 9

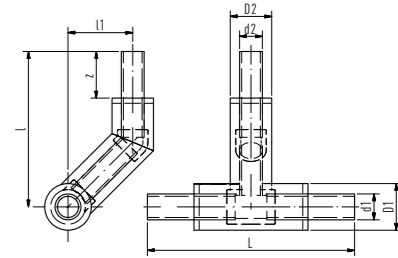
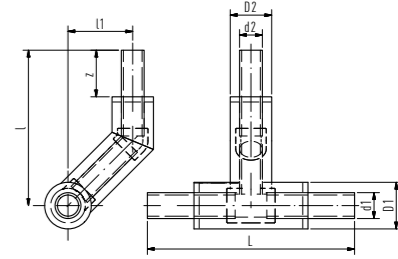
aquatherm energy cross-over branch

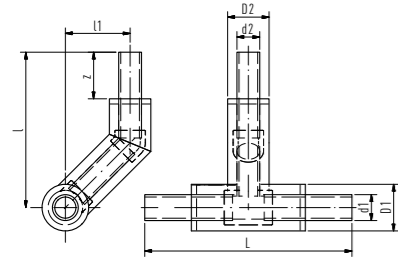
for aquatherm energy blue SDR 17.6 / SDR 11 MF RP

with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside d1 | Ø outside d2 | Ø outside D1 | Ø outside D2 | z | l | l1 | L | PU |
|----------------|--------------|--------------|--------------|--------------|-------|------|------|---------|----|
| socket welding | | | | | | | | | |
| 2367125400 * | 125.0 | 32.0 | 225 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2367125401 * | 125.0 | 40.0 | 225 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2367125402 * | 125.0 | 50.0 | 225 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360125403 * | 125.0 | 63.0 | 225 | 125 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360125404 * | 125.0 | 75.0 | 225 | 140 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360125405 * | 125.0 | 90.0 | 225 | 160 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2360125406 * | 125.0 | 110.0 | 225 | 200 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| butt welding | | | | | | | | | |
| 2367160407 * | 160.0 | 32.0 | 250 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2367160408 * | 160.0 | 40.0 | 250 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2367160409 * | 160.0 | 50.0 | 250 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2367160410 * | 160.0 | 63.0 | 250 | 125 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2367160411 * | 160.0 | 75.0 | 250 | 140 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2367160412 * | 160.0 | 90.0 | 250 | 160 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2367160413 * | 160.0 | 110.0 | 250 | 200 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367160414 | 160.0 | 125.0 | 250 | 225 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |

*branch d2 SDR 11
continued on next page ...





aquatherm energy cross-over branch

(continued) for aquatherm energy blue SDR 17.6 / SDR 11 MF RP

with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside d1 | Ø outside d2 | Ø outside D1 | Ø outside D2 | z | l | l1 | L | PU |
|--------------|--------------|--------------|--------------|--------------|-------|------|------|---------|----|
| butt welding | | | | | | | | | |
| 2367200415 * | 200.0 | 32.0 | 315 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2367200416 * | 200.0 | 40.0 | 315 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2367200417 * | 200.0 | 50.0 | 315 | 110 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2367200418 * | 200.0 | 63.0 | 315 | 125 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2367200419 * | 200.0 | 75.0 | 315 | 140 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2367200420 * | 200.0 | 90.0 | 315 | 160 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2367200421 * | 200.0 | 110.0 | 315 | 200 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367200422 | 200.0 | 125.0 | 315 | 225 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |
| 2367200423 | 200.0 | 160.0 | 315 | 250 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |
| 2367250424 * | 250.0 | 32.0 | 400 | 90 | 225.0 | 750 | 750 | 1,000.0 | 1 |
| 2367250425 * | 250.0 | 40.0 | 400 | 110 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367250426 * | 250.0 | 50.0 | 400 | 110 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367250427 * | 250.0 | 63.0 | 400 | 125 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367250428 * | 250.0 | 75.0 | 400 | 140 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367250429 * | 250.0 | 90.0 | 400 | 160 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367250430 * | 250.0 | 110.0 | 400 | 200 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367250431 | 250.0 | 125.0 | 400 | 225 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367250432 | 250.0 | 160.0 | 400 | 250 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |
| 2367250433 | 250.0 | 200.0 | 400 | 315 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |
| 2367315434 * | 315.0 | 32.0 | 450 | 90 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367315435 * | 315.0 | 40.0 | 450 | 110 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367315436 * | 315.0 | 50.0 | 450 | 110 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367315437 * | 315.0 | 63.0 | 450 | 125 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367315438 * | 315.0 | 75.0 | 450 | 140 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367315439 * | 315.0 | 90.0 | 450 | 160 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367315440 * | 315.0 | 110.0 | 450 | 200 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367315441 | 315.0 | 125.0 | 450 | 225 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367315442 | 315.0 | 160.0 | 450 | 250 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367315443 | 315.0 | 200.0 | 450 | 315 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |
| 2367315444 | 315.0 | 250.0 | 450 | 400 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |
| 2367355445 * | 355.0 | 32.0 | 500 | 90 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367355446 * | 355.0 | 40.0 | 500 | 110 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367355447 * | 355.0 | 50.0 | 500 | 110 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367355448 * | 355.0 | 63.0 | 500 | 125 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367355449 * | 355.0 | 75.0 | 500 | 140 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367355450 * | 355.0 | 90.0 | 500 | 160 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367355451 * | 355.0 | 110.0 | 500 | 200 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367355452 | 355.0 | 125.0 | 500 | 225 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367355453 | 355.0 | 160.0 | 500 | 250 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367355454 | 355.0 | 200.0 | 500 | 315 | 225.0 | 1000 | 1000 | 1,000.0 | 1 |
| 2367355455 | 355.0 | 250.0 | 500 | 400 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |
| 2367355456 | 355.0 | 315.0 | 500 | 450 | 225.0 | 1000 | 1000 | 1,500.0 | 1 |

*branch d2 SDR 11

aquatherm energy faser composite pipes à 5.8 m

for aquatherm energy green SDR 9 MF RP, socket welding

faser composite pipe, 5.8 m length with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | PU [m] |
|--------------|-------------------------|-------------------------|--------|
| 1313032010 | 32 | 90.0 | 5.8 |
| 1313040012 | 40 | 110.0 | 5.8 |
| 1313050014 | 50 | 110.0 | 5.8 |
| 1313063016 | 63 | 125.0 | 5.8 |
| 1313075018 | 75 | 140.0 | 5.8 |
| 1313090020 | 90 | 160.0 | 5.8 |
| 1313110022 | 110 | 200.0 | 5.8 |
| 1313125024 | 125 | 225.0 | 5.8 |
| 1313160026 * | 160 | 250.0 | 5.8 |

*butt welding
aquatherm energy green SDR 9 in dimensions from 200 mm (medium pipe) available on request.



aquatherm energy faser composite pipes à 11.6 m

for aquatherm energy green SDR 9 MF RP, socket welding

faser composite pipe, 11.6 m length with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | PU [m] |
|-------------|-------------------------|-------------------------|--------|
| 1313032110 | 32 | 90.0 | 11.6 |
| 1313040112 | 40 | 110.0 | 11.6 |
| 1313050114 | 50 | 110.0 | 11.6 |
| 1313063116 | 63 | 125.0 | 11.6 |
| 1313075118 | 75 | 140.0 | 11.6 |
| 1313090120 | 90 | 160.0 | 11.6 |
| 1313110122 | 110 | 200.0 | 11.6 |
| 1313125124 | 125 | 225.0 | 11.6 |
| 1313160126* | 160 | 250.0 | 11.6 |

*butt welding
aquatherm energy green SDR 9 in dimensions from 200 mm (medium pipe) available on request.



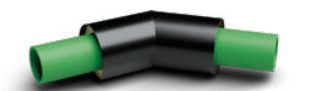
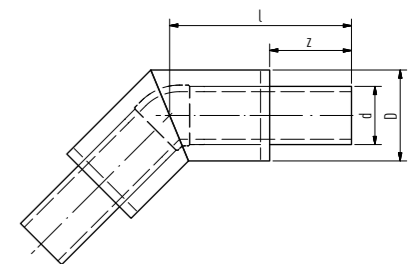
aquatherm energy elbow 45° SL 500

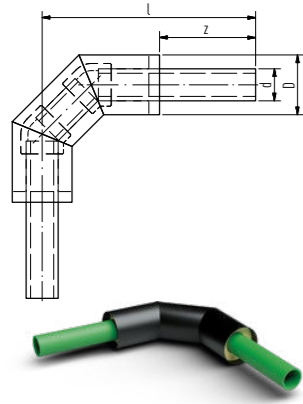
for aquatherm energy green SDR 9 MF RP, socket welding

with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | z | l | kg | PU |
|--------------|-------------------------|-------------------------|-------|-----|--------|----|
| 1383032001 | 32 | 90.0 | 225.0 | 500 | 1.114 | 1 |
| 1383040002 | 40 | 110.0 | 225.0 | 500 | 1.516 | 1 |
| 1383050003 | 50 | 110.0 | 225.0 | 500 | 0.131 | 1 |
| 1383063004 | 63 | 125.0 | 225.0 | 500 | 2.485 | 1 |
| 1383075005 | 75 | 140.0 | 225.0 | 500 | 3.273 | 1 |
| 1383090006 | 90 | 160.0 | 225.0 | 500 | 4.434 | 1 |
| 1383110007 | 110 | 200.0 | 225.0 | 500 | 6.504 | 1 |
| 1383125008 | 125 | 225.0 | 225.0 | 500 | 8.407 | 1 |
| 1383160009 * | 160 | 250.0 | 225.0 | 500 | 11.573 | 1 |

*butt welding
also available in design 15° and 30°.





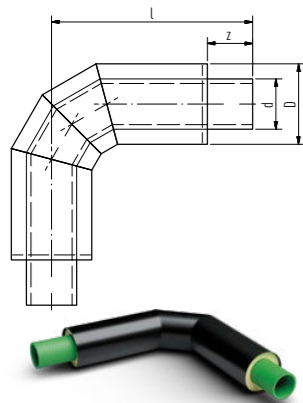
aquatherm energy elbow 90° SL 500

for aquatherm energy green SDR 9 MF RP, socket welding

with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | z | l | kg | PU |
|-------------|-------------------------|-------------------------|-------|-----|-------|----|
| 1383032040 | 32 | 90.0 | 225.0 | 500 | 1.120 | 1 |
| 1383040041 | 40 | 110.0 | 225.0 | 500 | 1.433 | 1 |
| 1383050042 | 50 | 110.0 | 225.0 | 500 | 1.812 | 1 |
| 1383063043 | 63 | 125.0 | 225.0 | 500 | 2.513 | 1 |
| 1383075044 | 75 | 140.0 | 225.0 | 500 | 3.294 | 1 |

also available in design 60° and 75°



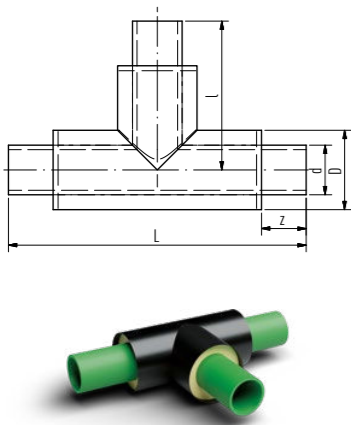
aquatherm energy elbow 90° SL 1000

for aquatherm energy green SDR 9 MF RP, socket welding

with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | z | l | kg | PU |
|--------------|-------------------------|-------------------------|-------|------|--------|----|
| 1383032020 | 32 | 90.0 | 225.0 | 1000 | 2.582 | 1 |
| 1383040021 | 40 | 110.0 | 225.0 | 1000 | 3.770 | 1 |
| 1383050022 | 50 | 110.0 | 225.0 | 1000 | 4.293 | 1 |
| 1383063023 | 63 | 125.0 | 225.0 | 1000 | 6.000 | 1 |
| 1383075024 | 75 | 140.0 | 225.0 | 1000 | 7.341 | 1 |
| 1383090025 | 90 | 160.0 | 225.0 | 1000 | 8.988 | 1 |
| 1383110026 | 110 | 200.0 | 225.0 | 1000 | 14.523 | 1 |
| 1383125027 | 125 | 225.0 | 225.0 | 1000 | 18.239 | 1 |
| 1383160028 * | 160 | 250.0 | 225.0 | 1000 | 24.112 | 1 |

*butt welding
also available in design 60° and 75°



aquatherm energy branch

for aquatherm energy green SDR 9 MF RP, socket welding

with PUR rigid foam and coated with a casing pipe made of PEHD

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | z | l | L | kg | PU |
|--------------|-------------------------|-------------------------|-------|-----|---------|-------|----|
| 1363032001 | 32 | 90.0 | 225.0 | 500 | 1,000.0 | 1.633 | 1 |
| 1363040002 | 40 | 110.0 | 225.0 | 500 | 1,000.0 | 2.243 | 1 |
| 1363050003 | 50 | 110.0 | 225.0 | 500 | 1,000.0 | 2.500 | 1 |
| 1363063004 | 63 | 125.0 | 225.0 | 500 | 1,000.0 | 3.500 | 1 |
| 1363075005 | 75 | 140.0 | 225.0 | 500 | 1,000.0 | 4.712 | 1 |
| 1363090006 | 90 | 160.0 | 225.0 | 500 | 1,000.0 | 6.440 | 1 |
| 1363110007 | 110 | 200.0 | 225.0 | 500 | 1,000.0 | 9.323 | 1 |
| 1363125008 | 125 | 225.0 | 225.0 | 500 | 1,000.0 | 0.012 | 1 |
| 1363160009 * | 160 | 250.0 | 225.0 | 500 | 1,000.0 | 0.016 | 1 |

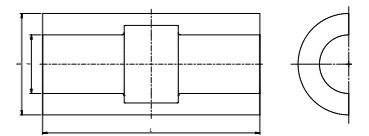
*butt welding

aquatherm energy half shells

straight

with PUR-rigid foam insulation and PE casing pipe

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | Ø inside half shell d | Ø outside half shell D | l | PU |
|-------------|-------------------------|-------------------------|-----------------------|------------------------|-------|----|
| 2370032001 | 32 | 90 | 35 | 90 | 474 | 1 |
| 2370040001 | 40 | 110 | 43 | 110 | 476,5 | 1 |
| 2370050001 | 50 | 110 | 53 | 110 | 476,5 | 1 |
| 2370063001 | 63 | 125 | 66 | 125 | 476,5 | 1 |
| 2370075001 | 75 | 140 | 79 | 140 | 476,5 | 1 |
| 2370090001 | 90 | 160 | 94 | 160 | 476,5 | 1 |
| 2370110001 | 110 | 200 | 115 | 200 | 478 | 1 |
| 2370125001 | 125 | 225 | 130 | 225 | 482 | 1 |
| 2370160001 | 160 | 250 | 165 | 250 | 455 | 1 |
| 2370200001 | 200 | 315 | 205 | 315 | 455 | 1 |
| 2370250001 | 250 | 400 | 256 | 400 | 455 | 1 |
| 2370315001 | 315 | 450 | 320 | 450 | 455 | 1 |

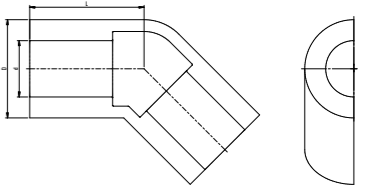


aquatherm energy half shells

45° elbow

with PUR-rigid foam insulation and PE casing pipe

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | Ø inside half shell d | Ø outside half shell D | l | PU |
|-------------|-------------------------|-------------------------|-----------------------|------------------------|-------|----|
| 2380032002 | 32 | 90 | 35 | 90 | 242,5 | 1 |
| 2380040002 | 40 | 110 | 43 | 110 | 244,5 | 1 |
| 2380050002 | 50 | 110 | 53 | 110 | 246,5 | 1 |
| 2380063002 | 63 | 125 | 66 | 125 | 249 | 1 |
| 2380075002 | 75 | 140 | 79 | 140 | 251,5 | 1 |
| 2380090002 | 90 | 160 | 94 | 160 | 254,5 | 1 |
| 2380110002 | 110 | 200 | 114 | 200 | 258,5 | 1 |
| 2380125002 | 125 | 225 | 129 | 225 | 262 | 1 |
| 2380160002 | 160 | 250 | 165 | 250 | 330 | 1 |
| 2380200002 | 200 | 315 | 205 | 315 | 381 | 1 |
| 2380250002 | 250 | 400 | 256 | 400 | 417 | 1 |

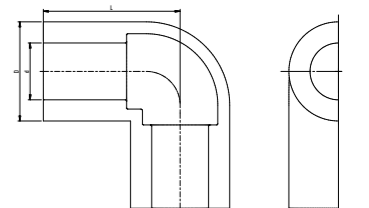


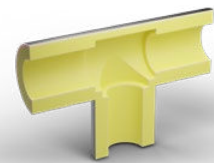
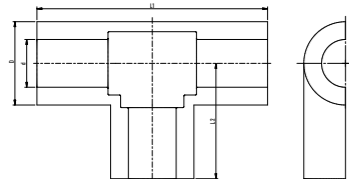
aquatherm energy half shells

90° elbow

with PUR-rigid foam insulation and PE casing pipe

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | Ø inside half shell d | Ø outside half shell D | l | PU |
|-------------|-------------------------|-------------------------|-----------------------|------------------------|-------|----|
| 2380032001 | 32 | 90 | 35 | 90 | 252 | 1 |
| 2380040001 | 40 | 110 | 43 | 110 | 256 | 1 |
| 2380050001 | 50 | 110 | 53 | 110 | 261 | 1 |
| 2380063001 | 63 | 125 | 66 | 125 | 267,5 | 1 |
| 2380075001 | 75 | 140 | 79 | 140 | 273,5 | 1 |
| 2380090001 | 90 | 160 | 94 | 160 | 281 | 1 |
| 2380110001 | 110 | 200 | 114 | 200 | 291 | 1 |
| 2380125001 | 125 | 225 | 129 | 225 | 310,5 | 1 |
| 2380160001 | 160 | 250 | 165 | 250 | 380 | 1 |
| 2380200001 | 200 | 315 | 205 | 315 | 444 | 1 |
| 2380250001 | 250 | 400 | 256 | 400 | 475 | 1 |



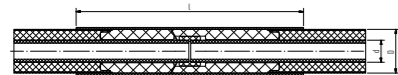


aquatherm energy half shells

with PUR-rigid foam insulation and PE casing pipe

T piece

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | Ø inside half shell d | Ø outside half shell D | l | PU | LE |
|-------------|-------------------------|-------------------------|-----------------------|------------------------|-----|-------|----|
| 2360032010 | 32 | 90 | 35 | 90 | 504 | 252 | 1 |
| 2360040010 | 40 | 110 | 43 | 110 | 511 | 255,5 | 1 |
| 2360050010 | 50 | 110 | 53 | 110 | 522 | 261 | 1 |
| 2360063010 | 63 | 125 | 66 | 125 | 535 | 267,5 | 1 |
| 2360075010 | 75 | 140 | 79 | 140 | 547 | 273,5 | 1 |
| 2360090010 | 90 | 160 | 94 | 160 | 562 | 281 | 1 |
| 2360110010 | 110 | 200 | 114 | 200 | 582 | 291 | 1 |
| 2360125010 | 125 | 225 | 129 | 225 | 623 | 311,5 | 1 |
| 2360160010 | 160 | 250 | 165 | 250 | 760 | 380 | 1 |
| 2360200010 | 200 | 315 | 205 | 315 | 880 | 440 | 1 |
| 2360250010 | 250 | 400 | 256 | 400 | 956 | 478 | 1 |



aquatherm energy socket WTD

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | l | PU |
|--|-------------------------|-------------------------|-----|----|
| socket welding: the fitting for the connection of the medium pipes is included in delivery | | | | |
| 1390032022 | 32 | 90.0 | 600 | 1 |
| 1390040024 | 40 | 110.0 | 600 | 1 |
| 1390050026 | 50 | 110.0 | 600 | 1 |
| 1390063028 | 63 | 125.0 | 600 | 1 |
| 1390075030 | 75 | 140.0 | 600 | 1 |
| 1390090032 | 90 | 160.0 | 600 | 1 |
| 1390110034 | 110 | 200.0 | 600 | 1 |
| 1390125036 | 125 | 225.0 | 600 | 1 |
| butt welding: no fitting is required for the connection of the medium pipes | | | | |
| 1390160038 | 160 | 250.0 | 600 | 1 |
| 1390200040 | 200 | 315.0 | 600 | 1 |
| 1390250042 | 250 | 400.0 | 600 | 1 |
| 1390315044 | 315 | 450.0 | 600 | 1 |
| 1390355045 | 355 | 500.0 | 600 | 1 |

Consists of shrink sleeve with PUR-rigid foam insulation elements and accessories, 750 mm total lengths. With hot-melt adhesive. Melting adhesive strips and casing melting film (enclosed) have to be applied in a separate step.

aquatherm energy electrofusion socket energy WTD

socket welding

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | l | PU |
|-------------|-------------------------|-------------------------|-----|----|
| 1390032046 | 32 | 90.0 | 600 | 1 |
| 1390040047 | 40 | 110.0 | 600 | 1 |
| 1390050048 | 50 | 110.0 | 600 | 1 |
| 1390063049 | 63 | 125.0 | 600 | 1 |
| 1390075050 | 75 | 140.0 | 600 | 1 |
| 1390090051 | 90 | 160.0 | 600 | 1 |
| 1390110052 | 110 | 200.0 | 600 | 1 |
| 1390125053 | 125 | 225.0 | 600 | 1 |
| 1390160054 | 160 | 250.0 | 600 | 1 |
| 1390200055 | 200 | 315.0 | 600 | 1 |
| 1390250056 | 250 | 400.0 | 600 | 1 |

Consists of shrink sleeve with PUR-rigid foam insulation elements and accessories, 750 mm total lengths. With hot-melt adhesive. Melting adhesive strips and casing melting film (enclosed) have to be applied in a separate step.

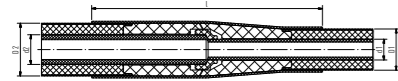


aquatherm energy insulation-socket-set

| Article no. | Ø outside medium pipe d | Ø outside casing pipe D | PU |
|--|-------------------------|-------------------------|----|
| socket welding: the fitting for the connection of the medium pipes is included in delivery | | | |
| 1340032114 | 32 | 90.0 | 1 |
| 1340040115 | 40 | 110.0 | 1 |
| 1340050116 | 50 | 110.0 | 1 |
| 1340063117 | 63 | 125.0 | 1 |
| 1340075118 | 75 | 140.0 | 1 |
| 1340090119 | 90 | 160.0 | 1 |
| 1340110120 | 110 | 200.0 | 1 |
| 1340125121 | 125 | 225.0 | 1 |
| butt welding: no fitting is required for the connection of the medium pipes | | | |
| 1340160122 | 160 | 250.0 | 1 |
| 1340200123 | 200 | 315.0 | 1 |
| 1340250124 | 250 | 400.0 | 1 |
| 1340315125 | 315 | 450.0 | 1 |
| 1347355126 | 355 | 500.0 | 1 |

Consists of PUR-rigid foam elements and a fitting (socket up to 125 mm) depending on the dimension. Required accessories for the installation: Mono Top 40 insulating tape and primer.



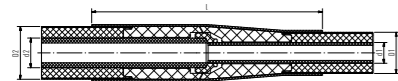


aquatherm energy reducing socket

socket welding

| Article no. | Ø outside d2 | Ø outside d1 | Ø outside D1 | Ø outside D2 | l | PU |
|--|--------------|--------------|--------------|--------------|-----|----|
| socket welding: up to 125 x 110mm. Larger sizes are socket weld one side, butt weld one side | | | | | | |
| 1340040103 | 40.0 | 32.0 | 90 | 110 | 900 | 1 |
| 1340050104 | 50.0 | 32.0 | 90 | 110 | 900 | 1 |
| 1340050105 | 50.0 | 40.0 | 110 | 110 | 900 | 1 |
| 1340063106 | 63.0 | 40.0 | 110 | 125 | 900 | 1 |
| 1340063107 | 63.0 | 50.0 | 110 | 125 | 900 | 1 |
| 1340075108 | 75.0 | 50.0 | 110 | 140 | 900 | 1 |
| 1340075109 | 75.0 | 63.0 | 125 | 140 | 900 | 1 |
| 1340090110 | 90.0 | 63.0 | 125 | 160 | 900 | 1 |
| 1340090111 | 90.0 | 75.0 | 140 | 160 | 900 | 1 |
| 1340110112 | 110.0 | 75.0 | 140 | 200 | 900 | 1 |
| 1340110113 | 110.0 | 90.0 | 160 | 200 | 900 | 1 |
| 1390125020 | 125.0 | 90.0 | 160 | 225 | 900 | 1 |
| 1390125021 | 125.0 | 110.0 | 200 | 225 | 900 | 1 |

Consists of shrink sleeve with PUR-rigid foam insulation elements, fitting depending on dimension and accessories, 900 mm total lengths.

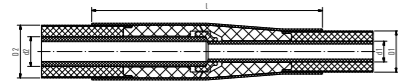


aquatherm energy reducing socket

for aquatherm energy green SDR 9

| Article no. | Ø outside d2 | Ø outside d1 | Ø outside D1 | Ø outside D2 | l | PU |
|-----------------------|--------------|--------------|--------------|--------------|-----|----|
| mutual socket welding | | | | | | |
| 2340160001 | 160.0 | 110.0 | 200 | 250 | 900 | 1 |
| 2340160003 | 160.0 | 125.0 | 225 | 250 | 900 | 1 |
| 2340200005 | 200.0 | 125.0 | 225 | 315 | 900 | 1 |

Consists of shrink sleeve with PUR-rigid foam insulation elements, fitting depending on dimension and accessories, 900 mm total lengths.



aquatherm energy reducing socket

for aquatherm energy blue SDR 11

| Article no. | Ø outside d2 | Ø outside d1 | Ø outside D1 | Ø outside D2 | l | PU |
|---------------------------|--------------|--------------|--------------|--------------|-----|----|
| mutual socket welding | | | | | | |
| 2340160020 | 160.0 | 110.0 | 200 | 250 | 900 | 1 |
| 2340160021 | 160.0 | 125.0 | 225 | 250 | 900 | 1 |
| 2340200022 | 200.0 | 125.0 | 225 | 315 | 900 | 1 |
| double-sided butt welding | | | | | | |
| 2340200023 | 200.0 | 160.0 | 250 | 315 | 900 | 1 |
| 2340250024 | 250.0 | 160.0 | 250 | 400 | 900 | 1 |
| 2340250025 | 250.0 | 200.0 | 315 | 400 | 900 | 1 |
| 2340315026 | 315.0 | 200.0 | 315 | 450 | 900 | 1 |
| 2340315027 | 315.0 | 250.0 | 400 | 450 | 900 | 1 |

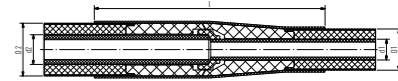
Consists of shrink sleeve with PUR-rigid foam insulation elements, fitting depending on dimension and accessories, 900 mm total lengths.

aquatherm energy reducing socket

for aquatherm energy blue SDR 17.6

| Article no. | Ø outside d2 | Ø outside d1 | Ø outside D1 | Ø outside D2 | l | PU |
|---------------------------|--------------|--------------|--------------|--------------|-----|----|
| 2347160060 | 160.0 | 110.0 | 200 | 250 | 900 | 1 |
| 2347160062 | 160.0 | 125.0 | 225 | 250 | 900 | 1 |
| 2347200064 | 200.0 | 125.0 | 225 | 315 | 900 | 1 |
| 2347200066 | 200.0 | 160.0 | 250 | 315 | 900 | 1 |
| double-sided butt welding | | | | | | |
| 2347250068 | 250.0 | 160.0 | 250 | 400 | 900 | 1 |
| 2347250070 | 250.0 | 200.0 | 315 | 400 | 900 | 1 |
| 2347315072 | 315.0 | 200.0 | 315 | 450 | 900 | 1 |
| 2347315074 | 315.0 | 250.0 | 400 | 450 | 900 | 1 |

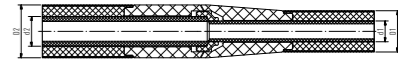
Consists of shrink sleeve with PUR-rigid foam insulation elements, fitting depending on dimension and accessories, 900 mm total lengths.



aquatherm energy insulation-reducing socket-set

| Article no. | Ø outside d2 | Ø outside d1 | Ø outside D1 | Ø outside D2 | PU |
|--|--------------|--------------|--------------|--------------|----|
| socket welding: up to 125 x 110mm. Larger sizes are socket weld one side, butt weld one side | | | | | |
| 2340040030 | 40.0 | 32.0 | 90 | 110 | 1 |
| 2340050031 | 50.0 | 32.0 | 90 | 110 | 1 |
| 2340050032 | 50.0 | 40.0 | 110 | 110 | 1 |
| 2340063033 | 63.0 | 40.0 | 110 | 125 | 1 |
| 2340063034 | 63.0 | 50.0 | 110 | 125 | 1 |
| 2340075035 | 75.0 | 50.0 | 110 | 140 | 1 |
| 2340075036 | 75.0 | 63.0 | 125 | 140 | 1 |
| 2340090037 | 90.0 | 63.0 | 125 | 160 | 1 |
| 2340090038 | 90.0 | 75.0 | 140 | 160 | 1 |
| 2340110039 | 110.0 | 75.0 | 140 | 200 | 1 |
| 2340110040 | 110.0 | 90.0 | 160 | 200 | 1 |
| 2340125041 | 125.0 | 90.0 | 160 | 225 | 1 |
| 2340125042 | 125.0 | 110.0 | 200 | 225 | 1 |

Consists of PUR-rigid foam elements and fitting. Required accessories: Mono Top 40 insulating tape and primer.

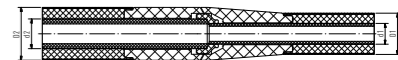


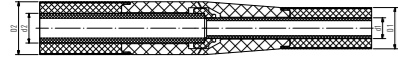
aquatherm energy insulation-reducing socket-set

for aquatherm energy blue SDR 11

| Article no. | Ø outside d2 | Ø outside d1 | Ø outside D1 | Ø outside D2 | PU |
|---------------------------|--------------|--------------|--------------|--------------|----|
| 2344160050 | 160.0 | 110.0 | 200 | 250 | 1 |
| 2344160051 | 160.0 | 125.0 | 225 | 250 | 1 |
| 2344200052 | 200.0 | 125.0 | 225 | 315 | 1 |
| double-sided butt welding | | | | | |
| 2344200053 | 200.0 | 160.0 | 250 | 315 | 1 |
| 2344250054 | 250.0 | 160.0 | 250 | 400 | 1 |
| 2344250055 | 250.0 | 200.0 | 315 | 400 | 1 |
| 2344315056 | 315.0 | 200.0 | 315 | 450 | 1 |
| 2344315057 | 315.0 | 250.0 | 400 | 450 | 1 |
| 2344355058 | 355.0 | 250.0 | 400 | 500 | 1 |
| 2344355059 | 355.0 | 315.0 | 450 | 500 | 1 |

Consists of PUR-rigid foam elements and fitting. Required accessories: Mono Top 40 insulating tape and primer.





aquatherm energy insulation-reducing socket-set

for aquatherm energy blue SDR 17.6

| Article no. | Ø outside d2 | Ø outside d1 | Ø outside D1 | Ø outside D2 | PU |
|---------------------------|--------------|--------------|--------------|--------------|----|
| 2347160061 | 160.0 | 110.0 | 200 | 250 | 1 |
| 2347160063 | 160.0 | 125.0 | 225 | 250 | 1 |
| 2347200065 | 200.0 | 125.0 | 225 | 315 | 1 |
| 2347200067 | 200.0 | 160.0 | 250 | 315 | 1 |
| double-sided butt welding | | | | | |
| 2347250069 | 250.0 | 160.0 | 250 | 400 | 1 |
| 2347250071 | 250.0 | 200.0 | 315 | 400 | 1 |
| 2347315073 | 315.0 | 200.0 | 315 | 450 | 1 |
| 2347315075 | 315.0 | 250.0 | 400 | 450 | 1 |
| 2347355077 | 355.0 | 250.0 | 400 | 500 | 1 |
| 2347355079 | 355.0 | 315.0 | 450 | 500 | 1 |

Consists of PUR-rigid foam elements and fitting. Required accessories: Mono Top 40 insulating tape and primer.

aquatherm energy mono top 40 insulation tape

for post-insulation of connections with the aquatherm insulation-socket set

| Article no. | length | PU |
|-------------|--------------------------------|----|
| 9702411000 | energy width 50 mm length 15m | 1 |
| 9702411001 | energy width 100 mm length 15m | 1 |

aquatherm energy primer

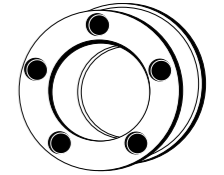
| Article no. | Quantity | PU |
|-------------|---------------|----|
| 9702411002 | energy can 1l | 1 |



aquatherm energy closing collar

Collar for closing the PUR-insulating layer from casing pipe to medium

| Article no. | Quantity | PU |
|-------------|-------------------------------------|----|
| 2390032001 | Closing collar 32 mm MR90 | 1 |
| 2390050002 | Closing collar 40-50 mm MR110 | 1 |
| 2390075003 | Closing collar 63-75 mm MR125-140 | 1 |
| 2390090004 | Closing collar 90 mm MR160 | 1 |
| 2390110005 | Closing collar 110 mm MR200 | 1 |
| 2390125006 | Closing collar 125 mm MR225 | 1 |
| 2390160007 | Closing collar 160 mm MR250 | 1 |
| 2390200008 | Closing collar 200 mm MR315 | 1 |
| 2390250009 | Closing collar 250 mm MR400 | 1 |
| 2390315010 | Closing collar 315/355 mm MR450/500 | 1 |



aquatherm energy compact seals

Pipe collar for wall duct

| Article no. | Ø core drill hole | Ø outside medium pipe | Ø outside casing pipe | PU |
|-------------|-------------------|-----------------------|-----------------------|----|
| 9701214212 | 150 | 32 | 90 | 1 |
| 9701214214 | 200 | 50 | 110 | 1 |
| 9701214218 | 200 | 63 | 125 | 1 |
| 9701214220 | 200 | 75 | 140 | 1 |
| 9701214222 | 250 | 90 | 160 | 1 |
| 9701214224 | 300 | 110 | 200 | 1 |
| 9701214226 | 350 | 125 | 225 | 1 |
| 9701214230 | 350 | 160 | 250 | 1 |
| 9701214234 | 400 | 200 | 315 | 1 |
| 9701214238 | 500 | 250 | 400 | 1 |
| 9701214242 | 550 | 315 | 450 | 1 |
| 9701214244 | 600 | 355 | 500 | 1 |

aquatherm energy warning tape

Colour: yellow / printing in black: "Attention district heating pipeline"

| Article no. | Description | PU |
|-------------|--------------|----|
| 9700050191 | warning tape | 1 |

aquatherm energy adhesive

| Article no. | Amount | PU |
|-------------|----------------------|----|
| 9700000004 | 1 Cartridge (290 ml) | 1 |

aquatherm energy shrink tape


| Article no. | Width | length | PU |
|-------------|--------|--------|----|
| 9702411002 | 100 mm | 10m | 1 |

aquatherm red

Pipe system made of polypropylene

aquatherm red is the first plastic sprinkler pipe system certified by VDS Schadenverhütung GmbH, Europe's largest institute for company safety.

