



PRODUCT CATALOGUE 2021



aquatherm

state of the pipe



NEW ARTICLES SINCE THE VERSION 4-2020

Page Art. no. Article

aquatherm blue pipe

31	2513130	aquatherm blue pipe SDR 17,6 T-piece 160 mm
31	2513134	aquatherm blue pipe SDR 17,6 T-piece 200mm
31	2513138	aquatherm blue pipe SDR 17,6 T-piece 250mm
53	14222	aquatherm blue pipe End cap with push-fit adapter SDR 11
53	14224	aquatherm blue pipe End cap with push-fit adapter SDR 11
53	14226	aquatherm blue pipe End cap with push-fit adapter SDR 11
53	14231	aquatherm blue pipe End cap with push-fit adapter SDR 11
53	14235	aquatherm blue pipe End cap with push-fit adapter SDR 11
53	14239	aquatherm blue pipe End cap with push-fit adapter SDR 11
53	14243	aquatherm blue pipe End cap with push-fit adapter SDR 11
53	14245	aquatherm blue pipe End cap with push-fit adapter SDR 11
53	14247	aquatherm blue pipe End cap with push-fit adapter SDR 11
53	14249	aquatherm blue pipe End cap with push-fit adapter SDR 11
53	2514230	aquatherm blue pipe End cap with push-fit adapter SDR 17,6
53	2514234	aquatherm blue pipe End cap with push-fit adapter SDR 17,6
53	2514238	aquatherm blue pipe End cap with push-fit adapter SDR 17,6
53	2514242	aquatherm blue pipe End cap with push-fit adapter SDR 17,6
53	2514244	aquatherm blue pipe End cap with push-fit adapter SDR 17,6
53	2514246	aquatherm blue pipe End cap with push-fit adapter SDR 17,6
53	2514248	aquatherm blue pipe End cap with push-fit adapter SDR 17,6
54	12222	aquatherm blue pipe Elbow 90° with push-fit adapter SDR 11
54	12224	aquatherm blue pipe Elbow 90° with push-fit adapter SDR 11
54	12226	aquatherm blue pipe Elbow 90° with push-fit adapter SDR 11
54	12231	aquatherm blue pipe Elbow 90° with push-fit adapter SDR 11
54	12235	aquatherm blue pipe Elbow 90° with push-fit adapter SDR 11
54	12239	aquatherm blue pipe Elbow 90° with push-fit adapter SDR 11
54	12243	aquatherm blue pipe Elbow 90° with push-fit adapter SDR 11
54	12245	aquatherm blue pipe Elbow 90° with push-fit adapter SDR 11
54	12247	aquatherm blue pipe Elbow 90° with push-fit adapter SDR 11
54	12249	aquatherm blue pipe Elbow 90° with push-fit adapter SDR 11
54	2512230	aquatherm blue pipe Elbow 90° with push-fit adapter SDR 17,6
54	2512234	aquatherm blue pipe Elbow 90° with push-fit adapter SDR 17,6
54	2512238	aquatherm blue pipe Elbow 90° with push-fit adapter SDR 17,6
54	2512242	aquatherm blue pipe Elbow 90° with push-fit adapter SDR 17,6
54	2512244	aquatherm blue pipe Elbow 90° with push-fit adapter SDR 17,6
54	2512246	aquatherm blue pipe Elbow 90° with push-fit adapter SDR 17,6
54	2512248	aquatherm blue pipe Elbow 90° with push-fit adapter SDR 17,6
55	12622	aquatherm blue pipe Elbow 45° with push-fit adapter SDR 11
55	12624	aquatherm blue pipe Elbow 45° with push-fit adapter SDR 11
55	12626	aquatherm blue pipe Elbow 45° with push-fit adapter SDR 11
55	12631	aquatherm blue pipe Elbow 45° with push-fit adapter SDR 11
55	12635	aquatherm blue pipe Elbow 45° with push-fit adapter SDR 11
55	12639	aquatherm blue pipe Elbow 45° with push-fit adapter SDR 11
55	12643	aquatherm blue pipe Elbow 45° with push-fit adapter SDR 11
55	12645	aquatherm blue pipe Elbow 45° with push-fit adapter SDR 11
55	12647	aquatherm blue pipe Elbow 45° with push-fit adapter SDR 11
55	12649	aquatherm blue pipe Elbow 45° with push-fit adapter SDR 11
55	2512630	aquatherm blue pipe Elbow 45° with push-fit adapter SDR 17,6
55	2512634	aquatherm blue pipe Elbow 45° with push-fit adapter SDR 17,6
55	2512638	aquatherm blue pipe Elbow 45° with push-fit adapter SDR 17,6
55	2512642	aquatherm blue pipe Elbow 45° with push-fit adapter SDR 17,6
55	2512644	aquatherm blue pipe Elbow 45° with push-fit adapter SDR 17,6
55	2512646	aquatherm blue pipe Elbow 45° with push-fit adapter SDR 17,6
55	2512648	aquatherm blue pipe Elbow 45° with push-fit adapter SDR 17,6

56	13222	aquatherm blue pipe T-pieces with push-fit adapter
56	13224	aquatherm blue pipe T-pieces with push-fit adapter
56	13226	aquatherm blue pipe T-pieces with push-fit adapter
56	13231	aquatherm blue pipe T-pieces with push-fit adapter
56	13235	aquatherm blue pipe T-pieces with push-fit adapter
56	13239	aquatherm blue pipe T-pieces with push-fit adapter
56	13243	aquatherm blue pipe T-pieces with push-fit adapter
56	13245	aquatherm blue pipe T-pieces with push-fit adapter
56	13247	aquatherm blue pipe T-pieces with push-fit adapter
56	13249	aquatherm blue pipe T-pieces with push-fit adapter
56	2513230	aquatherm blue pipe T-pieces with push-fit adapter
56	2513234	aquatherm blue pipe T-pieces with push-fit adapter
56	2513238	aquatherm blue pipe T-pieces with push-fit adapter
56	2513242	aquatherm blue pipe T-pieces with push-fit adapter
56	2513244	aquatherm blue pipe T-pieces with push-fit adapter
56	2513246	aquatherm blue pipe T-pieces with push-fit adapter
56	2513248	aquatherm blue pipe T-pieces with push-fit adapter
56	50530	Chain hoist
57	50532	Chamfering tool Widos 250 – 500 mm
57	50533	Tension band width 50 mm including drawbar eyes
57	50534	Brush
57	50535	Lubricant

aquatherm green pipe

91	2211211	aquatherm green pipe electrofusion socket TI WTD 32mm MR90
91	2211213	aquatherm green pipe electrofusion socket TI WTD 40mm MR110
91	2211215	aquatherm green pipe electrofusion socket TI WTD 50mm MR110
91	2211217	aquatherm green pipe electrofusion socket TI WTD 63mm MR125
91	2211219	aquatherm green pipe electrofusion socket TI WTD 75mm MR140
91	2211221	aquatherm green pipe electrofusion socket TI WTD 90mm MR160
91	2211223	aquatherm green pipe electrofusion socket TI WTD 110mm MR200
91	2211225	aquatherm green pipe electrofusion socket TI WTD 125mm MR225
91	2211229	aquatherm green pipe electrofusion socket TI WTD 160mm MR250
91	2211233	aquatherm green pipe electrofusion socket TI WTD 200mm MR315
91	2211237	aquatherm green pipe electrofusion socket TI WTD 250mm MR400

All prices are for piece, m, m², kg or set. PU = packaging unit

Recommended retail price of the manufacturer.

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

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

DELETED ARTICLES SINCE THE VERSION 4-2020

Page Art. no. Article

aquatherm green pipe

14	370744	aquatherm green pipe SDR 9 MF RP pipe 355 mm
16	370788	aquatherm green pipe SDR 9 MF RP UV pipe 250 mm
16	370792	aquatherm green pipe SDR 9 MF RP UV pipe 315 mm
16	370794	aquatherm green pipe SDR 9 MF RP UV pipe 355 mm
19	10244	aquatherm green pipe SDR 11 S / MF pipe 355 mm
19	10246	aquatherm green pipe SDR 11 S / MF pipe 400 mm
19	10248	aquatherm green pipe SDR 11 S / MF pipe 450 mm
28	311196	aquatherm green pipe reducing socket butt welding 355 mm
28	311198	aquatherm green pipe reducing socket butt welding 355 mm
30	312144	aquatherm green pipe SDR 9 elbow 90° butt welding 355 mm
30	12145	aquatherm green pipe SDR 11 elbow 90° butt welding 355 mm
30	12147	aquatherm green pipe SDR 11 elbow 90° butt welding 400 mm
30	12149	aquatherm green pipe SDR 11 elbow 90° butt welding 450 mm
32	312544	aquatherm green pipe SDR 9 elbow 45° butt welding 355 mm
32	12545	aquatherm green pipe SDR 11 elbow 45° butt welding 355 mm
32	12547	aquatherm green pipe SDR 11 elbow 45° butt welding 400 mm
32	12549	aquatherm green pipe SDR 11 elbow 45° butt welding 450 mm
33	313144	aquatherm green pipe SDR 9 T-piece butt welding 355 mm
33	13145	aquatherm green pipe SDR 11 T-piece butt welding 355 mm
33	13147	aquatherm green pipe SDR 11 T-piece butt welding 400 mm
33	13149	aquatherm green pipe SDR 11 T-piece butt welding 450 mm
36	313916	aquatherm green pipe SDR 9 Red.-T-piece socket welding 355 mm
37	313918	aquatherm green pipe SDR 9 Red.-T-piece butt welding 355 mm
37	313920	aquatherm green pipe SDR 9 Red.-T-piece butt welding 355 mm
37	313922	aquatherm green pipe SDR 9 Red.-T-piece butt welding 355 mm
37	313924	aquatherm green pipe SDR 9 Red.-T-piece butt welding 355 mm
37	13665	aquatherm green pipe SDR 11 Red.-T-piece butt welding 355 mm
37	13667	aquatherm green pipe SDR 11 Red.-T-piece butt welding 355 mm
37	13669	aquatherm green pipe SDR 11 Red.-T-piece butt welding 355 mm
37	13671	aquatherm green pipe SDR 11 Red.-T-piece butt welding 355 mm
37	13678	aquatherm green pipe SDR 11 Red.-T-piece butt welding 400 mm
37	13680	aquatherm green pipe SDR 11 Red.-T-piece butt welding 355 mm
37	13682	aquatherm green pipe SDR 11 Red.-T-piece butt welding 400 mm
37	13684	aquatherm green pipe SDR 11 Red.-T-piece butt welding 400 mm
37	13685	aquatherm green pipe SDR 11 Red.-T-piece butt welding 400 mm
37	13692	aquatherm green pipe SDR 11 Red.-T-piece butt welding 450 mm
37	13694	aquatherm green pipe SDR 11 Red.-T-piece butt welding 450 mm
37	13696	aquatherm green pipe SDR 11 Red.-T-piece butt welding 450 mm
37	13698	aquatherm green pipe SDR 11 Red.-T-piece butt welding 450 mm
37	13699	aquatherm green pipe SDR 11 Red.-T-piece butt welding 450 mm
37	13700	aquatherm green pipe SDR 11 Red.-T-piece butt welding 400 mm
38	13663	aquatherm green pipe SDR 11 Red.-T-piece socket welding 355 mm
38	13676	aquatherm green pipe SDR 11 Red.-T-piece socket welding 400 mm
38	13690	aquatherm green pipe SDR 11 Red.-T-piece socket welding 450 mm
49	315544	aquatherm green pipe SDR 9 flange adapter butt welding 355 mm

aquatherm blue pipe

73	98904–98906	extension for ball valve
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aquatherm TI

89	2211012–2211038	aquatherm TI socket PLA 32–250 mm
89	1211012–1211044	aquatherm TI socket CSC-X 32–355 mm
91	1311304	aquatherm green pipe ti reducing socket SDR 9 355 mm
91	1311306	aquatherm green pipe ti reducing socket SDR 9 355 mm

aquatherm orange system

144	99258	aquatherm orange system digital ice- and snow detector
144	99259	aquatherm orange system open space sensor

aquatherm grey pipe

118	79610	aquatherm grey pipe compression fitting
120	79550	aquatherm grey pipe double rosette, retractable
120	77020	aquatherm grey pipe potable water and radiator connection pipe 16x2,0 mm
120	77022	aquatherm grey pipe potable water and radiator connection pipe 20x2,0 mm
120	77024	aquatherm grey pipe potable water and radiator connection pipe 25x2,3 mm

TABLE OF CONTENTS

News:

- 8 – aquatherm push-fit fitting
A simple and fast connection method

CHAPTER 1 PIPE SYSTEMS *from page 10*

- 11 – **aquatherm green pipe**
- 18 – **aquatherm blue pipe**
- 22 – Primer, topcoat & fastening material
- 23 – Fittings
- 41 – Weld-in saddle
- 45 – Weld-on saddle
- 48 – Flange adapter incl. flange PN6
- 50 – Flow-through back plate elbow
- 60 – Threaded connections and accessories
- 60 – Transition pieces
- 71 – Screwed connections and counter parts
- 72 – Distributors
- 73 – Valves and accessories

CHAPTER 2 **aquatherm ti** *from page 81*

- 83 – Pipes
- 84 – Elbow
- 85 – Branch
- 86 – Cross-over branch
- 87 – Red. branch
- 89 – Red. cross-over branch
- 91 – Socket
- 95 – Accessories

CHAPTER 3 **aquatherm Tools** *from page 96*

- 96 – Cutting tools, welding devices
- 97 – Welding machines and welding jig
- 97 – Butt welding machines & electrofusion device
- 99 – Peeling tools
- 102 – Saddle welding tools
- 104 – Drills and saddle peeling tool
- 108 – Overview: Tools and equipment

CHAPTER 4 **aquatherm grey pipe** *from page 113*

- 114 – Pipes and accessories
- 115 – Flow-through back plate elbow
- 116 – Fittings
- 121 – Radiator connection elements
- 122 – Tools

CHAPTER 5 **aquatherm black system** *from page 124*

- 128 – High-performance modules for cooling ceilings
- 132 – Grids and accessories
- 138 – Pipes and fittings
- 138 – Grids for ceiling panels and accessories
- 141 – Adapter and tools
- 142 – Starter kit shower

CHAPTER 6 **aquatherm orange system** *from page 143*

- 144 – Pipes and accessories

CHAPTER 7 **aquatherm control components** *from page 147*

- 148 – Heating circuit manifold
- 148 – Valves and accessories
- 149 – Controls and accessories
- 149 – Connection system/thermostat
- 152 – Content
- 156 – Index
- 167 – Working pressure

PRODUCTS

aquatherm is the leading manufacturer of polypropylene pipe systems for plant engineering and building services. 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. The product range comprises more than 17,000 articles in six product lines.

		Dimension [mm]																	
		16	17	20	25	32	40	50	63	75	90	110	125	160	200	250	315	355	400
aquatherm green pipe	SDR 6 S	●		●	●	●	●	●	●	●	●	●							
aquatherm green pipe	SDR 7,4 S	●		●	●	●	●	●	●										
aquatherm green pipe	SDR 7,4 MF			●	●	●	●	●	●	●	●	●	●	●	●	●			
aquatherm green pipe	SDR 7,4 MF UV			●	●	●	●	●	●	●	●	●	●	●	●	●			
aquatherm green pipe	SDR 9 MF RP					●	●	●	●	●	●	●	●	●	●	●	●		
aquatherm green pipe	SDR 9 MF RP UV					●	●	●	●	●	●	●	●	●	●	●	●		
aquatherm green pipe	SDR 9 MF RP TI					●	●	●	●	●	●	●	●	●	●	●	●		
aquatherm green pipe	SDR 11 S			●	●	●	●	●	●	●	●	●	●	●	●	●	●		
aquatherm blue pipe	SDR 7,4 MF			●	●														
aquatherm blue pipe	SDR 7,4 MF UV			●	●														
aquatherm blue pipe	SDR 7,4 MF OT			●	●														
aquatherm blue pipe	SDR 9 MF RP					●													
aquatherm blue pipe	SDR 9 MF RP UV					●													
aquatherm blue pipe	SDR 9 MF RP OT					●													
aquatherm blue pipe	SDR 9 MF RP TI					●													
aquatherm blue pipe	SDR 9 MF RP OT TI					●													
aquatherm blue pipe	SDR 11 S			●	●														
aquatherm blue pipe	SDR 11 MF RP						●	●	●	●	●	●	●	●	●	●	●	●	●
aquatherm blue pipe	SDR 11 MF RP UV						●	●	●	●	●	●	●	●	●	●	●	●	●
aquatherm blue pipe	SDR 11 MF RP OT						●	●	●	●	●	●	●	●	●	●			
aquatherm blue pipe	SDR 11 MF RP TI						●	●	●	●	●	●	●	●	●	●	●	●	
aquatherm blue pipe	SDR 11 MF RP OT TI						●	●	●	●	●	●	●	●	●	●			
aquatherm blue pipe	SDR 17,6 MF RP												●	●	●	●	●	●	●
aquatherm blue pipe	SDR 17,6 MF RP UV												●	●	●	●	●	●	●
aquatherm blue pipe	SDR 17,6 MF RP TI												●	●	●	●	●	●	●
aquatherm red pipe	SDR 7,4 MF HI					●	●	●	●	●	●	●	●						
aquatherm black system	M OT																		
aquatherm orange system	M OT	●	●	●	●														
aquatherm grey pipe	M OT	●		●	●	●													

ABBREVIATIONS

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

			Fields of application										
450	500	630	potable water	HVAC	swimming pool	chemical fluids	recycled & reclaimed water	fire protection	com-pressed air	district heating	geo-thermal	shipbuild-ing sector	Refrigeration & air conditioning
			●	○	○	●	○		○	○	○	●	○
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			●	○	○	●	○		○	○	○	●	○
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				●	●	●	○		●	●	●	●	●
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●				●	●	●	○		●	●	●	●	●
●				●	●	●	○		●	●	●	●	●
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●	●	●		●	●	●	○		●	●	●	●	●
●	●	●		●	●	●	○		●	●	●	●	●
				●	●	●	○		●	●	●	●	●
								●					
				●									
				●									
			●	○	●	●	○		○	●	●	●	

System recommended due to its technical advantages: ●

Application of the system is suitable: ○

AQUATHERM PUSH-FIT FITTING

A simple and fast connection method

Leak-free joints in just a few minutes: This is what the new aquatherm push-fit fittings offer. They provide a simple, fast and at the same time secure connection for aquatherm blue pipes in heating, cooling and industrial applications.

Thanks to the simple push-fit system, aquatherm piping systems can be connected up to 40% faster than with electrofusion socket welding. The tool requirement is also significantly lower. Joint assembly can be done in any weather conditions, in tight spaces such as shafts for risers or in trenches, and even under the ceiling.

Made from the high-quality and robust material fusiolen® PP-RCT, the aquatherm push-fit fitting is suitable for fluid temperatures between 0 °C and 95 °C (32-203°F). This is confirmed by the test institute IMA Dresden, Germany.

The product portfolio ranges from push-fit adapters and push-fit couplings to moulded and fabricated fittings in various configurations and sizes. aquatherm thus offers all components for piping installation in plant engineering. The piping system is not only corrosion-free but can be subjected to full pressure immediately after installation without any wait times.



ADVANTAGES

- increased pressure and temperature resistance through fusiolen® PP-RCT
- secure connection
- profile sealing gasket protects the mechanics of the push-fit fittings from dirt, debris and contaminants
- corrosion-free
- long life span
- full bore flow, no reduction in diameter
- can be used with standard and UV aquatherm blue pipe products in SDR 11 and SDR 17.6, for sizes 90 mm (3-in) to 450 mm (18-in)

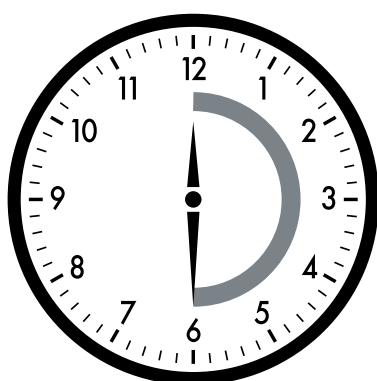


INSTALLATION ADVANTAGES

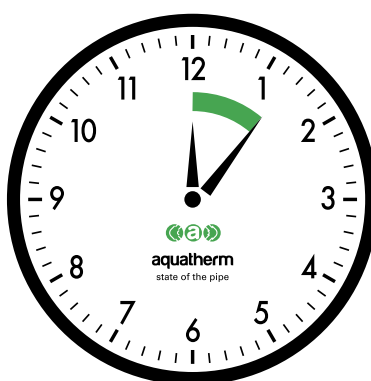
- fast installation times
- can be done in all weather conditions, even at temperatures below 0 °C or when raining or snowing
- assembly in confined spaces such as shafts for risers or trench laying
- no heavy or expensive tools necessary
- residual fluid in the pipes is not a problem when installing in existing systems
- leakproof connection immediately, no wait time

30 MINUTES OR 6 MINUTES?

NO COOLING OR WAIT TIME FOR PUSH-FIT CONNECTIONS!



Electrofusion joint completed:
30 minutes/piece



aquatherm push-fit fittings assembled:
6 minutes/piece

Cooling times for electrofusion joint:

The operating pressure may only be applied after the following cooling times.

Dimension [mm]	Cooling time [min]
75	46
90	53
110	70
125	56
160	79

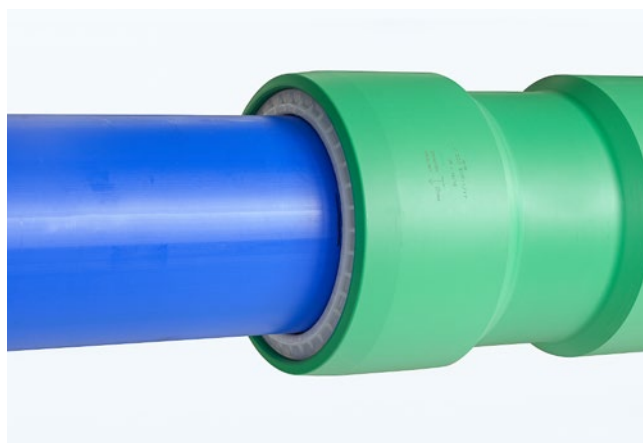
Example on a 110 mm aquatherm blue pipe MF RP

PROVEN QUALITY

Piping systems can be subject to fluctuating fluid and ambient temperatures. Despite changing parameters, they should meet two criteria: They should be durable and safe.

That is why we've asked the test institute IMA Dresden (Germany) to test the aquatherm push-fit fittings with the aquatherm blue pipe under changing temperatures. The thermocycle tests were carried out at 0 °C / 20 °C (32 / 68°F) and 20 °C / 95 °C (68 / 203°F) based on DIN EN ISO 15874.

The result: the push-fit fitting assemblies passed, with no leaks or cracks.



Fields of application

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

Abbreviations pipe structure

S	single-layer
M	multi-layer
MF	multi-layer, fibre-reinforced
RP	raised pressure resistance
UV	UV-resistant
OT	oxygen-tight
TI	thermally isolated

Abbreviations material

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

COLOUR SCHEME

For the presentation of combinable products.

Systems		
•		Only applicable with aquatherm green pipe
	•	Only applicable with aquatherm blue pipe
•	•	Applicable with aquatherm green pipe and aquatherm blue pipe

◆ = Marked items are not always available from stock. Please always inquire about delivery times and quantities separately.

aquatherm green pipe

aquatherm green pipe has revolutionized the plastic piping sector and has proven its technical suitability worldwide for decades. The innovative green pipe from aquatherm is made of corrosion-resistant, chemically inert polypropylene. It is completely free of heavy metals and toxic chemicals and thus ideally suited for potable water applications. aquatherm green pipe also can be used for swimming pools, agriculture, shipbuilding, or the transport of chemicals. It is joined using reliable heat fusion, which eliminates the hazards of welding and creates virtually leak-free connections.

The system includes different types of pipes in SDR 6, SDR 7.4, SDR 9 and SDR 11. Some of these pipe series also include special reinforced fibre composite pipes. More than 450 joining and connection elements as well as valves and ball valves complete the system. The products are available in dimensions from 16 mm to 450 mm diameter.