The material used, fusiolen® PP-R FS, was developed for the special requirements of sprinkler systems. aquatherm red offers a high level of safety due to its flame retardant properties and its corrosion resistance. The welding of pipe and fitting also ensures a tight connection.

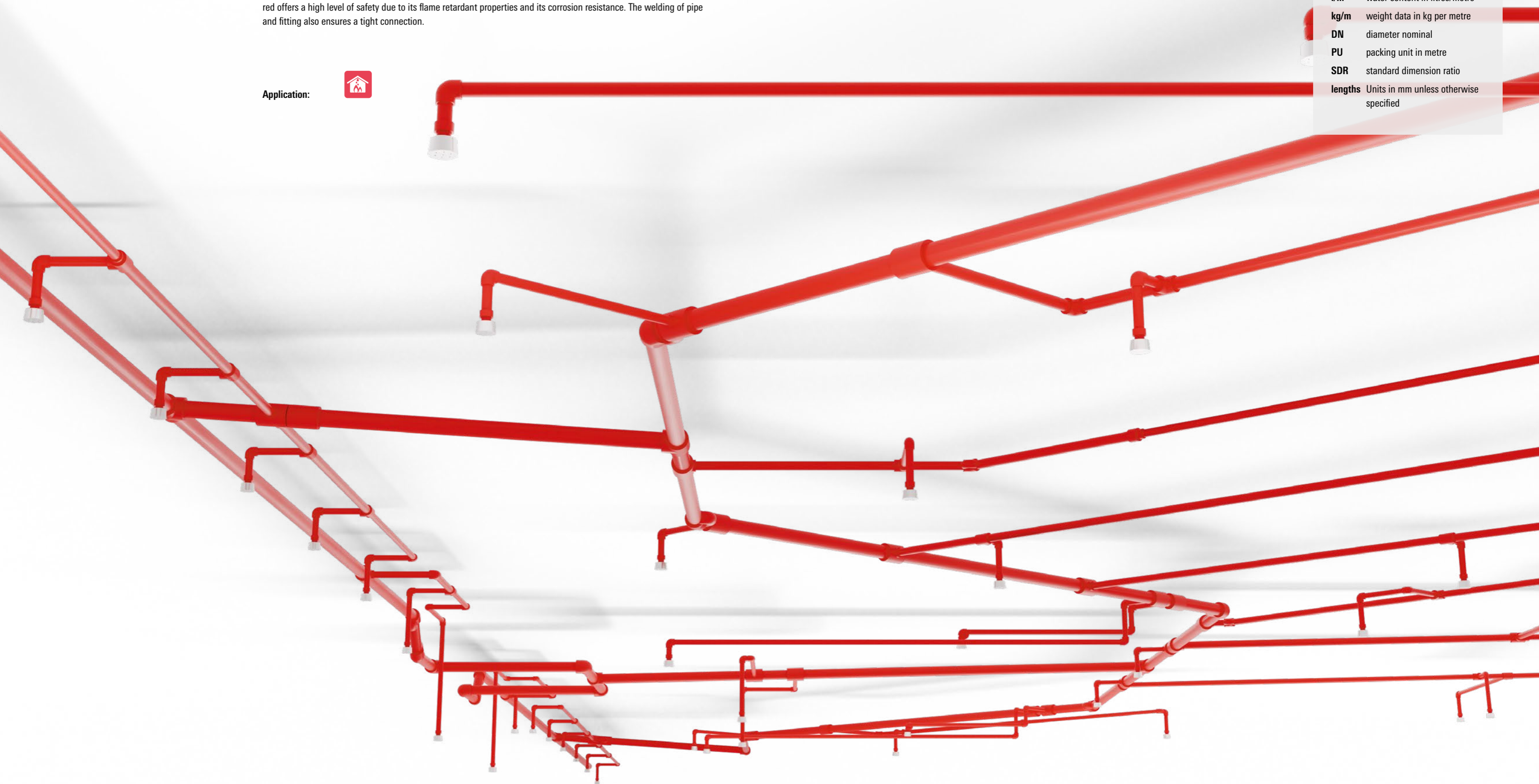
Application: 

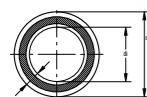
For sprinkler application

| | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|
| | 25 | 32 | 40 | 50 | 63 | 75 | 90 | 110 | 125 |
| SDR 7.4 HI |  |  |  |  |  |  |  |  |  |

Legend table abbreviations:

- d** diameter in mm
- D** diameter in mm
- s** wall thickness in mm
- di** internal diameter in mm
- l/m** water content in litres/metre
- kg/m** weight data in kg per metre
- DN** diameter nominal
- PU** packing unit in metre
- SDR** standard dimension ratio
- lengths** Units in mm unless otherwise specified



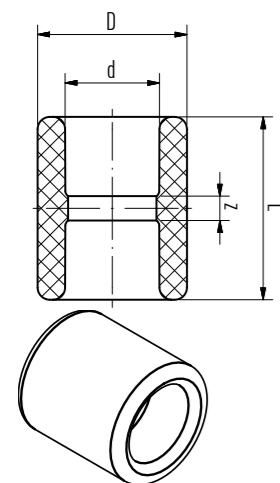


aquatherm red SDR 7.4 MF HI

socket welding — SDR 7.4

Material: fusiolen® PP-R FS
 Pipe series: 7.4
 Colour: red with green stripes
 Packing unit: 5.8 m straight lengths

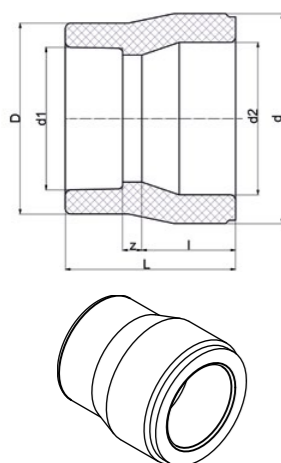
| Article no. | Dimension | d [mm] | s [mm] | di [mm] | V/m | kg/m | DN | PU [m] |
|-------------|---------------|--------|--------|---------|-------|-------|----|--------|
| 3012025008 | 25 x 3.5 mm | 25 | 3.5 | 18.0 | 0.254 | 0.249 | 15 | 116 |
| 3012032010 | 32 x 4.4 mm | 32 | 4.4 | 23.2 | 0.423 | 0.400 | 20 | 58 |
| 3012040012 | 40 x 5.5 mm | 40 | 5.5 | 29.0 | 0.660 | 0.621 | 25 | 58 |
| 3012050014 | 50 x 6.9 mm | 50 | 6.9 | 36.2 | 1.029 | 0.968 | 32 | 29 |
| 3012063016 | 63 x 8.6 mm | 63 | 8.6 | 45.8 | 1.647 | 1.521 | 40 | 17.4 |
| 3012075018 | 75 x 10.3 mm | 75 | 10.3 | 54.4 | 2.323 | 2.165 | 50 | 17.4 |
| 3012090020 | 90 x 12.3 mm | 90 | 12.3 | 65.4 | 3.358 | 3.101 | 65 | 11.6 |
| 3012110022 | 110 x 15.1 mm | 110 | 15.1 | 79.8 | 4.999 | 4.642 | 80 | 5.8 |
| 3012125024 | 125 x 17.1 mm | 125 | 17.1 | 90.8 | 6.472 | 5.974 | 90 | 5.8 |



aquatherm red socket / B1

socket welding

| Article no. | d | D | L | z | kg | PU |
|-------------|-----|-------|------|------|-------|----|
| 3040025020 | 25 | 34.0 | 35.0 | 3.0 | 0.014 | 10 |
| 3040032021 | 32 | 43.0 | 40.5 | 4.5 | 0.027 | 5 |
| 3040040022 | 40 | 52.0 | 47.5 | 6.5 | 0.044 | 5 |
| 3040050023 | 50 | 68.0 | 53.0 | 6.0 | 0.086 | 5 |
| 3040063024 | 63 | 84.0 | 60.5 | 5.5 | 0.145 | 1 |
| 3040075025 | 75 | 100.0 | 66.5 | 6.5 | 0.233 | 1 |
| 3040090026 | 90 | 120.0 | 72.5 | 6.5 | 0.353 | 1 |
| 3040110027 | 110 | 147.0 | 82.0 | 8.0 | 0.606 | 1 |
| 3040125028 | 125 | 167.0 | 92.0 | 12.0 | 0.819 | 1 |



aquatherm red reducer / B1

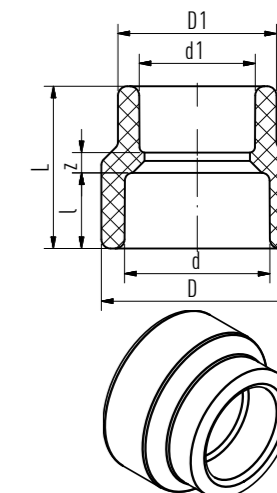
socket welding — SDR 7.4

| Article no. | d | d1 | l | D | L | z | kg | PU |
|-------------|-----|-------|------|-------|-------|------|-------|----|
| 3040032030 | 32 | 25.0 | 18 | 34.0 | 38.0 | 4.0 | 0.016 | 5 |
| 3040040031 | 40 | 32.0 | 20.5 | 43.0 | 50.0 | 11.5 | 0.033 | 5 |
| 3040050032 | 50 | 32.0 | 23.5 | 43.0 | 54.0 | 12.5 | 0.054 | 5 |
| 3040050033 | 50 | 40.0 | 23.5 | 52.0 | 53.0 | 9.0 | 0.059 | 5 |
| 3040063034 | 63 | 50.0 | 27.5 | 68.0 | 63.5 | 12.5 | 0.122 | 1 |
| 3040075035 | 75 | 50.0 | 30 | 68.0 | 63.0 | 9.5 | 0.143 | 1 |
| 3040075036 | 75 | 63.0 | 30 | 84.0 | 71.0 | 13.5 | 0.173 | 1 |
| 3040090037 | 90 | 63.0 | 33 | 84.0 | 78.0 | 17.5 | 0.232 | 1 |
| 3040090038 | 90 | 75.0 | 33 | 100.0 | 81.5 | 18.5 | 0.281 | 1 |
| 3040110039 | 110 | 63.0 | 37 | 84.0 | 86.0 | 21.5 | 0.363 | 1 |
| 3040110040 | 110 | 90.0 | 37 | 120.0 | 99.0 | 29.0 | 0.564 | 1 |
| 3040125041 | 125 | 90.0 | 40 | 120.0 | 99.0 | 26.0 | 0.831 | 1 |
| 3040125042 | 125 | 110.0 | 40 | 147.0 | 112.0 | 35.0 | 0.811 | 1 |

aquatherm red reducing socket / B1 / female/female

socket welding

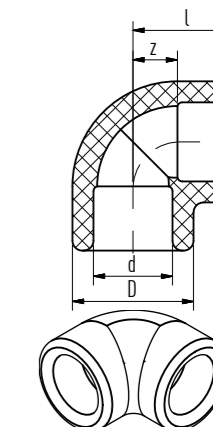
| Article no. | d | d1 | l | D | D1 | L | z | kg | PU |
|-------------|----|------|------|-------|-----|------|-----|-------|----|
| 3040063005 | 63 | 50.0 | 27.5 | 84.0 | 68 | 56.0 | 5.0 | 0.126 | 1 |
| 3040075006 | 75 | 63.0 | 30 | 100.0 | 84 | 62.5 | 5.0 | 0.191 | 1 |
| 3040090007 | 90 | 75.0 | 33 | 120.0 | 100 | 69.0 | 6.0 | 0.297 | 1 |



aquatherm red elbow 90° / B1

socket welding — SDR 7.4

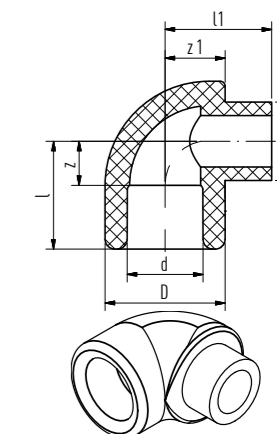
| Article no. | d | l | D | z | kg | PU |
|-------------|-----|-------|-------|------|-------|----|
| 3080025001 | 25 | 29.5 | 34.0 | 13.5 | 0.023 | 10 |
| 3080032002 | 32 | 35 | 43.0 | 17.0 | 0.043 | 5 |
| 3080040003 | 40 | 41.5 | 52.0 | 21.0 | 0.071 | 5 |
| 3080050004 | 50 | 49.5 | 68.0 | 26.0 | 0.158 | 5 |
| 3080063005 | 63 | 60 | 84.0 | 32.5 | 0.276 | 1 |
| 3080075006 | 75 | 68.5 | 100.0 | 38.5 | 0.446 | 1 |
| 3080090007 | 90 | 79 | 120.0 | 46.0 | 0.798 | 1 |
| 3080110008 | 110 | 93 | 147.0 | 56.0 | 1.323 | 1 |
| 3080125009 | 125 | 116.5 | 167.0 | 76.5 | 2.026 | 1 |

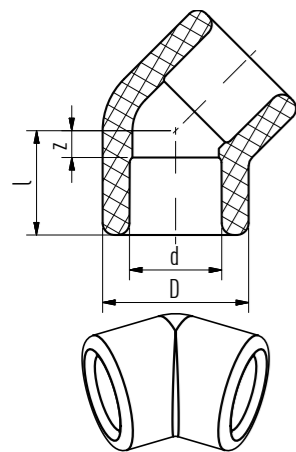


aquatherm red elbow 90° / B1 / female/male

socket welding

| Article no. | d | l | l1 | D | z | z1 | kg | PU |
|-------------|----|------|------|------|------|------|-------|----|
| 3080032010 | 32 | 35 | 39.0 | 43.0 | 17.0 | 21.5 | 0.049 | 5 |
| 3080040011 | 40 | 41.5 | 45.5 | 52.0 | 21.0 | 26 | 0.081 | 5 |

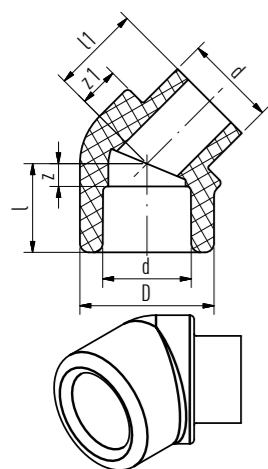




aquatherm red elbow 45° / B1

socket welding — SDR 7.4

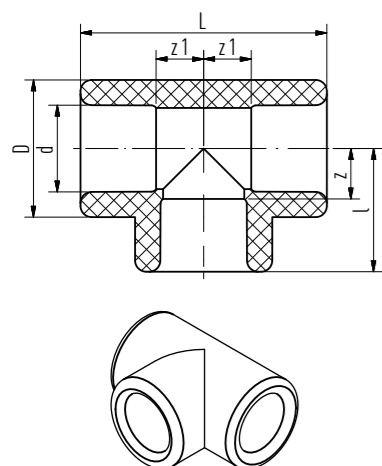
| Article no. | d | l | D | z | kg | PU |
|-------------|-----|------|-------|------|-------|----|
| 3080025020 | 25 | 22 | 34.0 | 6.0 | 0.019 | 10 |
| 3080032021 | 32 | 25.5 | 43.0 | 7.5 | 0.035 | 5 |
| 3080040022 | 40 | 30 | 52.0 | 9.5 | 0.057 | 5 |
| 3080050023 | 50 | 35 | 68.0 | 11.5 | 0.112 | 5 |
| 3080063024 | 63 | 41.5 | 84.0 | 14.0 | 0.233 | 1 |
| 3080075025 | 75 | 46.5 | 100.0 | 16.5 | 0.353 | 1 |
| 3080090026 | 90 | 52.5 | 120.0 | 19.5 | 0.571 | 1 |
| 3080110027 | 110 | 60.5 | 147.0 | 23.5 | 0.993 | 1 |
| 3080125028 | 125 | 67 | 167.0 | 27.0 | 1.281 | 1 |



aquatherm red elbow 45° / B1 / female/male

socket welding

| Article no. | d | l | l1 | D | z | z1 | kg | PU |
|-------------|----|------|------|------|-----|------|-------|----|
| 3080032029 | 32 | 25.5 | 28.5 | 43.0 | 7.5 | 11.5 | 0.036 | 5 |
| 3080040030 | 40 | 30 | 30.5 | 52.0 | 9.5 | 13.5 | 0.059 | 5 |



aquatherm red tee / B1

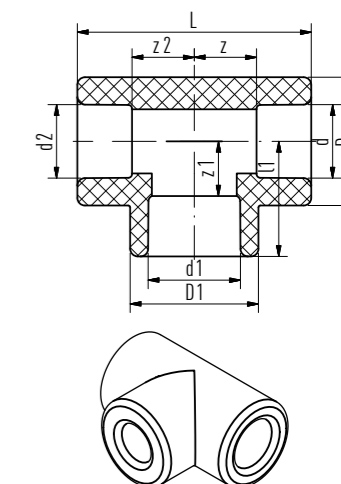
socket welding — SDR 7.4

| Article no. | d | l | D | L | z | z1 | kg | PU |
|-------------|-----|-------|-------|-------|------|------|-------|----|
| 3060025012 | 25 | 30.5 | 34.0 | 62.0 | 14.5 | 15 | 0.033 | 10 |
| 3060032013 | 32 | 33.5 | 43.0 | 70.0 | 15.5 | 17 | 0.053 | 5 |
| 3060040014 | 40 | 40.5 | 52.0 | 81.0 | 20.0 | 20 | 0.093 | 5 |
| 3060050004 | 50 | 49.5 | 68.0 | 99.0 | 26.0 | 26 | 0.200 | 5 |
| 3060063005 | 63 | 60 | 84.0 | 120.0 | 32.5 | 32.5 | 0.377 | 1 |
| 3060075006 | 75 | 68.5 | 100.0 | 137.0 | 38.5 | 38.5 | 0.537 | 1 |
| 3060090007 | 90 | 80 | 120.0 | 158.0 | 47.0 | 46 | 0.986 | 1 |
| 3060110008 | 110 | 93 | 147.0 | 186.0 | 56.0 | 56 | 1.632 | 1 |
| 3060125009 | 125 | 116.5 | 167.0 | 233.0 | 76.5 | 76.5 | 2.693 | 1 |

aquatherm red tee / B1

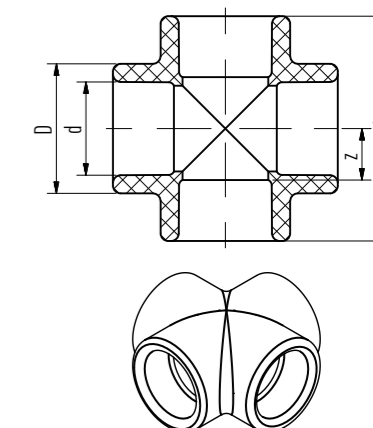
socket welding — SDR 7.4

| Article no. | d | d1 | d2 | l1 | D | D1 | L | z | z1 | z2 | kg | PU |
|-------------|-----|-------|-------|-------|-------|-----|-------|------|------|------|-------|----|
| 3060040010 | 40 | 32.0 | 40.0 | 40.5 | 52.0 | 52 | 84.0 | 21.5 | 22.5 | 21.5 | 0.106 | 5 |
| 3060050011 | 50 | 32.0 | 50.0 | 44.5 | 68.0 | 43 | 99.0 | 26.0 | 26.5 | 26.0 | 0.174 | 5 |
| 3060050012 | 50 | 40.0 | 50.0 | 49.5 | 68.0 | 68 | 99.0 | 26.0 | 29 | 26.0 | 0.221 | 5 |
| 3060063013 | 63 | 32.0 | 63.0 | 53.5 | 84.0 | 52 | 120.0 | 32.5 | 35.5 | 32.5 | 0.355 | 1 |
| 3060063014 | 63 | 40.0 | 63.0 | 53.5 | 84.0 | 52 | 120.0 | 32.5 | 33 | 32.5 | 0.341 | 1 |
| 3060063015 | 63 | 50.0 | 63.0 | 60.0 | 84.0 | 68 | 120.0 | 32.5 | 36.5 | 32.5 | 0.411 | 1 |
| 3060075016 | 75 | 40.0 | 75.0 | 59.0 | 100.0 | 52 | 137.0 | 38.5 | 38.5 | 38.5 | 0.494 | 1 |
| 3060075017 | 75 | 50.0 | 75.0 | 66.0 | 100.0 | 84 | 137.0 | 38.5 | 42.5 | 38.5 | 0.540 | 1 |
| 3060075018 | 75 | 63.0 | 75.0 | 66.0 | 100.0 | 84 | 137.0 | 38.5 | 38.5 | 38.5 | 0.507 | 1 |
| 3060090019 | 90 | 40.0 | 90.0 | 66.5 | 120.0 | 52 | 158.0 | 46.0 | 46 | 46.0 | 0.986 | 1 |
| 3060090020 | 90 | 50.0 | 90.0 | 69.5 | 120.0 | 68 | 158.0 | 46.0 | 46 | 46.0 | 0.976 | 1 |
| 3060090021 | 90 | 63.0 | 90.0 | 73.5 | 120.0 | 84 | 158.0 | 46.0 | 46 | 46.0 | 0.969 | 1 |
| 3060090022 | 90 | 75.0 | 90.0 | 76.0 | 120.0 | 100 | 158.0 | 46.0 | 46 | 46.0 | 0.997 | 1 |
| 3060110023 | 110 | 63.0 | 110.0 | 83.5 | 147.0 | 84 | 186.0 | 56.0 | 56 | 56.0 | 1.691 | 1 |
| 3060110024 | 110 | 75.0 | 110.0 | 86.0 | 147.0 | 100 | 186.0 | 56.0 | 56 | 56.0 | 1.634 | 1 |
| 3060110025 | 110 | 90.0 | 110.0 | 89.0 | 147.0 | 120 | 186.0 | 56.0 | 56 | 56.0 | 1.569 | 1 |
| 3060125026 | 125 | 75.0 | 125.0 | 106.5 | 167.0 | 100 | 233.0 | 76.5 | 76.5 | 76.5 | 2.475 | 1 |
| 3060125027 | 125 | 90.0 | 125.0 | 109.5 | 167.0 | 120 | 233.0 | 76.5 | 76.5 | 76.5 | 2.542 | 1 |
| 3060125028 | 125 | 110.0 | 125.0 | 113.5 | 167.0 | 147 | 233.0 | 76.5 | 76.5 | 76.5 | 2.606 | 1 |



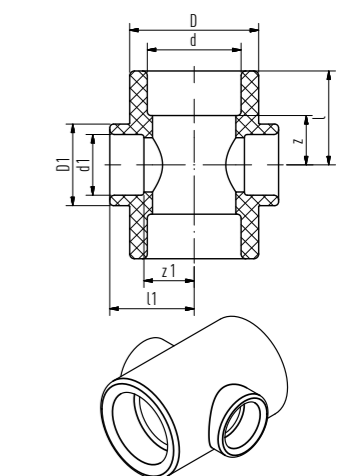
aquatherm red cross / B1

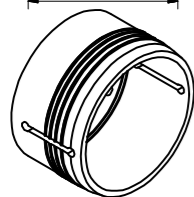
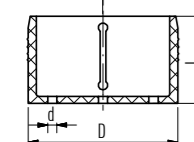
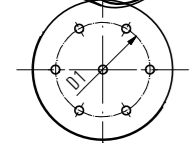
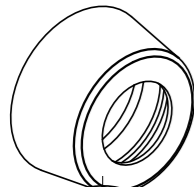
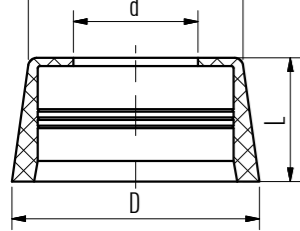
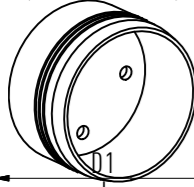
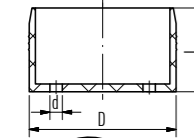
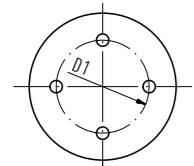
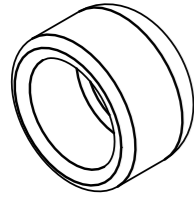
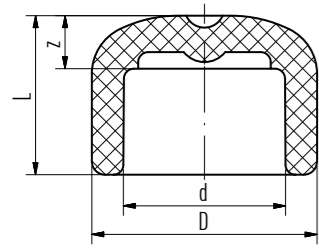
| Article no. | d | D | L | z | kg | PU |
|-------------|----|------|------|------|-------|----|
| 3040032000 | 32 | 43.0 | 70.0 | 17.0 | 0.064 | 5 |
| 3040040001 | 40 | 52.0 | 83.0 | 21.0 | 0.101 | 5 |



aquatherm red reducing tee / B1

| Article no. | d | d1 | l | l1 | D | D1 | z | z1 | kg | PU |
|-------------|----|------|------|------|-------|----|------|------|-------|----|
| 3040050010 | 50 | 32.0 | 49.5 | 44.5 | 68.0 | 43 | 26.0 | 26.5 | 0.180 | 1 |
| 3040063011 | 63 | 32.0 | 60 | 53.5 | 84.0 | 52 | 32.5 | 35.5 | 0.350 | 1 |
| 3040063012 | 63 | 40.0 | 60 | 53.5 | 84.0 | 52 | 32.5 | 33 | 0.328 | 1 |
| 3040075013 | 75 | 32.0 | 68.5 | 59.0 | 100.0 | 52 | 38.5 | 41 | 0.509 | 1 |
| 3040075014 | 75 | 40.0 | 68.5 | 59.0 | 100.0 | 52 | 38.5 | 38.5 | 0.499 | 1 |
| 3040075015 | 75 | 50.0 | 68.5 | 66.0 | 100.0 | 68 | 38.5 | 42.5 | 0.528 | 1 |
| 3040090016 | 90 | 50.0 | 68.5 | 75.0 | 120.0 | 68 | 35.5 | 51.5 | 0.762 | 1 |





aquatherm red end cap / B1

socket welding

| Article no. | d | D | L | z | kg | PU |
|-------------|-----|-------|------|------|-------|----|
| 3020032010 | 32 | 43.0 | 29.0 | 11.0 | 0.044 | 5 |
| 3020040012 | 40 | 52.0 | 38.0 | 17.5 | 0.042 | 5 |
| 3020050014 | 50 | 68.0 | 44.5 | 21.0 | 0.082 | 5 |
| 3020063016 | 63 | 84.0 | 52.0 | 24.5 | 0.153 | 1 |
| 3020075018 | 75 | 100.0 | 58.5 | 28.5 | 0.245 | 1 |
| 3020090020 | 90 | 120.0 | 67.5 | 34.5 | 0.377 | 1 |
| 3020110022 | 110 | 147.0 | 65.0 | 28.0 | 0.648 | 1 |
| 3020125024 | 125 | 167.0 | 82.0 | 42.0 | 0.872 | 1 |

aquatherm red base part for sprinkler outlet

for visible sprinkler

| Article no. | d | D | D1 | L | kg | PU |
|-------------|---|------|----|------|-------|----|
| 3090000001 | 4 | 47.4 | 30 | 27.0 | 0.013 | 25 |

aquatherm red upper part for sprinkler outlet

for visible sprinkler

| Article no. | Dimension | d | D | D1 | L | kg | PU |
|-------------|-----------|------|------|------|------|-------|----|
| 3090000002 | 1/2" | 23.2 | 60.0 | 51.4 | 30.5 | 0.022 | 25 |
| 3090000003 | 3/4" | 30.2 | 60.0 | 51.6 | 30.0 | 0.022 | 25 |
| 3090000004 | 1" | 35.2 | 60.0 | 51.6 | 30.0 | 0.021 | 25 |

aquatherm red base part for sprinkler outlet

for covered sprinkler

| Article no. | d | D | D1 | L | kg | PU |
|-------------|---|------|----|------|-------|----|
| 3090000005 | 4 | 65.0 | 44 | 38.0 | 0.034 | 25 |

aquatherm red upper part for sprinkler outlet

for covered sprinkler

| Article no. | Dimension | d | D | D1 | L | kg | PU |
|-------------|-----------|------|------|----|------|-------|----|
| 3090000006 | 1/2" | 23.2 | 70.0 | 78 | 43.0 | 0.057 | 25 |
| 3090000007 | 3/4" | 30.2 | 70.0 | 78 | 43.0 | 0.057 | 25 |
| 3090000008 | 1" | 35.2 | 70.0 | 78 | 43.0 | 0.056 | 25 |

aquatherm red plug for sprinkler outlet

| Article no. | R | d | L | z | SW | kg | PU |
|-------------|------|----|------|------|----|-------|----|
| 3050000010 | 1/2" | 23 | 21.5 | 12.5 | 15 | 0.043 | 25 |
| 3050000011 | 3/4" | 30 | 23.0 | 12.5 | 17 | 0.058 | 25 |
| 3050000013 | 1" | 35 | 24.0 | 13.0 | 17 | 0.076 | 25 |

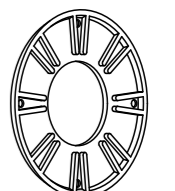
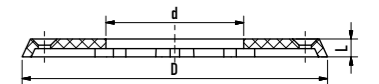
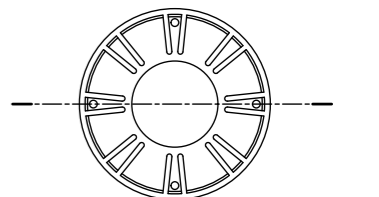
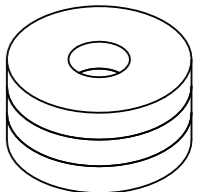
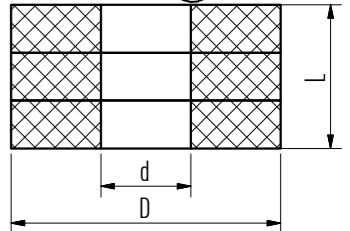
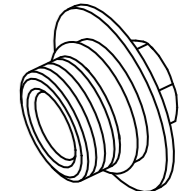
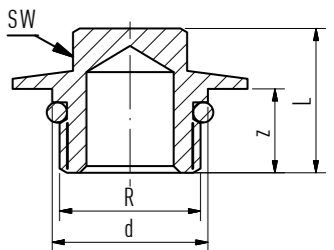
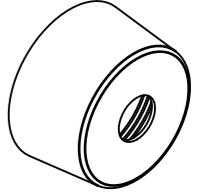
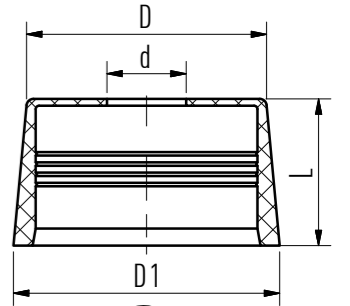
aquatherm red temporary plug for plaster works

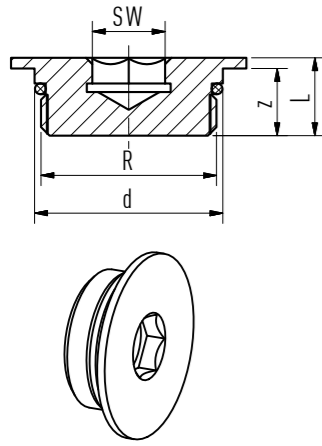
made of PE foam

| Article no. | d | D | L | kg | PU | |
|-------------|--------------------------------|----|------|------|-------|----|
| 9704114178 | for art no. 3090000002, 03, 04 | 20 | 60.0 | 32.0 | 0.003 | 50 |
| 9704114179 | for art no. 3090000006, 07, 08 | 20 | 75.5 | 42.0 | 0.005 | 50 |

aquatherm red sprinkler outlet

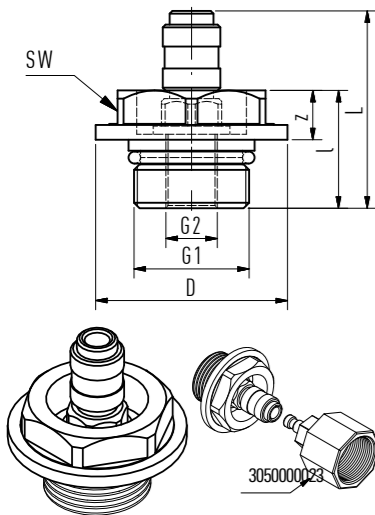
| Article no. | R | d | D | L | kg | PU |
|-------------|--------|------|-------|-----|-------|----|
| 3090000009 | 1 1/4" | 44.1 | 100.1 | 6.5 | 0.028 | 10 |
| 3090000010 | 1 1/2" | 50.1 | 111.1 | 6.5 | 0.034 | 10 |
| 3090000011 | 2" | 61.1 | 126.1 | 6.5 | 0.043 | 10 |