Pipe system made of polypropylene for potable water supply

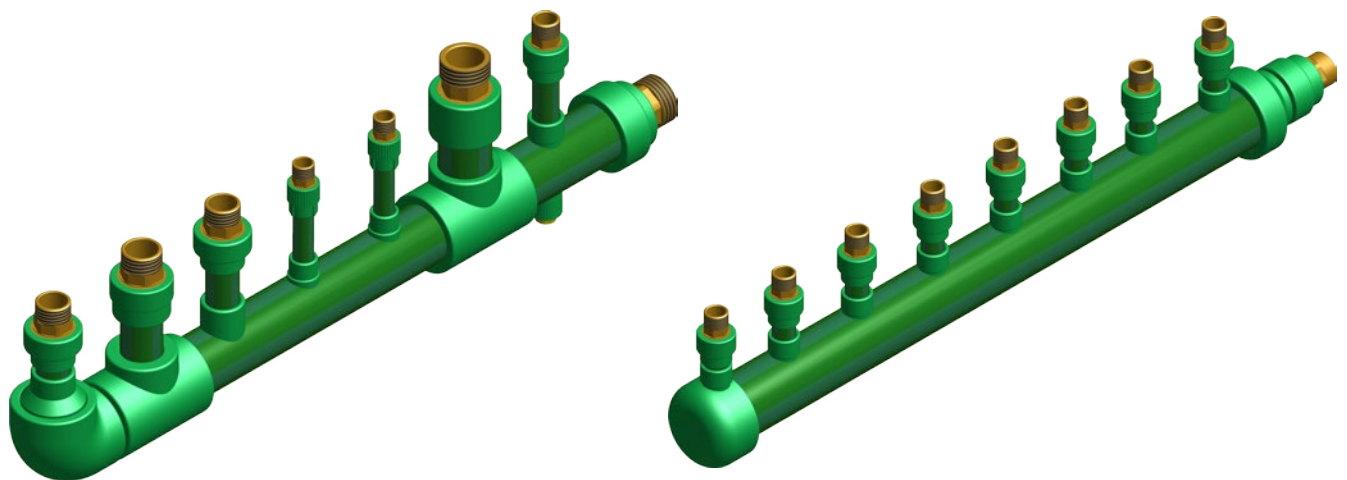
		Dimension [mm]																	
		16	20	25	32	40	50	63	75	90	110	125	160	200	250	315	355	400	450
aquatherm green pipe	SDR 6 S	●	●	●	●	●	●	●	●	●	●								
aquatherm green pipe	SDR 7.4 S	●	●	●	●	●	●	●											
aquatherm green pipe	SDR 7.4 MF		●	●	●	●	●	●	●	●	●	●	●	●	●				
aquatherm green pipe	SDR 7.4 MF UV		●	●	●	●	●	●	●	●	●	●	●	●	●				
aquatherm green pipe	SDR 9 MF RP				●	●	●	●	●	●	●	●	●	●	●	●	●		
aquatherm green pipe	SDR 9 MF RP UV				●	●	●	●	●	●	●	●	●	●	●	●	●		
aquatherm green pipe	SDR 9 MF RP TI				●	●	●	●	●	●	●	●	●	●	●	●	●		
aquatherm green pipe	SDR 11 S		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		

MANIFOLD CONSTRUCTION – CUSTOM MADE

We design and construct your manifolds in our company according to your specifications and dispatch them pre-finished to any place of the world.

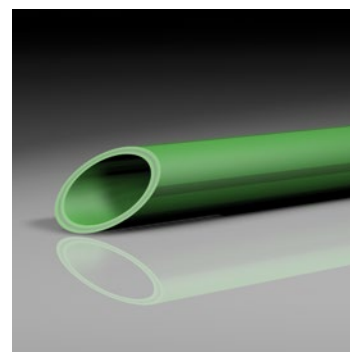
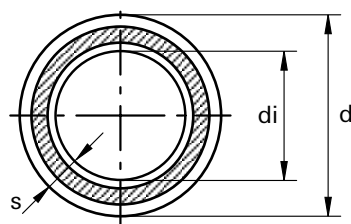
To start the process, only the corresponding planning data, 3D-data and/or drawings with dimensions are required. We return the offer including material list and drawing. A qualified team of experienced technicians likes to assist you.

For detailed information referring manifold construction please contact our technical hotline: +49 2722 950 200.



aquatherm green pipe SDR 9 MF RP

Pipe structure:	MF = multi-layer, fibre-reinforced
Special feature:	RP = raised pressure resistance
Material:	fusiolen® 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
Delivery form:	ø 32 – 125 mm straight lengths 4 m ø 160 – 355 mm straight lengths 5.8 m
Packing unit:	PU in meter
Application:	

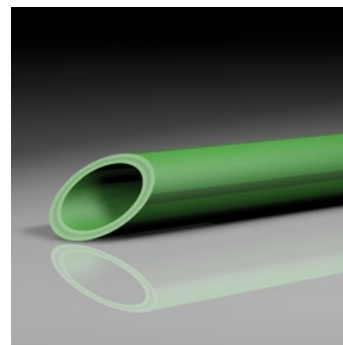
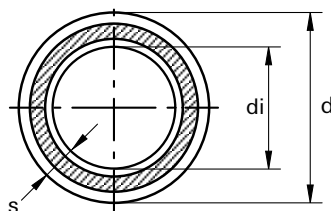


Mechanically stabilized through a fibre mix integrated in the middle layer of the fusiolen® PP-RCT.

SDR	Art. no.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg/m]	DN	PU [m]	Price € m
9	<i>Socket welding</i>								
	370712	32	3,6	24,80	0,483	0,328	25	40	
	370714	40	4,5	31,00	0,754	0,511	32	40	
	370716	50	5,6	38,80	1,182	0,791	40	20	
	370718	63	7,1	48,80	1,869	1,261	50	20	
	370720	75	8,4	58,20	2,659	1,771	-	20	
	370722	90	10,1	69,80	3,825	2,553	65	12	
	370724	110	12,3	85,40	5,725	3,789	80	8	
	370726	125	14,0	97,00	7,386	4,886	100	4	
	<i>Butt welding</i>								
	370730	160	17,9	124,20	12,109	7,987	125	5.8	
	370734	200	22,4	155,20	18,908	12,488	150	5.8	
	370738	250	27,9	194,20	29,605	19,422	200	5.8	
	370742	315	35,2	244,60	46,966	30,876	250	5.8	

aquatherm green pipe SDR 7.4 MF

Pipe structure:	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
Delivery form:	straight lengths 4 m
Packing unit:	PU in meter
Application:	

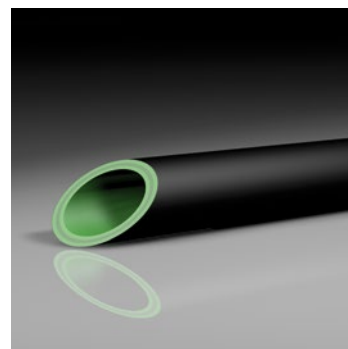
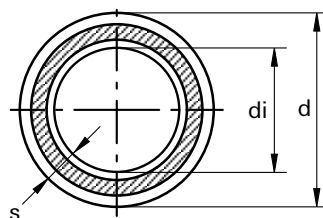


Mechanically stabilized through a fibre mix integrated in the middle layer of the fusiolen® PP-R.

SDR	Art. no.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg/m]	DN	PU [m]	Price € m
7.4	<i>Socket welding</i>								
	70708	20	2,8	14,40	0,163	0,157	15	100	
	70710	25	3,5	18,00	0,254	0,244	20	100	
	70712	32	4,4	23,00	0,423	0,391	25	40	
	70714	40	5,5	28,80	0,660	0,608	32	40	
	70716	50	6,9	36,20	1,029	0,948	40	20	
	70718	63	8,6	45,60	1,647	1,490	50	20	
	70720	75	10,3	54,40	2,323	2,120	-	20	
	70722	90	12,3	65,40	3,358	3,037	65	12	
	70724	110	15,1	79,80	4,999	4,546	80	8	
	70726	125	17,1	90,80	6,472	5,850	-	4	
	<i>Butt welding</i>								
	70730	160	21,9	116,20	10,599	9,559	125	5.8	
	70734	200	27,4	145,20	16,558	14,944	150	5.8	
	70738	250	34,2	181,60	25,901	23,312	175	5.8	

aquatherm green pipe SDR 9 MF RP UV

Pipe structure:	MF = multi-layer, fibre-reinforced
Special feature:	RP = raised pressure resistance UV = UV-resistant
Material:	fusiolen® 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
Delivery form:	ø 32 – 125 mm straight lengths 4 m ø 160 – 355 mm straight lengths 5.8 m
Packing unit:	PU in meter
Application:	

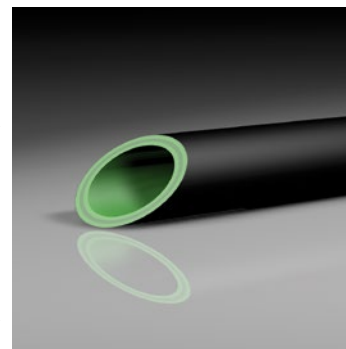
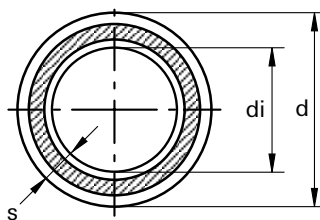


Resistant against UV-rays. Mechanically stabilized through a fiber mix integrated in the middle layer of the fusiolen® PP-RCT.

SDR	Art. no.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg/m]	DN	PU [m]	Price € m
9	<i>Socket welding</i>								
	370762	32	3,6	24,80	0,483	0,422	25	40	
	370764	40	4,5	31,00	0,754	0,630	32	40	
	370766	50	5,6	38,80	1,182	0,944	40	20	
	370768	63	7,1	48,80	1,869	1,457	50	20	
	370770	75	8,4	58,20	2,659	1,998	-	20	
	370772	90	10,1	69,80	3,825	2,894	65	12	
	370774	110	12,3	85,40	5,725	4,397	80	8	
	370776	125	14,0	97,00	7,386	5,530	100	4	
	<i>Butt welding</i>								
	370780	160	17,9	124,20	12,109	8,287	125	5.8	
	370784	200	22,4	155,20	18,908	12,818	150	5.8	

aquatherm green pipe SDR 7.4 MF UV

Pipe structure:	MF = multi-layer, fibre-reinforced
Special feature:	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
Delivery form:	ø 20 – 125 mm straight lengths 4 m ø 160 – 250 mm straight lengths 5.8 m
Packing unit:	PU in meter
Application:	       

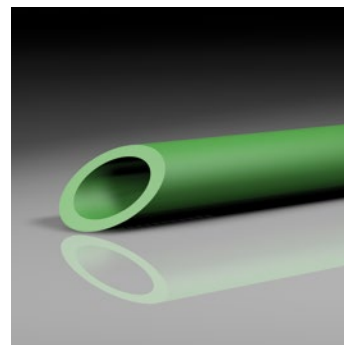
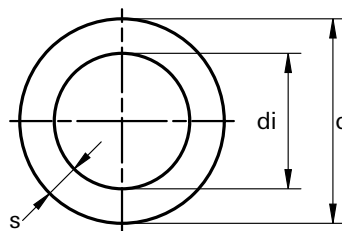


Resistant against UV-rays. Mechanically stabilized through a fiber mix integrated in the middle layer of the fusiolen® PP-R.

SDR	Art. no.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg/m]	DN	PU [m]	Price € m
7.4	<i>Socket welding</i>								
	70758	20	2,8	14,40	0,163	0,210	15	100	
	70760	25	3,5	18,00	0,254	0,314	20	100	
	70762	32	4,4	23,00	0,423	0,485	25	40	
	70764	40	5,5	28,80	0,660	0,728	32	40	
	70766	50	6,9	36,20	1,029	1,101	40	20	
	70768	63	8,6	45,60	1,647	1,686	50	20	
	70770	75	10,3	54,40	2,323	2,347	-	20	
	70772	90	12,3	65,40	3,358	3,378	65	12	
	70774	110	15,1	79,80	4,999	5,054	80	8	
	70776	125	17,1	90,80	6,472	6,494	-	4	
	<i>Butt welding</i>								
	70780	160	21,9	116,20	10,599	9,859	100	5.8	
	70784	200	27,4	145,20	16,550	15,273	150	5.8	
	70788	250	34,2	181,60	25,888	23,630	175	5.8	
	315 – 355	<i>Dimensions 315 and 355 mm see aquatherm green pipe SDR 9 MF RP UV on page 14</i>							

aquatherm green pipe SDR 6/7.4 S

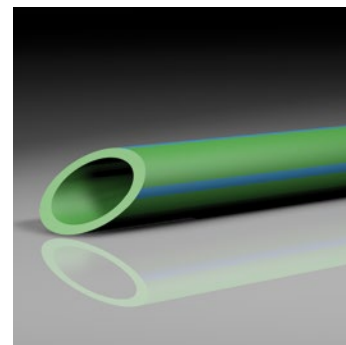
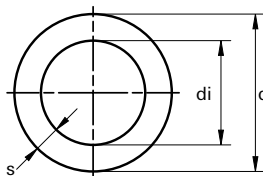
- Pipe structure:** S = single-layer
Material: fusiofen® PP-R
Pipe series: SDR 6/S 2.5 & SDR 7.4/S 3.2
Standards: DIN 8077, DIN 8078, DIN EN ISO 15874, ASTM F 2389, CSA B 137.11
Colour: green
Delivery form: 4 m straight lengths, *in coils
Packing unit: PU in meter
Application:



SDR	Art. no.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg/m]	DN	PU [m]	Price € m
6	10006	16	2,7	10,60	0,088	0,111	10	100	
	10008	20	3,4	13,20	0,137	0,174	12	100	
	10010	25	4,2	16,60	0,216	0,268	15	100	
	10012	32	5,4	21,20	0,353	0,437	20	40	
	10014	40	6,7	26,60	0,555	0,675	25	40	
	10016	50	8,3	33,40	0,876	1,047	32	20	
	10018	63	10,5	42,00	1,385	1,662	40	20	
	10020	75	12,5	50,00	1,963	2,351	50	20	
	10022	90	15,0	60,00	2,826	3,379	60	12	
	10024	110	18,3	73,40	4,229	5,040	65	8	
	10106 *	16	2,7	10,60	0,088	0,111	10	100	
	10108 *	20	3,4	13,20	0,137	0,174	12	100	
	10110 *	25	4,2	16,60	0,216	0,268	15	100	
7.4	10806	16	2,2	11,60	0,106	0,096	12	100	
	10808	20	2,8	14,40	0,163	0,149	15	100	
	10810	25	3,5	18,00	0,254	0,232	20	100	
	10812	32	4,4	23,20	0,423	0,372	25	40	
	10814	40	5,5	29,00	0,660	0,578	32	40	
	10816	50	6,9	36,20	1,029	0,901	40	20	
	10818	63	8,6	45,80	1,647	1,416	50	20	
	10906 *	16	2,2	11,60	0,106	0,096	12	100	
	10908 *	20	2,8	14,40	0,163	0,149	15	100	

aquatherm green pipe SDR 11 S

Pipe structure:	20 – 315 mm: S = single-layer
Material:	fusiolen® PP-R
Pipe series:	SDR 11/S5
Standards:	DIN 8077 / 78, DIN EN ISO 15874, ASTM F 2389, CSA B 137.11
Colour:	green with 4 blue stripes
Delivery form:	ø 20 – 125 mm 4 m straight lengths, *in coils ø 160 – 450 mm straight lengths 5,8 m
Packing unit:	PU in meter
Application:	



SDR	Art. no.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg/m]	DN	PU [m]	Price € m
11	<i>Socket welding</i>								
	10208	20	1,9	16,20	0,206	0,108	15	100	
	10210	25	2,3	20,40	0,327	0,165	20	100	
	10212	32	2,9	26,20	0,539	0,261	25	40	
	10214	40	3,7	32,60	0,834	0,414	32	40	
	10216	50	4,6	40,80	1,307	0,641	40	20	
	10218	63	5,8	51,40	2,074	1,012	50	20	
	10220	75	6,8	61,40	2,959	1,411	65	20	
	10222	90	8,2	73,60	4,252	2,043	80	12	
	10224	110	10,0	90,00	6,359	3,026	-	8	
	10226	125	11,4	102,20	8,199	3,924	100	4	
	10308 *◆	20	1,9	16,20	0,206	0,108	15	100	
	10310 *◆	25	2,3	20,40	0,327	0,165	20	100	
	10312 *◆	32	2,9	26,20	0,539	0,261	25	50	
	<i>Butt welding</i>								
	10230	160	14,6	130,80	13,430	6,415	125	5.8	
	10234	200	18,2	163,60	21,010	9,992	150	5.8	
	10238	250	22,7	204,60	32,861	15,548	200	5.8	
	10242	315	28,6	257,80	52,172	24,664	250	5.8	

aquatherm blue pipe

Made of corrosion-resistant polypropylene, aquatherm blue pipe is ideal for the transport of cooling and heating media in closed systems. It is particularly well suited for a wide variety of industrial applications. The physical properties of the plastic, such as its high temperature capacity and pressure resistance, are tailored to the specific needs of the heating and cooling sector. aquatherm blue pipe is joined via reliable heat fusion, which produces a virtually leak-free and cohesive unit with excellent safety and durability. aquatherm blue pipe combined with aquatherm green pipe fittings provides all the technology and components required for the piping installation of commercial air conditioning and heating systems and industrial applications.

Pipe system made of polypropylene

for heating and cooling and various industrial applications

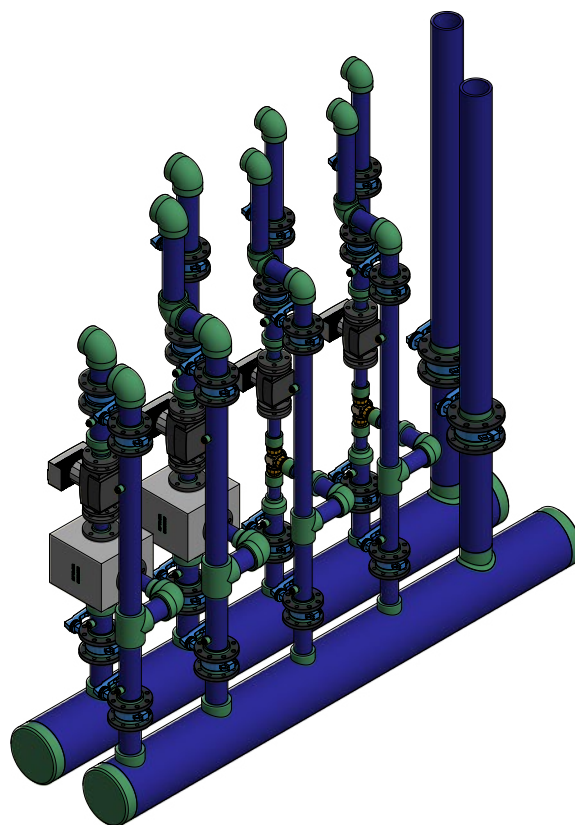
		Dimension [mm]																		
		20	25	32	40	50	63	75	90	110	125	160	200	250	315	355	400	450	500	630
aquatherm blue pipe	SDR 7.4 MF	●	●																	
aquatherm blue pipe	SDR 7.4 MF UV	●	●																	
aquatherm blue pipe	SDR 7.4 MF OT	●	●																	
aquatherm blue pipe	SDR 9 MF RP			●																
aquatherm blue pipe	SDR 9 MF RP UV			●																
aquatherm blue pipe	SDR 9 MF RP OT			●																
aquatherm blue pipe	SDR 9 MF RP TI			●																
aquatherm blue pipe	SDR 9 MF RP OT TI			●																
aquatherm blue pipe	SDR 11 S	●	●																	
aquatherm blue pipe	SDR 11 MF RP				●	●	●	●	●	●	●	●	●	●	●	●	●	●		
aquatherm blue pipe	SDR 11 MF RP UV				●	●	●	●	●	●	●	●	●	●	●	●	●	●		
aquatherm blue pipe	SDR 11 MF RP OT				●	●	●	●	●	●	●	●	●	●						
aquatherm blue pipe	SDR 11 MF RP TI				●	●	●	●	●	●	●	●	●	●	●					
aquatherm blue pipe	SDR 11 MF RP OT TI				●	●	●	●	●	●	●	●	●	●						
aquatherm blue pipe	SDR 17.6 MF RP										●	●	●	●	●	●	●	●	●	●
aquatherm blue pipe	SDR 17.6 MF RP UV										●	●	●	●	●	●	●	●	●	●
aquatherm blue pipe	SDR 17.6 MF RP TI										●	●	●	●	●	●				

CUSTOM MADE MANIFOLD CONSTRUCTION

aquatherm plans and builds special components directly in its own workshop according to customer's specifications and sends them ready for installation anywhere in the world.

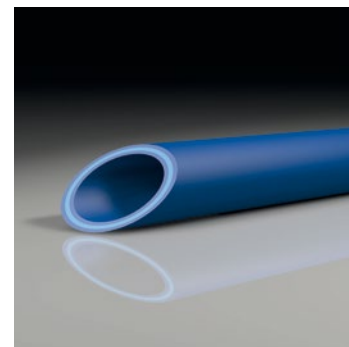
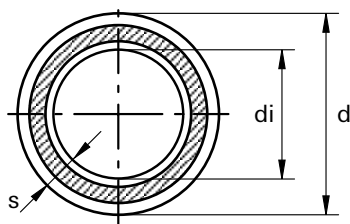
To start the process, only the corresponding planning data, 3D drawings and/or sketches with dimensions are required. Subsequently, aquatherm will supply a quotation including material extracts and drawings. And all along the way a competent team of experienced technicians will stand by the customer with help and advice.

For more information on prefabrication, please contact our technical hotline: +49 2722 950 200.



aquatherm blue pipe SDR 7.4 MF || SDR 9/11/17.6 MF RP

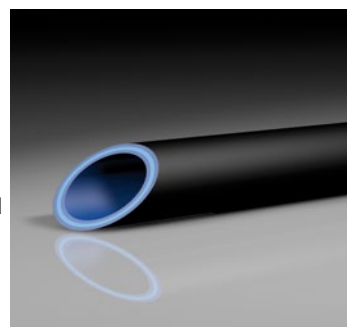
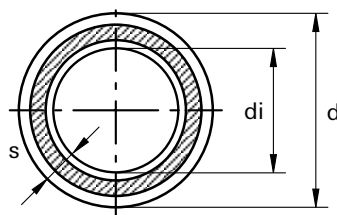
Pipe structure: MF = multi-layer, fibre-reinforced
Special feature: RP = raised pressure resistance
Material: fusiolen® PP-R / PP-RCT
Pipe series: SDR 7.4 / S 3.2 & SDR11 / S 5 & SDR 17.6 / S 8.3
SDR 9 / S 4
Standards: SKZ HR 3.28, ASTM F 2389, CSA B 137.11,
ISO 21003
Colour: blue
Delivery form: ø 20 – 125 mm straight lengths 4 m
ø 160 – 630 mm straight lengths 5.8 m
Packing unit: PU in meter
Application:



SDR	Art. no.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg/m]	DN	PU [m]	Price € m
<i>Socket welding</i>									
7.4	2070708	20	2,8	14,40	0,163	0,157	15	100	
	2070710	25	3,5	18,00	0,254	0,244	20	100	
9	2071112	32	3,6	24,8	0,539	0,334	25	40	
11	2071114	40	3,7	32,6	0,834	0,430	32	40	
	2071116	50	4,6	40,8	1,307	0,651	40	20	
	2071118	63	5,8	51,4	2,074	1,062	50	20	
	2071120	75	6,8	61,4	2,959	1,494	65	20	
	2071122	90	8,2	73,6	4,252	2,141	80	12	
	2071124	110	10,0	90	6,359	3,239	-	8	
	2071126	125	11,4	102,2	8,199	4,092	100	4	
	<i>Butt welding</i>								
	2071130	160	14,6	130,8	13,430	6,710	125	5.8	
	2071134	200	18,2	163,6	21,010	10,442	150	5.8	
	2071138	250	22,7	204,6	32,861	16,579	200	5.8	
	2071142	315	28,6	257,8	52,172	26,223	250	5.8	
	2071144	355	32,2	290,6	66,29	33,276	300	5.8	
	2071146	400	36,3	327,6	84,290	42,266	300	5.8	
	2071148	450	40,9	368,2	106,477	53,566	400	5.8	
17.6	<i>Socket welding</i>								
	3570125	125	7,1	110,8	9,637	2,666	100	4	
	<i>Butt welding</i>								
	3570130	160	9,1	141,8	15,792	4,39	150	5.8	
	3570134	200	11,4	177,2	24,661	6,93	200	5.8	
	3570138	250	14,2	221,6	38,568	10,64	250	5.8	
	3570142	315	17,9	279,2	61,223	16,606	300	5.8	
	3570144	355	20,1	314,8	77,832	21,589	350	5.8	
	3570146	400	22,7	354,6	98,756	27,468	350	5.8	
	3570148	450	25,5	399,0	125,036	34,716	400	5.8	
	3570150	500	28,4	443,2	154,272	42,955	450	5.8	
	3570154	630	35,7	558,6	245,070	68,044	500	5.8	

aquatherm blue pipe SDR 7.4 MF UV || SDR 9/11/17.6 MF RP UV

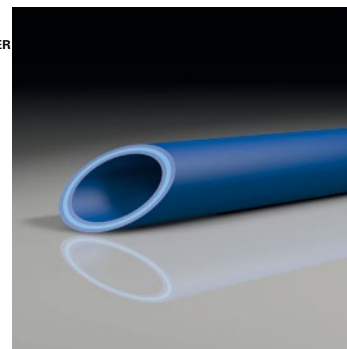
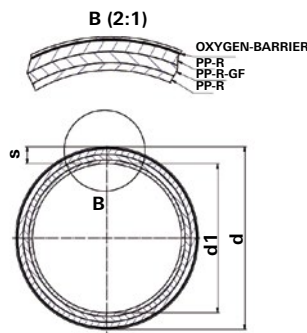
Pipe structure:	MF = multi-layer, fibre-reinforced
Special feature:	RP = raised pressure resistance UV = UV-resistant
Material:	fusiolen® PP-R / PP-RCT
Pipe series:	SDR 7.4 / S 3.2 & SDR11/SDR 17.6 / S 8.3 SDR 9 / S 4
Standards:	SKZ HR 3.28, ASTM F 2389, CSA B 137.11, ISO 21003
Colour:	outside: black, inside: blue
Delivery form:	ø 20 – 125 mm straight lengths 4 m ø 160 – 630 mm straight lengths 5.8 m
Packing unit:	PU in meter
Application:	