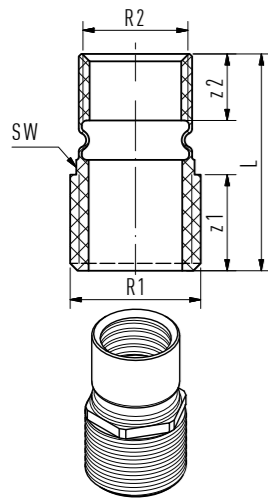
aquatherm red plug for sprinkler outlet

| Article no. | R | d | L | z | SW | kg | PU |
|-------------|--------|----|------|------|----|-------|----|
| 3050000015 | 1 1/4" | 44 | 18.2 | 15.7 | 17 | 0.203 | 10 |
| 3050000016 | 1 1/2" | 50 | 18.0 | 15.5 | 17 | 0.260 | 10 |
| 3050000017 | 2" | 61 | 20.0 | 17.5 | 17 | 0.443 | 10 |



aquatherm red plug for pressure test

| Article no. | l | D | L | z | G1 | G2 | SW | kg | PU |
|--------------------|---|------|------|-----|------|------|----|-------|----|
| 3050000020 | 21.5 | 35.0 | 36.0 | 9.0 | 1/2" | 1/8" | 27 | 0.072 | 10 |
| 3050000021 | 21.5 | 35.0 | 36.0 | 9.0 | 3/4" | 1/8" | 27 | 0.093 | 10 |
| 3050000022 | 21.5 | 40.0 | 36.0 | 8.5 | 1" | 1/8" | 27 | 0.126 | 10 |
| coupling plug 1/2" | | | | | | | | | |
| 3050000023 | 1/2" for Art. no. 3050000020-3050000022 | | | | | | | 0.040 | 1 |



aquatherm red compensating joint

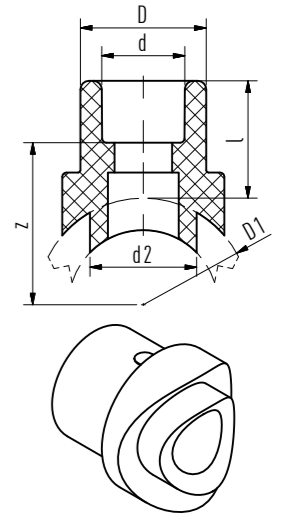
| Article no. | L | z1 | z2 | R1 | R2 | SW | kg | PU |
|-------------|------|------|------|------|------|----|-------|----|
| 9604114230 | 44.0 | 17.5 | 15.5 | 3/4" | 3/8" | 24 | 0.054 | 10 |
| 9604114232 | 44.0 | 19.5 | 13.5 | 3/4" | 1/2" | 24 | 0.043 | 10 |
| 9604114234 | 45.0 | 17 | 17.0 | 1" | 1" | 36 | 0.067 | 10 |
| 9604114236 | 44.0 | 19.5 | 13.5 | 1" | 1/2" | 30 | 0.052 | 10 |

aquatherm red weld-in saddle / B1

socket welding — with weld-on surface and weld-in socket to be fused with the inner wall of the pipe.

| Article no. | Dimension | d | d2 | l | D | D1 | z | kg | PU |
|-------------|------------------|----|------|----|------|-----|------|-------|----|
| 3030063001 | saddle 63/32 mm | 32 | 32.0 | 30 | 43.0 | 63 | 43.5 | 0.028 | 5 |
| 3030075002 | saddle 75/32 mm | 32 | 32.0 | 30 | 43.0 | 75 | 49.5 | 0.028 | 5 |
| 3030075003 | saddle 75/40 mm | 40 | 40.0 | 34 | 52.0 | 75 | 51.0 | 0.049 | 5 |
| 3030090004 | saddle 90/32 mm | 32 | 32.0 | 30 | 43.0 | 90 | 57.0 | 0.029 | 5 |
| 3030090005 | saddle 90/40 mm | 40 | 40.0 | 34 | 52.0 | 90 | 58.5 | 0.048 | 5 |
| 3030110006 | saddle 110/32 mm | 32 | 32.0 | 30 | 43.0 | 110 | 67.0 | 0.030 | 5 |
| 3030110007 | saddle 110/40 mm | 40 | 40.0 | 34 | 52.0 | 110 | 68.5 | 0.050 | 5 |
| 3030110008 | saddle 110/50 mm | 50 | 50.0 | 34 | 68.0 | 110 | 65.5 | 0.030 | 5 |
| 3030125009 | saddle 125/32 mm | 32 | 32.0 | 30 | 43.0 | 125 | 74.5 | 0.029 | 5 |
| 3030125010 | saddle 125/40 mm | 40 | 40.0 | 34 | 52.0 | 125 | 76.0 | 0.050 | 5 |
| 3030125011 | saddle 125/50 mm | 50 | 50.0 | 34 | 68.0 | 125 | 73.0 | 0.030 | 5 |
| 3030125012 | saddle 125/63 mm | 63 | 63.0 | 38 | 84.0 | 125 | 73.0 | 0.154 | 5 |

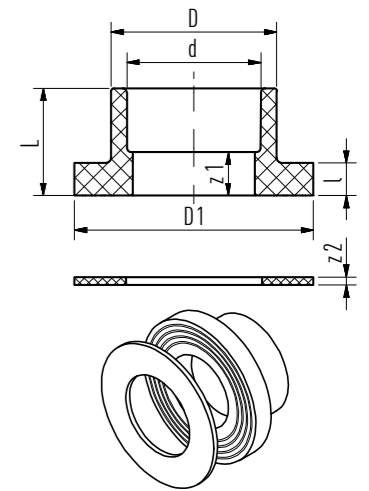
aquatherm red weld-in saddle tools Art. no. 9800050620, 9800050624, 9800050625, 9800050628, 9800050629, 9800050632, 9800050634, 9800050635, 9800050638, 9800050640, 9800050642, 9800050644
aquatherm drill Art. no. 9800050942-9800050948



aquatherm red weldable flange adapter / B1

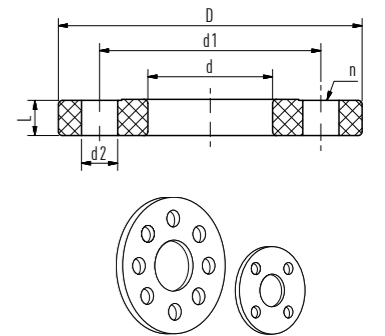
socket welding — with joint ring

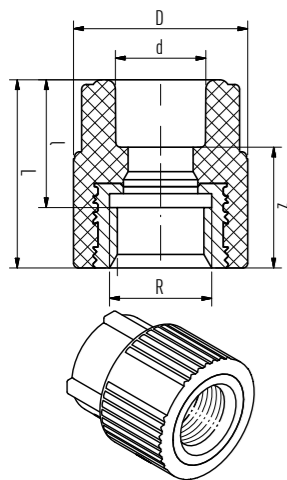
| Article no. | d | l | D | D1 | L | z1 | z2 | kg | PU |
|-------------|-----|------|-------|-----|------|------|-----|-------|----|
| 3050032001 | 32 | 10 | 41.0 | 68 | 34.0 | 16 | 3.0 | 0.053 | 1 |
| 3050040002 | 40 | 11 | 50.0 | 78 | 35.5 | 15 | 3.0 | 0.071 | 1 |
| 3050050003 | 50 | 12 | 61.0 | 88 | 39.5 | 17 | 3.0 | 0.095 | 1 |
| 3050063004 | 63 | 14 | 76.0 | 102 | 43.5 | 16 | 3.0 | 0.130 | 1 |
| 3050075005 | 75 | 16 | 90.0 | 122 | 46.0 | 16 | 3.0 | 0.191 | 1 |
| 3050090006 | 90 | 17 | 108.0 | 138 | 50.0 | 17 | 3.0 | 0.258 | 1 |
| 3050110007 | 110 | 18.5 | 131.0 | 158 | 55.5 | 18.5 | 3.0 | 0.329 | 1 |
| 3050125008 | 125 | 20 | 165.0 | 188 | 63.0 | 23 | 3.0 | 0.724 | 1 |



aquatherm red steel flange

| Article no. | Dimension | d | d1 | d2 | D | L | n | kg | PU |
|-------------|-----------|-----|-------|------|-------|------|---|-------|----|
| 9604114200 | 32 | 42 | 85.0 | 14.0 | 115.0 | 16.0 | 4 | 1.046 | 1 |
| 9604114201 | 40 | 51 | 100.0 | 18.0 | 140.0 | 16.0 | 4 | 1.589 | 1 |
| 9604114202 | 50 | 62 | 110.0 | 18.0 | 150.0 | 16.0 | 4 | 1.675 | 1 |
| 9604114206 | 63 | 78 | 125.0 | 18.0 | 165.0 | 16.0 | 4 | 2.016 | 1 |
| 9604114207 | 75 | 92 | 145.0 | 18.0 | 185.0 | 16.0 | 4 | 2.437 | 1 |
| 9604114208 | 90 | 110 | 160.0 | 18.0 | 200.0 | 18.0 | 8 | 2.699 | 1 |
| 9604114212 | 110 | 133 | 180.0 | 18.0 | 220.0 | 18.0 | 8 | 3.084 | 1 |
| 9604114213 | 125 | 167 | 210.0 | 18.0 | 250.0 | 18.0 | 8 | 3.654 | 1 |

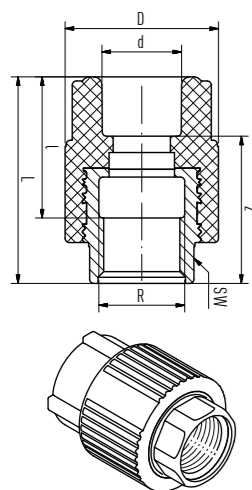




aquatherm red transition piece / B1, round

for the connection to sprinkler outlets, round

| Article no. | Dimension | d | l | D | L | z | R | kg | PU |
|-------------|--------------|----|------|------|------|------|------|-------|----|
| 3070025020 | 25 mm x 1/2" | 25 | 29.5 | 38.5 | 42.5 | 26.5 | 1/2" | 0.065 | 10 |
| 3070025021 | 25 mm x 3/4" | 25 | 27.5 | 43.5 | 40.5 | 24.5 | 3/4" | 0.087 | 10 |
| 3070032022 | 32 mm x 3/4" | 32 | 30.5 | 43.5 | 43.5 | 25.5 | 3/4" | 0.092 | 5 |
| 3070032023 | 32 mm x 1/2" | 32 | 30 | 37.5 | 43.0 | 25.0 | 1/2" | 0.076 | 5 |
| 3070040024 | 40 mm x 1/2" | 40 | 32.5 | 37.5 | 45.5 | 25.0 | 1/2" | 0.078 | 5 |
| 3070040025 | 40 mm x 3/4" | 40 | 33 | 50.0 | 46.0 | 25.5 | 3/4" | 0.105 | 5 |

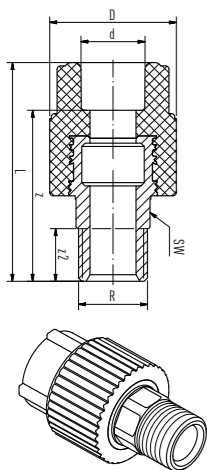


aquatherm red transition piece / B1, with hexagon

with hexagon

| Article no. | Dimension | d | l | D | L | z | R | SW | kg | PU |
|--------------|----------------|----|------|-------|------|------|--------|----|-------|----|
| 3070032026 | 32 mm x 3/4" | 32 | 32 | 43.5 | 53.0 | 35.0 | 3/4" | 31 | 0.104 | 5 |
| 3070032027 * | 32 mm x 1" | 32 | 37.5 | 60.0 | 59.5 | 41.5 | 1" | 39 | 0.239 | 5 |
| 3070040028 * | 40 mm x 1" | 40 | 40 | 60.0 | 62.0 | 41.5 | 1" | 39 | 0.227 | 5 |
| 3070040029 | 40 mm x 1 1/4" | 40 | 40 | 74.0 | 63.0 | 42.5 | 1 1/4" | 50 | 0.385 | 5 |
| 3070050030 | 50 mm x 1 1/4" | 50 | 43 | 74.0 | 66.0 | 42.5 | 1 1/4" | 50 | 0.404 | 5 |
| 3070050031 | 50 mm x 1 1/2" | 50 | 45 | 85.5 | 67.0 | 43.5 | 1 1/2" | 55 | 0.445 | 5 |
| 3070063032 | 63 mm x 1 1/2" | 63 | 51.5 | 84.0 | 73.5 | 46.0 | 1 1/2" | 55 | 0.479 | 1 |
| 3070063033 | 63 mm x 2" | 63 | 50 | 101.0 | 76.0 | 49.5 | 2" | 67 | 0.662 | 1 |
| 3070075034 | 75 mm x 2" | 75 | 51 | 100.0 | 77.0 | 47.0 | 2" | 67 | 0.671 | 1 |
| 3070032035 | 32 mm x 1/2" | 32 | 37 | 37.5 | 53.0 | 35.0 | 1/2" | 24 | 0.091 | 5 |
| 3070040036 | 40 mm x 1/2" | 40 | 38 | 40.0 | 54.0 | 33.5 | 1/2" | 24 | 0.094 | 5 |

*suitable for the connection to sprinkler outlets

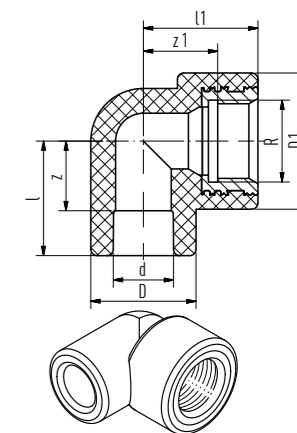


aquatherm red transition piece / B1, with hexagon

| Article no. | Dimension | d | D | L | z | z2 | R | SW | kg | PU |
|--------------|----------------|-----|-------|-------|-------|------|--------|-----|-------|----|
| 3070032037 | 32 mm x 3/4" | 32 | 38.5 | 69.5 | 51.5 | 17.0 | 3/4" | 24 | 0.135 | 5 |
| 3070032038 | 32 mm x 1" | 32 | 53.0 | 78.5 | 60.5 | 20.0 | 1" | 32 | 0.244 | 5 |
| 3070032039 | 32 mm x 1 1/4" | 32 | 68.0 | 81.0 | 63.0 | 21.0 | 1 1/4" | 41 | 0.324 | 5 |
| 3070040040 | 40 mm x 1" | 40 | 52.0 | 81.0 | 60.5 | 20.0 | 1" | 32 | 0.251 | 5 |
| 3070040041 | 40 mm x 1 1/4" | 40 | 68.0 | 84.5 | 64.0 | 21.0 | 1 1/4" | 41 | 0.362 | 5 |
| 3070050042 | 50 mm x 1 1/4" | 50 | 68.0 | 85.5 | 62.0 | 21.0 | 1 1/4" | 41 | 0.389 | 5 |
| 3070050043 | 50 mm x 1 1/2" | 50 | 74.0 | 88.5 | 65.0 | 22.0 | 1 1/2" | 46 | 0.480 | 5 |
| 3070063044 | 63 mm x 1 1/2" | 63 | 72.5 | 94.5 | 67.0 | 22.0 | 1 1/2" | 46 | 0.523 | 1 |
| 3070063045 | 63 mm x 2" | 63 | 84.0 | 102.5 | 75.0 | 23.5 | 2" | 50 | 0.708 | 1 |
| 3070075046 | 75 mm x 2" | 75 | 84.0 | 102.0 | 72.0 | 23.5 | 2" | 50 | 0.753 | 1 |
| 3070075047 | 75 mm x 2 1/2" | 75 | 100.0 | 105.0 | 75.0 | 26.7 | 2 1/2" | 65 | 1.024 | 1 |
| 3070090048 * | 90 mm x 3" | 90 | 120.0 | 121.0 | 88.0 | 30.0 | 3" | 85 | 1.488 | 1 |
| 3070110049 * | 110 mm x 4" | 110 | 147.0 | 148.0 | 111.0 | 39.0 | 4" | 105 | 2.816 | 1 |

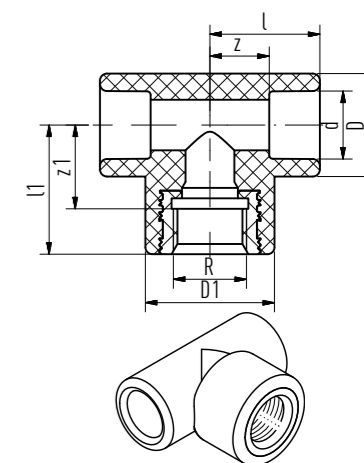
aquatherm red transition elbow 90° / B1

| Article no. | Dimension | d | l | l1 | D | D1 | z | z1 | R | kg | PU |
|-------------|--------------|----|-------|------|------|------|------|------|------|-------|----|
| 3070032001 | 32 mm x 1/2" | 32 | 35 | 37.0 | 43.0 | 37 | 17.0 | 24 | 1/2" | 0.088 | 10 |
| 3070032003 | 32 mm x 3/4" | 32 | 27.5 | 51.0 | 43.0 | 44 | 9.5 | 38 | 3/4" | 0.112 | 5 |
| 3070032004 | 32 mm x 1" | 32 | 34 | 66.5 | 43.0 | 60.5 | 16.0 | 44.5 | 1" | 0.265 | 5 |
| 3070040004 | 40 mm x 1/2" | 40 | 41.75 | 40.0 | 52.0 | 37 | 21.3 | 27 | 1/2" | 0.116 | 5 |
| 3070040005 | 40 mm x 1" | 40 | 41.5 | 56.0 | 52.0 | 60 | 21.0 | 34 | 1" | 0.265 | 5 |



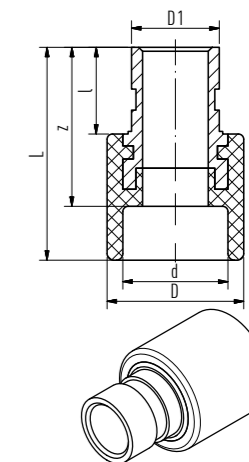
aquatherm red threaded branch tee / B1

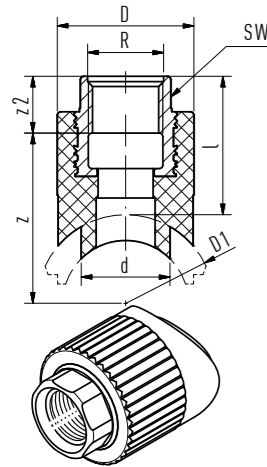
| Article no. | Dimension | d | l | l1 | D | D1 | z | z1 | R | kg | PU |
|-------------|---------------------|----|------|------|------|------|------|------|--------|-------|----|
| 3060025030 | 25 x 1/2" x 25 mm | 25 | 34.5 | 38.0 | 34.0 | 37 | 18.5 | 25 | 1/2" | 0.088 | 10 |
| 3060032031 | 32 x 1/2" x 32 mm | 32 | 35 | 37.0 | 43.0 | 37 | 17.0 | 24 | 1/2" | 0.113 | 5 |
| 3060032032 | 32 x 3/4" x 32 mm | 32 | 27.5 | 51.0 | 43.0 | 44 | 9.5 | 38 | 3/4" | 0.118 | 5 |
| 3060032033 | 32 x 1" x 32 mm | 32 | 31.5 | 67.0 | 43.0 | 60 | 13.5 | 45 | 1" | 0.274 | 5 |
| 3060040034 | 40 x 1/2" x 40 mm | 40 | 42 | 40.0 | 52.0 | 37 | 21.5 | 27 | 1/2" | 0.113 | 5 |
| 3060040035 | 40 x 3/4" x 40 mm | 40 | 40.5 | 40.5 | 52.0 | 52 | 20.0 | 27.5 | 3/4" | 0.157 | 5 |
| 3060040036 | 40 x 1" x 40 mm | 40 | 41.5 | 56.0 | 52.0 | 60 | 21.0 | 34 | 1" | 0.279 | 5 |
| 3060050037 | 50 x 1" x 50 mm | 50 | 49.5 | 63.5 | 68.0 | 68.3 | 26.0 | 41.5 | 1" | 0.387 | 5 |
| 3060050038 | 50 x 1 1/4" x 50 mm | 50 | 49.5 | 66.5 | 68.0 | 68 | 26.0 | 47.5 | 1 1/4" | 0.478 | 5 |
| 3060050040 | 50 x 1/2" x 50 mm | 50 | 49.5 | 44.5 | 68.0 | 43 | 26.0 | 31.5 | 1/2" | 0.237 | 5 |
| 3060050041 | 50 x 3/4" x 50 mm | 50 | 49.5 | 44.5 | 68.0 | 43 | 26.0 | 31.5 | 3/4" | 0.243 | 5 |



aquatherm red transition piece for groove connection / B1

| Article no. | Dimension | l | D | D1 | L | z | kg | PU |
|-------------|-----------|------|-------|-------|-------|-------|-------|----|
| 3070040010 | 40 | 33 | 52.0 | 33.5 | 81.0 | 60.5 | 0.239 | 1 |
| 3070050011 | 50 | 36 | 68.0 | 42.20 | 85.5 | 62.0 | 0.397 | 1 |
| 3070063012 | 63 | 39 | 84.0 | 48.25 | 97.5 | 70.0 | 0.568 | 1 |
| 3070075013 | 75 | 39 | 100.0 | 60.3 | 97.0 | 67.0 | 0.853 | 1 |
| 3070090014 | 90 | 39 | 120.0 | 88.9 | 110.0 | 77.0 | 1.285 | 1 |
| 3070110015 | 110 | 40.5 | 147.0 | 114.3 | 119.5 | 82.5 | 2.137 | 1 |
| 3070125016 | 125 | 75 | 167.0 | 140 | 170.0 | 130.0 | 5.046 | 1 |





aquatherm red weld-in saddle with female thread / B1

with female thread and hexagon socket, with weld-on surface and weld-in socket to be fused with the inner wall of the pipe

| Article no. | d | l | D | D1 | z | z2 | R | SW | kg | PU |
|--------------|----|----|------|-----|------|------|------|----|-------|----|
| 3030040021 | 25 | 39 | 38.5 | 40 | 43.0 | 16.0 | 1/2" | 24 | 0.088 | 5 |
| 3030050022 | 25 | 39 | 38.5 | 50 | 48.0 | 16.0 | 1/2" | 24 | 0.090 | 5 |
| 3030063022 | 25 | 39 | 38.5 | 63 | 54.4 | 16 | 1/2" | 24 | 0.089 | 5 |
| 3030075004 | 25 | 39 | 38.5 | 75 | 60.5 | 16 | 1/2" | 24 | 0.097 | 5 |
| 3030075023 * | 32 | 43 | 60.0 | 75 | 58.5 | 22.0 | 1" | 39 | 0.221 | 5 |
| 3030090024 * | 32 | 43 | 60.0 | 90 | 66.0 | 22.0 | 1" | 39 | 0.222 | 5 |
| 3030110025 * | 32 | 43 | 60.0 | 110 | 76.0 | 22.0 | 1" | 39 | 0.088 | 5 |
| 3030125026 * | 32 | 43 | 60.0 | 125 | 93.5 | 22.0 | 1" | 39 | 0.091 | 5 |

The required tools for the fusion of aquatherm red weld-in saddles, Art. no. 9800050614 – 9800050644.

aquatherm drill, Art. no. 9800050940 – 9800050948.

*suitable for the connection to sprinkler outlets

aquatherm red ball valve HI

| Article no. | d | l | l1 | D | L | z | h | kg | PU |
|-------------|----|-------|-------|------|-------|------|----|-------|----|
| 3050050018 | 50 | 83.50 | 140.0 | 68.0 | 167.0 | 60.0 | 79 | 1.670 | 1 |



aquatherm repair kit

| Article no. | Dimension [mm] | PU |
|-------------|----------------|----|
| 9800050307 | 7 | 1 |
| 9800050311 | 11 | 1 |

to close pipe holes up to 10 mm (pipe repair stick Art. no. 3090000012)

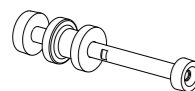


aquatherm repair stick

| Article no. | Dimension [mm] | PU |
|-------------|----------------|----|
| 3090000012 | 7/11 mm | 10 |

Material: Fusiolen® PP-R FS to close pipe holes up to 10 mm.

Tool: aquatherm green repair kit (Art. no. 9800050307 + 9800050311)



aquatherm extraction tool

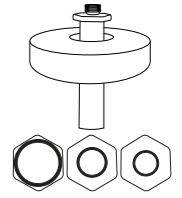
for sprinkler outlet Art. no. 3090000002-08

| Article no. | PU |
|-------------|----|
| 9800050290 | 1 |

aquatherm adjusting tool

for compensating joint with adapter 3/8" male, 1/2" male, 1" male

| Article no. | PU |
|-------------|----|
| 9800050291 | 1 |



aquatherm Tools

Installation in no time at all

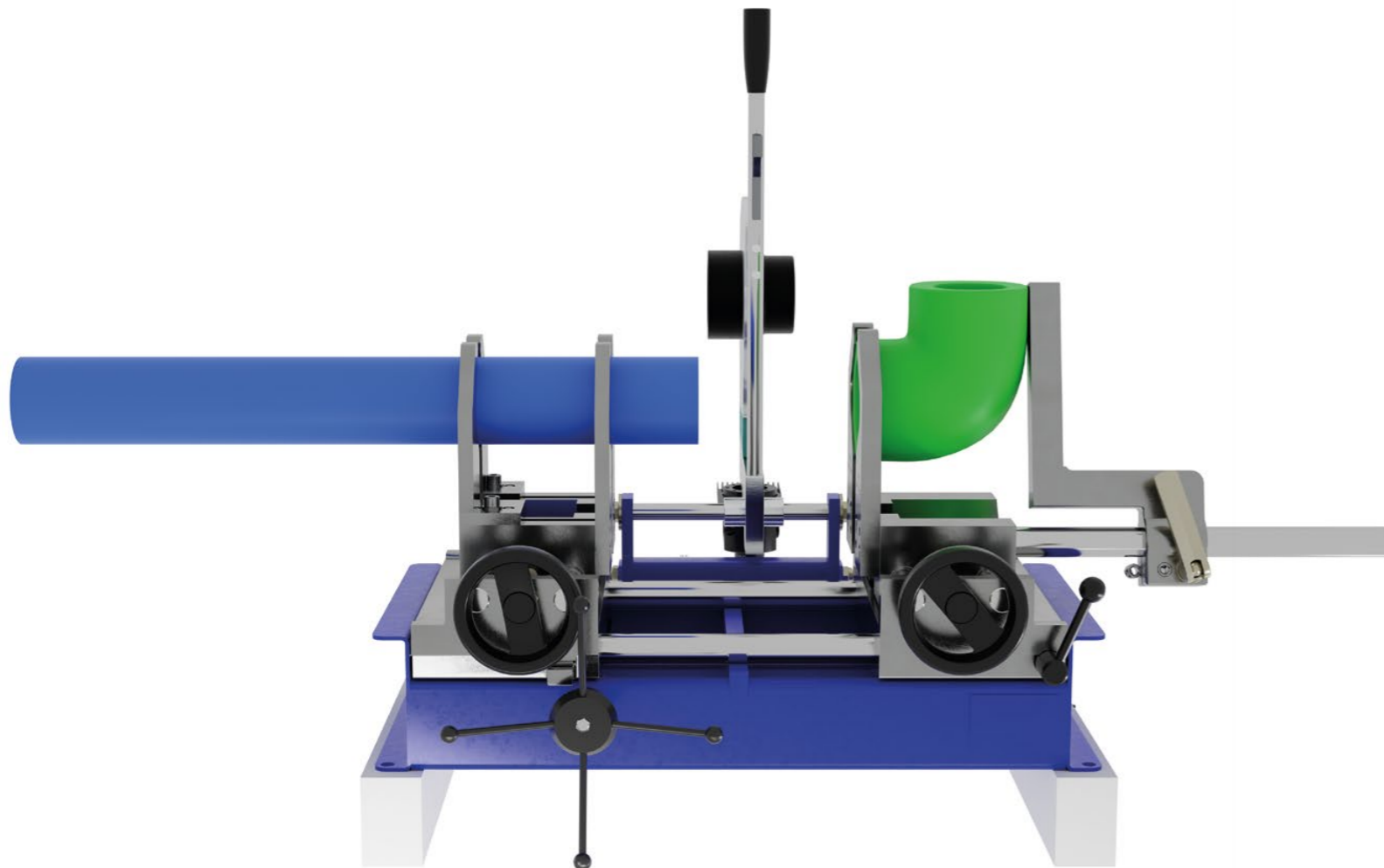
The highest level of safety despite fast installation: this is what we guarantee with our products.

aquatherm pipe systems are joined together by welding, briefly heating the pipe and fitting with the aid of tools provided for this purpose and then joining them together. Our polypropylene material melts into a homogeneous, cohesive unit, without any open flames as is the case with metallic materials.

At the joint, the material is more stable than before welding – this means double safety at the otherwise critical point of a piping system. We supply you with the appropriate tools directly. The low weight of our products also simplifies handling on the construction site.

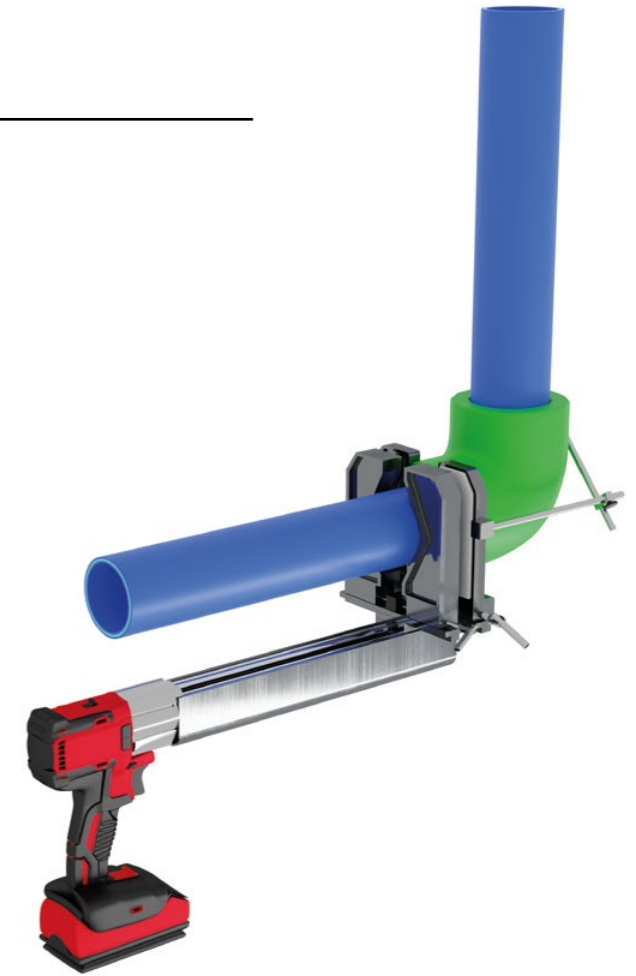


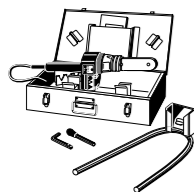
Applications:



Contents

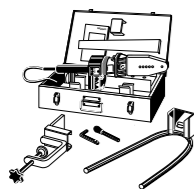
| | |
|----------------------------------|-----|
| aquatherm manual welding device | 164 |
| aquatherm electrofusion device | 164 |
| aquatherm welding machine | 164 |
| aquatherm butt welding machine | 165 |
| aquatherm welding tools | 165 |
| aquatherm saddle welding tools | 166 |
| aquatherm pipe cutter | 167 |
| aquatherm orbital circular saw | 167 |
| aquatherm peeling tools | 168 |
| aquatherm peeling tools | 169 |
| aquatherm saddle peeling tools | 170 |
| aquatherm drills and accessories | 170 |
| aquatherm weld-on saddle | 172 |
| aquatherm weld-on saddle tool | 172 |
| aquatherm repair set | 173 |
| aquatherm manual scraper | 173 |
| aquatherm chamfering tool | 174 |
| aquatherm surface thermometer | 174 |
| aquatherm thermometer glove | 174 |





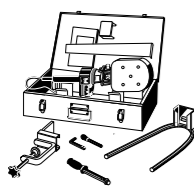
aquatherm manual welding device (500 W)

| Article no. | Dimension [mm] | PU |
|-------------|----------------|----|
| 9800050336 | Ø 16-32 mm | 1 |



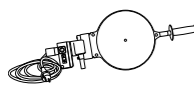
aquatherm manual welding device (800 W)

| Article no. | Dimension [mm] | PU |
|-------------|----------------|----|
| 9800050337 | Ø 16-63 mm | 1 |



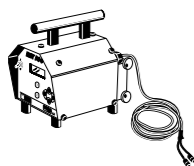
aquatherm manual welding device (1400 W)

| Article no. | Dimension [mm] | PU |
|-------------|----------------|----|
| 9800050341 | Ø 50-125 mm | 1 |



manual welding device (1500 W)

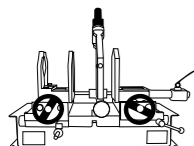
| Article no. | Dimension [mm] | PU |
|-------------|----------------|----|
| 9800050330 | Ø 50 -160 mm | 1 |



aquatherm electrofusion device

| Article no. | PU |
|-------------|----|
| 9800050175 | 1 |

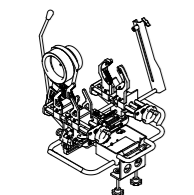
For processing with electro-fusion-sockets Art. no. 1040020094 - 1040250111



aquatherm welding machine (1400 W)

| Article no. | Dimension [mm] | PU |
|-------------|----------------|----|
| 9800050148 | Ø 50-125 mm | 1 |

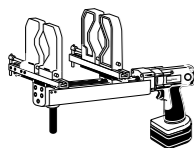
including welding tools 50 – 125 mm, roll stand and wooden transport case



aquatherm welding machine (1400 W) light

| Article no. | Dimension [mm] | PU |
|-------------|----------------|----|
| 9800050145 | Ø 63-125 mm | 1 |

including manual welding device (1400 W) and wooden transport case

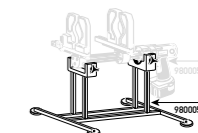


aquatherm electric welding jig

| Article no. | Dimension [mm] | Weight [kg] | PU |
|-------------|----------------|-------------|----|
| 9800050161 | Ø 63 - 125 mm | 24.000 | 1 |

aquatherm base for art. no. 9800050161

| Article no. | PU |
|-------------|----|
| 9800050151 | 1 |



aquatherm butt welding machine-two-ring-machine widos

| Article no. | Dimension [mm] | Weight [kg] | PU |
|-------------|----------------|-------------|----|
| 9800050350 | Ø 160 - 250 mm | 154.000 | 1 |
| 9800050351 | Ø 160 - 315 mm | 178.000 | 1 |

The butt-welding-two-ring machine can be purchased directly from Widos (www.widos.de)
Two-ring machine for pipes 160 – 355 mm available on request



aquatherm butt welding machine Widos

| Article no. | Dimension [mm] | Weight [kg] | PU |
|--------------|------------------------|-------------|----|
| 9800050352 | for pipes Ø 160-250 mm | 195.000 | 1 |
| 9800050353 | for pipes Ø 160-315 mm | 250.000 | 1 |
| 9800050355 | for pipes Ø 200-450 mm | 430.000 | 1 |
| 9800050356 * | for pipes Ø 200-500 mm | 500.000 | 1 |
| 9800050357 * | for pipes Ø 315-630 mm | 885.000 | 1 |

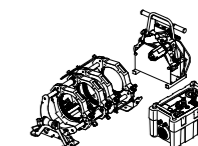
The butt-welding-machine can be purchased directly from Widos (www.widos.de)
*special voltage on demand



aquatherm butt welding machine ritmo

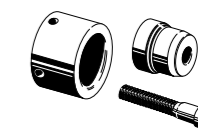
| Article no. | Dimension [mm] | Weight [kg] | PU |
|--------------|--------------------------|-------------|----|
| 9800050165 * | for pipes Ø 160 - 250 mm | 176.500 | 1 |
| 9800050166 * | for pipes Ø 160 - 315 mm | 160.000 | 1 |
| 9800050169 | for pipes Ø 400 - 630 mm | 710.000 | 1 |

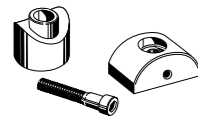
*Also available: 110 V (for Ø 160 – 250 mm or Ø 160 – 315 mm)
including wooden transport box. The butt welding machine can be obtained directly from Ritmo (www.ritmo.it)
Two-ring machine for pipes 160 – 355 mm available on request



aquatherm welding tools

| Article no. | Dimension [mm] | PU |
|-------------|----------------|----|
| 9800050206 | 16 | 1 |
| 9800050208 | 20 | 1 |
| 9800050210 | 25 | 1 |
| 9800050212 | 32 | 1 |
| 9800050214 | 40 | 1 |
| 9800050216 | 50 | 1 |
| 9800050218 | 63 | 1 |
| 9800050220 | 75 | 1 |
| 9800050222 | 90 | 1 |
| 9800050224 | 110 | 1 |
| 9800050226 | 125 | 1 |



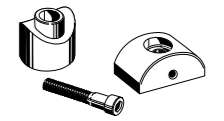


aquatherm saddle welding tools

for welding saddles

| Article no. | Dimension [mm] | PU |
|-------------|----------------|----|
| 9800050614 | 40 x 20/25 | 1 |
| 9800050616 | 50 x 20/25 | 1 |
| 9800050619 | 63 x 20/25 | 1 |
| 9800050620 | 63 x 32 | 1 |
| 9800050623 | 75 x 20/25 | 1 |
| 9800050624 | 75 x 32 | 1 |
| 9800050625 | 75 x 40 | 1 |
| 9800050627 | 90 x 20/25 | 1 |
| 9800050628 | 90 x 32 | 1 |
| 9800050629 | 90 x 40 | 1 |
| 9800050631 | 110 x 20/25 | 1 |
| 9800050632 | 110 x 32 | 1 |
| 9800050634 | 110 x 40 | 1 |
| 9800050635 | 110 x 50 | 1 |
| 9800050636 | 125 x 20/25 | 1 |
| 9800050638 | 125 x 32 | 1 |
| 9800050640 | 125 x 40 | 1 |
| 9800050642 | 125 x 50 | 1 |
| 9800050644 | 125 x 63 | 1 |
| 9800050648 | 160 x 20/25 | 1 |
| 9800050650 | 160 x 32 | 1 |
| 9800050652 | 160 x 40 | 1 |
| 9800050654 | 160 x 50 | 1 |
| 9800050656 | 160 x 63 | 1 |
| 9800050657 | 160 x 75 | 1 |
| 9800050658 | 160 x 90 | 1 |
| 9800050660 | 200 x 20/25 | 1 |
| 9800050662 | 200 x 32 | 1 |
| 9800050664 | 200 x 40 | 1 |
| 9800050666 | 200 x 50 | 1 |
| 9800050667 | 200 x 75 | 1 |
| 9800050668 | 200 x 63 | 1 |
| 9800050669 | 200 x 90 | 1 |
| 9800050670 | 200 x 110 | 1 |
| 9800050671 | 200 x 125 | 1 |
| 9800050672 | 250 x 20/25 | 1 |
| 9800050674 | 250 x 32 | 1 |
| 9800050676 | 250 x 40 | 1 |
| 9800050678 | 250 x 50 | 1 |
| 9800050680 | 250 x 63 | 1 |
| 9800050682 | 250 x 75 | 1 |
| 9800050684 | 250 x 90 | 1 |
| 9800050686 | 250 x 110 | 1 |
| 9800050688 | 250 x 125 | 1 |
| 9800050690 | 315 x 63 | 1 |
| 9800050692 | 315 x 75 | 1 |

continued on next page ...