SDR	Art. no.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg/m]	DN	PU [m]	Price € m
<i>Socket welding</i>									
7.4	2070758	20	2,8	14,40	0,163	0,210	15	100	
	2070760	25	3,5	18,00	0,254	0,314	20	100	
9	2071162	32	3,6	24,80	0,483	0,435	25	40	
11	2070164	40	3,7	32,60	0,834	0,555	32	40	
	2070166	50	4,6	40,80	1,307	0,827	40	20	
	2070168	63	5,8	51,40	2,074	1,260	50	20	
	2070170	75	6,8	61,40	2,959	1,712	65	20	
	2070172	90	8,2	73,60	4,252	2,480	80	12	
	2070174	110	10,0	90,00	6,359	3,693	-	8	
	2070176	125	11,4	102,20	8,199	4,774	100	4	
	<i>Butt welding</i>								
11	2070180	160	14,6	130,80	13,430	7,181	125	5.8	
	2070184	200	18,2	163,60	21,010	11,029	150	5.8	
	2070188	250	22,7	204,60	32,861	17,312	200	5.8	
	2070192	315	28,6	257,80	52,172	26,223	250	5.8	
	2070194	355	32,2	290,60	66,292	34,315	300	5.8	
	2070196 ♦	400	36,3	327,40	84,145	43,437	300	5.8	
	2070198 ♦	450	40,9	368,20	106,423	54,883	400	5.8	
17.6	2570180	160	9,1	141,80	15,784	4,860	150	5.8	
	2570184	200	11,4	177,20	24,649	7,514	200	5.8	
	2570188	250	14,2	221,60	38,549	11,369	250	5.8	
	2570192 ♦	315	17,9	279,20	61,193	17,529	300	5.8	
	2570194 ♦	355	20,1	314,80	77,793	22,628	350	5.8	
	2570196 ♦	400	22,7	354,60	98,707	28,639	350	5.8	
	2570198 ♦	450	25,5	399,00	124,973	36,033	400	5.8	
	2570200 ♦	500	28,4	443,20	154,195	44,418	450	5.8	
	2570204 ♦	630	35,7	558,60	245,947	69,887	500	5.8	

aquatherm blue pipe SDR 7.4 OT || SDR 9/11 MF RP OT

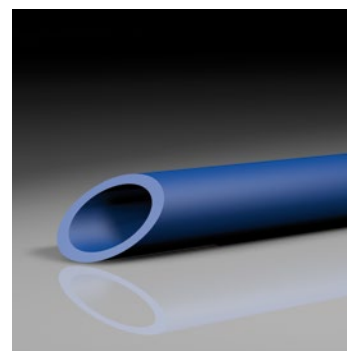
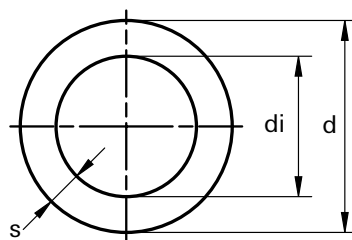
Pipe structure:	MF = multi-layer, fibre-reinforced
Special feature:	RP = raised pressure resistance OT = oxygen-tight
Material:	fusiolen® PP-R / PP-RCT
Pipe series:	SDR 7.4 / S 3.2 & SDR11 / S 5 / SDR 9 / S 4
Standards:	DIN 8077/78, DIN EN ISO 15874, ASTM F 2389, CSA B 137.11, ISO 21003
Colour:	blue
Delivery form:	ø 20 – 125 mm straight lengths 4 m ø 160 – 250 mm straight lengths 5,8 m
Packing unit:	PU in meter
Application:	



SDR	Art. no.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter d1 [mm]	Water content [l/m]	Weight [kg/m]	DN	PU [m]	Price € m
<i>Socket welding</i>									
7.4	2170708	20	2,8	14,40	0,163	0,211	15	100	
	2170710	25	3,5	18,00	0,254	0,316	20	100	
9	2171712	32	3,6	24,80	0,483	0,328	25	40	
11	2170114	40	3,7	32,60	0,834	0,562	32	40	
	2170116	50	4,6	40,80	1,307	0,695	40	20	
	2170118	63	5,8	51,40	2,074	1,279	50	20	
	2170120	75	6,8	61,40	2,959	1,739	65	20	
	2170122	90	8,2	73,60	4,252	2,533	80	12	
	2170124	110	10,0	90,00	6,359	3,752	-	8	
	2170126	125	11,4	102,20	8,199	4,201	100	4	
	<i>Butt welding</i>								
	2170130	160	14,6	130,80	13,430	6,847	125	5.8	
	2170134	200	18,2	163,60	21,010	10,520	150	5.8	
	2170138	250	22,7	204,60	32,861	16,226	200	5.8	

aquatherm blue pipe SDR 11 S

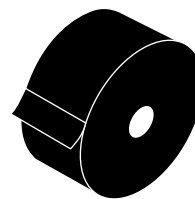
Pipe structure:	S = single-layer
Material:	fusiolen® PP-R
Pipe series:	SDR 11 / S 5
Standards:	DIN 8077/78, DIN EN ISO 15874, ASTM F 2389, CSA B 137.11, NSF 14, ISO 21003
Colour:	blue
Delivery form:	4 m straight lengths, *in coils
Packing unit:	PU in meter
Application:	



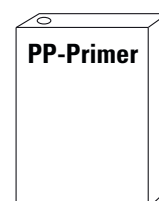
SDR	Art. no.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg/m]	DN	PU [m]	Price € m/pc
<i>Socket welding</i>									
11	2010208	20	1,9	16,20	0,206	0,108	15	100	
	2010210	25	2,3	20,40	0,327	0,165	20	100	
	2010308 *◆	20	1,9	16,20	0,206	0,108	15	100	
	2010310 *◆	25	2,3	20,40	0,327	0,165	20	100	
	2010312 *◆	32	2,9	26,20	0,539	0,261	25	50	

ADHESIVE TAPE TO PROTECT AGAINST UV-RADIATION*for aquatherm MF UV pipes*

Art. no.	Dimension	PU	Price € pc
10871	50mm x 10m	1	

**AQUATHERM PP-PRIMER***for aquatherm PP pipes*

Art. no.	Dimension	PU	Box unit	Price € pc
50230		1l		
50231		10l		

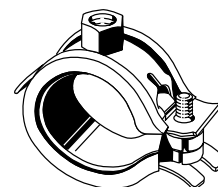
**AQUATHERM SPECIAL TOP COAT***for aquatherm PP-pipes*

Art. no.	Colour	PU	Box unit	Price € pc
50232	black	2,5l		
50233	white	2,5l		

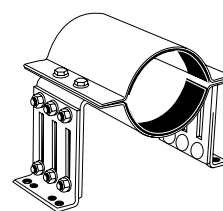
**PIPE CLAMPS***suitable for sliding and fixed point installation*

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

Art. no.	for pipe dimension [mm]	PU	Box unit	Price € pc
60516	16	50		
60520	20	50		
60525	25	50		
60532	32	50		
60540	40	50		
60550	50	50		
60563	63	25		
60575	75	25		
60590	90	25		
60594	110	25		
60595	125	25		
60597	160	25		
60650	200	1		
60654	250	1		
60658	315	1		
60660	355	1		

**PIPE CLAMPS***suitable for fixed point installation*

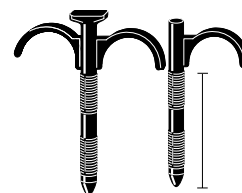
Art. no.	for pipe dimension [mm]	PU	Box unit	Price € pc
60768	160	1		
60770	200	1		
60774	250	1		
60778	315	1		
60780	355	1		
60782	400	1		
60784	450	1		
60786	500	1		
60790	630	1		



PIPE FASTENING BOW

suitable for $\varnothing$ 16 – 32 mm pipes

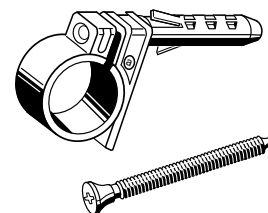
Art. no.	for pipe dimension	PU	Box unit	Price € pc
60604	1-fold - length = 45mm	50		
60606	1-fold - length = 75mm	50		
60608	2-fold - length = 45mm	50		
60610	2-fold - length = 75 mm	50		



PLASTIC PIPE CLAMPS

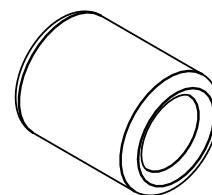
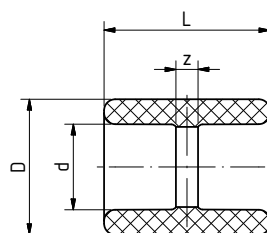
suitable for $\varnothing$ 16 – 40 mm pipes

Art. no.	for pipe dimension [mm]	PU	Box unit	Price € pc
60616	16	50		
60620	20	50		
60625	25	30		
60632	32	30		
60640	40	30		



SOCKET

Systems: **aquatherm green pipe, aquatherm blue pipe**
 Material: fusiofen® PP-R
 Standard: DIN 16962, DIN EN ISO 15874
 Colour: green



SDR	Art. no.	Dimension d [mm]	l [mm]	z [mm]	D [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11 17.6	11006	16	30,0	4,0	24,5	0,008	•	10	2000	
	11008	20	32,0	3,0	27,0	0,008	• •	10	1900	
	11010	25	35,0	3,0	34,0	0,013	• •	10	1000	
	11012	32	40,5	4,5	43,0	0,026	• •	5	600	
	11014	40	47,5	6,5	52,0	0,044	• •	5	400	
	11016	50	53,0	6,0	68,0	0,084	• •	5	200	
	11018	63	60,5	5,5	84,0	0,139	• •	1	100	
	11020	75	66,5	6,5	100,0	0,226	• •	1	70	
	11022	90	72,5	6,5	120,0	0,343	• •	1	50	
	11024	110	82,0	8,0	147,0	0,581	• •	1	30	
	11026	125	92,0	12,0	167,0	0,845	• •	1	25	

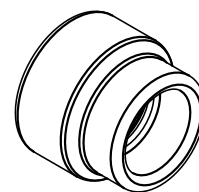
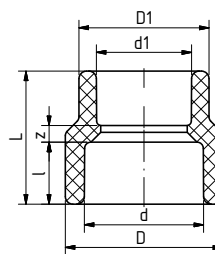
REDUCING SOCKET FEMALE/FEMALE

Systems: **aquatherm green pipe, aquatherm blue pipe**

Material: fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	Dimension d [mm]	Dimension d1 [mm]	L [mm]	l [mm]	z [mm]	D [mm]	D1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>double-sided socket welding</i>													
6 7.4 9 11 17.6	11222	40	32	44,0	20,5	5,5	52,0	43,0	0,035	• •	1		
	11228	50	32	53,0	23,5	11,5	68,0	43,0	0,066	• •	1		
	11230	50	40	50,5	23,5	6,3	68,0	52,0	0,069	• •	1		
	11236	63	40	61,0	27,5	13,0	84,0	52,0	0,115	• •	1		
	11238	63	50	56,0	27,5	5,0	84,0	68,0	0,120	• •	1		
	11240	75	50	68,0	30,0	14,5	100,0	68,0	0,192	• •	1		
	11242	75	63	62,5	30,0	5,0	100,0	84,0	0,185	• •	1		
	11252	90	63	74,0	33,0	13,5	120,0	84,0	0,276	• •	1		
	11253	90	75	69,0	33,0	6,0	120,0	100,0	0,297	• •	1		
	11257	110	75	85,0	37,0	18,0	147,0	100,0	0,516	• •	1		
	11259	110	90	77,3	37,0	7,3	147,0	120,0	0,520	• •	1		
	11263	125	90	91,0	40,0	18,0	167,0	120,0	0,749	• •	1		
	11265	125	110	87,0	40,0	10,0	167,0	147,0	0,726	• •	1		

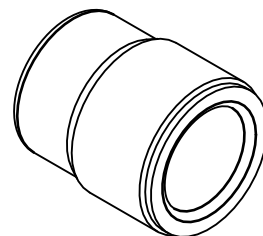
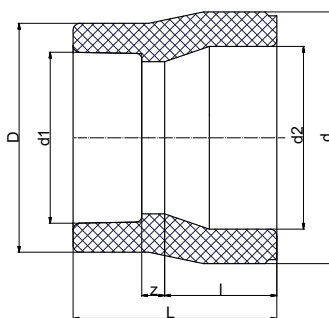
REDUCING SOCKET, SOCKET WELDING

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiofen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	Dimension d [mm]	Dimension d1 [mm]	Dimension d2 [mm]	L [mm]	L [mm]	z [mm]	D [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>double-sided socket welding</i>													
6 7.4 9 11 17.6	11109	20	16	13,50	14,5	39,0	11,5	24,5	0,009	•	10	2000	
	11110	25	16	16,50	16,0	38,0	9,0	26,0	0,012	•	10	2000	
	11112	25	20	16,50	16,0	38,5	8,0	29,5	0,012	• •	10	1500	
	11114	32	20	21,50	18,0	37,5	5,0	29,5	0,015	• •	5	1000	
	11116	32	25	21,00	18,0	38,0	4,0	34,0	0,016	• •	5	1000	
	11118	40	20	26,50	20,5	45,0	10,0	29,5	0,025	• •	5	750	
	11120	40	25	26,50	20,5	50,0	13,5	34,0	0,028	• •	5	600	
	11122	40	32	26,50	20,5	50,0	11,5	43,0	0,032	• •	5	500	
	11124	50	20	33,50	23,5	55,0	17,0	29,5	0,045	• •	5	500	
	11126	50	25	33,50	23,5	55,0	15,5	34,0	0,044	• •	5	400	
	11128	50	32	33,50	23,5	54,0	12,5	43,0	0,048	• •	5	350	
	11130	50	40	33,50	23,5	53,0	9,0	52,0	0,053	• •	5	300	
	11131	63	20	42,00	27,5	65,0	23,0	29,5	0,073	• •	1	200	
	11132	63	25	42,00	27,5	65,0	21,5	34,0	0,071	• •	1	200	
	11134	63	32	42,00	27,5	62,0	16,5	43,0	0,080	• •	1	200	
	11136	63	40	42,00	27,5	64,5	16,5	52,0	0,089	• •	1	200	
	11138	63	50	42,00	27,5	63,5	12,5	68,0	0,107	• •	1	150	
	11139	75	40	50,00	30,0	69,5	19,0	52,0	0,131	• •	1		
	11140	75	50	50,00	30,0	63,0	9,5	68,0	0,141	• •	1		
	11142	75	63	50,00	30,0	71,0	13,5	84,0	0,170	• •	1		
	11143	75	20	50,00	30,0	65,5	21,0	34,5	0,113	• •	1		
	11144	75	25	50,00	30,0	65,5	19,5	34,5	0,111	• •	1		
	11145	75	32	50,00	30,0	69,5	21,5	52,0	0,140	• •	1		
	11151	90	50	60,00	33,0	75,0	18,5	68,0	0,193	• •	1		
	11152	90	63	60,00	33,0	78,0	17,5	84,0	0,224	• •	1		
	11153	90	75	60,00	33,0	81,5	18,5	100,0	0,273	• •	1		
	11155	110	63	73,50	37,0	86,0	21,5	84,0	0,356	• •	1		
	11157	110	75	73,50	37,0	89,0	22,0	100,0	0,383	• •	1		
	11159	110	90	73,50	37,0	99,0	29,0	120,0	0,500	• •	1		
	11161	125	75	84,00	40,0	101,0	31,0	100,0	0,518	• •	1		
	11163	125	90	84,00	40,0	99,0	26,0	120,0	0,588	• •	1		
	11165	125	110	84,00	40,0	112,0	35,0	147,0	0,832	• •	1		

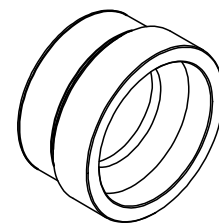
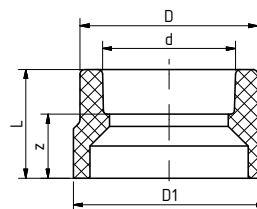
REDUCING SOCKET, SOCKET & BUTT WELDING

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-RCT

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	D1 [mm]	Dimension d [mm]	L [mm]	z [mm]	D [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>onesided socket welding, other side butt welding</i>											
7.4	11174	160	110	90,0	53,0	147,0	0,730	•		1	
	11176	160	125	90,0	50,0	167,0	0,837	•		1	
	11182	200	125	135,0	95,0	167,0	1,644	•		1	
9	311174	160	110	90,0	53,0	147,0	0,694	•		1	
	311176	160	125	90,0	50,0	167,0	0,868	•		1	
	311182	200	125	135,0	95,0	167,0	1,599	•		1	
11	11175	160	110	90,0	53,0	147,0	0,673	•	•	1	
	11177	160	125	90,0	50,0	167,0	0,709	•	•	1	
	11183	200	125	135,0	95,0	167,0	1,341	•	•	1	
17.6	2511174	160	110	90,0	53,0	147,0	0,589		•	1	
	2511176	160	125	90,0	50,0	167,0	0,614		•	1	
	2511182	200	125	135,0	95,0	167,0	1,055		•	1	

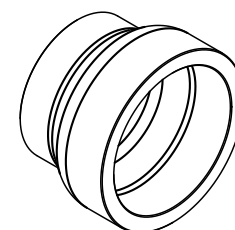
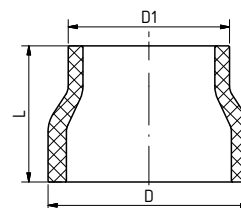
REDUCING SOCKET, BUTT WELDING

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-RCT

Standard: DIN 16962, DIN EN ISO 15874

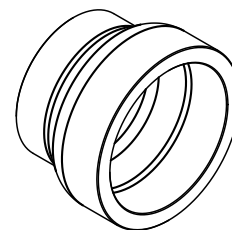
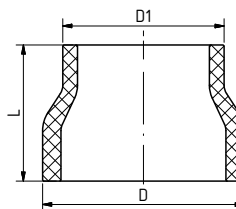
Colour: green



SDR	Art. no.	D [mm]	D1 [mm]	L [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>double-sided butt welding</i>									
7.4	11184	200	160	135,0	1,609	•		1	
	11188	250	160	172,5	2,881	•		1	
	11190	250	200	172,5	3,250	•		1	
9	311184	200	160	135,0	1,588	•		1	
	311188	250	160	172,5	2,900	•		1	
	311190	250	200	172,5	3,206	•		1	
	311192	315	200	225,0	6,350	•		1	
	311194	315	250	225,0	7,050	•		1	
	311196	355	250	170,0	5,640	•		1	
	311198	355	315	160,0	4,940	•		1	
11	11185	200	160	135,0	1,140	•	•	1	
	11189	250	160	172,5	2,152	•	•	1	
	11191	250	200	172,5	2,681	•	•	1	
	11193	315	200	225,0	4,389	•	•	1	
	11195	315	250	225,0	4,690	•	•	1	
	11197	355	250	170,0	4,548	•	•	1	
	11199	355	315	160,0	4,401	•	•	1	
	11201	400	250	152,0	5,160	•	•	1	
	11203	400	315	122,0	4,550	•	•	1	
	11204	400	355	110,0	4,620	•	•	1	
	11206	450	315	142,0	6,500	•	•	1	
	11207	450	355	132,0	6,500	•	•	1	
	11208	450	400	122,0	6,000	•	•	1	

REDUCING SOCKET, BUTT WELDING

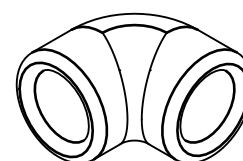
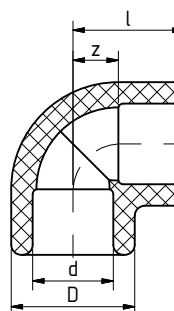
Systems: **aquatherm blue pipe**
 Material: fusiolen® PP-RCT
 Standard: DIN 16962, DIN EN ISO 15874
 Colour: green



SDR	Art. no.	D [mm]	D1 [mm]	L [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>double-sided butt welding</i>									
17.6	2511184	200	160	135,0	1,012	•	1		
	2511188	250	160	172,5	1,500	•	1		
	2511190	250	200	172,5	1,602	•	1		
	2511193	315	200	225,0	2,886	•	1		
	2511195	315	250	225,0	3,420	•	1		
	2511197	355	250	170,0	4,480	•	1		
	2511199	355	315	160,0	3,108	•	1		
	2511201	400	250	152,0	3,240	•	1		
	2511203	400	315	122,0	3,000	•	1		
	2511204	400	355	112,0	2,500	•	1		
	2511206	450	315	142,0	4,000	•	1		
	2511207	450	355	132,0	4,000	•	1		
	2511208	450	400	122,0	4,000	•	1		
	2511209	500	315	172,0	6,500	•	1		
	2511210	500	355	152,0	7,000	•	1		
	2511211	500	400	142,0	6,500	•	1		
	2511212	500	450	122,0	5,500	•	1		
	2511216	630	400	192,0	14,500	•	1		
	2511217	630	450	172,0	12,500	•	1		
	2511218	630	500	152,0	11,000	•	1		

ELBOW 90°

Systems: **aquatherm green pipe, aquatherm blue pipe**
 Material: fusiolen® PP-R
 Standard: DIN 16962, DIN EN ISO 15874
 Colour: green



SDR	Art. no.	Dimension d [mm]	z [mm]	l [mm]	D [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>										
6 7.4 9 11 17.6	12106	16	9,0	22,0	24,5	0,010	•	10	2000	
	12108	20	11,0	25,5	27,0	0,013	• •	10	1400	
	12110	25	13,5	29,5	34,0	0,023	• •	10	800	
	12112	32	17,0	35,0	43,0	0,043	• •	5	400	
	12114	40	21,0	41,5	52,0	0,077	• •	5	250	
	12116	50	26,0	49,5	68,0	0,162	• •	5	125	
	12118	63	32,5	60,0	84,0	0,293	• •	1	70	
	12120	75	38,5	68,5	100,0	0,445	• •	1	40	
	12122	90	46,0	79,0	120,0	0,729	• •	1	25	
	12124	110	56,0	93,0	147,0	1,292	• •	1		
	12126	125	76,5	116,5	167,0	2,004	• •	1		

ELBOW 90° BUTT WELDING

Systems:
aquatherm green pipe, aquatherm blue pipe
Material:

fusiofen® PP-R & PP-RCT

Standard:

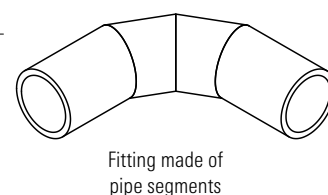
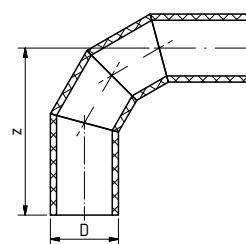
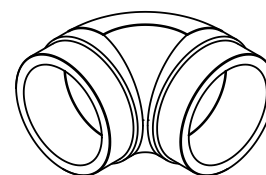
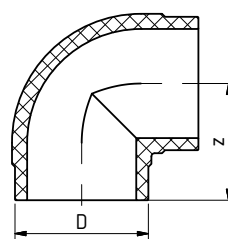
DIN 16962, DIN EN ISO 15874

Notice:

There is a gradual conversion of the XXL-fittings made of pipe segments to an injection molded design. The table shows which articles are already available in new design at the time of printing this catalogue. In the aquatherm technews we will inform you of further changes, but first the current stock of the elbows made of pipe segments has to be sold.

All fittings, which are converted to the injection molding production, are still available on inquiry as special fittings made of pipe segments. No article numbers are defined for special fittings of any type.

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.