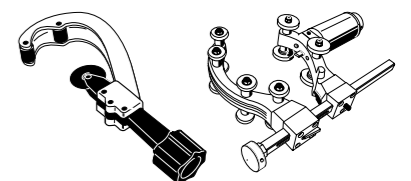
aquatherm saddle welding tools

(continued) for welding saddles

| Article no. | Dimension [mm] | PU |
|-------------|-----------------|----|
| 9800050694 | 315 x 90 | 1 |
| 9800050696 | 315 x 110 | 1 |
| 9800050698 | 315 x 125 | 1 |
| 9800050699 | 315 x 160 | 1 |
| 9800050712 | 355 x 63 | 1 |
| 9800050714 | 355 x 75 | 1 |
| 9800050716 | 355 x 90 | 1 |
| 9800050718 | 355 x 110 | 1 |
| 9800050720 | 355 x 125 | 1 |
| 9800050722 | 355 x 160 | 1 |
| 9800050726 | 400 - 630 x 63 | 1 |
| 9800050728 | 400 - 500 x 75 | 1 |
| 9800050730 | 560 - 630 x 75 | 1 |
| 9800050732 | 400 - 500 x 90 | 1 |
| 9800050734 | 560 - 630 x 90 | 1 |
| 9800050736 | 400 - 450 x 110 | 1 |
| 9800050738 | 500 - 560 x 110 | 1 |
| 9800050740 | 630 x 110 | 1 |
| 9800050742 | 400 x 125 | 1 |
| 9800050744 | 450 - 500 x 125 | 1 |
| 9800050746 | 630 x 125 | 1 |

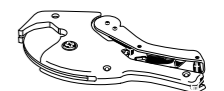
aquatherm pipe cutter

| Article no. | Dimension [mm] | PU |
|-------------|-------------------------|----|
| 9800050102 | for pipes Ø 16 - 40 mm | 1 |
| 9800050105 | for pipes Ø 50 - 125 mm | 1 |
| 9800050106 | for pipes Ø 63 - 200 mm | 1 |



aquatherm pipe cutter

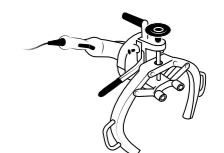
| Article no. | Dimension [mm] | PU |
|-------------|------------------------|----|
| 9800050103 | for pipes up to 25 mm | 1 |
| 9800050104 | for pipes Ø 16 - 40 mm | 1 |

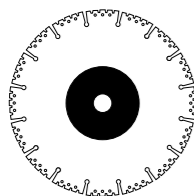


aquatherm orbital circular saw

| Article no. | Dimension [mm] | PU |
|-------------|--------------------------|----|
| 9800050108 | for pipes Ø 160 - 355 mm | 1 |

This orbital circular saw can be ordered directly from Rothenberger (www.rothenberger.com). High-performance orbital circular saw for fast, precise, perfectly aligned and right-angled cutting of plastic pipes 160 – 355 mm at the building site or in the workshop





aquatherm cutting disc for plastic

| Article no. | Dimension [mm] | PU |
|-------------|--------------------|----|
| 9800050107 | for pipes Ø 125 mm | 1 |
| 9800050109 | for pipes Ø 230 mm | 1 |

Application: for each angle grinder. Design: diamant galvanised cutting disc

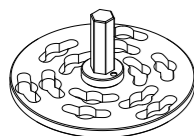


aquatherm universal peeling tools

for aquatherm green MF UV, aquatherm green MF RP UV, aquatherm blue MF RP UV and aquatherm blue MF OT

| Article no. | Dimension [mm] | PU |
|-------------|------------------------------|----|
| 9800050479 | 20 | 1 |
| 9800050480 | 25 | 1 |
| 9800050481 | 32 | 1 |
| 9800050482 | 40 | 1 |
| 9800050483 | 50 | 1 |
| 9800050484 | 63 | 1 |
| 9800050485 | 75 | 1 |
| 9800050486 | 90 | 1 |
| 9800050487 | 110 | 1 |
| 9800050488 | 125 | 1 |
| 9800050501 | Spare blade with screw (Set) | 1 |

Required for the socket welding
(in combination with socket welding fittings from page 23 onwards, e.g. sockets, elbows, T-pieces, transition pieces with thread)
Also suitable for manual peeling (bolts included).
Not suitable for aquatherm green S, aquatherm blue S, aquatherm green MF, aquatherm green MF RP, aquatherm energy green, aquatherm blue RP TI



aquatherm attachment plate for universal peeling tool

| Article no. | Dimension [mm] | PU |
|-------------|---|----|
| 9800050499 | for peeling tools 9800050479-9800050484 | 1 |
| 9800050500 | for peeling tools 9800050485-9800050488 | 1 |

aquatherm universal peeling tool-set 20 – 63 mm

| Article no. | Dimension [mm] | PU |
|-------------|------------------------|----|
| 9800050477 | for pipes Ø 20 - 63 mm | 1 |

consisting of:
1x case
1x peeling tool 20 – 63 mm
1x attachment plate for universal peeling tool 980005079-9800050484
1x toggle-set
1x torx wrench
1x hexagon Allen key size 4
6x fixing screws 9800050489-9800050494 M5x25

aquatherm universal peeling tool-set 75 – 125 mm

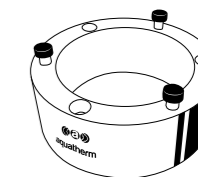
| Article no. | Dimension [mm] | PU |
|-------------|---------------------------|----|
| 9800050478 | for pipes Ø 75 x - 125 mm | 1 |

consisting of:
1x case
1x peeling tool 75 – 125 mm
1x attachment plate for universal peeling tool 9800050485-9800050488
1x toggle-set
1x torx wrench
1x hexagon Allen key size 4
6x fixing screws for Art. no. 9800050495-98000498 M5x35

aquatherm extension for universal peeling tool

| Article no. | Dimension [mm] | PU |
|-------------|---|----|
| 9800050489 | for peeling tool 20 mm Art. no. 9800050479 | 1 |
| 9800050490 | for peeling tool 25 mm Art. no. 9800050480 | 1 |
| 9800050491 | for peeling tool 32 mm Art. no. 9800050481 | 1 |
| 9800050492 | for peeling tool 40 mm Art. no. 9800050482 | 1 |
| 9800050493 | for peeling tool 50 mm Art. no. 9800050483 | 1 |
| 9800050494 | for peeling tool 63 mm Art. no. 9800050484 | 1 |
| 9800050495 | for peeling tool 75 mm Art. no. 9800050485 | 1 |
| 9800050496 | for peeling tool 90 mm Art. no. 9800050486 | 1 |
| 9800050497 | for peeling tool 110 mm Art. no. 9800050487 | 1 |
| 9800050498 | for peeling tool 125 mm Art. no. 9800050488 | 1 |

Required for electrofusion socket welding. When electrofusion welding a longer welding depth is required, which is achieved by the combination of the universal peeling tool and the extension for the universal peeling tool (e.g. Art. no. 9800050479 + 9800050489)

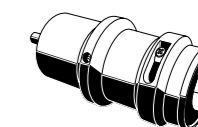


aquatherm peeling tools for electrofusion socket welding

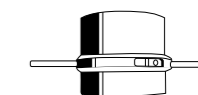
for aquatherm green S, aquatherm green MF, aquatherm green MF RP, aquatherm green MF TI, aquatherm blue S RP, aquatherm blue MF RP and aquatherm blue MF RP TI

| Article no. | Dimension [mm] | PU |
|--|---|----|
| In combination with a drilling machine | | |
| 9800050558 | 20 mm not for OT MS | 1 |
| 9800050560 | 25 mm not for OT MS | 1 |
| 9800050562 | 32 mm not for OT MS | 1 |
| 9800050564 | 40 mm not for OT MS | 1 |
| 9800050566 | 50 mm not for OT MS | 1 |
| 9800050568 | 63 mm not for OT MS | 1 |
| 9800050570 | 75 mm not for OT MS | 1 |
| 9800050572 | 90 mm not for OT MS | 1 |
| 9800050440 | Art.9800050506 - 9800050572/9800050910-9800050914 | 1 |
| For manual peeling | | |
| 9800050574 | 110 mm not for OT MS | 1 |
| 9800050576 | 125 mm not for OT MS | 1 |
| 9800050580 | 160 mm not for OT MS | 1 |
| 9800050441 | Art. 9800050574-9800050580/9800099368-9800099369 | 1 |
| 9800050592 | 200 & 250 mm not for OT MS | 1 |
| 9700099739 | spare blade | 1 |

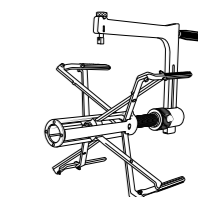
Not suitable for aquatherm green UV, aquatherm green MF RP UV, aquatherm blue MF RP UV and aquatherm blue MF RP OT



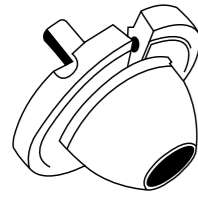
Art. no. 9800050558 – 9800050572
In combination with a drilling machine (not included!)



Art. no. 9800050574 – 9800050580

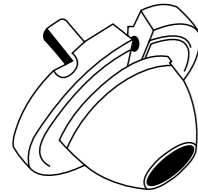


Art. no. 9800050592



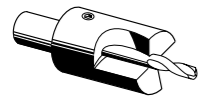
aquatherm saddle peeling tools for OT and UV pipes Ø 50–125 mm

| Article no. | Dimension [mm] | PU |
|-------------|----------------------------------|----|
| 9800050921 | for welding saddles Ø 20 & 25 mm | 1 |
| 9800050922 | for welding saddles Ø 32 mm | 1 |
| 9800050924 | for welding saddles Ø 40 mm | 1 |
| 9800050926 | for welding saddles Ø 50 mm | 1 |
| 9800050928 | for welding saddles Ø 63 mm | 1 |



aquatherm saddle peeling tools for OT and UV pipes 160–250 mm

| Article no. | Dimension [mm] | PU |
|-------------|----------------------------------|----|
| 9800050421 | for welding saddles Ø 20 & 25 mm | 1 |
| 9800050422 | for welding saddles Ø 32 mm | 1 |
| 9800050424 | for welding saddles Ø 40 mm | 1 |
| 9800050426 | for welding saddles Ø 50 mm | 1 |
| 9800050428 | for welding saddles Ø 63 mm | 1 |

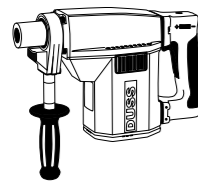


aquatherm drills

for installation of weld-in saddles

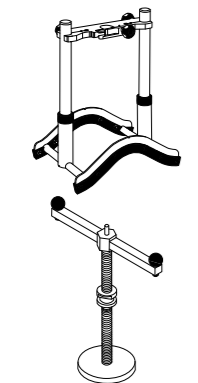
| Article no. | Dimension [mm] | PU |
|--------------|---------------------|----|
| 9800050940 | 20 & 25 (40-160 mm) | 1 |
| 9800050941 | 20 & 25 (63-250 mm) | 1 |
| 9800050942 | 32 | 1 |
| 9800050944 | 40 | 1 |
| 9800050946 * | 50 | 1 |
| 9800050948 * | 63 | 1 |

*may only be used in fixed drilling machines



aquatherm drill duss DIA303

| Article no. | PU |
|-------------|----|
| 9800050978 | 1 |



aquatherm drill rig for duss-drill

| Article no. | PU |
|-------------|----|
| 9800050977 | 1 |

aquatherm welding fixture for drill rig 50977

| Article no. | PU |
|-------------|----|
| 9800050979 | 1 |

aquatherm keyless chuck clamping range 1,5 – 13 mm

| Article no. | PU |
|-------------|----|
| 9800050971 | 1 |

aquatherm chuck adapter for art. no. 9800050971

| Article no. | PU |
|-------------|----|
| 9800050969 | 1 |

saddle-hole saw for branch

| Article no. | Dimension [mm] | Required items | PU |
|-------------|----------------|-------------------------|----|
| 9800050987 | 75 | 9800050973 | 1 |
| 9800050988 | 90 | 9800050973 | 1 |
| 9800050989 | 110 | 9800050975 & 9800050976 | 1 |
| 9800050990 | 125 | 9800050975 & 9800050976 | 1 |
| 9800050991 | 160 | 9800050975 & 9800050976 | 1 |

for assembly of weld-in saddles

aquatherm quick change adapter 75 – 90mm

| Article no. | PU |
|-------------|--------------------------------------|
| 9800050973 | for Art. no. 9800050987 & 9800050988 |

aquatherm center drill LSZ 1

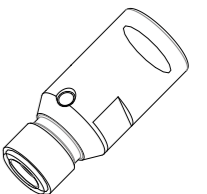
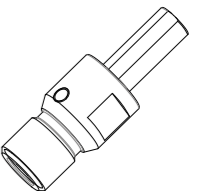
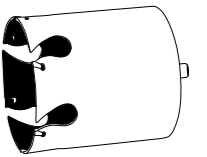
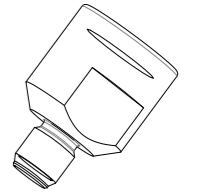
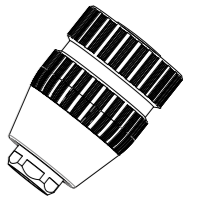
| Article no. | PU |
|-------------|--------------------------------------|
| 9800050975 | for Art. no. 9800050989 - 9800050991 |

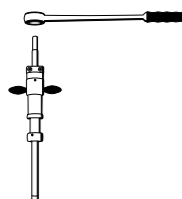
aquatherm hole saw holder LSA3

| Article no. | Dimension [mm] | PU |
|-------------|----------------------------|----|
| 9800050976 | 1/2" for drill chuck 13 mm | 1 |

aquatherm hole saw holder LSA2

| Article no. | Dimension [mm] | PU |
|-------------|------------------------|----|
| 9800050974 | 1/2" for DUSS-machines | 1 |



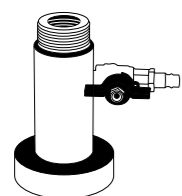


Hot tapping tool

for drilling pipes under pressure

| Article no. | Dimension [mm] | PU |
|-------------|----------------|----|
| 9800050890 | 40 and 63 mm | 1 |

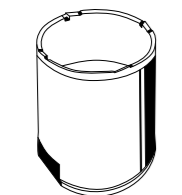
The hot tapping tool (Art. no. 50890) is for drilling of pipelines. PP-main pipes from 75 mm to 630 mm can be drilled under pressure
Not for aquatherm blue OT



Adapter for weld-on saddle set with ball valve 63 mm

for installation under pressure

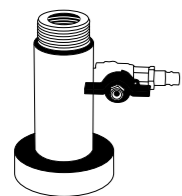
| Article no. | Dimension [mm] | PU |
|-------------|----------------|----|
| 9800050891 | 40 | 1 |



PP-milling cutter for weld-on saddle set with ball valve 40 mm

for installation under pressure – for Art. no. 9800050892

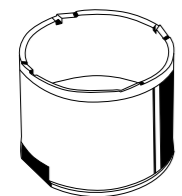
| Article no. | Dimension [mm] | PU |
|-------------|----------------|----|
| 9800050893 | 40 | 1 |



Adapter for weld-on saddle set with ball valve 40 mm

for installation under pressure – for Art. no. 9800050891

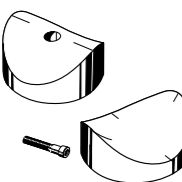
| Article no. | Dimension [mm] | PU |
|-------------|----------------|----|
| 9800050892 | 63 | 1 |



PP-milling cutter for weld-on saddle set with ball valve 63 mm

for installation under pressure

| Article no. | Dimension [mm] | PU |
|-------------|----------------|----|
| 9800050894 | 63 | 1 |

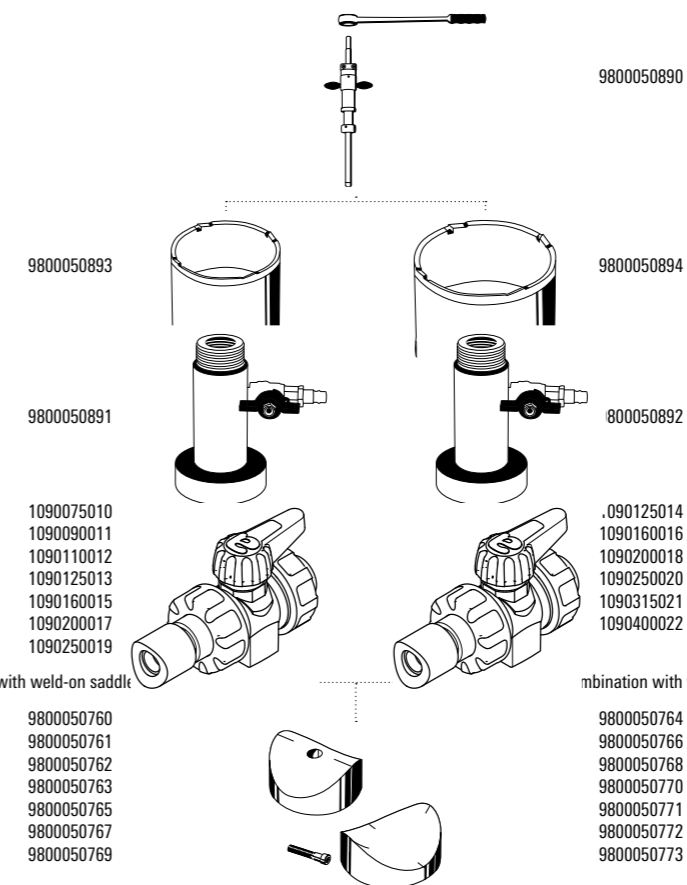


aquatherm weld-on saddle tool

for weld-on saddle set with ball valve for installation under pressure for hot tapping tool

| Article no. | Dimension [mm] | PU |
|-------------|-----------------------------|----|
| 9800050760 | 75 x 40 mm, 9800050890 | 1 |
| 9800050761 | 90 x 40 mm, 9800050890 | 1 |
| 9800050762 | 110 x 40 mm, 9800050890 | 1 |
| 9800050763 | 125 x 40 mm, 9800050890 | 1 |
| 9800050764 | 125 x 63 mm, 9800050890 | 1 |
| 9800050765 | 160 x 40 mm, 9800050890 | 1 |
| 9800050766 | 160 x 63 mm, 9800050890 | 1 |
| 9800050767 | 200 x 40 mm, 9800050890 | 1 |
| 9800050768 | 200 x 63 mm, 9800050890 | 1 |
| 9800050769 | 250 x 40 mm, 9800050890 | 1 |
| 9800050770 | 250 x 63 mm, 9800050890 | 1 |
| 9800050771 | 315 x 63 mm, 9800050890 | 1 |
| 9800050773 | 400-630 x 63 mm, 9800050890 | 1 |

Not suitable for aquatherm blue OT!



In combination with weld-on saddle

mbination with weld-on saddle tool

aquatherm repair set

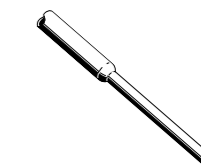
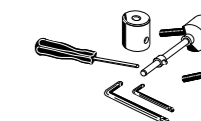
| Article no. | Dimension [mm] | PU |
|-------------|----------------|----|
| 9800050307 | 7 | 1 |
| 9800050311 | 11 | 1 |

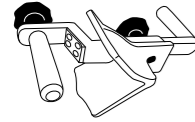
to close holes of up to 10 mm in the pipe

aquatherm pipe repair stick

for pipe repairs

| Article no. | Dimension [mm] | PU |
|-------------|----------------|----|
| 1090000035 | 7/11 mm | 10 |
| 3090000012 | 7/11 mm | 10 |





aquatherm chamfering tool for aquatherm blue OT and UV-Pipes

chamfering tool for Ø 32 – 250mm

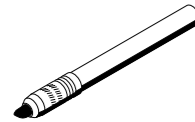
| Article no. | Quantity | PU |
|-------------|----------|----|
| 9800050510 | 1 | 1 |

For removing the OT-layer before the butt-welding process and for breaking the edges of the blue for processing the push-fit adapter and push-fit coupling.

aquatherm cleaning wipes

| Article no. | Quantity | PU |
|-------------|-----------------------------|----|
| 9800050193 | can with 100 cleaning wipes | 1 |

for electrofusion sockets



aquatherm temperature pencil

| Article no. | PU |
|-------------|----|
| 9800050190 | 1 |

to check the correct welding temperature



aquatherm surface thermometer

| Article no. | PU |
|-------------|----|
| 9800050188 | 1 |

to check the correct welding temperature

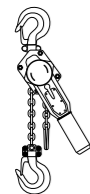
aquatherm thermometer glove

| Article no. | PU |
|-------------|----|
| 9800050195 | 2 |

Chain hoist

Tools for assembling push-in couplings

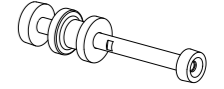
| Article no. | kg | PU |
|-------------|-------|----|
| 9800050530 | 2.800 | 1 |



aquatherm extraction tool

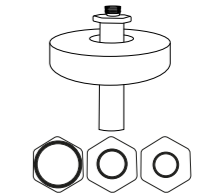
for sprinkler outlet Art. no. 3090000002-08

| Article no. | PU |
|-------------|----|
| 9800050290 | 1 |



aquatherm adjusting tool

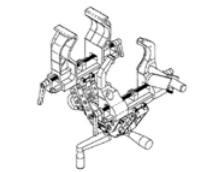
| Article no. | PU |
|-------------|----|
| 9800050291 | 1 |



Spider welding jig 125 mm

with bag

| Article no. | PU |
|-------------|----|
| 9800000002 | 3 |



aquatherm service and quality



Quality 100 percent "Made in Germany"

Creating safe and innovative piping systems that are "state of the pipe" is aquatherm's mission.

It all starts with the raw material: Under the fusiolen® brand, we develop and refine our own polypropylene granules. This allows us to tailor the properties of our products perfectly to the requirements of the various applications. We produce all our products exclusively and with the latest production technology at our two German locations.

Only certified products make their journey to our worldwide customers. Numerous national and international quality seals and approval certificates as well as our satisfied customers confirm again and again the high quality of our products.

See for yourself!

Technical Hotline: +49 2722 950 200

info@aquatherm.de

www.aquatherm.de



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Certifications in accordance with ISO 9001, ISO 14001 & ISO 50001

Since 1996 aquatherm have fulfilled the requirements of the quality management system according to DIN ISO 9001.

The 2012 TÜV certificate was extended by the environmental management system according to ISO 14001 and currently by the energy management system according to ISO 50001.

This success is another step towards strengthening our competitive position and to meet the high requirements and the responsibility for our customers, partners and the environment.

Our offer for your technical support

Field staff

In addition to the regular training service at Attendorn and Radeberg aquatherm field staff are available to assist customers, on site, throughout Germany.



Training service

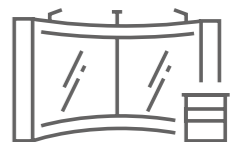
In addition to training service through the merchant network aquatherm offers its customers training, free of charge, at its training centres at Attendorn and Radeberg.



Fair

aquatherm is represented at all important fairs relevant for the sanitary and heating sector in Germany or abroad with its own exhibition booth.

For more information regarding fairs near to you, please visit internet page: www.aquatherm.de.



Laboratory

The aquatherm laboratory: from the testing of granulate through to the finished product the customer can be assured of only the highest quality products.



Software Service

The aquatherm software service provides Datanorm files, BIM-data and data sets for the liNear, Planca/Rimble and ETU calculation programs, as well as on-site training.



Brochures etc.

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Permissible working pressure

For general pressure pipe applications (no potable water) in permanent operation outside the application areas shown on the next page.

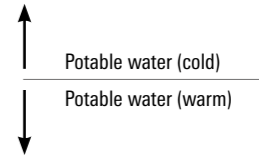
| Years of service | aquatherm blue SDR 17.6 MF RP | aquatherm blue SDR 11 MF RP | aquatherm blue SDR 11 S | aquatherm blue SDR 9 MF RP | aquatherm green SDR 7.4 MF | aquatherm green SDR 9 MF RP |
|-------------------------------------|----------------------------------|--------------------------------|----------------------------|-------------------------------|-------------------------------|--------------------------------|
| at temperature up to 10 °C (50 °F) | | | | | | |
| 10 | 13.1 bar | 25.3 bar | 19.3 bar | 27.5 bar | 27.7 bar | 27.5 bar |
| 25 | 12.9 bar | 24.7 bar | 18.7 bar | 27.1 bar | 26.9 bar | 27.1 bar |
| 50 | 12.7 bar | 24.1 bar | 18.2 bar | 26.7 bar | 26.1 bar | 26.7 bar |
| 100 | 12.6 bar | 23.5 bar | 17.8 bar | 26.3 bar | 25.2 bar | 26.3 bar |
| at temperature up to 15 °C (59 °F) | | | | | | |
| 10 | 12.3 bar | 23.4 bar | 17.8 bar | 25.7 bar | 26.9 bar | 25.7 bar |
| 25 | 12.1 bar | 22.8 bar | 17.2 bar | 25.2 bar | 26.1 bar | 25.2 bar |
| 50 | 11.9 bar | 22.2 bar | 16.8 bar | 24.9 bar | 25.3 bar | 24.9 bar |
| 100 | 11.7 bar | 21.6 bar | 16.3 bar | 24.5 bar | 24.5 bar | 24.5 bar |
| at temperature up to 20 °C (68 °F) | | | | | | |
| 10 | 11.4 bar | 21.4 bar | 16.4 bar | 23.9 bar | 26.1 bar | 23.9 bar |
| 25 | 11.2 bar | 21.0 bar | 15.9 bar | 23.5 bar | 25.3 bar | 23.5 bar |
| 50 | 11.0 bar | 20.4 bar | 15.4 bar | 23.1 bar | 24.5 bar | 23.1 bar |
| 100 | 10.9 bar | 19.9 bar | 15.0 bar | 22.8 bar | 23.7 bar | 22.8 bar |
| at temperature up to 30 °C (86 °F) | | | | | | |
| 10 | 9.8 bar | 18.3 bar | 13.9 bar | 20.6 bar | 22.0 bar | 20.6 bar |
| 25 | 9.6 bar | 17.8 bar | 13.4 bar | 20.2 bar | 21.3 bar | 20.2 bar |
| 50 | 9.5 bar | 17.3 bar | 13.0 bar | 19.9 bar | 20.7 bar | 19.9 bar |
| 100 | 9.4 bar | 16.8 bar | 12.7 bar | 19.7 bar | 20.0 bar | 19.7 bar |
| at temperature up to 40 °C (104 °F) | | | | | | |
| 10 | 8.4 bar | 15.5 bar | 11.8 bar | 17.7 bar | 18.7 bar | 17.7 bar |
| 25 | 8.3 bar | 15.0 bar | 11.3 bar | 17.3 bar | 18.0 bar | 17.3 bar |
| 50 | 8.1 bar | 14.6 bar | 11.0 bar | 17.1 bar | 17.5 bar | 17.1 bar |
| 100 | 8.0 bar | 14.1 bar | 10.7 bar | 16.8 bar | 16.8 bar | 16.8 bar |
| at temperature up to 50 °C (122 °F) | | | | | | |
| 10 | 7.2 bar | 13.0 bar | 9.9 bar | 15.1 bar | 15.7 bar | 15.1 bar |
| 25 | 7.0 bar | 12.6 bar | 9.5 bar | 14.7 bar | 15.2 bar | 14.7 bar |
| 50 | 6.9 bar | 12.2 bar | 9.2 bar | 14.5 bar | 14.7 bar | 14.5 bar |
| 100 | 6.8 bar | 11.9 bar | 9.0 bar | 14.3 bar | 14.1 bar | 14.3 bar |
| at temperature up to 60 °C (140 °F) | | | | | | |
| 10 | 6.1 bar | 10.9 bar | 8.3 bar | 12.7 bar | 13.2 bar | 12.7 bar |
| 25 | 5.9 bar | 10.6 bar | 8.0 bar | 12.4 bar | 12.6 bar | 12.4 bar |
| 50 | 5.8 bar | 10.3 bar | 7.7 bar | 12.2 bar | 12.1 bar | 12.2 bar |
| at temperature up to 70 °C (158 °F) | | | | | | |
| 10 | 5.1 bar | 8.5 bar | 7.0 bar | 10.7 bar | 11.1 bar | 10.7 bar |
| 25 | 5.0 bar | 8.3 bar | 6.0 bar | 10.4 bar | 9.6 bar | 10.4 bar |
| 50 | 4.9 bar | 8.1 bar | 5.1 bar | 10.2 bar | 8.1 bar | 10.2 bar |
| at temperature up to 75 °C (167 °F) | | | | | | |
| 10 | 4.6 bar | 7.7 bar | 6.0 bar | 9.7 bar | 10.0 bar | 9.7 bar |
| 25 | 4.5 bar | 7.6 bar | 4.8 bar | 9.5 bar | 8.0 bar | 9.5 bar |
| 50 | 4.4 bar | 7.3 bar | 4.0 bar | 9.3 bar | 6.7 bar | 9.3 bar |
| at temperature up to 80 °C (176 °F) | | | | | | |
| 5 | 4.3 bar | 7.2 bar | 5.7 bar | 9.0 bar | 9.2 bar | 9.0 bar |
| 10 | 4.2 bar | 7.0 bar | 4.8 bar | 8.9 bar | 7.8 bar | 8.9 bar |
| 25 | 4.1 bar | 6.8 bar | 3.9 bar | 8.6 bar | 6.2 bar | 8.6 bar |
| at temperature up to 90 °C (194 °F) | | | | | | |
| 5 | 3.5 bar | 5.9 bar | 3.7 bar | 7.4 bar | 6.0 bar | 7.4 bar |
| 10 | 3.4 bar | 5.8 bar | 3.2 bar | 7.3 bar | 5.1 bar | 7.3 bar |

For fittings of butt-welded pipe segments a reduction factor of 0.75 (reduction of the table values by 25 %) is effective.