 Fitting made of
pipe segments

 Injection molded fitting
Colour: green

SDR	Art. no.	D [mm]	z [mm]	Weight [kg]	System	pipe segments	injection molded (green)	PU	Box unit	Price € pc
<i>butt welding</i>										
7.4	12130	160	145,0	2,561	•		•	1		
	12134	200	450,0	11,685	•	•		1		
	12138	250	625,0	26,000	•	•		1		
9	312130	160	145,0	2,371	•		•	1		
	312134	200	209,0	4,320	•		•	1		
	312138	250	240,0	8,500	•		•	1		
	312142	315	773,0	42,300	•	•		1		
11	12131	160	145,0	1,956	•	•	•	1		
	12135	200	209,0	4,575	•	•	•	1		
	12139	250	240,0	7,180	•	•	•	1		
	12143	315	773,0	37,850	•	•		1		
11	2012143 ¹⁾	315	773,0	37,300		•		1		
	2012145 ¹⁾	355	833,0	57,074		•		1		
	2012147 ¹⁾	400	900,0	74,500		•		1		
	2012149 ¹⁾	450	975,0	89,080		•		1		
17.6	2512130	160	145,0	1,512		•	•	1		
	2512134	200	209,0	3,640		•	•	1		
	2512138	250	240,0	6,011		•	•	1		
	2512142 ¹⁾	315	773,0	24,000		•		1		
	2512144 ¹⁾	355	833,0	32,000		•		1		
	2512146 ¹⁾	400	900,0	42,549		•		1		
	2512148 ¹⁾	450	975,0	62,200		•		1		
	2512150 ¹⁾	500	1100,0	91,000		•		1		
	2512154 ¹⁾	630	1295,0	164,600		•		1		

¹⁾ mechanically stabilized through a fibre mix integrated in the middle layer of the fusiofen® PP-RCT

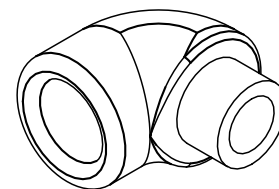
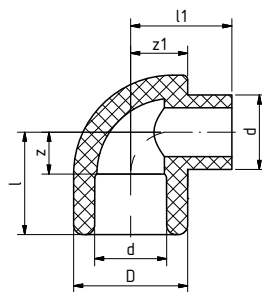
ELBOW 90° FEMALE/MALE

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiofen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	Dimension d [mm]	z [mm]	l [mm]	D [mm]	l1 [mm]	z1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>												
6 7.4 9 11	12306	16	9,0	22,0	24,5	21,8	12,3	0,010	•	10	2000	
	12308	20	11,0	25,5	27,0	25,5	13,5	0,032	• •	10	1200	
	12310	25	13,5	29,5	34,0	29,5	17,0	0,023	• •	10	800	
	12312	32	17,0	35,0	43,0	39,0	21,5	0,048	• •	5	400	
	12314	40	21,0	41,5	52,0	45,5	26,0	0,080	• •	5	300	

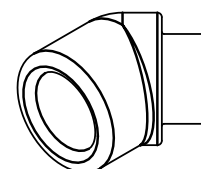
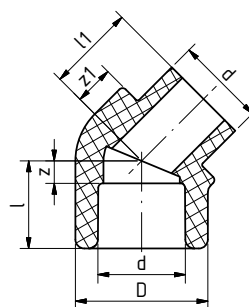
ELBOW 45° FEMALE/MALE

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiofen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	Dimension d [mm]	z [mm]	l [mm]	D [mm]	l1 [mm]	z1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>												
6 7.4 9 11	12708	20	5,0	19,5	29,5	19,5	9,0	0,013	• •	10	1500	
	12710	25	6,0	22,0	34,0	22,0	8,5	0,017	• •	10	1000	
	12712	32	7,5	25,5	43,0	29,0	11,5	0,036	• •	5	500	
	12714	40	9,5	30,0	52,0	33,0	13,5	0,057	• •	5	300	

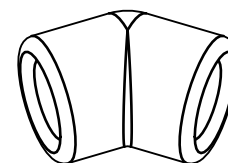
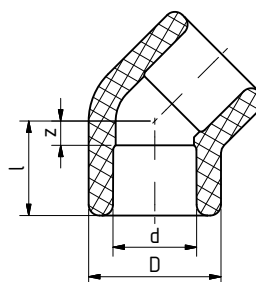
ELBOW 45° SOCKET WELDING

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiofen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	Dimension d [mm]	z [mm]	l [mm]	D [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>										
6 7.4 9 11 17.6	12506	16	4,5	17,5	24,5	0,009	•	10	2000	
	12508	20	5,0	19,5	29,5	0,014	• •	10	1500	
	12510	25	6,0	22,0	34,0	0,018	• •	10	1000	
	12512	32	7,5	25,5	43,0	0,035	• •	5	500	
	12514	40	9,5	30,0	52,0	0,053	• •	5	300	
	12516	50	11,5	35,0	68,0	0,112	• •	5	150	
	12518	63	14,0	41,5	84,0	0,227	• •	1	75	
	12520	75	16,5	46,5	100,0	0,350	• •	1	60	
	12522	90	19,5	52,5	120,0	0,568	• •	1	30	
	12524	110	23,5	60,5	147,0	1,025	• •	1	20	
	12526	125	27,0	67,0	167,0	1,329	• •	1		

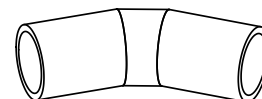
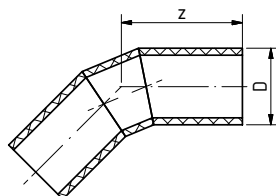
ELBOW 45° BUTT WELDING

Systems: aquatherm green pipe, aquatherm blue pipe
Material: fusiolen® PP-RCT
Standard: DIN 16962, DIN EN ISO 15874

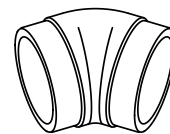
Notice:

There is a gradual conversion of the XXL-fittings made of pipe segments to an injection molded design. The table shows which articles are already available in new design at the time of printing this catalogue. In the aquatherm technews we will inform you of further changes, but first the current stock of the elbows made of pipe segments has to be sold. All fittings, which are converted to the injection molding production, are still available on inquiry as special fittings made of pipe segments. No article numbers are defined for special fittings of any type.

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.



Fitting made of
pipe segments



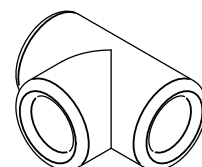
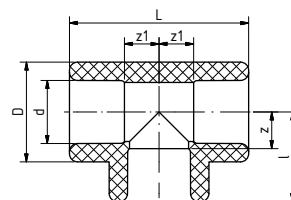
Injection molded fitting
Colour: green

SDR	Art. no.	D [mm]	z [mm]	Weight [kg]	System	pipe segments	injection molded	PU	Box unit	Price € pc
<i>butt welding</i>										
7.4	12530	160	95,0	1,903	•		•	1		
	12534	200	274,0	8,175	•	•		1		
	12538	250	412,0	20,500	•	•		1		
9	312530	160	95,0	4,230	•		•	1		
	312534	200	146,0	7,500	•		•	1		
	312538	250	182,0	17,000	•		•	1		
	312542	315	498,0	30,567	•	•		1		
11	12531	160	95,0	1,371	•	•	•	1		
	12535	200	146,0	3,310	•	•	•	1		
	12539	250	182,0	6,218	•	•	•	1		
	12543	315	498,0	27,300	•	•		1		
11	2012543 ¹⁾	315	498,0	27,100		•		1		
	2012545 ¹⁾	355	520,0	38,158		•		1		
	2012547 ¹⁾	400	548,0	44,712		•		1		
	2012549 ¹⁾	450	580,0	60,260		•		1		
17.6	2512530	160	95,0	1,080		•	•	1		
	2512534	200	146,0	1,990		•	•	1		
	2512538	250	182,0	3,875		•	•	1		
	2512542 ¹⁾	315	498,0	18,000		•		1		
	2512544 ¹⁾	355	520,0	22,058		•		1		
	2512546 ¹⁾	400	548,0	30,800		•		1		
	2512548 ¹⁾	450	580,0	39,123		•		1		
	2512550 ¹⁾	500	665,0	55,112		•		1		
	2512554 ¹⁾	630	741,0	97,148		•		1		

¹⁾ mechanically stabilized through a fibre mix integrated in the middle layer of the fusiolen® PP-RCT

T-PIECE SOCKET WELDING

Systems: aquatherm green pipe, aquatherm blue pipe
Material: fusiolen® PP-R
Standard: DIN 16962, DIN EN ISO 15874
Colour: green
Form: injection moulded fittings



SDR	Art. no.	Dimension d [mm]	z [mm]	z1 [mm]	l [mm]	L [mm]	D [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>												
6	13106	16	9,0	9,0	22,0	44,0	24,5	0,015	•	10	1500	
	13108	20	11,0	11,0	25,5	51,0	27,0	0,017	•	10	1000	
	13110	25	14,5	15,0	30,5	62,0	34,0	0,033	•	10	500	
	13112	32	15,5	17,0	33,5	70,0	43,0	0,054	•	5	300	
7.4	13114	40	20,0	20,0	40,5	81,0	52,0	0,099	•	5	175	
9	13116	50	26,0	26,0	49,5	99,0	68,0	0,177	•	5	100	
11	13118	63	32,5	32,5	60,0	120,0	84,0	0,368	•	1	50	
17.6	13120	75	38,5	38,5	68,5	137,0	100,0	0,541	•	1	30	
	13122	90	46,0	46,0	79,0	158,0	120,0	0,920	•	1	25	
	13124	110	56,0	56,0	93,0	186,0	147,0	1,598	•	1	14	
	13126	125	76,5	76,5	116,5	233,0	167,0	2,673	•	1		

T-PIECE BUTT WELDING

Systems:

aquatherm green pipe,
aquatherm blue pipe

Material:

fusiolen® PP-RCT

Standard:

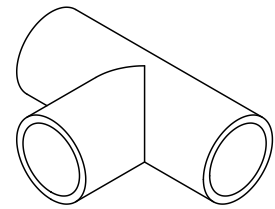
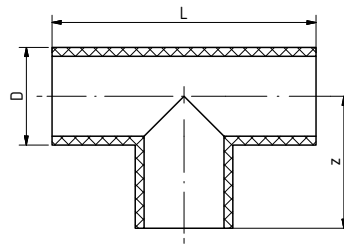
DIN 16962, DIN EN ISO 15874

Notice:

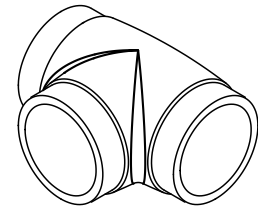
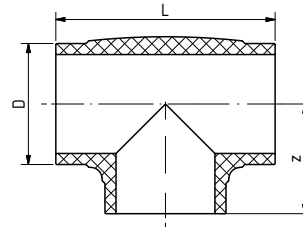
There is a gradual conversion of the XXL-fittings made of pipe segments to an injection molded design. The table shows which articles are already available in new design at the time of printing this catalogue. In the aquatherm technews we will inform you of further changes, but first the current stock of the t-pieces made of pipe segments has to be sold.

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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.



Fitting made of
pipe segments



Injection molded fitting
Colour: green

SDR	Art. no.	D [mm]	L [mm]	z [mm]	Weight [kg]	System	pipe segments	injection molded (green)	PU	Box unit	Price € pc
<i>butt welding</i>											
7.4	13130	160	290,0	145,0	3,600	•		•	1		
	13134	200	500,0	250,0	9,825	•	•		1		
	13138	250	750,0	375,0	24,000	•	•		1		
9	313130	160	290,0	145,0	3,290	•		•	1		
	313134	200	410,0	205,0	7,000	•		•	1		
	313138	250	486,0	243,0	12,500	•		•	1		
	313142	315	920,0	460,0	42,609	•	•		1		
11	13131	160	290,0	145,0	2,943	•	•	•	1		
	13135	200	410,0	205,0	6,099	•	•	•	1		
	13139	250	486,0	243,0	10,710	•	•	•	1		
	13143	315	920,0	460,0	20,450	•	•		1		
11	2013143	315	920,0	460,0	36,674		•	•		1	
	2013145	355	960,0	480,0	40,000		•	•		1	
	2013147	400	1000,0	500,0	62,100		•	•		1	
	2013149	450	1050,0	525,0	82,792		•	•		1	
17.6	2513130	160	290,0	145,0	2,348		•	•		1	
	2513134	200	410,0	205,0	4,500		•	•		1	
	2513138	250	486,0	243,0	8,868		•	•		1	
	2513142 ¹⁾	315	920,0	460,0	19,800		•	•		1	
	2513144 ¹⁾	355	960,0	480,0	27,500		•	•		1	
	2513146 ¹⁾	400	1000,0	500,0	40,395		•	•		1	
	2513148 ¹⁾	450	1050,0	525,0	45,400		•	•		1	
	2513150 ¹⁾	500	1200,0	600,0	75,726		•	•		1	
	2513154 ¹⁾	630	1330,0	665,0	122,500		•	•		1	

¹⁾ mechanically stabilized through a fibre mix integrated in the middle layer of the fusiolen® PP-RP

aquatherm blue pipe Y-PIECES*Special fittings on demand***ATTENTION – PLEASE NOTE!**

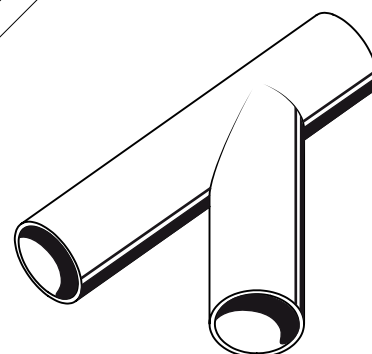
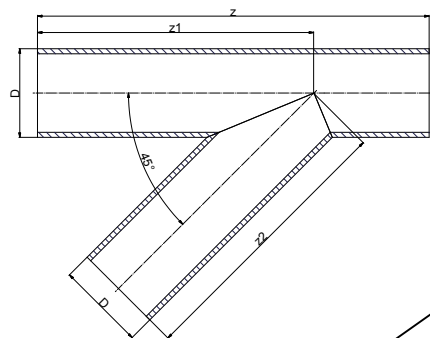
These branches are for special applications in the **unpressurized** areas, e.g. in vacuum dewatering in the shipbuilding. **In no case** they may be exposed to the pressures, given in the working pressure tables on page 167 – 169.