Permissible working pressure – potable water

(Fluid transported: water acc. to DIN 2000)
Faser composite pipe: high working stress at lower wall thickness and higher flow rate.

| Years of service | aquatherm green SDR 11 S | aquatherm green SDR 7.4 S | aquatherm green SDR 6 S | aquatherm green SDR 7.4 MF | aquatherm green SDR 9 MF RP |
|-------------------------------------|-----------------------------|------------------------------|----------------------------|-------------------------------|--------------------------------|
| at temperature up to 20 °C (68 °F) | | | | | |
| 1 | 15.0 bar | 23.8 bar | 30.0 bar | 28.6 bar | 25.0 bar |
| 5 | 14.1 bar | 22.3 bar | 28.1 bar | 26.8 bar | 24.2 bar |
| 10 | 13.7 bar | 21.7 bar | 27.3 bar | 26.1 bar | 23.9 bar |
| 25 | 13.3 bar | 21.1 bar | 26.5 bar | 25.3 bar | 23.5 bar |
| 50 | 12.9 bar | 20.4 bar | 25.7 bar | 24.5 bar | 23.1 bar |
| at temperature up to 30 °C (86 °F) | | | | | |
| 1 | 12.8 bar | 20.2 bar | 25.5 bar | 24.3 bar | 21.7 bar |
| 5 | 12.0 bar | 19.0 bar | 23.9 bar | 22.8 bar | 21.0 bar |
| 10 | 11.6 bar | 18.3 bar | 23.1 bar | 22.0 bar | 20.6 bar |
| 25 | 11.2 bar | 17.7 bar | 22.3 bar | 21.3 bar | 20.2 bar |
| 50 | 10.9 bar | 17.3 bar | 21.8 bar | 20.7 bar | 19.9 bar |
| at temperature up to 40 °C (104 °F) | | | | | |
| 1 | - | 17.1 bar | 21.5 bar | 20.5 bar | 18.7 bar |
| 5 | - | 16.0 bar | 20.2 bar | 19.2 bar | 18.0 bar |
| 10 | - | 15.6 bar | 19.6 bar | 18.7 bar | 17.7 bar |
| 25 | - | 15.0 bar | 18.8 bar | 18.0 bar | 17.3 bar |
| 50 | - | 14.5 bar | 18.3 bar | 17.5 bar | 17.1 bar |
| at temperature up to 50 °C (122 °F) | | | | | |
| 1 | - | 14.5 bar | 18.3 bar | 17.5 bar | 15.9 bar |
| 5 | - | 13.5 bar | 17.0 bar | 16.2 bar | 15.3 bar |
| 10 | - | 13.1 bar | 16.5 bar | 15.7 bar | 15.1 bar |
| 25 | - | 12.6 bar | 15.9 bar | 15.2 bar | 14.7 bar |
| 50 | - | 12.2 bar | 15.4 bar | 14.7 bar | 14.5 bar |
| at temperature up to 60 °C (140 °F) | | | | | |
| 1 | - | 12.2 bar | 15.4 bar | 14.7 bar | 13.5 bar |
| 5 | - | 11.4 bar | 14.3 bar | 13.7 bar | 13.0 bar |
| 10 | - | 11.0 bar | 13.8 bar | 13.2 bar | 12.7 bar |
| 25 | - | 10.5 bar | 13.3 bar | 12.6 bar | 12.4 bar |
| 50 | - | 10.1 bar | 12.7 bar | 12.1 bar | 12.2 bar |
| at temperature up to 65 °C (149 °F) | | | | | |
| 1 | - | 11.6 bar | 14.6 bar | 13.9 bar | 12.4 bar |
| 5 | - | 10.8 bar | 13.6 bar | 12.9 bar | 11.9 bar |
| 10 | - | 10.4 bar | 13.1 bar | 12.5 bar | 11.7 bar |
| 25 | - | 10.0 bar | 12.6 bar | 12.0 bar | 11.4 bar |
| 50 | - | 8.8 bar | 11.1 bar | 10.6 bar | 11.2 bar |
| at temperature up to 70 °C (158 °F) | | | | | |
| 1 | - | 10.3 bar | 13.0 bar | 12.4 bar | 11.4 bar |
| 5 | - | 9.5 bar | 11.9 bar | 11.4 bar | 10.9 bar |
| 10 | - | 9.3 bar | 11.7 bar | 11.1 bar | 10.7 bar |
| 25 | - | 8.0 bar | 10.1 bar | 9.6 bar | 10.4 bar |
| 30 | - | 7.0 bar | 8.8 bar | 9.3 bar | 10.3 bar |
| 50 | - | 6.7 bar | 8.5 bar | 8.1 bar | 10.2 bar |



The determination of the allowable pressures resulted from the specific conditions to which pipe system components in the drinking water domestic installation are exposed to.

Limiting factors such as increased flow rates, the use of disinfectants, increased content of oxygen, etc. were considered by the use of the appropriate safety factors.

For fittings of butt-welded pipe segments a reduction factor of 0.75 (reduction of the table values by 25 %) is effective.

| Article no. | Article no. (old) | Page | Article no. | Article no. (old) | Page |
|-------------|-------------------|------|-------------|-------------------|------|
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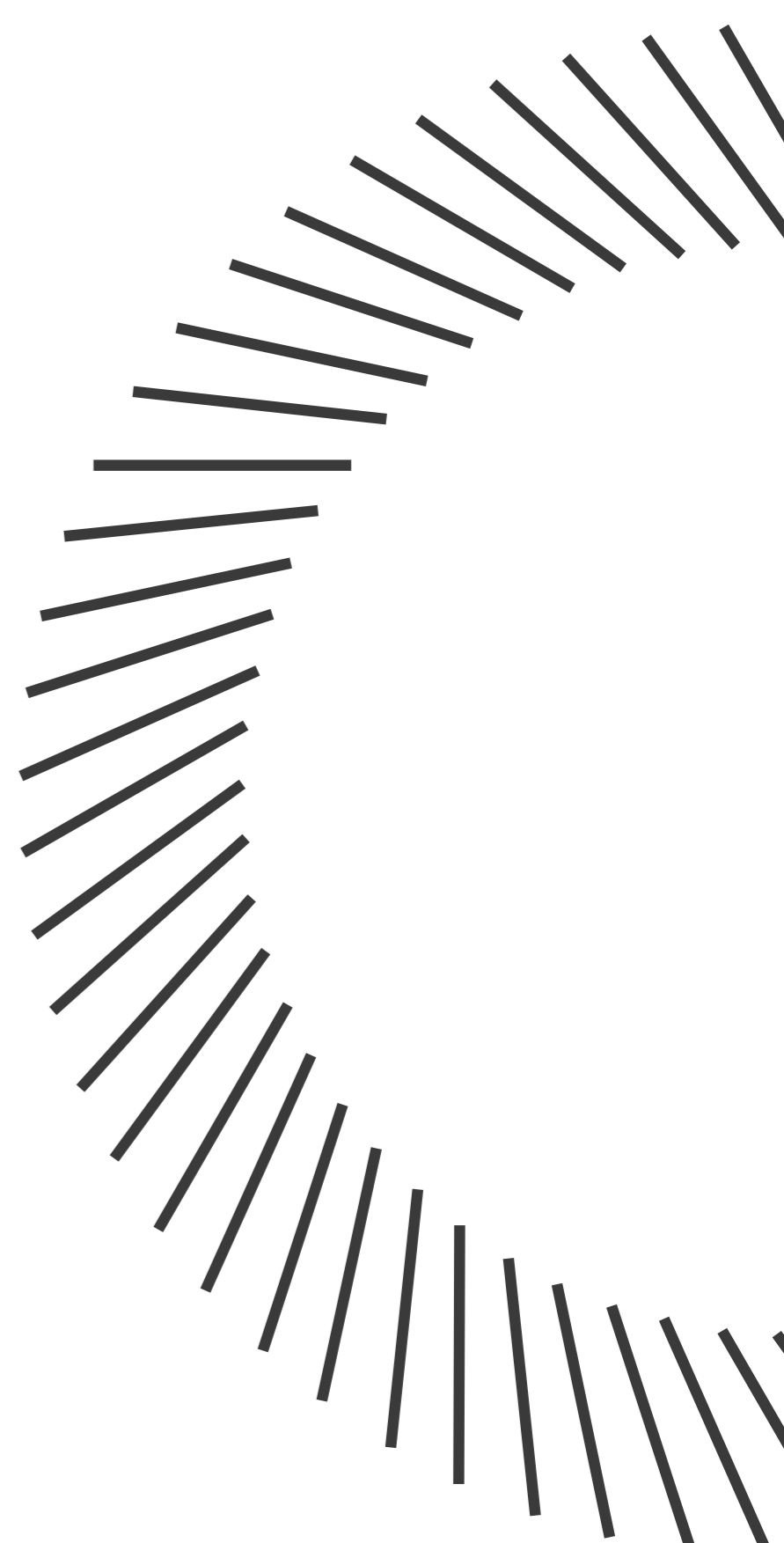
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| Article no. | Article no. (old) | Page |
|-------------|-------------------|------|
| 4510242000 | 6428060 | 13 |
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| Article no. | Article no. (old) | Page |
|-------------|-------------------|------|
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| Article no. | Article no. (old) | Page |
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| 4610522000 | - | 12 |
| 4610560600 | - | 12 |
| 4610560800 | - | 12 |
| 4610561000 | - | 12 |
| 4610561200 | - | 12 |
| 4610561400 | - | 12 |
| 4610561600 | - | 12 |
| 4610561800 | - | 12 |
| 4610562000 | - | 12 |
| 4610600600 | - | 12 |
| 4610600800 | - | 12 |
| 4610601000 | - | 12 |
| 4610601200 | - | 12 |
| 4610601400 | - | 12 |
| 4610601600 | - | 12 |
| 4610601800 | - | 12 |
| 4610602000 | - | 12 |

| Article no. | Article no. (old) | Page |
|-------------|-------------------|------|
| 9600081074 | - | 22 |
| 9600092106 | 92108 | 24 |
| 9600092108 | 50186 | 24 |
| 9700081284 | - | 22 |
| 9700081304 | - | 26 |
| 9700094418 | 94102 | 24 |
| 9700094422 | 94103 | 24 |
| 9700094423 | 94418 | 24 |
| 9700094425 | 94419 | 25 |
| 9700094426 | 94420 | 25 |
| 9700094506 | 94421 | 23 |
| 9700094603 | 94422 | 23 |
| 9700094604 | 94423 | 23 |
| 9700094605 | 94424 | 23 |
| 9700094606 | 94425 | 23 |
| 9800050283 | 94426 | 27 |
| 9800050285 | 94502 | 27 |
| 9700094102 | 94503 | 24 |
| 9700094103 | 94504 | 24 |
| 9700094419 | 94505 | 24 |
| 9700094420 | 94506 | 24 |
| 9700094421 | 94507 | 25 |
| 9700094424 | 94508 | 25 |
| 9700094502 | 94509 | 23 |
| 9700094503 | 94510 | 23 |
| 9700094504 | 94511 | 23 |
| 9700094505 | 94512 | 23 |
| 9700094507 | 94513 | 23 |
| 9700094508 | - | 23 |
| 9700094509 | - | 23 |
| 9700094510 | - | 23 |
| 9700094511 | - | 23 |
| 9700094512 | - | 23 |
| 9700094513 | - | 23 |
| 9700094602 | - | 23 |



| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1020020002 | 14108 | 49 |
| 1020025003 | 14110 | 49 |
| 1020032004 | 14112 | 49 |
| 1020040005 | 14114 | 49 |
| 1020050006 | 14116 | 49 |
| 1020063007 | 14118 | 49 |
| 1020075008 | 14120 | 49 |
| 1020090009 | 14122 | 49 |
| 1020110010 | 14124 | 49 |
| 1020125011 | 14126 | 49 |
| 1024160013 | 14131 | 49 |
| 1024200015 | 14135 | 49 |
| 1024250017 | 14139 | 49 |
| 1024315018 | 14143 | 49 |
| 1024355019 | 14145 | 49 |
| 1024400020 | 14147 | 49 |
| 1024450021 | 14149 | 49 |
| 1030040001 | 15156 | 57 |
| 1030040002 | 15158 | 57 |
| 1030040100 | 28214 | 59 |
| 1030040101 | 28234 | 59 |
| 1030040102 | 28314 | 60 |
| 1030040103 | 28334 | 60 |
| 1030040104 | 928214 | 60 |
| 1030040105 | 928234 | 60 |
| 1030050003 | 15160 | 57 |
| 1030050004 | 15162 | 57 |
| 1030050106 | 28216 | 59 |
| 1030050107 | 28236 | 59 |
| 1030050108 | 28316 | 60 |
| 1030050109 | 28336 | 60 |
| 1030050110 | 928216 | 60 |
| 1030050111 | 928236 | 60 |
| 1030063005 | 15164 | 57 |
| 1030063006 | 15166 | 57 |
| 1030063007 | 15168 | 57 |
| 1030063112 | 28218 | 59 |
| 1030063113 | 28238 | 59 |
| 1030063114 | 28318 | 60 |
| 1030063115 | 28338 | 60 |
| 1030063116 | 928218 | 60 |
| 1030063117 | 928238 | 60 |
| 1030075008 | 15170 | 57 |
| 1030075009 | 15172 | 57 |
| 1030075010 | 15174 | 57 |
| 1030075011 | 15175 | 57 |
| 1030075118 | 28220 | 59 |
| 1030075119 | 28240 | 59 |
| 1030075120 | 28260 | 59 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1030075121 | 28320 | 60 |
| 1030075122 | 28340 | 60 |
| 1030075123 | 928220 | 60 |
| 1030075124 | 928240 | 60 |
| 1030075125 | 928260 | 60 |
| 1030090012 | 15176 | 57 |
| 1030090013 | 15178 | 57 |
| 1030090014 | 15180 | 57 |
| 1030090015 | 15181 | 57 |
| 1030090126 | 28222 | 59 |
| 1030090127 | 28242 | 59 |
| 1030090128 | 28262 | 59 |
| 1030090129 | 28322 | 60 |
| 1030090130 | 28342 | 60 |
| 1030090131 | 928222 | 60 |
| 1030090132 | 928242 | 60 |
| 1030090133 | 928262 | 60 |
| 1030110016 | 15182 | 57 |
| 1030110017 | 15184 | 57 |
| 1030110018 | 15186 | 57 |
| 1030110019 | 15188 | 57 |
| 1030110020 | 15189 | 57 |
| 1030110134 | 28224 | 59 |
| 1030110135 | 28244 | 59 |
| 1030110136 | 28264 | 59 |
| 1030110137 | 28324 | 60 |
| 1030110138 | 28344 | 60 |
| 1030110139 | 928224 | 60 |
| 1030110140 | 928244 | 60 |
| 1030110141 | 928264 | 60 |
| 1030125021 | 15190 | 57 |
| 1030125022 | 15192 | 57 |
| 1030125023 | 15194 | 57 |
| 1030125024 | 15196 | 57 |
| 1030125025 | 15197 | 57 |
| 1030125026 | 15198 | 57 |
| 1030125142 | 28226 | 59 |
| 1030125143 | 28246 | 59 |
| 1030125144 | 28266 | 59 |
| 1030125145 | 28326 | 60 |
| 1030125146 | 28346 | 60 |
| 1030125147 | 928226 | 60 |
| 1030125148 | 928246 | 60 |
| 1030125149 | 928266 | 60 |
| 1030160027 | 15206 | 57 |
| 1030160028 | 15208 | 57 |
| 1030160029 | 15210 | 58 |
| 1030160030 | 15212 | 58 |
| 1030160031 | 15214 | 58 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1030160032 | 15216 | 58 |
| 1030160033 | 15218 | 58 |
| 1030160034 | 15220 | 58 |
| 1030160150 | 28230 | 59 |
| 1030160151 | 28250 | 59 |
| 1030160152 | 28270 | 59 |
| 1030160153 | 28330 | 60 |
| 1030160154 | 28350 | 60 |
| 1030160155 | 928230 | 60 |
| 1030160156 | 928250 | 60 |
| 1030160157 | 928270 | 60 |
| 1030200038 | 15231 | 58 |
| 1030200039 | 15232 | 58 |
| 1030200040 | 15233 | 58 |
| 1030200041 | 15234 | 58 |
| 1030200042 | 15235 | 58 |
| 1030200043 | 15236 | 58 |
| 1030200044 | 15237 | 58 |
| 1030250035 | 15228 | 58 |
| 1030250036 | 15229 | 58 |
| 1030250037 | 15230 | 58 |
| 1030250045 | 15251 | 58 |
| 1030250046 | 15252 | 58 |
| 1030250047 | 15253 | 58 |
| 1030250048 | 15254 | 58 |
| 1030250049 | 15255 | 58 |
| 1030250050 | 15256 | 58 |
| 1030250051 | 15257 | 58 |
| 1030250158 | 28232 | 59 |
| 1030250159 | 28254 | 59 |
| 1030250160 | 28274 | 59 |
| 1030250161 | 928232 | 60 |
| 1030250162 | 928254 | 60 |
| 1030250163 | 928274 | 60 |
| 1030315052 | 15260 | 58 |
| 1030315053 | 15261 | 58 |
| 1030315054 | 15262 | 58 |
| 1030315055 | 15263 | 58 |
| 1030315056 | 15264 | 58 |
| 1030355058 | 15268 | 58 |
| 1030355059 | 15269 | 58 |
| 1030355060 | 15270 | 58 |
| 1030400064 | 15278 | 58 |
| 1030450063 | 15277 | 58 |
| 1030500062 | 15275 | 58 |
| 1030500065 | 15288 | 58 |
| 1030500066 | 15290 | 58 |
| 1030560068 | 15303 | 58 |
| 1030630067 | 15300 | 58 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1030630069 | 15315 | 58 |
| 1030630070 | 15316 | 58 |
| 1030630071 | 15318 | 58 |
| 1030630072 | 15331 | 58 |
| 1033315073 | 315265 | 59 |
| 1033355074 | 315271 | 59 |
| 1034315057 | 15265 | 59 |
| 1034355061 | 15271 | 59 |
| 1040020002 | 11008 | 35 |
| 1040020090 | 13708 | 48 |
| 1040020094 | 17208 | 35 |
| 1040020151 | 20108 | 72 |
| 1040020152 | 20110 | 72 |
| 1040020156 | 20158 | 72 |
| 1040025003 | 11010 | 35 |
| 1040025022 | 11112 | 50 |
| 1040025091 | 13710 | 48 |
| 1040025100 | 17210 | 35 |
| 1040025153 | 20112 | 72 |
| 1040025154 | 20113 | 72 |
| 1040032004 | 11012 | 35 |
| 1040032023 | 11114 | 50 |
| 1040032024 | 11116 | 50 |
| 1040032092 | 13712 | 48 |
| 1040032101 | 17212 | 35 |
| 1040032130 | 15712 | 66 |
| 1040040005 | 11014 | 35 |
| 1040040025 | 11118 | 50 |
| 1040040026 | 11120 | 50 |
| 1040040027 | 11122 | 50 |
| 1040040073 | 11222 | 51 |
| 1040040093 | 13714 | 48 |
| 1040040102 | 17214 | 35 |
| 1040040131 | 15714 | 66 |
| 1040050006 | 11016 | 35 |
| 1040050028 | 11124 | 50 |
| 1040050029 | 11126 | 50 |
| 1040050030 | 11128 | 50 |
| 1040050031 | 11130 | 50 |
| 1040050074 | 11228 | 51 |
| 1040050075 | 11230 | 51 |
| 1040050103 | 17216 | 35 |
| 1040050132 | 15716 | 66 |
| 1040063007 | 11018 | 35 |
| 1040063032 | 11131 | 50 |
| 1040063033 | 11132 | 50 |
| 1040063034 | 11134 | 50 |
| 1040063035 | 11136 | 50 |
| 1040063036 | 11138 | 50 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1040063076 | 11236 | 51 |
| 1040063077 | 11238 | 51 |
| 1040063104 | 17218 | 35 |
| 1040063133 | 15718 | 66 |
| 1040075008 | 11020 | 35 |
| 1040075037 | 11139 | 50 |
| 1040075038 | 11140 | 50 |
| 1040075039 | 11142 | 50 |
| 1040075040 | 11143 | 50 |
| 1040075041 | 11144 | 50 |
| 1040075042 | 11145 | 50 |
| 1040075078 | 11240 | 51 |
| 1040075079 | 11242 | 51 |
| 1040075105 | 17220 | 35 |
| 1040075134 | 15720 | 66 |
| 1040090009 | 11022 | 35 |
| 1040090043 | 11151 | 50 |
| 1040090044 | 11152 | 50 |
| 1040090045 | 11153 | 50 |
| 1040090080 | 11252 | 51 |
| 1040090081 | 11253 | 51 |
| 1040090106 | 17222 | 35 |
| 1040090135 | 15722 | 66 |
| 1040110010 | 11024 | 35 |
| 1040110046 | 11155 | 50 |
| 1040110047 | 11157 | 50 |
| 1040110048 | 11159 | 50 |
| 1040110082 | 11257 | 51 |
| 1040110083 | 11259 | 51 |
| 1040110107 | 17224 | 35 |
| 1040110136 | 15724 | 66 |
| 1040125011 | 11026 | 35 |
| 1040125049 | 11161 | 50 |
| 1040125050 | 11163 | 50 |
| 1040125051 | 11165 | 50 |
| 1040125084 | 11263 | 51 |
| 1040125085 | 11265 | 51 |
| 1040125108 | 17226 | 35 |
| 1040125137 | 15726 | 66 |
| 1040160109 | 17230 | 35 |
| 1040160138 | 15730 | 66 |
| 1040200110 | 17234 | 35 |
| 1040200139 | 15734 | 66 |
| 1040250111 | 17238 | 35 |
| 1040250140 | 15738 | 66 |
| 1040315141 | 15742 | 66 |
| 1040355142 | 15744 | 66 |
| 1040400143 | 15746 | 66 |
| 1040450144 | 15748 | 66 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1040500145 | 15750 | 66 |
| 1040630146 | 15754 | 66 |
| 1044160053 | 11175 | 51 |
| 1044160055 | 11177 | 51 |
| 1044200057 | 11183 | 51 |
| 1044200059 | 11185 | 52 |
| 1044250061 | 11189 | 52 |
| 1044250063 | 11191 | 52 |
| 1044315065 | 11195 | 52 |
| 1044355066 | 11197 | 52 |
| 1044355067 | 11199 | 52 |
| 1044400069 | 11203 | 52 |
| 1044400070 | 11204 | 52 |
| 1044450071 | 11206 | 52 |
| 1044450072 | 11207 | 52 |
| 1044450073 | 11208 | 52 |
| 1050000130 | 27510 | 64 |
| 1050000131 | 27512 | 64 |
| 1050000132 | 27514 | 64 |
| 1050000133 | 27516 | 64 |
| 1050000134 | 27518 | 64 |
| 1050000135 | 27520 | 64 |
| 1050000138 | 27710 | 64 |
| 1050000139 | 27712 | 64 |
| 1050000140 | 27714 | 64 |
| 1050000141 | 27716 | 64 |
| 1050000142 | 27718 | 64 |
| 1050000143 | 27720 | 64 |
| 1050000180 | - | 69 |
| 1050000181 | - | 69 |
| 1050000182 | - | 69 |
| 1050020050 | 15838 | 62 |
| 1050020060 | 20204 | 73 |
| 1050020062 | 20208 | 72 |
| 1050020064 | 20210 | 73 |
| 1050020070 | 26608 | 63 |
| 1050020076 | 26638 | 63 |
| 1050020082 | 26708 | 62 |
| 1050020090 | 26808 | 61 |
| 1050020097 | 27010 | 63 |
| 1050020110 | 27310 | 64 |
| 1050020150 | 40858 | 70 |
| 1050020153 | 40868 | 70 |
| 1050020156 | 40878 | 71 |
| 1050020159 | 40888 | 70 |
| 1050020162 | 41108 | 71 |
| 1050020170 | 41208 | 71 |
| 1050020174 | - | 68 |
| 1050020183 | 41408 | 72 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1050025016 | 30115 | 76 |
| 1050025051 | 15840 | 62 |
| 1050025063 | 20209 | 72 |
| 1050025071 | 26610 | 63 |
| 1050025077 | 26640 | 63 |
| 1050025083 | 26710 | 62 |
| 1050025091 | 26810 | 61 |
| 1050025098 | 27011 | 63 |
| 1050025099 | 27012 | 63 |
| 1050025111 | 27311 | 64 |
| 1050025112 | 27312 | 64 |
| 1050025151 | 40860 | 70 |
| 1050025154 | 40870 | 70 |
| 1050025157 | 40880 | 71 |
| 1050025160 | 40890 | 70 |
| 1050025163 | 41110 | 71 |
| 1050025171 | 41210 | 71 |
| 1050025175 | - | 68 |
| 1050025184 | 41410 | 72 |
| 1050032001 | 15012 | 66 |
| 1050032020 | 15512 | 65 |
| 1050032040 | 15812 | 62 |
| 1050032052 | 15842 | 62 |
| | | |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1054160030 | 15531 | 65 |
| 1054200032 | 15535 | 65 |
| 1054250034 | 15539 | 65 |
| 1054315035 | 15543 | 65 |
| 1054355036 | 15545 | 65 |
| 1054400037 | 15547 | 65 |
| 1054450038 | 15549 | 65 |
| 1060020016 | 13108 | 41 |
| 1060020033 | 13511 | 44 |
| 1060020141 | 25006 | 56 |
| 1060020142 | 25008 | 56 |
| 1060020154 | 25506 | 61 |
| 1060020160 | 925006 | 56 |
| 1060020161 | 925008 | 56 |
| 1060025017 | 13110 | 41 |
| 1060025037 | 13520 | 44 |
| 1060025038 | 13522 | 44 |
| 1060025143 | 25010 | 56 |
| 1060025144 | 25012 | 56 |
| 1060025162 | 925010 | 56 |
| 1060025163 | 925012 | 56 |
| 1060032018 | 13112 | 41 |
| 1060032039 | 13528 | 44 |
| 1060032040 | 13532 | 44 |
| 1060032041 | 13534 | 44 |
| 1060032042 | 13538 | 44 |
| 1060032043 | 13540 | 44 |
| 1060032145 | 25013 | 56 |
| 1060032146 | 25014 | 56 |
| 1060032147 | 25016 | 56 |
| 1060032164 | 925013 | 56 |
| 1060032165 | 925014 | 56 |
| 1060032166 | 925016 | 56 |
| 1060040019 | 13114 | 41 |
| 1060040044 | 13542 | 44 |
| 1060040045 | 13544 | 44 |
| 1060040046 | 13546 | 44 |
| 1060040148 | 25018 | 56 |
| 1060040149 | 25019 | 56 |
| 1060040150 | 25020 | 56 |
| 1060050020 | 13116 | 41 |
| 1060050047 | 13547 | 44 |
| 1060050048 | 13548 | 44 |
| 1060050049 | 13550 | 44 |
| 1060050050 | 13551 | 44 |
| 1060050151 | 25022 | 56 |
| 1060050152 | 25030 | 56 |
| 1060050153 | 25031 | 56 |
| 1060063021 | 13118 | 41 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1060063051 | 13552 | 44 |
| 1060063052 | 13554 | 44 |
| 1060063053 | 13556 | 44 |
| 1060063054 | 13558 | 44 |
| 1060063055 | 13560 | 44 |
| 1060075022 | 13120 | 41 |
| 1060075056 | 13561 | 44 |
| 1060075057 | 13562 | 44 |
| 1060075058 | 13564 | 44 |
| 1060075059 | 13566 | 44 |
| 1060075060 | 13568 | 44 |
| 1060075061 | 13570 | 44 |
| 1060090023 | 13122 | 41 |
| 1060090062 | 13576 | 44 |
| 1060090063 | 13578 | 44 |
| 1060090064 | 13580 | 44 |
| 1060090065 | 13582 | 44 |
| 1060090066 | 13584 | 44 |
| 1060110024 | 13124 | 41 |
| 1060110067 | 13586 | 44 |
| 1060110068 | 13588 | 44 |
| 1060110069 | 13590 | 44 |
| 1060125025 | 13126 | 41 |
| 1060125070 | 13592 | 44 |
| 1060125071 | 13594 | 44 |
| 1060125072 | 13596 | 44 |
| 1064160013 | 13131 | 42 |
| 1064160074 | 13601 | 45 |
| 1064160076 | 13603 | 45 |
| 1064160078 | 13607 | 45 |
| 1064200015 | 13135 | 42 |
| 1064250017 | 13139 | 42 |
| 1070016007 | 21106 | 53 |
| 1070016026 | 21306 | 54 |
| 1070020002 | 21008 | 57 |
| 1070020003 | 21010 | 57 |
| 1070020008 | 21108 | 53 |
| 1070020009 | 21110 | 53 |
| 1070020022 | 21208 | 53 |
| 1070020023 | 21210 | 53 |
| 1070020027 | 21308 | 54 |
| 1070020028 | 21310 | 54 |
| 1070020051 | 21258 | 53 |
| 1070020054 | 21355 | 55 |
| 1070020056 | 21358 | 54 |
| 1070020060 | 921008 | 57 |
| 1070020061 | 921010 | 57 |
| 1070020074 | 921208 | 53 |
| 1070020075 | 921210 | 53 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1070020091 | 23008 | 55 |
| 1070020092 | 23010 | 55 |
| 1070020097 | 23208 | 55 |
| 1070020099 | 23506 | 56 |
| 1070020100 | 23508 | 56 |
| 1070020110 | 923008 | 55 |
| 1070020111 | 923010 | 55 |
| 1070020117 | 923506 | 56 |
| 1070020118 | 923508 | 56 |
| 1070025004 | 21011 | 57 |
| 1070025005 | 21012 | 57 |
| 1070025010 | 21111 | 53 |
| 1070025011 | 21112 | 53 |
| 1070025024 | 21211 | 53 |
| 1070025025 | 21212 | 53 |
| 1070025029 | 21311 | 54 |
| 1070025030 | 21312 | 54 |
| 1070025052 | 21261 | 53 |
| 1070025053 | 21262 | 53 |
| 1070025062 | 921011 | 57 |
| 1070025063 | 921012 | 57 |
| 1070025076 | 921211 | 53 |
| 1070025077 | 921212 | 53 |
| 1070025093 | 23012 | 55 |
| 1070025094 | 23014 | 55 |
| 1070025101 | 23510 | 56 |
| 1070025112 | 923012 | 55 |
| 1070025113 | 923014 | 55 |
| 1070025119 | 923510 | 56 |
| 1070032006 | 21013 | 57 |
| 1070032012 | 21113 | 53 |
| 1070032013 | 21114 | 53 |
| 1070032026 | 21213 | 53 |
| 1070032031 | 21314 | 54 |
| 1070032032 | 21316 | 54 |
| 1070032064 | 921013 | 57 |
| 1070032065 | 921014 | 57 |
| 1070032066 | 921114 | 53 |
| 1070032078 | 921213 | 53 |
| 1070032079 | 921314 | 54 |
| 1070032080 | 921316 | 54 |
| 1070032095 | 23016 | 55 |
| 1070032096 | 23018 | 55 |
| 1070032102 | 23512 | 56 |
| 1070032103 | 23514 | 56 |
| 1070032114 | 923015 | 55 |
| 1070032115 | 923016 | 55 |
| 1070032116 | 923018 | 55 |
| 1070032120 | 923512 | 56 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1070040014 | 21115 | 53 |
| 1070040015 | 21116 | 53 |
| 1070040033 | 21317 | 54 |
| 1070040034 | 21318 | 54 |
| 1070040067 | 921115 | 53 |
| 1070040068 | 921116 | 53 |
| 1070040081 | 921317 | 54 |
| 1070040082 | 921318 | 54 |
| 1070050016 | 21117 | 53 |
| 1070050017 | 21118 | 53 |
| 1070050035 | 21319 | 54 |
| 1070050036 | 21320 | 54 |
| 1070050069 | 921117 | 53 |
| 1070050070 | 921118 | 53 |
| 1070050083 | 921319 | 54 |
| 1070050084 | 921320 | 54 |
| 1070063018 | 21119 | 53 |
| 1070063019 | 21120 | 53 |
| 1070063037 | 21321 | 54 |
| 1070063038 | 21322 | 54 |
| 1070063071 | 921119 | 53 |
| 1070063072 | 921120 | 53 |
| 1070063085 | 921321 | 54 |
| 1070063086 | 921322 | 54 |
| 1070075020 | 21122 | 53 |
| 1070075039 | 21323 | 54 |
| 1070075040 | 21324 | 54 |
| 1070075073 | - | 68 |
| 1070075087 | 921323 | 54 |
| 1070090041 | 21325 | 54 |
| 1070110042 | 21327 | 54 |
| 1080020002 | 12508 | 39 |
| 1080020020 | 12708 | 40 |
| 1080020021 | 12710 | 40 |
| 1080020041 | 12108 | 37 |
| 1080020061 | 12308 | 38 |
| 1080025003 | 12510 | 39 |
| 1080025042 | 12110 | 37 |
| 1080025062 | 12310 | 38 |
| 1080032004 | 12512 | 39 |
| 1080032022 | 12712 | 40 |
| 1080032043 | 12112 | 37 |
| 1080032063 | 12312 | 38 |
| 1080040005 | 12514 | 39 |
| 1080040023 | 12714 | 40 |
| 1080040044 | 12114 | 37 |
| 1080040064 | 12314 | 38 |
| 1080050006 | 12516 | 39 |
| 1080050045 | 12116 | 37 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1080063007 | 12518 | 39 |
| 1080063046 | 12118 | 37 |
| 1080075008 | 12520 | 39 |
| 1080075047 | 12120 | 37 |
| 1080090009 | 12522 | 39 |
| 1080090048 | 12122 | 37 |
| 1080110010 | 12524 | 39 |
| 1080110049 | 12124 | 37 |
| 1080125011 | 12526 | 39 |
| 1080125050 | 12126 | 37 |
| 1084160013 | 12531 | 40 |
| 1084160052 | 12131 | 38 |
| 1084200015 | 12535 | 40 |
| 1084200054 | 12135 | 38 |
| 1084250017 | 12539 | 40 |
| 1084250056 | 12139 | 38 |
| 1090020002 | 16108 | 48 |
| 1090020040 | 40808 | 70 |
| 1090020046 | 40908 | 71 |
| 1090020052 | 41488 | 67 |
| 1090020070 | 920108 | 72 |
| 1090020071 | 920110 | 72 |
| 1090020074 | 920158 | 72 |
| 1090025003 | 16110 | 48 |
| 1090025041 | 40810 | 70 |
| 1090025047 | 40910 | 71 |
| 1090025053 | 41490 | 67 |
| 1090025072 | 920112 | 72 |
| 1090025073 | 920113 | 72 |
| 1090032004 | 16112 | 48 |
| 1090032032 | 30602 | 75 |
| 1090032033 | 30604 | 75 |
| 1090032034 | 30804 | 75 |
| 1090032042 | 40812 | 70 |
| 1090032048 | 40912 | 71 |
| 1090032054 | 41492 | 67 |
| 1090040043 | 40814 | 70 |
| 1090040049 | 40914 | 71 |
| 1090040055 | 41494 | 67 |
| 1090050056 | 41496 | 67 |
| 1090063057 | 41498 | 67 |
| 1090075010 | 16175 | 61 |
| 1090075051 | 41400 | 67 |
| 1090090011 | 16181 | 61 |
| 1090090058 | 41602 | 67 |
| 1090110012 | 16188 | 61 |
| 1090110059 | 41604 | 67 |
| 1090125013 | 16196 | 61 |
| 1090125014 | 16198 | 61 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1090160015 | 16212 | 61 |
| 1090160016 | 16216 | 61 |
| 1090160060 | 41607 | 67 |
| 1090200017 | 16231 | 61 |
| 1090200018 | 16233 | 61 |
| 1090250019 | 16251 | 61 |
| 1090250020 | 16253 | 61 |
| 1090315021 | 16260 | 61 |
| 1090400022 | 16300 | 61 |
| 2012020006 | 2070708 | 30 |
| 2012025008 | 2070710 | 30 |
| 2013032010 | 2071112 | 31 |
| 2014020006 | 2010208 | 32 |
| 2014020306 | 2010308 | 32 |
| 2014025008 | 2010210 | 32 |
| 2014025308 | 2010310 | 32 |
| 2014040012 | 2071114 | 32 |
| 2014050014 | 2071116 | 32 |
| 2014063016 | 2071118 | 32 |
| 2014075018 | 2071120 | 32 |
| 2014090020 | 2071122 | 32 |
| 2014110022 | 2071124 | 32 |
| 2014125024 | 2071126 | 32 |
| 2014160026 | 2071130 | 32 |
| 2014200028 | 2071134 | 32 |
| 2014250030 | 2071138 | 32 |
| 2014315032 | 2071142 | 32 |
| 2014355034 | 2071144 | 32 |
| 2014400036 | 2071146 | 32 |
| 2014450038 | 2071148 | 32 |
| 2017125224 | 3570125 | 34 |
| 2017160026 | 3570130 | 34 |
| 2017200028 | 3570134 | 34 |
| 2017250030 | 3570138 | 34 |
| 2017315032 | 3570142 | 34 |
| 2017355034 | 3570144 | 34 |
| 2017400036 | 3570146 | 34 |
| 2017450038 | 3570148 | 34 |
| 2017500040 | 3570150 | 34 |
| 2017630042 | 3570154 | 34 |
| 2027160001 | 2514130 | 49 |
| 2027200002 | 2514134 | 49 |
| 2027250003 | 2514138 | 49 |
| 2027315004 | 2514142 | 49 |
| 2027355005 | 2514144 | 49 |
| 2027400006 | 2514146 | 49 |
| 2027450007 | 2514148 | 49 |
| 2027500008 | 2514150 | 49 |
| 2027630009 | 2514154 | 49 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 2047160001 | 2511174 | 51 |
| 2047160002 | 2511176 | 51 |
| 2047200003 | 2511182 | 51 |
| 2047200004 | 2511184 | 52 |
| 2047250005 | 2511188 | 52 |
| 2047250006 | 2511190 | 52 |
| 2047315007 | - | 52 |
| 2047315009 | 2511195 | 52 |
| 2047355010 | 2511197 | 52 |
| 2047355011 | 2511199 | 52 |
| 2047400013 | 2511203 | 52 |
| 2047400014 | 2511204 | 52 |
| 2047400015 | 2511201 | 52 |
| 2047450016 | 2511207 | 52 |
| 2047450017 | 2511208 | 52 |
| 2047450018 | 2511206 | 52 |
| 2047500019 | 2511210 | 52 |
| 2047500020 | 2511211 | 52 |
| 2047500021 | 2511212 | |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 2057250062 | 2513238 | 43 |
| 2057250082 | 2512638 | 41 |
| 2057250092 | 2512238 | 39 |
| 2057250102 | 2515538 | 65 |
| 2057315011 | 17542 | 36 |
| 2057315043 | 2514242 | 37 |
| 2057315063 | 2513242 | 43 |
| 2057315083 | 2512642 | 41 |
| 2057315093 | 2512242 | 39 |
| 2057315103 | 2515542 | 65 |
| 2057355013 | 17544 | 36 |
| 2057355044 | 2514244 | 37 |
| 2057355064 | 2513244 | 43 |
| 2057355084 | 2512644 | 41 |
| 2057355094 | 2512244 | 39 |
| 2057355104 | 2515544 | 65 |
| 2057400015 | 17546 | 36 |
| 2057400045 | 2514246 | 37 |
| 2057400065 | 2513246 | 43 |
| 2057400085 | 2512646 | 41 |
| 2057400095 | 2512246 | 39 |
| 2057400105 | 2515546 | 65 |
| 2057450017 | 17548 | 36 |
| 2057450046 | 2514248 | 37 |
| 2057450066 | 2513248 | 43 |
| 2057450086 | 2512648 | 41 |
| 2057450096 | 2512248 | 39 |
| 2057450106 | 2515548 | 65 |
| 2057500107 | 2515550 | 65 |
| 2057630108 | 2515554 | 65 |
| 2064200020 | 2013609 | 45 |
| 2064200021 | 2013611 | 45 |
| 2064200022 | 2013613 | 45 |
| 2064200023 | 2013615 | 45 |
| 2064200024 | 2013619 | 46 |
| 2064250025 | 2013625 | 45 |
| 2064250026 | 2013627 | 45 |
| 2064250027 | 2013629 | 45 |
| 2064250028 | 2013631 | 45 |
| 2064250029 | 2013635 | 46 |
| 2064250030 | 2013641 | 46 |
| 2064315001 | 2013143 | 42 |
| 2064315031 | 2013651 | 45 |
| 2064315032 | 2013653 | 46 |
| 2064315033 | 2013655 | 46 |
| 2064315034 | 2013657 | 46 |
| 2064355002 | 2013145 | 42 |
| 2064355035 | 2013663 | 45 |
| 2064355036 | 2013665 | 46 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 2064355037 | 2013667 | 46 |
| 2064355038 | 2013669 | 46 |
| 2064355039 | 2013671 | 46 |
| 2064400003 | 2013147 | 42 |
| 2064400040 | 2013676 | 45 |
| 2064400041 | 2013678 | 46 |
| 2064400042 | 2013680 | 46 |
| 2064400043 | 2013682 | 46 |
| 2064400044 | 2013684 | 46 |
| 2064400045 | 2013685 | 46 |
| 2064450004 | 2013149 | 42 |
| 2064450046 | 2013690 | 45 |
| 2064450047 | 2013692 | 46 |
| 2064450048 | 2013694 | 46 |
| 2064450049 | 2013696 | 46 |
| 2064450050 | 2013698 | 46 |
| 2064450051 | 2013699 | 46 |
| 2064450052 | 2013700 | 46 |
| 2067160010 | 2513130 | 42 |
| 2067160060 | 2513600 | 45 |
| 2067160061 | 2513602 | 45 |
| 2067160062 | 2513606 | 45 |
| 2067200011 | 2513134 | 42 |
| 2067200063 | 2513608 | 45 |
| 2067200064 | 2513610 | 45 |
| 2067200065 | 2513612 | 45 |
| 2067200066 | 2513614 | 45 |
| 2067200067 | 2513618 | 47 |
| 2067250012 | 2513138 | 42 |
| 2067250068 | 2513624 | 45 |
| 2067250069 | 2513626 | 45 |
| 2067250070 | 2513628 | 45 |
| 2067250071 | 2513630 | 45 |
| 2067250072 | 2513634 | 47 |
| 2067250073 | 2513640 | 47 |
| 2067315013 | 2513142 | 42 |
| 2067315074 | 2513651 | 45 |
| 2067315075 | 2513653 | 47 |
| 2067315076 | 2513655 | 47 |
| 2067315077 | 2513657 | 47 |
| 2067355014 | 2513144 | 42 |
| 2067355078 | 2513663 | 45 |
| 2067355079 | 2513665 | 47 |
| 2067355080 | 2513667 | 47 |
| 2067355081 | 2513669 | 47 |
| 2067355082 | 2513671 | 47 |
| 2067400015 | 2513146 | 42 |
| 2067400083 | 2513676 | 45 |
| 2067400084 | 2513678 | 47 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 2067400085 | 2513680 | 47 |
| 2067400086 | 2513682 | 47 |
| 2067400087 | 2513684 | 47 |
| 2067400088 | 2513685 | 47 |
| 2067450016 | 2513148 | 42 |
| 2067450089 | 2513690 | 45 |
| 2067450090 | 2513692 | 47 |
| 2067450091 | 2513694 | 47 |
| 2067450092 | 2513696 | 47 |
| 2067450093 | 2513698 | 47 |
| 2067450094 | 2513699 | 47 |
| 2067450095 | 2513700 | 47 |
| 2067500017 | 2513150 | 42 |
| 2067500096 | 2513804 | 45 |
| 2067500097 | 2513806 | 47 |
| 2067500098 | 2513808 | 47 |
| 2067500099 | 2513810 | 47 |
| 2067500100 | 2513812 | 47 |
| 2067500101 | 2513813 | 47 |
| 2067500102 | 2513814 | 47 |
| 2067500103 | 2513815 | 47 |
| 2067630018 | 2513154 | 42 |
| 2067630104 | 2513839 | 45 |
| 2067630105 | 2513841 | 47 |
| 2067630106 | 2513843 | 47 |
| 2067630107 | 2513845 | 47 |
| 2067630108 | 2513847 | 47 |
| 2067630109 | 2513849 | 47 |
| 2067630110 | 2513850 | 47 |
| 2067630111 | 2513851 | 47 |
| 2084063001 | 2013018 | 48 |
| 2084075002 | 2013020 | 48 |
| 2084090003 | 2013022 | 48 |
| 2084110004 | 2013024 | 48 |
| 2084125005 | 2013026 | 48 |
| 2084160007 | 2013031 | 48 |
| 2084200009 | 2013035 | 48 |
| 2084250011 | 2013039 | 48 |
| 2084315026 | 2012543 | 40 |
| 2084315028 | 2012143 | 38 |
| 2084355030 | 2012545 | 40 |
| 2084355032 | 2012145 | 38 |
| 2084400034 | 2012547 | 40 |
| 2084400036 | 2012147 | 38 |
| 2084450038 | 2012549 | 40 |
| 2084450040 | 2012149 | 38 |
| 2087125006 | 2513026 | 48 |
| 2087160008 | 2513030 | 48 |
| 2087160020 | 2512530 | 40 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 2087160021 | 2512130 | 38 |
| 2087200010 | 2513034 | 48 |
| 2087200022 | 2512534 | 40 |
| 2087200023 | 2512134 | 38 |
| 2087250012 | 2513038 | 48 |
| 2087250024 | 2512538 | 40 |
| 2087250025 | 2512138 | 38 |
| 2087315027 | 2512542 | 40 |
| 2087315029 | 2512142 | 38 |
| 2087355031 | 2512544 | 40 |
| 2087355033 | 2512144 | 38 |
| 2087400035 | 2512546 | 40 |
| 2087400037 | 2512146 | 38 |
| 2087450039 | 2512548 | 40 |
| 2087450041 | 2512148 | 38 |
| 2087500042 | 2512550 | 40 |
| 2087500043 | 2512150 | 38 |
| 2087630044 | 2512554 | 40 |
| 2087630045 | 2512154 | 38 |
| 2112020006 | 2170708 | 30 |
| 2112025008 | 2170710 | 30 |
| 2113032010 | 2171712 | 31 |
| 2114040012 | 2170114 | 33 |
| 2114050014 | 2170116 | 33 |
| 2114063016 | 2170118 | 33 |
| 2114075018 | 2170120 | 33 |
| 2114090020 | 2170122 | 33 |
| 2114110022 | 2170124 | 33 |
| 2114125024 | 2170126 | 33 |
| 2114160026 | 2170130 | 33 |
| 2114200028 | 2170134 | 33 |
| 2114250030 | 2170138 | 33 |
| 2212020006 | 2070758 | 30 |
| 2212025008 | 2070760 | 30 |
| 2213032010 | 2071162 | 31 |
| 2214040012 | 2070164 | 33 |
| 2214050014 | 2070166 | 33 |
| 2214063016 | 2070168 | 33 |
| 2214075018 | 2070170 | 33 |
| 2214090020 | 2070172 | 33 |
| 2214110022 | 2070174 | 33 |
| 2214125024 | 2070176 | 33 |
| 2214160026 | 2070180 | 33 |
| 2214200028 | 2070184 | 33 |
| 2214250030 | 2070188 | 33 |
| 2214315032 | 2070192 | 33 |
| 2214355034 | 2070194 | 33 |
| 2214400036 | 2070196 | 33 |
| 2214450038 | 2070198 | 33 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 2217160026 | 2570180 | 34 |
| 2217200028 | 2570184 | 34 |
| 2217250030 | 2570188 | 34 |
| 2217315032 | 2570192 | 34 |
| 2217355034 | 2570194 | 34 |
| 2217400036 | 2570196 | 34 |
| 2217450038 | 2570198 | 34 |
| 2217500040 | 2570200 | 34 |
| 2217630042 | 2570204 | 34 |
| 7020016005 | 60604 | 77 |
| 7020016006 | 60606 | 77 |
| 7020016007 | 60608 | 77 |
| 7020016008 | 60610 | 77 |
| 7040040014 | 60640 | 77 |
| 7050000001 | 60110 | 74 |
| 7050000002 | 60115 | 74 |
| 7050000003 | 60150 | 75 |
| 7050000004 | 60155 | 75 |
| 7050000016 | 79090 | 73 |
| 7050000017 | - | 73 |
| 7050000018 | - | 73 |
| 7050000020 | 60010 | 74 |
| 7090016010 | 60616 | 77 |
| 7090020011 | 60620 | 77 |
| 7090025012 | 60625 | 77 |
| 7090032013 | 60632 | 77 |
| 9600020114 | 20114 | 73 |
| 9600027522 | 27522 | 64 |
| 9600027524 | 27524 | 64 |
| 9600027722 | 27722 | 64 |
| 9600027724 | 27724 | 64 |
| 9600040900 | 40900 | 70 |
| 9600040902 | - | 70 |
| 9600040903 | 40902 | 69 |
| 9600060210 | - | 69 |
| 9600060211 | 60210 | 68 |
| 9600060516 | 60516 | 77 |
| 9600060520 | 60520 | 77 |
| 9600060525 | 60525 | 77 |
| 9600060532 | 60532 | 77 |
| 9600060540 | 60540 | 77 |
| 9600060550 | 60550 | 77 |
| 9600060563 | 60563 | 77 |
| 9600060575 | 60575 | 77 |
| 9600060590 | 60590 | 77 |
| 9600060594 | 60594 | 77 |
| 9600060595 | 60595 | 77 |
| 9600060597 | 60597 | 77 |
| 9600060650 | 60650 | 77 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 9600060654 | 60654 | 77 |
| 9600060658 | 60658 | 77 |
| 9600060660 | 60660 | 77 |
| 9600060768 | 60768 | 77 |
| 9600060770 | 60770 | 77 |
| 9600060774 | 60774 | 77 |
| 9600060778 | 60778 | 77 |
| 9600060780 | 60780 | 77 |
| 9600060782 | 60782 | 77 |
| 9600060784 | 60784 | 77 |
| 9600060786 | 60786 | 77 |
| 9600060790 | 60790 | 77 |
| 9700010871 | 10871 | 76 |
| 9700041489 | 41489 | 68 |
| 9700041491 | 41491 | 68 |
| 9700041493 | 41493 | 68 |
| 9700041495 | 41495 | 68 |
| 9700041497 | 41497 | 68 |
| 9700041499 | 41499 | 68 |
| 9700041589 | 41589 | 68 |
| 9700041591 | 41591 | 68 |
| 9700041593 | 41593 | 68 |
| 9700041595 | 41595 | 68 |
| 9700041597 | 41597 | 68 |
| 9700041599 | 41599 | 68 |
| 9700041603 | 41603 | 68 |
| 9700041605 | 41605 | 68 |
| 9700041608 | 41608 | 68 |
| 9700041703 | 41703 | 68 |
| 9700041705 | 41705 | 68 |
| 9700041708 | 41708 | 68 |
| 9700050230 | 50230 | 76 |
| 9700050231 | 50231 | 76 |
| 9700050232 | 50232 | 76 |
| 9700050233 | 50233 | 76 |
| 9700098900 | 98900 | 68 |
| 9700098901 | 98901 | 68 |
| 9700098902 | 98902 | 68 |
| 9700098903 | 98903 | 68 |
| 9702041820 | 2041820 | 69 |
| 9702041822 | 2041822 | 69 |
| 9702041824 | 2041824 | 69 |
| 9702041826 | 2041826 | 69 |
| 9702041830 | 2041830 | 69 |
| 9702041834 | 2041834 | 69 |
| 9702041838 | 2041838 | 69 |
| 9702041842 | 2041842 | 69 |
| 9702541830 | 2541830 | 69 |
| 9702541834 | 2541834 | 69 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 9702541838 | 2541838 | 69 |
| 9702541842 | 2541842 | 69 |
| 9800050530 | 50530 | 76 |
| 9800050533 | 50533 | 76 |
| 9800050534 | 50534 | 76 |
| 9800050535 | 50535 | 76 |
| 9800050700 | 50700 | 74 |
| 9800050708 | 50708 | 74 |
| 9800050710 | 50710 | 74 |

| Article no. | Art. no. (old) | Page | Article no. | Art. no. (old) | Page |
|-------------|----------------|------|-------------|----------------|------|
| 1011016303 | 10106 | 80 | 1014032010 | 10212 | 83 |
| 1011020006 | 10008 | 80 | 1014032310 | - | 83 |
| 1011020306 | 10108 | 80 | 1014040012 | 10214 | 83 |
| 1011025008 | 10010 | 80 | 1014050014 | 10216 | 83 |
| 1011025308 | 10110 | 80 | 1014063016 | 10218 | 83 |
| 1011032010 | 10012 | 80 | 1014075018 | 10220 | 83 |
| 1011040012 | 10014 | 80 | 1014090020 | 10222 | 83 |
| 1011050014 | 10016 | 80 | 1014110022 | 10224 | 83 |
| 1011063016 | 10018 | 80 | 1014125024 | 10226 | 83 |
| 1011075018 | 10020 | 80 | 1014160026 | 10230 | 83 |
| 1011090020 | 10022 | 80 | 1014200028 | 10234 | 83 |
| 1011110022 | 10024 | 80 | 1014250030 | 10238 | 83 |
| 1012016303 | 10906 | 80 | 1014315032 | 10242 | 83 |
| 1012020006 | 10808 | 80 | 1020020002 | 14108 | 91 |
| 1012020306 | 10908 | 80 | 1020025003 | 14110 | 91 |
| 1012020506 | 70708 | 81 | 1020032004 | 14112 | 91 |
| 1012025008 | 10810 | 80 | 1020040005 | 14114 | 91 |
| 1012025508 | 70710 | 81 | 1020050006 | 14116 | 91 |
| 1012032010 | 10812 | 81 | 1020063007 | 14118 | 91 |
| 1012032510 | - | 81 | 1020075008 | 14120 | 91 |
| 1012040012 | 10814 | 81 | 1020090009 | 14122 | 91 |
| 1012040512 | - | 81 | 1020110010 | 14124 | 91 |
| 1012050014 | 10816 | 81 | 1020125011 | 14126 | 91 |
| 1012050514 | - | 81 | 1022160012 | - | 91 |
| 1012063016 | 10818 | 81 | 1022200014 | - | 91 |
| 1012063516 | - | 81 | 1022250016 | - | 91 |
| 1012075518 | - | 81 | 1023160000 | 315530 | 106 |
| 1012090520 | - | 81 | 1023160022 | 314130 | 91 |
| 1012110522 | - | 81 | 1023200023 | 314134 | 91 |
| 1012125524 | - | 81 | 1023200031 | 315534 | 106 |
| 1012160526 | - | 81 | 1023250024 | 314138 | 91 |
| 1012200528 | - | 81 | 1023250032 | 315538 | 106 |
| 1012250530 | - | 81 | 1023315025 | 314142 | 91 |
| 1013032010 | 370712 | 82 | 1023315033 | 315542 | 106 |
| 1013040012 | 370714 | 82 | 1023355026 | 314144 | 91 |
| 1013050014 | 370716 | 82 | 1024160013 | 14131 | 91 |
| 1013063016 | 370718 | 82 | 1024200015 | 14135 | 91 |
| 1013075018 | 370720 | 82 | 1024250017 | 14139 | 91 |
| 1013090020 | 370722 | 82 | 1024315018 | 14143 | 91 |
| 1013110022 | 370724 | 82 | 1024355019 | 14145 | 91 |
| 1013125024 | 370726 | 82 | 1024400020 | 14147 | 91 |
| 1013160026 | 370730 | 82 | 1024450021 | 14149 | 91 |
| 1013200028 | 370734 | 82 | 1030040001 | 15156 | 99 |
| 1013250030 | 370738 | 82 | 1030040002 | 15158 | 99 |
| 1013315032 | 370742 | 82 | 1030040100 | 28214 | 101 |
| 1014020006 | 10208 | 83 | 1030040101 | 28234 | 101 |
| 1014020306 | 10308 | 83 | 1030040102 | 28314 | 101 |
| 1014025008 | 10210 | 83 | 1030040103 | 28334 | 101 |
| 1014025308 | 10310 | 83 | 1030040104 | 928214 | 102 |

| Article no. | Art. no. (old) | Page | Article no. | Art. no. (old) | Page |
|-------------|----------------|------|-------------|----------------|------|
| 1030040105 | 928234 | 102 | 1030050107 | 28236 | 101 |
| 1030050003 | 15160 | 99 | 1030050108 | 28316 | 101 |
| 1030050004 | 15162 | 99 | 1030050109 | 28336 | 101 |
| 1030050106 | 28216 | 101 | 1030050110 | 928216 | 102 |
| 1030050107 | 28236 | 101 | 1030050111 | 928236 | 102 |
| 1030050108 | 28316 | 101 | 1030063005 | 15164 | 99 |
| 1030050109 | 28336 | 101 | 1030063006 | 15166 | 99 |
| 1030050110 | 928216 | 102 | 1030063007 | 15168 | 99 |
| 1030050111 | 928236 | 102 | 1030063112 | 28218 | 101 |
| 1030063005 | 15164 | 99 | 1030063113 | 28238 | 102 |
| 1030063006 | 15166 | 99 | 1030063114 | 28318 | 101 |
| 1030063007 | 15168 | 99 | 1030063115 | 28338 | 101 |
| 1030063112 | 28218 | 101 | 1030063116 | 928218 | 101 |
| 1030063113 | 28238 | 102 | 1030063117 | 928238 | 102 |
| 1030063114 | 28318 | 101 | 1030075008 | 15170 | 99 |
| 1030063115 | 28338 | 101 | 1030075009 | 15172 | 99 |
| 1030063116 | 928218 | 101 | 1030075010 | 15174 | 99 |
| 1030063117 | 928238 | 102 | 1030075011 | 15175 | 99 |
| 1030075008 | 15170 | 99 | 1030075118 | 28220 | 101 |
| 1030075009 | 15172 | 99 | 1030075119 | 28240 | 101 |
| 1030075010 | 15174 | 99 | 1030075120 | 28260 | 101 |
| 1030075011 | 15175 | 99 | 1030075121 | 28320 | 101 |
| 1030075118 | 28220 | 101 | 1030075122 | 28340 | 101 |
| 1030075119 | 28240 | 101 | 1030075123 | 928220 | 102 |
| 1030075120 | 28260 | 101 | 1030075124 | 928240 | 102 |
| 1030075121 | 28320 | 101 | 1030075125 | 928260 | 102 |
| 1030075122 | 28340 | 101 | 1030090012 | 15176 | 99 |
| 1030075123 | 928220 | 102 | 1030090013 | 15178 | 99 |
| 1030075124 | 928240 | 102 | 1030090014 | 15180 | 99 |
| 1030075125 | 928260 | 102 | 1030090015 | 15181 | 99 |
| 1030090012 | 15176 | 99 | 1030090126 | 28222 | 101 |
| 1030090013 | 15178 | 99 | 1030090127 | 28242 | 101 |
| 1030090014 | 15180 | 99 | 1030090128 | 28262 | 101 |
| 1030090015 | 15181 | 99 | 1030090129 | 28322 | 101 |
| 1030090126 | 28222 | 101 | 1030090130 | 28342 | 101 |
| 1030090127 | 28242 | 101 | 1030090131 | 928222 | 102 |
| 1030090128 | 28262 | 101 | 1030090132 | 928242 | 102 |
| 1030090129 | 28322 | 101 | 1030090133 | 928262 | 102 |
| 1030090130 | 28342 | 101 | 1030110016 | 15182 | 99 |
| 1030090131 | 928222 | 102 | 1030110017 | 15184 | 99 |
| 1030090132 | 928242 | 102 | 1030110018 | 15186 | 99 |
| 1030090133 | 928262 | 102 | 1030110019 | 15188 | 99 |
| 1030110016 | 15182 | 99 | 1030110020 | 15189 | 99 |
| 1030110017 | 15184 | 99 | 1030110134 | 28224 | 101 |
| 1030110018 | 15186 | 99 | 1030110135 | 28244 | 101 |
| 1030110019 | 15188 | 99 | | | |

| Article no. | Art. no. (old) | Page | Article no. | Art. no. (old) | Page |
|-------------|----------------|------|-------------|----------------|------|
| 1030110136 | 28264 | 101 | 1030200038 | 15231 | 99 |
| 1030110137 | 28324 | 101 | 1030200039 | 15232 | 99 |
| 1030110138 | 28344 | 101 | 1030200040 | 15233 | 99 |
| 1030110139 | 928224 | 102 | 1030200041 | 15234 | 99 |
| 1030110140 | 928244 | 102 | 1030200042 | 15235 | 99 |
| 1030110141 | 928264 | 102 | 1030200043 | 15236 | 99 |
| 1030125021 | 15190 | 99 | 1030200044 | 15237 | 99 |
| 1030125022 | 15192 | 99 | 1030250035 | 15228 | 99 |
| 1030125023 | 15194 | 99 | 1030250036 | 15229 | 99 |
| 1030125024 | 15196 | 99 | 1030250037 | 15230 | 99 |
| 1030125025 | 15197 | 99 | 1030250045 | 15251 | 99 |
| 1030125026 | 15198 | 99 | 1030250046 | 15252 | 100 |
| 1030125142 | 28226 | 101 | 1030250047 | 15253 | 100 |
| 1030125143 | 28246 | 101 | | | |
| 1030125144 | 28266 | 101 | | | |
| 1030125145 | 28326 | 101 | | | |
| 1030125146 | 28346 | 101 | | | |
| 1030125147 | 928226 | 102 | | | |
| 1030125148 | 928246 | 102 | | | |
| 1030125149 | 928266 | 102 | | | |
| 1030160027 | 15206 | 99 | | | |
| 1030160028 | 15208 | 99 | | | |
| 1030160029 | 15210 | 99 | | | |
| 1030160030 | 15212 | 99 | | | |
| 1030160031 | 15214 | 99 | | | |
| 1030160032 | 15216 | 99 | | | |
| 1030160033 | 15218 | 99 | | | |
| 1030160034 | 15220 | 99 | | | |
| 1030160150 | 28230 | 101 | | | |
| 1030160151 | 28250 | 101 | | | |
| 1030160152 | 28270 | 101 | | | |
| 1030160153 | 28330 | 101 | | | |
| 1030160154 | 28350 | 101 | | | |
| 1030160155 | 928230 | 102 | | | |
| 1030160156 | 928250 | 102 | | | |
| 1030160157 | 928270 | 102 | | | |
| 1030200038 | 15231 | 99 | | | |
| 1030200039 | 15232 | 99 | | | |
| 1030200040 | 15233 | 99 | | | |
| 1030200041 | 15234 | 99 | | | |
| 1030200042 | 15235 | 99 | | | |
| 1030200043 | 15236 | 99 | | | |
| 1030200044 | 15237 | 99 | | | |
| 1030250035 | 15228 | 99 | | | |
| 1030250036 | 15229 | 99 | | | |
| 1030250037 | 15230 | 99 | | | |
| 1030250045 | 15251 | 99 | | | |
| 1030250046 | 15252 | 100 | | | |
| 1030250047 | 15253 | 100 | | | |

| Article no. | Art. no. (old) | Page | Article no. | Art. no. (old) | Page |
|-------------|----------------|------|-------------|----------------|------|
| 1030250048 | 15254 | 100 | 1040050029 | 11126 | 92 |
| 1030250049 | 15255 | 100 | 1040050030 | 11128 | 92 |
| 1030250050 | 15256 | 100 | 1040050031 | 11130 | 92 |
| 1030250051 | 15257 | 100 | 1040050074 | 11228 | 93 |
| 1030250158 | 28232 | 101 | 1040050075 | 11230 | 93 |
| 1030250159 | 28254 | 101 | 1040050103 | 17216 | 84 |
| 1030250160 | 28274 | 101 | 1040050132 | 15716 | 107 |
| 1030250161 | 928232 | 102 | 1040063007 | 11018 | 83 |
| 1030250162 | 928254 | 102 | 1040063032 | 11131 | 92 |
| 1030250163 | 928274 | 102 | 1040063033 | 11132 | 92 |
| 1030315052 | 15260 | 100 | 1040063034 | 11134 | 92 |
| 1030315053 | 15261 | 100 | 1040063035 | 11136 | 92 |
| 1030315054 | 15262 | 100 | 1040063036 | 11138 | 92 |
| 1030315055 | 15263 | 100 | 1040063076 | 11236 | 93 |
| 1030315056 | 15264 | 100 | 1040063077 | 11238 | 93 |
| 1033315073 | 315265 | 100 | 1040063104 | 17218 | 84 |
| 1033355074 | 315271 | 100 | 1040063133 | 15718 | 107 |
| 1034315057 | 15265 | 100 | 1040075008 | 11020 | 83 |
| 1034355061 | 15271 | 100 | 1040075037 | 11139 | 92 |
| 1040020002 | 11008 | 83 | 1040075038 | 11140 | 92 |
| 1040020020 | 11109 | 92 | 1040075039 | 11142 | 92 |
| 1040020090 | 13708 | 90 | 1040075040 | 11143 | 92 |
| 1040020094 | 17208 | 84 | 1040075041 | 11144 | 92 |
| 1040020151 | 20108 | 112 | 1040075042 | 11145 | 91 |
| 1040020152 | 20110 | 112 | 1040075078 | 11240 | 93 |
| 1040020156 | 20158 | 114 | 1040075079 | 11242 | 93 |
| 1040025003 | 11010 | 83 | 1040075105 | 17220 | 84 |
| 1040025021 | 11110 | 92 | 1040075134 | 15720 | 107 |
| 1040025022 | 11112 | 92 | 1040090009 | 11022 | 83 |
| 1040025091 | 13710 | 90 | 1040090043 | 11151 | 92 |
| 1040025100 | 17210 | 84 | 1040090044 | 11152 | 92 |
| 1040025153 | 20112 | 112 | 1040090045 | 11153 | 92 |
| 1040025154 | 20113 | 112 | 1040090080 | 11252 | 93 |
| 1040032004 | 11012 | 83 | 1040090081 | 11253 | 93 |
| 1040032023 | 11114 | 92 | 1040090106 | 17222 | 84 |
| 1040032024 | 11116 | 92 | 1040090135 | 15722 | 107 |
| 1040032092 | 13712 | 90 | 1040110010 | 11024 | 83 |
| 1040032101 | 17212 | 84 | 10401 | | |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1050032101 | 27014 | 105 |
| 1050032113 | 27313 | 105 |
| 1050032114 | 27314 | 105 |
| 1050032152 | 40862 | 110 |
| 1050032155 | 40872 | 110 |
| 1050032158 | 40882 | 111 |
| 1050032161 | 40892 | 111 |
| 1050032164 | 41112 | 111 |
| 1050032172 | 41212 | 112 |
| 1050032176 | - | 108 |
| 1050032185 | 41412 | 112 |
| 1050032189 | - | 109 |
| 1050040002 | 15014 | 107 |
| 1050040021 | 15514 | 106 |
| 1050040041 | 15814 | 103 |
| 1050040053 | 15844 | 103 |
| 1050040073 | 26614 | 104 |
| 1050040079 | 26644 | 104 |
| 1050040085 | 26714 | 104 |
| 1050040102 | 27015 | 105 |
| 1050040103 | 27016 | 105 |
| 1050040115 | 27315 | 105 |
| 1050040116 | 27316 | 105 |
| 1050040165 | 41114 | 111 |
| 1050040173 | 41214 | 112 |
| 1050040177 | - | 108 |
| 1050040186 | 41414 | 112 |
| 1050050003 | 15016 | 107 |
| 1050050022 | 15516 | 106 |
| 1050050042 | 15816 | 103 |
| 1050050054 | 15846 | 103 |
| 1050050074 | 26616 | 104 |
| 1050050080 | 26646 | 104 |
| 1050050104 | 27017 | 105 |
| 1050050105 | 27018 | 105 |
| 1050050117 | 27317 | 105 |
| 1050050118 | 27318 | 105 |
| 1050050178 | - | 108 |
| 1050050187 | 41416 | 112 |
| 1050063004 | 15018 | 107 |
| 1050063023 | 15518 | 106 |
| 1050063043 | 15818 | 103 |
| 1050063055 | 15848 | 103 |
| 1050063075 | 26618 | 104 |
| 1050063081 | 26648 | 104 |
| 1050063106 | 27019 | 105 |
| 1050063107 | 27020 | 105 |
| 1050063119 | 27319 | 105 |
| 1050063120 | 27320 | 105 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1050063179 | - | 108 |
| 1050063188 | 41418 | 112 |
| 1050075005 | 15020 | 107 |
| 1050075024 | 15520 | 106 |
| 1050075044 | 15820 | 103 |
| 1050075056 | 15850 | 103 |
| 1050075108 | 27021 | 105 |
| 1050075109 | 27022 | 105 |
| 1050075121 | 27321 | 105 |
| 1050075122 | 27322 | 105 |
| 1050090006 | 15022 | 107 |
| 1050090025 | 15522 | 106 |
| 1050110007 | 15024 | 107 |
| 1050110026 | 15524 | 106 |
| 1050125008 | 15026 | 107 |
| 1050125009 | 15027 | 107 |
| 1050125027 | 15526 | 106 |
| 1050125028 | 15527 | 106 |
| 1050160010 | 15031 | 107 |
| 1050200011 | 15035 | 107 |
| 1050250012 | 15039 | 107 |
| 1052160029 | - | 106 |
| 1052200031 | - | 106 |
| 1052250033 | - | 106 |
| 1054160030 | 15531 | 106 |
| 1054200032 | 15535 | 106 |
| 1054250034 | 15539 | 106 |
| 1054315035 | 15543 | 106 |
| 1060020016 | 13108 | 87 |
| 1060020030 | 13506 | 88 |
| 1060020031 | 13508 | 88 |
| 1060020032 | 13510 | 88 |
| 1060020033 | 13511 | 88 |
| 1060020141 | 25006 | 98 |
| 1060020142 | 25008 | 98 |
| 1060020154 | 25506 | 91 |
| 1060020160 | 925006 | 98 |
| 1060020161 | 925008 | 98 |
| 1060025017 | 13110 | 87 |
| 1060025034 | 13512 | 88 |
| 1060025035 | 13514 | 88 |
| 1060025036 | 13516 | 88 |
| 1060025037 | 13520 | 88 |
| 1060025038 | 13522 | 88 |
| 1060025143 | 25010 | 98 |
| 1060025144 | 25012 | 98 |
| 1060025162 | 925010 | 98 |
| 1060025163 | 925012 | 98 |
| 1060032018 | 13112 | 87 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1060032039 | 13528 | 88 |
| 1060032040 | 13532 | 88 |
| 1060032041 | 13534 | 88 |
| 1060032042 | 13538 | 88 |
| 1060032043 | 13540 | 88 |
| 1060032145 | 25013 | 98 |
| 1060032146 | 25014 | 98 |
| 1060032147 | 25016 | 98 |
| 1060032164 | 925013 | 98 |
| 1060032165 | 925014 | 98 |
| 1060032166 | 925016 | 98 |
| 1060040019 | 13114 | 87 |
| 1060040044 | 13542 | 88 |
| 1060040045 | 13544 | 88 |
| 1060040046 | 13546 | 88 |
| 1060040148 | 25018 | 98 |
| 1060040149 | 25019 | 98 |
| 1060040150 | 25020 | 98 |
| 1060050020 | 13116 | 87 |
| 1060050047 | 13547 | 88 |
| 1060050048 | 13548 | 88 |
| 1060050049 | 13550 | 88 |
| 1060050050 | 13551 | 88 |
| 1060050151 | 25022 | 98 |
| 1060050152 | 25030 | 98 |
| 1060050153 | 25031 | 98 |
| 1060063021 | 13118 | 87 |
| 1060063051 | 13552 | 88 |
| 1060063052 | 13554 | 88 |
| 1060063053 | 13556 | 88 |
| 1060063054 | 13558 | 88 |
| 1060063055 | 13560 | 88 |
| 1060075022 | 13120 | 87 |
| 1060075056 | 13561 | 88 |
| 1060075057 | 13562 | 88 |
| 1060075058 | 13564 | 88 |
| 1060075059 | 13566 | 88 |
| 1060075060 | 13568 | 88 |
| 1060075061 | 13570 | 88 |
| 1060090023 | 13122 | 87 |
| 1060090062 | 13576 | 88 |
| 1060090063 | 13578 | 88 |
| 1060090064 | 13580 | 88 |
| 1060090065 | 13582 | 88 |
| 1060090066 | 13584 | 88 |
| 1060110024 | 13124 | 87 |
| 1060110067 | 13586 | 88 |
| 1060110068 | 13588 | 88 |
| 1060110069 | 13590 | 88 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1060125025 | 13126 | 87 |
| 1060125070 | 13592 | 88 |
| 1060125071 | 13594 | 88 |
| 1060125072 | 13596 | 88 |
| 1062160012 | - | 87 |
| 1062160073 | - | 89 |
| 1062160075 | - | 89 |
| 1062160077 | - | 89 |
| 1062200014 | - | 87 |
| 1062200079 | - | 89 |
| 1062200081 | - | 89 |
| 1062200083 | - | 89 |
| 1062200085 | - | 89 |
| 1062200087 | - | 90 |
| 1062250016 | - | 87 |
| 1062250089 | - | 89 |
| 1062250091 | - | 89 |
| 1062250093 | - | 89 |
| 1062250095 | - | 89 |
| 1062250097 | - | 90 |
| 1062250099 | - | 90 |
| 1063160019 | 313130 | 87 |
| 1063160120 | 313600 | 89 |
| 1063160121 | 313602 | 89 |
| 1063200020 | 313134 | 87 |
| 1063200122 | 313608 | 89 |
| 1063200123 | 313610 | 89 |
| 1063200124 | 313612 | 89 |
| 1063200125 | 313614 | 89 |
| 1063200126 | 313618 | 90 |
| 1063250021 | 313138 | 87 |
| 1063250127 | 313624 | 89 |
| 1063250128 | 313626 | 89 |
| 1063250129 | 313628 | 89 |
| 1063250130 | 313630 | 89 |
| 1063250131 | 313634 | 90 |
| 1063250132 | 313640 | 90 |
| 1063315022 | 313142 | 87 |
| 1063315133 | 313904 | 89 |
| 1063315134 | 313906 | 90 |
| 1063315135 | 313908 | 90 |
| 1063315136 | 313910 | 90 |
| 1064160013 | 13131 | 87 |
| 1064160074 | 13601 | 89 |
| 1064160076 | 13603 | 89 |
| 1064160078 | 13607 | 89 |
| 1064200015 | 13135 | 87 |
| 1064200080 | 13609 | 89 |
| 1064200082 | 13611 | 89 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1064200084 | 13613 | 89 |
| 1064200086 | 13615 | 89 |
| 1064200088 | 13619 | 90 |
| 1064250017 | 13139 | 87 |
| 1064250090 | 13625 | 89 |
| 1064250092 | 13627 | 89 |
| 1064250094 | 13629 | 89 |
| 1064250096 | 13631 | 89 |
| 1064250098 | 13635 | 90 |
| 1064250100 | 13641 | 90 |
| 1064315018 | 13143 | 87 |
| 1064315101 | 13651 | 89 |
| 1064315102 | 13653 | 90 |
| 1064315103 | 13655 | 90 |
| 1064315104 | 13657 | 90 |
| 1070016007 | 21008 | 93 |
| 1070016026 | 21010 | 95 |
| 1070020002 | 21106 | 98 |
| 1070020003 | 21108 | 98 |
| 1070020008 | 21110 | 94 |
| 1070020009 | 21208 | 94 |
| 1070020022 | 21210 | 95 |
| 1070020023 | 21306 | 95 |
| 1070020027 | 21308 | 96 |
| 1070020028 | 21310 | 96 |
| 1070020051 | 21258 | 95 |
| 1070020054 | 21355 | 96 |
| 1070020056 | 21358 | 95 |
| 1070020060 | 921008 | 98 |
| 1070020061 | 921010 | 98 |
| 1070020074 | 921208 | 95 |
| 1070020075 | 921210 | 95 |
| 1070020091 | 23008 | 97 |
| 1070020092 | 23010 | 97 |
| 1070020097 | 23208 | 97 |
| 1070020099 | 23506 | 97 |
| 1070020100 | 23508 | 97 |
| 1070020110 | 923008 | 97 |
| 1070020111 | 923010 | 97 |
| 1070020117 | 923506 | 97 |
| 1070020118 | 923508 | 97 |
| 1070025004 | 21011 | 98 |
| 1070025005 | 21012 | 98 |
| 1070025010 | 21111 | 94 |
| 1070025011 | 21112 | 94 |
| 1070025024 | 21211 | 95 |
| 1070025025 | 21212 | 95 |
| 1070025029 | 21311 | 96 |
| 1070025030 | 21312 | 96 |

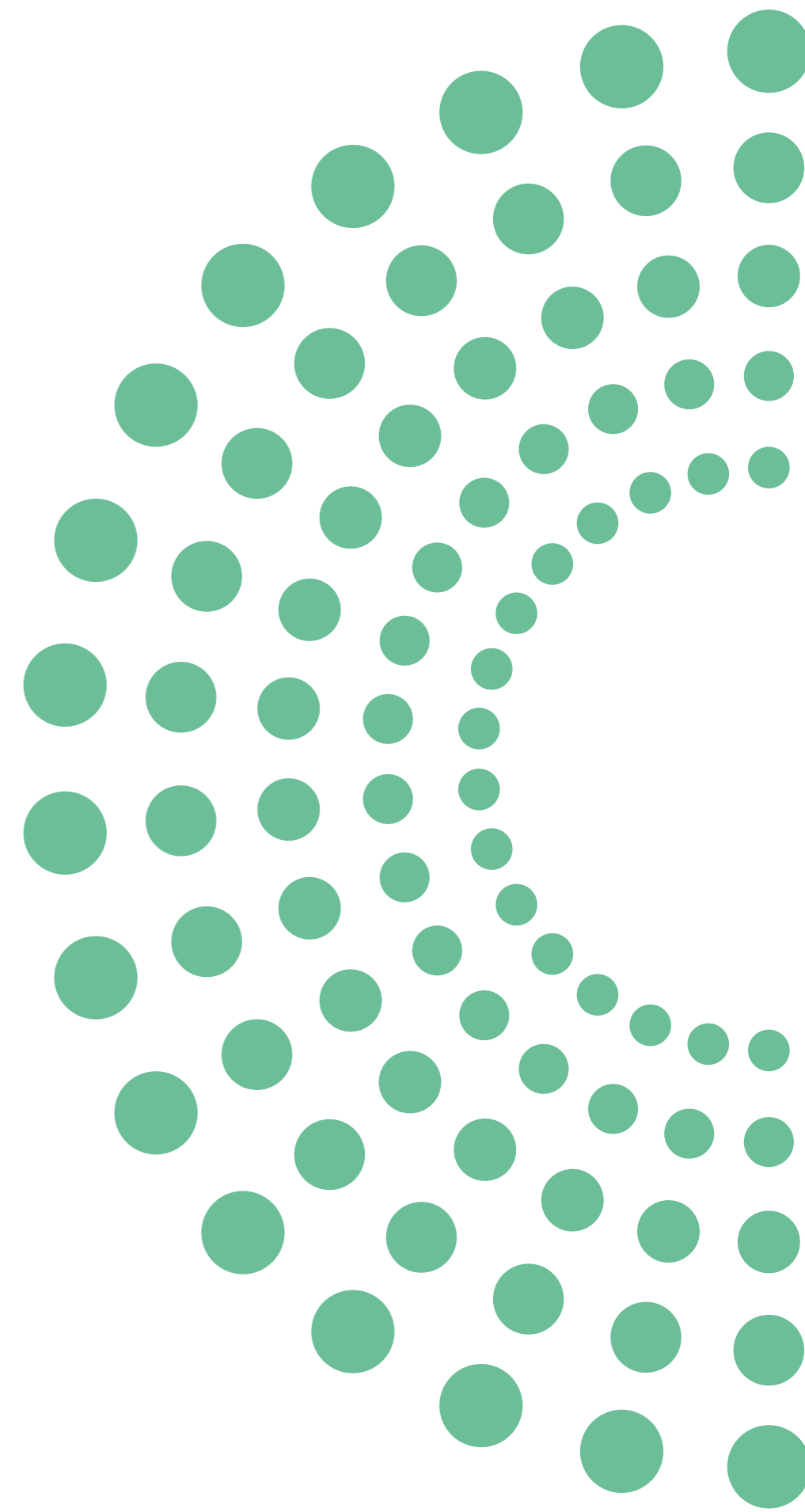
| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1070025052 | 21261 | 95 |
| 1070025053 | 21262 | 95 |
| 1070025062 | 921011 | 98 |
| 1070025063 | 921012 | 98 |
| 1070025076 | 921211 | 95 |
| 1070025077 | 921212 | 95 |
| 1070025093 | 23012 | 97 |
| 1070025094 | 23014 | 97 |
| 1070025101 | 23510 | 97 |
| 1070025112 | 923012 | 97 |
| 1070025113 | 923014 | 97 |
| 1070025119 | 923510 | 97 |
| 1070032006 | 21013 | 98 |
| 1070032012 | 21113 | 94 |
| 1070032013 | 21114 | 94 |
| 1070032026 | 21213 | 95 |
| 1070032031 | 21314 | 96 |
| 1070032032 | 21316 | 96 |
| 1070032064 | 921013 | 98 |
| 1070032065 | 921014 | 98 |
| 1070032066 | 921114 | 94 |
| 1070032078 | 921213 | 95 |
| 1070032079 | 921314 | 96 |
| 1070032080 | 921316 | 96 |
| 1070032095 | 23016 | 97 |
| 1070032096 | 23018 | 97 |
| 1070032102 | 23512 | 97 |
| 1070032103 | 23514 | 97 |
| 1070032114 | 923015 | 97 |
| 1070032115 | 923016 | 97 |
| 1070032116 | 923018 | 97 |
| 1070032120 | 923512 | 97 |
| 1070040014 | 21115 | 94 |
| 1070040015 | 21116 | 94 |
| 1070040033 | 21317 | 96 |
| 1070040034 | 21318 | 96 |
| 1070040067 | 921115 | 94 |
| 1070040068 | 921116 | 94 |
| 1070040081 | 921317 | 96 |
| 1070040082 | 921318 | 96 |
| 1070050016 | 21117 | 94 |
| 1070050017 | 21118 | 94 |
| 1070050035 | 21319 | 96 |
| 1070050036 | 21320 | 96 |
| 1070050069 | 921117 | 93 |
| 1070050070 | 921118 | 94 |
| 1070050083 | 921319 | 96 |
| 1070050084 | 921320 | 96 |
| 1070063018 | 21119 | 94 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1070063019 | 21120 | 94 |
| 1070063037 | 21321 | 96 |
| 1070063038 | 21322 | 96 |
| 1070063071 | 921119 | 94 |
| 1070063072 | 921120 | 94 |
| 1070063085 | - | 96 |
| 1070063086 | 921322 | 96 |
| 1070075020 | 21122 | 94 |
| 1070075039 | 21323 | 96 |
| 1070075040 | 21324 | 96 |
| 1070075073 | - | 94 |
| 1070075087 | 921323 | 96 |
| 1070090041 | 21325 | 96 |
| 1070110042 | 21327 | 96 |
| 1080020002 | 12508 | 85 |
| 1080020020 | 12708 | 86 |
| 1080020021 | 12710 | 86 |
| 1080020041 | 12108 | 84 |
| 1080020061 | 12308 | 84 |
| 1080025003 | 12510 | 85 |
| 1080025042 | 12110 | 84 |
| 1080025062 | 12310 | 84 |
| 1080032004 | 12512 | 85 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1090160015 | 16212 | 102 |
| 1090160016 | 16216 | 102 |
| 1090160060 | 41607 | 108 |
| 1090200017 | 16231 | 102 |
| 1090200018 | 16233 | 102 |
| 1090250019 | 16251 | 102 |
| 1090250020 | 16253 | 102 |
| 1090315021 | 16260 | 102 |
| 1090400022 | 16300 | 102 |
| 1212020006 | 70758 | 81 |
| 1212025008 | 70760 | 81 |
| 1212032010 | - | 81 |
| 1212040012 | - | 81 |
| 1212050014 | - | 81 |
| 1212063016 | - | 81 |
| 1212075018 | - | 81 |
| 1212090020 | - | 81 |
| 1212110022 | - | 81 |
| 1212125024 | - | 81 |
| 1212160026 | - | 81 |
| 1212200028 | - | 81 |
| 1212250030 | - | 81 |
| 1213032010 | 370762 | 82 |
| 1213040012 | 370764 | 82 |
| 1213050014 | 370766 | 82 |
| 1213063016 | 370768 | 82 |
| 1213075018 | 370770 | 82 |
| 1213090020 | 370772 | 82 |
| 1213110022 | 370774 | 82 |
| 1213125024 | 370776 | 82 |
| 1213160026 | 370780 | 82 |
| 1213200028 | 370784 | 82 |
| 7020000015 | 79080 | 114 |
| 7020016005 | 60604 | 118 |
| 7020016006 | 60606 | 118 |
| 7020016007 | 60608 | 118 |
| 7020016008 | 60610 | 118 |
| 7040040014 | 60640 | 118 |
| 7050000001 | 60110 | 115 |
| 7050000002 | 60115 | 115 |
| 7050000003 | 60150 | 116 |
| 7050000004 | 60155 | 116 |
| 7050000016 | 79090 | 114 |
| 7050000017 | - | 114 |
| 7050000018 | - | 114 |
| 7050000020 | 60010 | 115 |
| 7090020011 | 60620 | 118 |
| 7090025012 | 60625 | 118 |
| 7090032013 | 60632 | 118 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 9600020114 | 20114 | 113 |
| 9600027522 | 27522 | 105 |
| 9600027524 | 27524 | 105 |
| 9600027722 | 27722 | 106 |
| 9600027724 | 27724 | 106 |
| 9600040900 | 40900 | 110 |
| 9600040902 | - | 110 |
| 9600040903 | 40902 | 108 |
| 9600060210 | - | 116 |
| 9600060211 | 60210 | 116 |
| 9600060516 | 60516 | 117 |
| 9600060520 | 60520 | 117 |
| 9600060525 | 60525 | 117 |
| 9600060532 | 60532 | 117 |
| 9600060540 | 60540 | 117 |
| 9600060550 | 60550 | 117 |
| 9600060563 | 60563 | 117 |
| 9600060575 | 60575 | 117 |
| 9600060590 | 60590 | 117 |
| 9600060594 | 60594 | 117 |
| 9600060595 | 60595 | 117 |
| 9600060597 | 60597 | 117 |
| 9600060650 | 60650 | 117 |
| 9600060654 | 60654 | 117 |
| 9600060658 | 60658 | 117 |
| 9600060768 | 60768 | 118 |
| 9600060770 | 60770 | 118 |
| 9600060774 | 60774 | 118 |
| 9600060778 | 60778 | 118 |
| 9700010871 | 10871 | 117 |
| 9700041489 | 41489 | 109 |
| 9700041491 | 41491 | 109 |
| 9700041493 | 41493 | 109 |
| 9700041495 | 41495 | 109 |
| 9700041497 | 41497 | 109 |
| 9700041499 | 41499 | 109 |
| 9700041589 | 41589 | 109 |
| 9700041591 | 41591 | 109 |
| 9700041593 | 41593 | 109 |
| 9700041595 | 41595 | 109 |
| 9700041597 | 41597 | 109 |
| 9700041599 | 41599 | 109 |
| 9700041603 | 41603 | 109 |
| 9700041605 | 41605 | 109 |
| 9700041608 | 41608 | 109 |
| 9700041703 | 41703 | 109 |
| 9700041705 | 41705 | 109 |
| 9700041708 | 41708 | 109 |
| 9700050230 | 50230 | 117 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 9700050231 | 50231 | 117 |
| 9700050232 | 50232 | 117 |
| 9700050233 | 50233 | 117 |
| 9700098900 | 98900 | 109 |
| 9700098901 | 98901 | 109 |
| 9700098902 | 98902 | 109 |
| 9700098903 | 98903 | 109 |
| 9800050700 | 50700 | 115 |
| 9800050708 | 50708 | 115 |
| 9800050710 | 50710 | 115 |



| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1313032010 | 1370711 | 139 |
| 1313032110 | 1370712 | 139 |
| 1313040012 | 1370713 | 139 |
| 1313040112 | 1370714 | 139 |
| 1313050014 | 1370715 | 139 |
| 1313050114 | 1370716 | 139 |
| 1313063016 | 1370717 | 139 |
| 1313063116 | 1370718 | 139 |
| 1313075018 | 1370719 | 139 |
| 1313075118 | 1370720 | 139 |
| 1313090020 | 1370721 | 139 |
| 1313090120 | 1370722 | 139 |
| 1313110022 | 1370723 | 139 |
| 1313110122 | 1370724 | 139 |
| 1313125024 | 1370725 | 139 |
| 1313125124 | 1370726 | 139 |
| 1313160026 | 1370729 | 139 |
| 1313160126 | 1370730 | 139 |
| 1340032114 | 2411012 | 143 |
| 1340040103 | 1211222 | 144 |
| 1340040115 | 2411014 | 143 |
| 1340050104 | 1211228 | 144 |
| 1340050105 | 1211230 | 144 |
| 1340050116 | 2411016 | 143 |
| 1340063106 | 1211236 | 144 |
| 1340063107 | 1211238 | 144 |
| 1340063117 | 2411018 | 143 |
| 1340075108 | 1211240 | 144 |
| 1340075109 | 1211242 | 144 |
| 1340075118 | 2411020 | 143 |
| 1340090110 | 1211252 | 144 |
| 1340090111 | 1211253 | 144 |
| 1340090119 | 2411022 | 143 |
| 1340110112 | 1211257 | 144 |
| 1340110113 | 1211259 | 144 |
| 1340110120 | 2411024 | 144 |
| 1340125121 | 2411026 | 144 |
| 1340160122 | 2411030 | 142 |
| 1340200123 | 2411034 | 142 |
| 1340250124 | 2411038 | 142 |
| 1340315125 | 2411042 | 142 |
| 1347355126 | 2411044 | 142 |
| 1363032001 | 1313112 | 140 |
| 1363040002 | 1313114 | 140 |
| 1363050003 | 1313116 | 140 |
| 1363063004 | 1313118 | 140 |
| 1363075005 | 1313120 | 140 |
| 1363090006 | 1313122 | 140 |
| 1363110007 | 1313124 | 140 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1363125008 | 1313126 | 140 |
| 1363160009 | 1313130 | 140 |
| 1383032001 | 1312512 | 139 |
| 1383032020 | 1312112 | 140 |
| 1383032040 | 1312212 | 140 |
| 1383040002 | 1312514 | 139 |
| 1383040021 | 1312114 | 140 |
| 1383040041 | 1312214 | 140 |
| 1383050003 | 1312516 | 139 |
| 1383050022 | 1312116 | 140 |
| 1383050042 | 1312216 | 140 |
| 1383063004 | 1312518 | 139 |
| 1383063023 | 1312118 | 140 |
| 1383063043 | 1312218 | 140 |
| 1383075005 | 1312520 | 139 |
| 1383075024 | 1312120 | 140 |
| 1383075044 | 1312220 | 140 |
| 1383090006 | 1312522 | 139 |
| 1383090025 | 1312122 | 140 |
| 1383110007 | 1312524 | 139 |
| 1383110026 | 1312124 | 140 |
| 1383125008 | 1312526 | 139 |
| 1383125027 | 1312126 | 140 |
| 1383160009 | 1312530 | 139 |
| 1383160028 | 1312130 | 140 |
| 1390032022 | 2211011 | 142 |
| 1390032046 | 2211211 | 143 |
| 1390040024 | 2211013 | 142 |
| 1390040047 | 2211213 | 143 |
| 1390050026 | 2211015 | 142 |
| 1390050048 | 2211215 | 143 |
| 1390063028 | 2211017 | 142 |
| 1390063049 | 2211217 | 143 |
| 1390075030 | 2211019 | 142 |
| 1390075050 | 2211219 | 143 |
| 1390090032 | 2211021 | 142 |
| 1390090051 | 2211221 | 143 |
| 1390110034 | 2211023 | 142 |
| 1390110052 | 2211223 | 143 |
| 1390125020 | 1211263 | 140 |
| 1390125021 | 1211265 | 140 |
| 1390125036 | 2211025 | 142 |
| 1390125053 | 2211225 | 143 |
| 1390160038 | 2211029 | 142 |
| 1390160054 | 2211229 | 143 |
| 1390200040 | 2211033 | 142 |
| 1390200055 | 2211233 | 143 |
| 1390250042 | 2211037 | 142 |
| 1390250056 | 2211237 | 143 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1390315044 | 2211041 | 142 |
| 1390355045 | 2211043 | 142 |
| 2314032010 | 2071112 | 122 |
| 2314032110 | 2270112 | 123 |
| 2314040012 | 2270113 | 122 |
| 2314040112 | 2270114 | 123 |
| 2314050014 | 2270115 | 122 |
| 2314050114 | 2270116 | 123 |
| 2314063016 | 2270117 | 122 |
| 2314063116 | 2270118 | 123 |
| 2314075018 | 2270119 | 122 |
| 2314075118 | 2270120 | 123 |
| 2314090020 | 2270121 | 122 |
| 2314090120 | 2270122 | 123 |
| 2314110022 | 2270123 | 122 |
| 2314110122 | 2270124 | 123 |
| 2314125024 | 2270125 | 122 |
| 2314125124 | 2270126 | 123 |
| 2314160026 | 2270129 | 122 |
| 2314160126 | 2270130 | 123 |
| 2314200028 | 2270133 | 122 |
| 2314200128 | 2270134 | 123 |
| 2314250030 | 2270137 | 122 |
| 2314250130 | 2270138 | 123 |
| 2314315032 | 2270141 | 122 |
| 2314315132 | 2270142 | 123 |
| 2314355034 | 2270143 | 122 |
| 2314355134 | 2270144 | 123 |
| 2317125024 | 2770125 | 122 |
| 2317125124 | 2770126 | 123 |
| 2317160026 | 2770129 | 122 |
| 2317160126 | 2770130 | 123 |
| 2317200028 | 2770133 | 122 |
| 2317200128 | 2770134 | 123 |
| 2317250030 | 2770137 | 122 |
| 2317250130 | 2770138 | 123 |
| 2317315032 | 2770141 | 122 |
| 2317315132 | 2770142 | 123 |
| 2317355034 | 2770143 | 122 |
| 2317355134 | 2770144 | 123 |
| 2340040030 | 2411222 | 145 |
| 2340050031 | 2411228 | 145 |
| 2340050032 | 2411230 | 145 |
| 2340063033 | 2411236 | 145 |
| 2340063034 | 2411238 | 145 |
| 2340075035 | 2411240 | 145 |
| 2340075036 | 2411242 | 145 |
| 2340090037 | 2411252 | 145 |
| 2340090038 | 2411253 | 145 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 2340110039 | 2411257 | 145 |
| 2340110040 | 2411259 | 145 |
| 2340125041 | 2411263 | 145 |
| 2340125042 | 2411265 | 145 |
| 2340160001 | 1311274 | 144 |
| 2340160003 | 1311276 | 144 |
| 2340160020 | 2211275 | 144 |
| 2340160021 | 2211277 | 144 |
| 2340200005 | - | 144 |
| 2340200022 | 2211283 | 144 |
| 2340200023 | 2211285 | 144 |
| 2340250024 | 2211289 | 144 |
| 2340250025 | 2211291 | 144 |
| 2340315026 | 2211297 | 144 |
| 2340315027 | 2211299 | 144 |
| 2344160050 | 2411275 | 145 |
| 2344160051 | 2411277 | 145 |
| 2344200052 | 2411283 | 145 |
| 2344200053 | 2411285 | 145 |
| 2344250054 | 2411289 | 145 |
| 2344250055 | 2411291 | 145 |
| 2344315056 | 2411297 | 145 |
| 2344315057 | 2411299 | 145 |
| 2344355058 | 2411305 | 145 |
| 2344355059 | 2411307 | 145 |
| 2347160060 | 2711274 | 145 |
| 2347160061 | 2711275 | 146 |
| 2347160062 | 2711276 | 145 |
| 2347160063 | 2711277 | 146 |
| 2347200064 | 2711282 | 145 |
| 2347200065 | 2711283 | 146 |
| 2347200066 | 2711284 | 145 |
| 2347200067 | 2711285 | 146 |
| 2347250068 | 2711288 | 145 |
| 2347250069 | 2711289 | 146 |
| 2347250070 | 2711290 | 145 |
| 2347250071 | 2711291 | 146 |
| 2347315072 | 2711296 | 145 |
| 2347315073 | 2711297 | 146 |
| 2347315074 | 2711298 | 145 |
| 2347315075 | 2711299 | 146 |
| 2347355077 | 2711305 | 146 |
| 2347355079 | 2711307 | 146 |
| 2360032001 | 2213112 | 127 |
| 2360032010 | 2218112 | 145 |
| 2360032010 | - | 142 |
| 2360032020 | 2218112 | 128 |
| 2360040002 | 2213114 | 127 |
| 2360040010 | - | 142 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 2360040021 | 2218114 | 128 |
| 2360040060 | 2213202 | 129 |
| 2360040138 | 2218202 | 134 |
| 2360050003 | 2213116 | 127 |
| 2360050010 | - | 142 |
| 2360050022 | 2218116 | 128 |
| 2360050061 | 2213206 | 129 |
| 2360050062 | 2213208 | 129 |
| 2360050139 | 2218206 | 134 |
| 2360050140 | 2218208 | 134 |
| 2360063004 | 2213118 | 127 |
| 2360063010 | - | 142 |
| 2360063023 | 2218118 | 128 |
| 2360063063 | 2213212 | 129 |
| 2360063064 | 2213214 | 129 |
| 2360063065 | 2213216 | 129 |
| 2360063141 | 2218212 | 134 |
| 2360063142 | 2218214 | 134 |
| 2360063143 | 2218216 | 134 |
| 2360075005 | 2213120 | 127 |
| 2360075010 | - | 142 |
| 2360075024 | 2218120 | 128 |
| 2360075066 | 2213220 | 129 |
| 2360075067 | 2213222 | 129 |
| 2360075068 | 2213224 | 129 |
| 2360075069 | 2213226 | 129 |
| 2360075144 | 2218220 | 134 |
| 2360075145 | 2218222 | 134 |
| 2360075146 | 2218224 | 134 |
| 2360075147 | 2218226 | 134 |
| 2360090006 | 2213122 | 127 |
| 2360090010 | - | 142 |
| 2360090025 | 2218122 | 128 |
| 2360090070 | 2213230 | 129 |
| 2360090071 | 2213232 | 129 |
| 2360090072 | 2213234 | 129 |
| 2360090073 | 2213236 | 129 |
| 2360090074 | 2213238 | 129 |
| 2360090148 | 2218230 | 134 |
| 2360090149 | 2218232 | 134 |
| 2360090150 | 2218234 | 134 |
| 2360090151 | 2218236 | 134 |
| 2360090152 | 2218238 | 134 |
| 2360110007 | 2213124 | 127 |
| 2360110010 | - | 142 |
| 2360110026 | 2218124 | 128 |
| 2360110075 | 2213242 | 129 |
| 2360110076 | 2213244 | 129 |
| 2360110077 | 2213246 | 129 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 2360110078 | 2213248 | 129 |
| 2360110079 | 2213250 | 129 |
| 2360110080 | 2213252 | 129 |
| 2360110153 | 2218242 | 134 |
| 2360110154 | 2218244 | 134 |
| 2360110155 | 2218246 | 134 |
| 2360110156 | 2218248 | 134 |
| 2360110157 | 2218250 | 134 |
| 2360110158 | 2218252 | 134 |
| 2360125008 | 2213126 | 127 |
| 2360125010 | - | 142 |
| 2360125027 | 2218126 | 128 |
| 2360125081 | 2213256 | 129 |
| 2360125082 | 2213258 | 129 |
| 2360125083 | 2213260 | 129 |
| 2360125084 | 2213262 | 129 |
| 2360125085 | 2213264 | 129 |
| 2360125086 | 2213266 | 129 |
| 2360125087 | 2213268 | 129 |
| 2360125159 | 2218256 | 134 |
| 2360125160 | 2218258 | 134 |
| 2360125161 | 2218260 | 134 |
| 2360125162 | 2218262 | 134 |
| 2360125163 | 2218264 | 134 |
| 2360125164 | 2218266 | 134 |
| 2360125165 | 2218268 | 134 |
| 2360125339 | 2713264 | 130 |
| 2360125341 | 2713268 | 132 |
| 2360125403 | 2718262 | 137 |
| 2360125404 | 2718264 | 137 |
| 2360125405 | 2718266 | 137 |
| 2360125406 | 2718268 | 137 |
| 2360160010 | - | 142 |
| 2360160092 | 2213299 | 129 |
| 2360200010 | - | 142 |
| 2360250010 | - | 142 |
| 2364160009 | 2213131 | 127 |
| 2364160028 | 2218131 | 128 |
| 2364160088 | 2213291 | 129 |
| 2364160089 | 2213293 | 129 |
| 2364160090 | 2213295 | 129 |
| 2364160091 | 2213297 | 129 |
| 2364160093 | 2213301 | 129 |
| 2364160094 | 2213303 | 129 |
| 2364160095 | 2213305 | 129 |
| 2364160166 | 2218291 | 134 |
| 2364160167 | 2218293 | 134 |
| 2364160168 | 2218295 | 134 |
| 2364160169 | 2218297 | 134 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 2364160170 | 2218299 | 134 |
| 2364160171 | | |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 2367125335 | 2713256 | 132 |
| 2367125336 | 2713258 | 132 |
| 2367125337 | 2713260 | 132 |
| 2367125338 | 2713262 | 132 |
| 2367125340 | 2713266 | 132 |
| 2367125400 | 2718256 | 137 |
| 2367125401 | 2718258 | 137 |
| 2367125402 | 2718260 | 137 |
| 2367160041 | 2713130 | 127 |
| 2367160051 | 2718130 | 128 |
| 2367160342 | 2713290 | 132 |
| 2367160343 | 2713292 | 132 |
| 2367160344 | 2713294 | 132 |
| 2367160345 | 2713296 | 132 |
| 2367160346 | 2713298 | 132 |
| 2367160347 | 2713300 | 132 |
| 2367160348 | 2713302 | 132 |
| 2367160349 | 2713304 | 132 |
| 2367160407 | 2718290 | 137 |
| 2367160408 | 2718292 | 137 |
| 2367160409 | 2718294 | 137 |
| 2367160410 | 2718296 | 137 |
| 2367160411 | 2718298 | 137 |
| 2367160412 | 2718300 | 137 |
| 2367160413 | 2718302 | 137 |
| 2367160414 | 2718304 | 137 |
| 2367200042 | 2713134 | 127 |
| 2367200052 | 2718134 | 128 |
| 2367200350 | 2713332 | 133 |
| 2367200351 | 2713334 | 133 |
| 2367200352 | 2713336 | 133 |
| 2367200353 | 2713338 | 133 |
| 2367200354 | 2713340 | 133 |
| 2367200355 | 2713342 | 133 |
| 2367200356 | 2713344 | 133 |
| 2367200357 | 2713346 | 133 |
| 2367200358 | 2713350 | 133 |
| 2367200415 | 2718332 | 138 |
| 2367200416 | 2718334 | 138 |
| 2367200417 | 2718336 | 138 |
| 2367200418 | 2718338 | 138 |
| 2367200419 | 2718340 | 138 |
| 2367200420 | 2718342 | 138 |
| 2367200421 | 2718344 | 138 |
| 2367200422 | 2718346 | 138 |
| 2367200423 | 2718350 | 138 |
| 2367250043 | 2713138 | 127 |
| 2367250053 | 2718138 | 128 |
| 2367250359 | 2713382 | 133 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 2367250360 | 2713384 | 133 |
| 2367250361 | 2713386 | 133 |
| 2367250362 | 2713388 | 133 |
| 2367250363 | 2713390 | 133 |
| 2367250364 | 2713392 | 133 |
| 2367250365 | 2713394 | 133 |
| 2367250366 | 2713396 | 133 |
| 2367250367 | 2713400 | 133 |
| 2367250368 | 2713402 | 133 |
| 2367250424 | 2718382 | 138 |
| 2367250425 | 2718384 | 138 |
| 2367250426 | 2718386 | 138 |
| 2367250427 | 2718388 | 138 |
| 2367250428 | 2718390 | 138 |
| 2367250429 | 2718392 | 138 |
| 2367250430 | 2718394 | 138 |
| 2367250431 | 2718396 | 138 |
| 2367250432 | 2718400 | 138 |
| 2367250433 | 2718402 | 138 |
| 2367315044 | 2713142 | 127 |
| 2367315054 | 2718142 | 128 |
| 2367315369 | 2713406 | 133 |
| 2367315370 | 2713408 | 133 |
| 2367315371 | 2713410 | 133 |
| 2367315372 | 2713412 | 133 |
| 2367315373 | 2713414 | 133 |
| 2367315374 | 2713416 | 133 |
| 2367315375 | 2713418 | 133 |
| 2367315376 | 2713420 | 133 |
| 2367315377 | 2713424 | 133 |
| 2367315378 | 2713428 | 133 |
| 2367315379 | 2713432 | 133 |
| 2367315434 | 2718406 | 138 |
| 2367315435 | 2718408 | 138 |
| 2367315436 | 2718410 | 138 |
| 2367315437 | 2718412 | 138 |
| 2367315438 | 2718414 | 138 |
| 2367315439 | 2718416 | 138 |
| 2367315440 | 2718418 | 138 |
| 2367315441 | 2718420 | 138 |
| 2367315442 | 2718424 | 138 |
| 2367315443 | 2718428 | 138 |
| 2367315444 | 2718432 | 138 |
| 2367355045 | 2713144 | 138 |
| 2367355055 | 2718144 | 128 |
| 2367355380 | 2713436 | 133 |
| 2367355381 | 2713438 | 133 |
| 2367355382 | 2713440 | 133 |
| 2367355383 | 2713442 | 133 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 2367355384 | 2713444 | 133 |
| 2367355385 | 2713446 | 133 |
| 2367355386 | 2713448 | 133 |
| 2367355387 | 2713450 | 133 |
| 2367355388 | 2713454 | 133 |
| 2367355389 | 2713458 | 133 |
| 2367355390 | 2713462 | 133 |
| 2367355391 | 2713466 | 133 |
| 2367355445 | 2718436 | 136 |
| 2367355446 | 2718438 | 138 |
| 2367355447 | 2718440 | 138 |
| 2367355448 | 2718442 | 138 |
| 2367355449 | 2718444 | 138 |
| 2367355450 | 2718446 | 138 |
| 2367355451 | 2718448 | 138 |
| 2367355452 | 2718450 | 138 |
| 2367355453 | 2718454 | 138 |
| 2367355454 | 2718458 | 138 |
| 2367355455 | 2718462 | 138 |
| 2367355456 | 2718466 | 138 |
| 2370032001 | - | 141 |
| 2370040001 | - | 141 |
| 2370050001 | - | 141 |
| 2370063001 | - | 141 |
| 2370075001 | - | 141 |
| 2370090001 | - | 141 |
| 2370110001 | - | 141 |
| 2370125001 | - | 141 |
| 2370160001 | - | 141 |
| 2370200001 | - | 141 |
| 2370250001 | - | 141 |
| 2370315001 | - | 141 |
| 2380032001 | - | 141 |
| 2380032002 | - | 141 |
| 2380032080 | 2212112 | 126 |
| 2380040001 | - | 141 |
| 2380040002 | - | 141 |
| 2380040082 | 2212114 | 126 |
| 2380050001 | - | 141 |
| 2380050002 | - | 141 |
| 2380050084 | 2212116 | 126 |
| 2380063001 | - | 141 |
| 2380063002 | - | 141 |
| 2380063086 | 2212118 | 126 |
| 2380075001 | - | 141 |
| 2380075002 | - | 141 |
| 2380075088 | 2212120 | 126 |
| 2380090001 | - | 141 |
| 2380090002 | - | 141 |

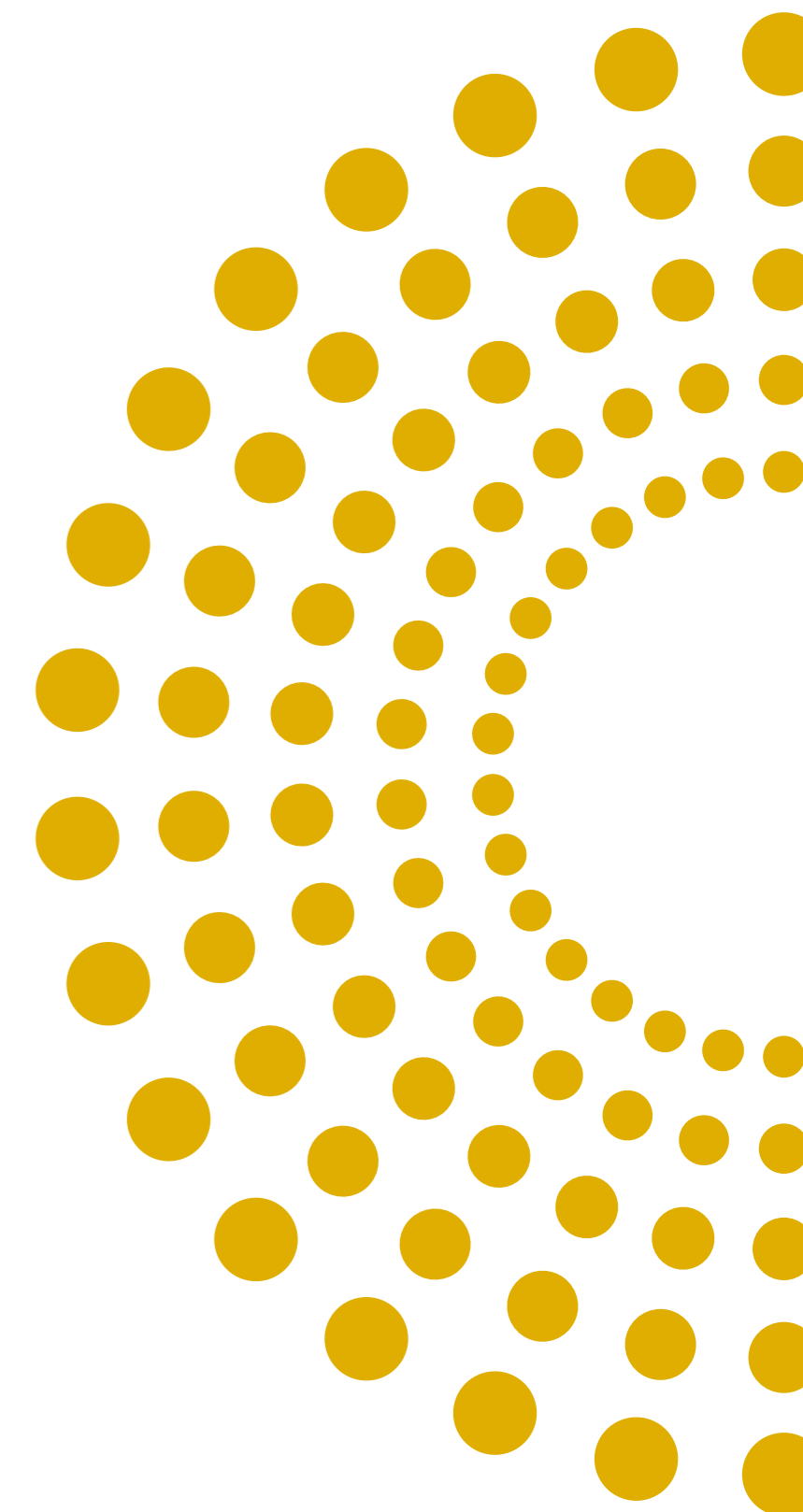
| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 2380090090 | 2212122 | 126 |
| 2380110001 | - | 141 |
| 2380110002 | - | 141 |
| 2380110091 | 2212124 | 126 |
| 2380125001 | - | 141 |
| 2380125002 | - | 141 |
| 2380125092 | 2212126 | 126 |
| 2380160001 | - | 141 |
| 2380160002 | - | 141 |
| 2380200001 | - | 141 |
| 2380200002 | - | 141 |
| 2380250001 | - | 141 |
| 2380250002 | - | 141 |
| 2384032060 | 2212512 | 124 |
| 2384032081 | 2212212 | 125 |
| 2384040083 | 2212214 | 125 |
| 2384050062 | 2212516 | 124 |
| 2384050085 | 2212216 | 125 |
| 2384063063 | 2212518 | 124 |
| 2384063087 | 2212218 | 125 |
| 2384075064 | 2212520 | 124 |
| 2384075089 | 2212220 | 125 |
| 2384090065 | 2212522 | 124 |
| 2384110061 | 2212514 | 124 |
| 2384110066 | 2212524 | 124 |
| 2384125067 | 2212526 | 124 |
| 2384160069 | 2212531 | 124 |
| 2384160094 | 2212131 | 126 |
| 2384200071 | 2212535 | 124 |
| 2384200096 | 2212135 | 126 |
| 2384250073 | 2212539 | 124 |
| 2384250098 | 2212139 | 126 |
| 2384315075 | 2212543 | 124 |
| 2384315100 | 2212143 | 126 |
| 2384355077 | 2212545 | 124 |
| 2384355102 | 2212145 | 126 |
| 2387125068 | 2712526 | 125 |
| 2387125093 | 2712126 | 126 |
| 2387160070 | 2712530 | 125 |
| 2387160095 | 2712130 | 126 |
| 2387200072 | 2712534 | 125 |
| 2387200097 | 2712134 | 126 |
| 2387250074 | 2712538 | 125 |
| 2387250099 | 2712138 | 126 |
| 2387315076 | 2712542 | 125 |
| 2387315101 | 2712142 | 126 |
| 2387355078 | 2712544 | 125 |
| 2387355103 | 2712144 | 126 |
| 2390032001 | 1214112 | 146 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 2390050002 | 1214114 | 146 |
| 2390075003 | 1214118 | 146 |
| 2390090004 | 1214122 | 146 |
| 2390110005 | 1214124 | 146 |
| 2390125006 | 1214126 | 146 |
| 2390160007 | 1214130 | 146 |
| 2390200008 | 1214134 | 146 |
| 2390250009 | 1214138 | 146 |
| 2390315010 | 1214142 | 146 |
| 2414032010 | 2470711 | 122 |
| 2414032110 | 2470712 | 123 |
| 2414040012 | 2470113 | 122 |
| 2414040112 | 2470114 | 123 |
| 2414050014 | 2470115 | 122 |
| 2414050114 | 2470116 | 123 |
| 2414063016 | 2470117 | 122 |
| 2414063116 | 2470118 | 123 |
| 2414075018 | 2470119 | 122 |
| 2414075118 | 2470120 | 123 |
| 2414090020 | 2470121 | 122 |
| 2414090120 | 2470122 | 123 |
| 2414110022 | 2470123 | 122 |
| 2414110122 | 2470124 | 123 |
| 2414125024 | 2470125 | 122 |
| 2414125124 | 2470126 | 123 |
| 2414160026 | 2470129 | 122 |
| 2414160126 | 2470130 | 123 |
| 2414200028 | 2470133 | 122 |
| 2414200128 | 2470134 | 123 |
| 2414250030 | 2470137 | 122 |
| 2414250130 | 2470138 | 123 |
| 2460032001 | 2413112 | 127 |
| 2460032020 | 2418112 | 128 |
| 2460040002 | 2413114 | 127 |
| 2460040021 | 2418114 | 128 |
| 2460040220 | 2413202 | 131 |
| 2460040280 | 2418202 | 136 |
| 2460050003 | 2413116 | 127 |
| 2460050022 | 2418116 | 128 |
| 2460050221 | 2413206 | 131 |
| 2460050222 | 2413208 | 131 |
| 2460050281 | 2418206 | 136 |
| 2460050282 | 2418208 | 136 |
| 2460063004 | 2413118 | 127 |
| 2460063023 | 2413118 | 128 |
| 2460063223 | 2413212 | 131 |
| 2460063224 | 2413214 | 131 |
| 2460063225 | 2413216 | 131 |
| 2460063283 | 2418212 | 136 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 2460063284 | 2418214 | 136 |
| 2460063285 | 2418216 | 136 |
| 2460075005 | 2413120 | 127 |
| 2460075024 | 2418120 | 128 |
| 2460075226 | 2413220 | 131 |
| 2460075227 | 2413222 | 131 |
| 2460075228 | 2413224 | 131 |
| 2460075229 | 2413226 | 131 |
| 2460075286 | 2418220 | 136 |
| 2460075287 | 2418222 | 136 |
| 2460075288 | 2418224 | 136 |
| 2460075289 | 2418226 | 136 |
| 2460090006 | 2413122 | 127 |
| 2460090025 | 2418122 | 128 |
| 2460090230 | 2413230 | 131 |
| 2460090231 | 2413232 | 131 |
| 2460090232 | 2413234 | 131 |
| 2460090233 | 2413236 | 131 |
| 2460090234 | 2413238 | 131 |
| 2460090290 | 2418230 | 136 |
| 2460090291 | 2418232 | 136 |
| 2460090292 | 2418234 | 136 |
| 2460090293 | 2418236 | 136 |
| 2460090294 | 2418238 | 136 |
| 2460110007 | 2413124 | 127 |
| 2460110026 | 2418124 | 128 |
| 2460110235 | 2413242 | 131 |
| 2460110236 | 2413244 | 131 |
| 2460110237 | 2413246 | 131 |
| 2460110238 | 2413248 | 131 |
| 2460110239 | 2413250 | 131 |
| 2460110240 | 2413252 | 131 |
| 2460110295 | 2418242 | 136 |
| 2460110296 | 2418244 | 136 |
| 2460110297 | 2418246 | 136 |
| 2460110298 | 2418248 | 136 |
| 2460110299 | 2418250 | 136 |
| 2460110300 | 2418252 | 136 |
| 2460125008 | 2413126 | 127 |
| 2460125027 | 2418126 | 128 |
| 2460125241 | 2413256 | 131 |
| 2460125242 | 2413258 | 131 |
| 2460125243 | 2413260 | 131 |
| 2460125244 | 2413262 | 131 |
| 2460125245 | 2413264 | 131 |
| 2460125246 | 2413266 | 131 |
| 2460125247 | 2413268 | 131 |
| 2460125301 | 2418256 | 136 |
| 2460125302 | 2418258 | 136 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 2460125303 | 2418260 | 136 |
| 2460125304 | 2418262 | 136 |
| 2460125305 | 2418264 | 136 |
| 2460125306 | 2418266 | 136 |
| 2460125307 | 2418268 | 136 |
| 24641600 | | |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 9701214222 | 1214222 | 147 |
| 9701214224 | 1214224 | 147 |
| 9701214226 | 1214226 | 147 |
| 9701214230 | 1214230 | 147 |
| 9701214234 | 1214234 | 147 |
| 9701214238 | 1214238 | 147 |
| 9701214242 | 1214242 | 147 |
| 9701214244 | 1214244 | 147 |
| 9702411000 | 2411000 | 146 |
| 9702411001 | 2411001 | 146 |
| 9702411002 | 2411002 | 147 |



| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 3012025008 | 4170710 | 150 |
| 3012032010 | 4170712 | 150 |
| 3012040012 | 4170714 | 150 |
| 3012050014 | 4170716 | 150 |
| 3012063016 | 4170718 | 150 |
| 3012075018 | 4170720 | 150 |
| 3012090020 | 4170722 | 150 |
| 3012110022 | 4170724 | 150 |
| 3012125024 | 4170726 | 150 |
| 3020025008 | 4114110 | 150 |
| 3020032010 | 4114112 | 154 |
| 3020040012 | 4114114 | 154 |
| 3020050014 | 4114116 | 154 |
| 3020063016 | 4114118 | 154 |
| 3020075018 | 4114120 | 154 |
| 3020090020 | 4114122 | 154 |
| 3020110022 | 4114124 | 154 |
| 3020125024 | 4114126 | 154 |
| 3030040021 | 4128214 | 160 |
| 3030050022 | 4128216 | 160 |
| 3030063001 | 4115168 | 157 |
| 3030063022 | - | 160 |
| 3030075002 | 4115174 | 157 |
| 3030075003 | 4115175 | 157 |
| 3030075004 | - | 160 |
| 3030075023 | 4128260 | 160 |
| 3030090004 | 4115180 | 157 |
| 3030090005 | 4115181 | 157 |
| 3030090024 | 4128262 | 160 |
| 3030110006 | 4115186 | 157 |
| 3030110007 | 4115188 | 157 |
| 3030110008 | 4115189 | 157 |
| 3030110025 | 4128264 | 160 |
| 3030125009 | 4115194 | 157 |
| 3030125010 | 4115196 | 157 |
| 3030125011 | 4115197 | 157 |
| 3030125012 | 4115198 | 157 |
| 3030125026 | 4128266 | 160 |
| 3040025020 | 4111010 | 150 |
| 3040032000 | 4113712 | 153 |
| 3040032021 | 4111012 | 150 |
| 3040032030 | 4111116 | 150 |
| 3040040001 | 4113714 | 153 |
| 3040040022 | 4111014 | 150 |
| 3040040031 | 4111122 | 150 |
| 3040050010 | 4113750 | 153 |
| 3040050023 | 4111016 | 150 |
| 3040050032 | 4111128 | 150 |
| 3040050033 | 4111130 | 150 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 3040063005 | 4111238 | 151 |
| 3040063011 | 4113756 | 153 |
| 3040063012 | 4113758 | 153 |
| 3040063024 | 4111018 | 150 |
| 3040063034 | 4111138 | 150 |
| 3040075006 | 4111242 | 151 |
| 3040075013 | 4113764 | 153 |
| 3040075014 | 4113766 | 153 |
| 3040075015 | 4113768 | 153 |
| 3040075025 | 4111020 | 150 |
| 3040075035 | 4111140 | 150 |
| 3040075036 | 4111142 | 150 |
| 3040090007 | 4111253 | 151 |
| 3040090016 | 4113776 | 153 |
| 3040090026 | 4111022 | 150 |
| 3040090037 | 4111152 | 150 |
| 3040090038 | 4111153 | 150 |
| 3040110027 | 4111024 | 150 |
| 3040110039 | 4111155 | 150 |
| 3040110040 | 4111159 | 150 |
| 3040125028 | 4111026 | 150 |
| 3040125041 | 4111163 | 150 |
| 3040125042 | 4111165 | 150 |
| 3050000010 | 4114185 | 155 |
| 3050000011 | 4114186 | 155 |
| 3050000013 | 4114187 | 155 |
| 3050000015 | 4114206 | 156 |
| 3050000016 | 4114207 | 156 |
| 3050000017 | 4114208 | 156 |
| 3050000020 | 4114212 | 156 |
| 3050000021 | 4114213 | 156 |
| 3050000022 | 4114214 | 156 |
| 3050000023 | 4114220 | 156 |
| 3050032001 | 4115512 | 157 |
| 3050040002 | 4115514 | 157 |
| 3050050003 | 4115516 | 157 |
| 3050063004 | 4115518 | 157 |
| 3050075005 | 4115520 | 157 |
| 3050090006 | 4115522 | 157 |
| 3050110007 | 4115524 | 157 |
| 3050125008 | 4115527 | 157 |
| 3060025012 | 4113110 | 152 |
| 3060025030 | 4125010 | 159 |
| 3060032013 | 4113112 | 152 |
| 3060032031 | 4125013 | 159 |
| 3060032032 | 4125014 | 159 |
| 3060032033 | 4125016 | 159 |
| 3060040010 | 4113546 | 153 |
| 3060040014 | 4113114 | 152 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 3060040034 | 4125018 | 159 |
| 3060040035 | 4125019 | 159 |
| 3060040036 | 4125020 | 159 |
| 3060050004 | 4113116 | 152 |
| 3060050011 | 4113550 | 153 |
| 3060050012 | 4113551 | 153 |
| 3060050037 | 4125022 | 159 |
| 3060050038 | 4125024 | 159 |
| 3060050040 | 4125030 | 159 |
| 3060050041 | 4125031 | 159 |
| 3060063005 | 4113118 | 152 |
| 3060063013 | 4113556 | 153 |
| 3060063014 | 4113558 | 153 |
| 3060063015 | 4113560 | 153 |
| 3060075006 | 4113120 | 152 |
| 3060075016 | 4113566 | 153 |
| 3060075017 | 4113568 | 153 |
| 3060075018 | 4113570 | 153 |
| 3060090007 | 4113122 | 152 |
| 3060090019 | 4113578 | 153 |
| 3060090020 | 4113580 | 153 |
| 3060090021 | 4113582 | 153 |
| 3060090022 | 4113584 | 153 |
| 3060110008 | 4113124 | 152 |
| 3060110023 | 4113586 | 153 |
| 3060110024 | 4113588 | 153 |
| 3060110025 | 4113590 | 153 |
| 3060125009 | 4113126 | 152 |
| 3060125026 | 4113592 | 153 |
| 3060125027 | 4113594 | 153 |
| 3060125028 | 4113596 | 153 |
| 3070025020 | 4121011 | 158 |
| 3070025021 | 4121012 | 158 |
| 3070032001 | 4123015 | 159 |
| 3070032003 | 4123016 | 159 |
| 3070032004 | 4123018 | 159 |
| 3070032022 | 4121013 | 158 |
| 3070032023 | 4121014 | 158 |
| 3070032026 | 4121113 | 158 |
| 3070032027 | 4121114 | 158 |
| 3070032035 | 4121153 | 158 |
| 3070032037 | 4121313 | 158 |
| 3070032038 | 4121314 | 158 |
| 3070032039 | 4121316 | 158 |
| 3070040004 | 4123020 | 159 |
| 3070040005 | 4123022 | 159 |
| 3070040010 | 4127054 | 159 |
| 3070040024 | 4121016 | 158 |
| 3070040025 | 4121017 | 158 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 3070040028 | 4121115 | 158 |
| 3070040029 | 4121116 | 158 |
| 3070040036 | 4121154 | 158 |
| 3070040040 | 4121317 | 158 |
| 3070040041 | 4121318 | 158 |
| 3070050011 | 4127056 | 159 |
| 3070050030 | 4121117 | 158 |
| 3070050031 | 4121118 | 158 |
| 3070050042 | 4121319 | 158 |
| 3070050043 | 4121320 | 158 |
| 3070063012 | 4127058 | 159 |
| 3070063032 | 4121119 | 158 |
| 3070063033 | 4121120 | 158 |
| 3070063044 | 4121321 | 158 |
| 3070063045 | 4121322 | 158 |
| 3070075013 | 4127060 | 159 |
| 3070075034 | 4121122 | 158 |
| 3070075046 | 4121323 | 158 |
| 3070075047 | 4121324 | 158 |
| 3070090014 | 4127062 | 159 |
| 3070090048 | 4121325 | 158 |
| 3070110015 | 4127064 | 159 |
| 3070110049 | 4121327 | 158 |
| 3070125016 | 4127066 | 159 |
| 3080025001 | 4112110 | 151 |
| 3080025020 | 4112510 | 152 |
| 3080032002 | 4112112 | 151 |
| 3080032010 | 4112312 | 151 |
| 3080032021 | 4112512 | 152 |
| 3080032029 | 4112712 | 152 |
| 3080040003 | 4112114 | 151 |
| 3080040011 | 4112314 | 151 |
| 3080040022 | 4112514 | 152 |
| 3080040030 | 4112714 | 152 |
| 3080050004 | 4112116 | 151 |
| 3080050023 | 4112516 | 152 |
| 3080063005 | 4112118 | 151 |
| 3080063024 | 4112518 | 152 |
| 3080075006 | 4112120 | 151 |
| 3080075025 | 4112520 | 152 |
| 3080090007 | 4112122 | 151 |
| 3080090026 | 4112522 | 152 |
| 3080110008 | 4112124 | 151 |
| 3080110027 | 4112524 | 152 |
| 3080125009 | 4112126 | 151 |
| 3080125028 | 4112526 | 152 |
| 3090000001 | 4114180 | 154 |
| 3090000002 | 4114181 | 154 |
| 3090000003 | 4114182 | 154 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 3090000004 | 4114183 | 154 |
| 3090000005 | 4114190 | 154 |
| 3090000006 | 4114191 | 155 |
| 3090000007 | 4114192 | 155 |
| 3090000008 | 4114193 | 155 |
| 3090000009 | 4114200 | 155 |
| 3090000010 | 4114201 | 155 |
| 3090000011 | 4114202 | 155 |
| 3090000012 | 4160600 | 160 |
| 7000050307 | 50307 | 156 |
| 7000050311 | 50311 | 156 |
| 9604114200 | 4115712 | 157 |
| 9604114201 | 4115714 | 157 |
| 9604114202 | 4115716 | 157 |
| 9604114206 | 4115718 | 157 |
| 9604114207 | 4115720 | 157 |
| 9604114208 | 4115722 | 157 |
| 9604114212 | 4115724 | 157 |
| 9604114213 | 4115726 | 157 |
| 9604114230 | - | 156 |
| 9604114231 | 4114230 | 152 |
| 9604114232 | - | 156 |
| 9604114233 | 4114232 | 152 |
| 9604114234 | - | 156 |
| 9604114235 | 4114234 | 152 |
| 9604114236 | - | 156 |
| 9604114237 | 4114236 | 152 |
| 9704114178 | 4114178 | 155 |
| 9704114179 | 4114179 | 155 |
| 9800050290 | 50290 | 160 |
| 9800050291 | 50291 | 161 |
| 9800050307 | - | 160 |
| 9800050311 | - | 160 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 1090000035 | 60600 | 173 |
| 3090000012 | 4160600 | 173 |
| 7000050307 | 50307 | 169 |
| 7000050311 | 50311 | 169 |
| 9700099739 | 99739 | 169 |
| 9800000001 | 50190 | 170 |
| 9800000002 | - | 175 |
| 9800050102 | 50102 | 167 |
| 9800050103 | 50103 | 167 |
| 9800050104 | 50104 | 167 |
| 9800050105 | 50105 | 167 |
| 9800050106 | 50106 | 167 |
| 9800050107 | 50107 | 168 |
| 9800050108 | 50108 | 167 |
| 9800050109 | 50109 | 168 |
| 9800050145 | 50145 | 164 |
| 9800050148 | 50148 | 164 |
| 9800050151 | 50151 | 165 |
| 9800050161 | 50161 | 164 |
| 9800050165 | 50165 | 164 |
| 9800050166 | 50166 | 164 |
| 9800050169 | 50169 | 164 |
| 9800050175 | 50175 | 164 |
| 9800050188 | 50188 | 174 |
| 9800050190 | - | 174 |
| 9800050193 | 50193 | 174 |
| 9800050195 | 50195 | 174 |
| 9800050206 | 50206 | 165 |
| 9800050208 | 50208 | 165 |
| 9800050210 | 50210 | 165 |
| 9800050212 | 50212 | 165 |
| 9800050214 | 50214 | 165 |
| 9800050216 | 50216 | 165 |
| 9800050218 | 50218 | 165 |
| 9800050220 | 50220 | 165 |
| 9800050222 | 50222 | 165 |
| 9800050224 | 50224 | 165 |
| 9800050226 | 50226 | 165 |
| 9800050285 | 50285 | 174 |
| 9800050290 | 50290 | 175 |
| 9800050291 | 50291 | 175 |
| 9800050307 | - | 173 |
| 9800050311 | - | 173 |
| 9800050330 | 50330 | 164 |
| 9800050336 | 50336 | 164 |
| 9800050337 | 50337 | 164 |
| 9800050341 | 50341 | 164 |
| 9800050350 | 50350 | 165 |
| 9800050351 | 50351 | 165 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 9800050352 | 50352 | 165 |
| 9800050353 | 50353 | 165 |
| 9800050355 | 50355 | 165 |
| 9800050356 | 50356 | 165 |
| 9800050357 | 50357 | 165 |
| 9800050421 | 50421 | 170 |
| 9800050422 | 50422 | 170 |
| 9800050424 | 50424 | 170 |
| 9800050426 | 50426 | 170 |
| 9800050428 | 50428 | 170 |
| 9800050440 | 50440 | 169 |
| 9800050441 | 50441 | 169 |
| 9800050477 | 50477 | 168 |
| 9800050478 | 50478 | 169 |
| 9800050479 | 50479 | 168 |
| 9800050480 | 50480 | 168 |
| 9800050481 | 50481 | 168 |
| 9800050482 | 50482 | 168 |
| 9800050483 | 50483 | 168 |
| 9800050484 | 50484 | 168 |
| 9800050485 | 50485 | 168 |
| 9800050486 | 50486 | 168 |
| 9800050487 | 50487 | 168 |
| 9800050488 | 50488 | 168 |
| 9800050489 | 50489 | 169 |
| 9800050490 | 50490 | 169 |
| 9800050491 | 50491 | 169 |
| 9800050492 | 50492 | 169 |
| 9800050493 | 50493 | 169 |
| 9800050494 | 50494 | 169 |
| 9800050495 | 50495 | 169 |
| 9800050496 | 50496 | 169 |
| 9800050497 | 50497 | 169 |
| 9800050498 | 50498 | 169 |
| 9800050499 | 50499 | 168 |
| 9800050500 | 50500 | 168 |
| 9800050501 | 50501 | 168 |
| 9800050509 | 50509 | 171 |
| 9800050510 | 50510 | 174 |
| 9800050530 | 50530 | 174 |
| 9800050558 | 50558 | 169 |
| 9800050560 | 50560 | 169 |
| 9800050562 | 50562 | 169 |
| 9800050564 | 50564 | 169 |
| 9800050566 | 50566 | 169 |
| 9800050568 | 50568 | 169 |
| 9800050570 | 50570 | 169 |
| 9800050572 | 50572 | 169 |
| 9800050574 | 50574 | 169 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 9800050576 | 50576 | 169 |
| 9800050580 | 50580 | 169 |
| 9800050592 | 50592 | 169 |
| 9800050614 | 50614 | 166 |
| 9800050616 | 50616 | 166 |
| 9800050619 | 50619 | 166 |
| 9800050620 | 50620 | 166 |
| 9800050623 | 50623 | 166 |
| 9800050624 | 50624 | 166 |
| 9800050625 | 50625 | 166 |
| 9800050627 | 50627 | 166 |
| 9800050628 | 50628 | 166 |
| 9800050629 | 50629 | 166 |
| 9800050631 | 50631 | 166 |
| 9800050632 | 50632 | 166 |
| 9800050634 | 50634 | 166 |
| 9800050635 | 50635 | 166 |
| 9800050636 | 50636 | 166 |
| 9800050638 | 50638 | 166 |
| 9800050640 | 50640 | 166 |
| 9800050642 | 50642 | 166 |
| 9800050644 | 50644 | 166 |
| 9800050648 | 50648 | 166 |
| 9800050650 | 50650 | 166 |
| 9800050652 | 50652 | 166 |
| 9800050654 | 50654 | 166 |
| 9800050656 | 50656 | 166 |
| 9800050657 | 50657 | 166 |
| 9800050658 | 50658 | 166 |
| 9800050660 | 50660 | 166 |
| 9800050662 | 50662 | 166 |
| 9800050664 | 50664 | 166 |
| 9800050666 | 50666 | 166 |
| 9800050667 | 50667 | 166 |
| 9800050668 | 50668 | 166 |
| 9800050669 | 50669 | 166 |
| 9800050670 | 50670 | 166 |
| 9800050671 | 50671 | 166 |
| 9800050672 | 50672 | 166 |
| 9800050674 | 50674 | 166 |
| 9800050676 | 50676 | 166 |
| 9800050678 | 50678 | 166 |
| 9800050680 | 50680 | 166 |
| 9800050682 | 50682 | 166 |
| 9800050684 | 50684 | 166 |
| 9800050686 | 50686 | 166 |
| 9800050688 | 50688 | 166 |
| 9800050690 | 50690 | 166 |
| 9800050692 | 50692 | 166 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 9800050694 | 50694 | 167 |
| 9800050696 | 50696 | 167 |
| 9800050698 | 50698 | 167 |
| 9800050699 | 50699 | 167 |
| 9800050712 | 50712 | 167 |
| 9800050714 | 50714 | 167 |
| 9800050716 | 50716 | 167 |
| 9800050718 | 50718 | 167 |
| 9800050720 | 50720 | 167 |
| 9800050722 | 50722 | 167 |
| 9800050726 | 50726 | 167 |
| 9800050728 | 50728 | 167 |
| 9800050730 | 50730 | 167 |
| 9800050732 | 50732 | 167 |
| 9800050734 | 50734 | 167 |
| 9800050736 | 50736 | 167 |
| 9800050738 | 50738 | 167 |
| 9800050740 | 50740 | 167 |
| 9800050742 | 50742 | 167 |
| 9800050744 | 50744 | 167 |
| 9800050746 | 50746 | 167 |
| 9800050760 | 50760 | 172 |
| 9800050761 | 50761 | 172 |
| 9800050762 | 50762 | 172 |
| 9800050763 | 50763 | 172 |
| 9800050764 | 50764 | 172 |
| 9800050765 | 50765 | 172 |
| 9800050766 | 50766 | 172 |
| 9800050767 | 50767 | 172 |
| 9800050768 | 50768 | 172 |
| 9800050769 | 50769 | 172 |
| 9800050770 | 50770 | 172 |
| 9800050771 | 50771 | 172 |
| 9800050773 | 50773 | 172 |
| 9800050890 | 50890 | 172 |
| 9800050891 | 50891 | 172 |
| 9800050892 | 50892 | 172 |
| 9800050893 | 50893 | 172 |
| 9800050894 | 50894 | 172 |
| 9800050921 | 50921 | 170 |
| 9800050922 | 50922 | 170 |
| 9800050924 | 50924 | 170 |
| 9800050926 | 50926 | 170 |
| 9800050928 | 50928 | 170 |
| 9800050940 | 50940 | 170 |
| 9800050941 | 50941 | 170 |
| 9800050942 | 50942 | 170 |
| 9800050944 | 50944 | 170 |
| 9800050946 | 50946 | 170 |

| Article no. | Art. no. (old) | Page |
|-------------|----------------|------|
| 9800050948 | 50948 | 170 |
| 9800050969 | 50969 | 171 |
| 9800050971 | 50971 | 171 |
| 9800050973 | 50973 | 171 |
| 9800050974 | 50974 | 171 |
| 9800050975 | 50975 | 171 |
| 9800050976 | 50976 | 171 |
| 9800050977 | 50977 | 170 |
| 9800050978 | 50978 | 170 |
| 9800050979 | 50979 | 170 |
| 9800050987 | 50987 | 171 |
| 9800050988 | 50988 | 171 |
| 9800050989 | 50989 | 171 |
| 9800050990 | 50990 | 171 |
| 9800050991 | 50991 | 171 |
| 9800099909 | 99909 | 171 |

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