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-RCT

Standard: DIN16962-2

Colour: blue



SDR	Art. no.	Dimension D [mm]	z [mm]	z1 [mm]	z2 [mm]	Weight [kg]	System		PU	Box unit	Price € pc
Socket welding											
11	2013018	63	560,0	380,0	380,0	0,843	●	●	1		
	2013020	75	570,0	405,0	405,0	1,210	●	●	1		
	2013022	90	577,0	412,0	412,0	1,750	●	●	1		
	2013024	110	610,0	435,0	435,0	2,730	●	●	1		
	2013026	125	665,0	475,0	475,0	3,840	●	●	1		
	Butt welding										
	2013031	160	782,0	551,0	551,0	7,300	●	●	1		
	2013035	200	925,0	650,0	650,0	13,360	●	●	1		
	2013039	250	1105,0	780,0	780,0	24,780	●	●	1		
Socket welding											
17.6	2513026	125	665,0	475,0	475,0	2,470		●	1		
	Butt welding										
	2513030	160	782,0	551,0	551,0	4,700		●	1		
	2513034	200	925,0	650,0	650,0	8,640		●	1		
	2513038	250	1105,0	780,0	780,0	16,010		●	1		

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

RED.-T-PIECE, SOCKET WELDING

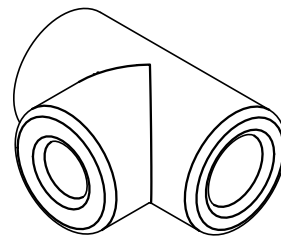
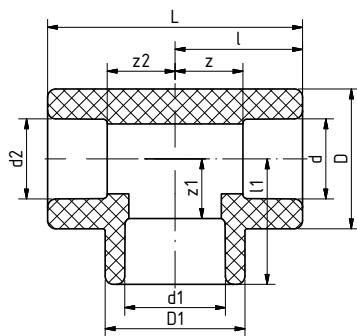
Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green

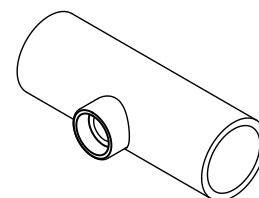
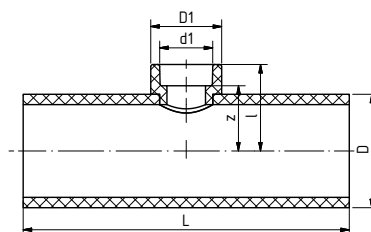
Form: injection moulded fittings



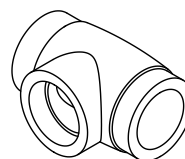
SDR	Art. no.	d [mm]	d1 [mm]	d2 [mm]	L [mm]	l [mm]	l1 [mm]	z [mm]	z1 [mm]	z2 [mm]	D [mm]	D1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>																	
6 7.4 9 11 17.6	13506	20	16	16	51,0	25,5	25,3	11,0	12,3	12,5	29,5	29,5	0,025	•	10		
	13508	20	16	20	51,0	25,5	25,3	11,0	12,3	11,0	29,5	29,5	0,024	•	10		
	13510	20	20	16	51,0	25,5	25,3	11,0	10,8	12,5	29,5	29,5	0,023	•	10		
	13511	20	25	20	62,0	31,0	30,5	16,5	14,5	16,5	34,0	34,0	0,040	• •	10		
	13512	25	16	16	62,0	31,0	30,5	15,0	17,5	18,0	34,0	34,0	0,043	•	10		
	13514	25	16	20	62,0	31,0	30,5	15,0	17,5	16,5	34,0	34,0	0,041	•	10		
	13516	25	16	25	62,0	31,0	30,5	15,0	17,5	15,0	34,0	34,0	0,038	•	10		
	13520	25	20	20	62,0	31,0	30,5	15,0	16,0	16,5	34,0	34,0	0,039	• •	10	500	
	13522	25	20	25	62,0	31,0	30,5	15,0	16,0	15,0	34,0	34,0	0,036	• •	10	500	
	13528	32	16	32	70,0	35,0	31,0	17,0	18,0	17,0	43,0	29,5	0,053	• •	5	300	
	13532	32	20	20	73,5	36,8	37,0	18,8	22,5	22,3	43,0	43,0	0,076	• •	5	300	
	13534	32	20	32	70,0	35,0	31,0	17,0	16,5	17,0	43,0	29,5	0,053	• •	5	300	
	13538	32	25	25	70,0	35,0	34,5	17,0	18,5	19,0	43,0	43,0	0,069	• •	5		
	13540	32	25	32	70,0	35,0	32,0	17,0	16,0	17,0	43,0	34,0	0,050	• •	5	300	
	13542	40	20	40	83,0	41,5	36,0	21,0	21,5	21,0	52,0	34,0	0,091	• •	5	200	
	13544	40	25	40	83,0	41,5	36,0	21,0	20,0	21,0	52,0	34,0	0,089	• •	5	200	
	13546	40	32	40	84,0	42,0	40,5	21,5	22,5	21,5	52,0	52,0	0,092	• •	5	200	
	13547	50	20	50	99,0	49,5	40,5	26,0	26,0	26,0	68,0	29,5	0,162	• •	5	100	
	13548	50	25	50	99,0	49,5	44,5	26,0	28,5	26,0	68,0	34,0	0,158	• •	5	100	
	13550	50	32	50	99,0	49,5	44,5	26,0	26,5	26,0	68,0	43,0	0,160	• •	5	100	
	13551	50	40	50	99,0	49,5	49,5	26,0	29,0	26,0	68,0	68,0	0,161	• •	5	100	
	13552	63	20	63	120,0	60,0	48,5	32,5	34,0	32,5	84,0	34,0	0,335	• •	1	50	
	13554	63	25	63	120,0	60,0	48,5	32,5	32,5	32,5	84,0	34,0	0,331	• •	1	50	
	13556	63	32	63	120,0	60,0	53,0	32,5	35,5	32,5	84,0	52,0	0,340	• •	1	50	
	13558	63	40	63	120,0	60,0	53,0	32,5	33,0	32,5	84,0	52,0	0,332	• •	1	50	
	13560	63	50	63	120,0	60,0	56,0	32,5	36,5	32,5	84,0	68,0	0,398	• •	1		
	13561	75	20	75	137,0	68,5	54,5	38,5	40,0	38,5	100,0	34,0	0,501	• •	1		
	13562	75	25	75	137,0	68,5	54,5	38,5	38,5	38,5	100,0	34,0	0,497	• •	1		
	13564	75	32	75	137,0	68,5	59,0	38,5	41,0	38,5	100,0	52,0	0,505	• •	1		
	13566	75	40	75	137,0	68,5	59,0	38,5	38,5	38,5	100,0	52,0	0,497	• •	1		
	13568	75	50	75	137,0	68,5	66,0	38,5	42,5	38,5	100,0	84,0	0,550	• •	1		
	13570	75	63	75	137,0	68,5	66,0	38,5	38,5	38,5	100,0	84,0	0,515	• •	1		
	13576	90	32	90	158,0	79,0	64,0	46,0	46,0	46,0	120,0	43,0	0,880	• •	1		
	13578	90	40	90	158,0	79,0	66,5	46,0	46,0	46,0	120,0	52,0	0,862	• •	1		
	13580	90	50	90	158,0	79,0	69,5	46,0	46,0	46,0	120,0	68,0	0,905	• •	1		
	13582	90	63	90	158,0	79,0	73,5	46,0	46,0	46,0	120,0	84,0	0,876	• •	1		
	13584	90	75	90	158,0	79,0	76,0	46,0	46,0	46,0	120,0	100	0,991	• •	1		
	13586	110	63	110	186,0	93,0	83,5	56,0	56,0	56,0	147,0	84,0	1,534	• •	1		
	13588	110	75	110	186,0	93,0	86,0	56,0	56,0	56,0	147,0	100,0	1,517	• •	1		
	13590	110	90	110	186,0	93,0	89,0	56,0	56,0	56,0	147,0	120,0	1,548	• •	1		
	13592	125	75	125	233,0	116,5	106,5	76,5	76,5	76,5	167,0	100,0	2,427	• •	1		
	13594	125	90	125	233,0	116,5	109,5	76,5	76,5	76,5	167,0	120,0	2,509	• •	1		
	13596	125	110	125	233,0	116,5	113,5	76,5	76,5	76,5	167,0	147,0	2,563	• •	1		

RED-T-PIECE, SOCKET- & BUTT WELDING

Systems: aquatherm green pipe, aquatherm blue pipe
Material: fusiole® PP-R / PP-RCT
Standard: DIN 16962, DIN EN ISO 15874
Colour: green



Fitting made of pipe segments



Injection molded fitting

Note: There is a gradual conversion of the XXL-fittings made of pipe segments to an injection molded design. The table shows which articles are already available in new design at the time of printing this catalogue. In the aquatherm technews we will inform you of further changes, but first the current stock of the red-t-pieces made of pipe segments has to be sold.

All fittings, which are converted to the injection molding production, are still available on inquiry as special fittings made of pipe segments. No article numbers are defined for special fittings of any type.

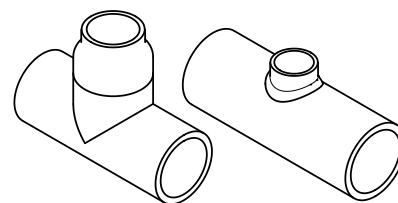
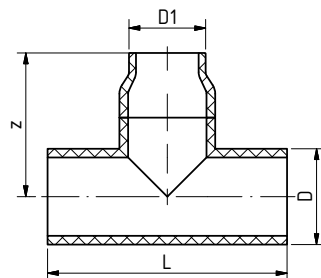
Please note! Electrofusion sockets can not be processed directly with injection molded fittings. When using electrofusion sockets either segment welded special fittings must be used or pipe pieces must be welded to the injection molded fittings.

SDR	Art. no.	D [mm]	d1 [mm]	D1 [mm]	L [mm]	l [mm]	z [mm]	Weight [kg]	System	pipe segments	injection molded*	PU	Box unit	Price € pc
<i>branch: socket welding</i>														
7.4	13600	160	75	100,0	460,0	122,0	92,0	4,414	•	•		1		
	13602	160	90	120,0	460,0	125,0	92,0	4,515	•	•		1		
	13606	160	125	167,0	290,0	120,0	80,0	3,441	•		•	1		
	13608	200	75	100,0	500,0	142,0	112,0	7,110	•	•		1		
	13610	200	90	120,0	500,0	145,0	112,0	7,540	•	•		1		
	13612	200	110	147,0	500,0	149,0	112,0	7,325	•	•		1		
	13614	200	125	167,0	500,0	155,0	115,0	7,645	•	•		1		
	13624	250	75	100,0	750,0	167,0	137,0	16,600	•	•		1		
	13626	250	90	120,0	750,0	170,0	137,0	16,800	•	•		1		
	13628	250	110	147,0	750,0	174,0	137,0	16,800	•	•		1		
9	13630	250	125	167,0	750,0	180,0	140,0	17,000	•	•		1		
	313600	160	75	100,0	460,0	122,0	92,0	3,903	•	•		1		
	313602	160	90	120,0	460,0	125,0	92,0	4,039	•	•		1		
	313608	200	75	100,0	500,0	142,0	112,0	6,476	•	•		1		
	313610	200	90	120,0	500,0	145,0	112,0	6,581	•	•		1		
	313612	200	110	147,0	500,0	149,0	112,0	6,863	•	•		1		
	313614	200	125	167,0	500,0	155,0	115,0	7,114	•	•		1		
	313624	250	75	100,0	750,0	167,0	137,0	14,802	•	•		1		
	313626	250	90	120,0	750,0	170,0	137,0	14,932	•	•		1		
	313628	250	110	147,0	750,0	174,0	137,0	15,178	•	•		1		
11	313630	250	125	167,0	750,0	180,0	140,0	15,398	•	•		1		
	313904 ¹⁾	315	125	167,0	920,0	212,5	172,5	29,196	•	•		1		
	13601	160	75	100,0	460,0	122,0	92,0	3,140	•	•		1		
	13603	160	90	120,0	460,0	125,0	92,0	3,176	•	•		1		
	13607	160	125	167,0	290,0	120,0	80,0	2,842	•	•	•	1		
	13609	200	75	100,0	500,0	142,0	112,0	5,284	•	•		1		
	13611	200	90	120,0	500,0	145,0	112,0	5,168	•	•		1		
	13613	200	110	147,0	500,0	149,0	112,0	5,648	•	•		1		
	13615	200	125	167,0	500,0	155,0	115,0	5,786	•	•		1		
	13625	250	75	100,0	750,0	167,0	137,0	12,000	•	•		1		
	13627	250	90	120,0	750,0	170,0	137,0	12,000	•	•		1		
	13629	250	110	147,0	750,0	174,0	137,0	13,000	•	•		1		
	13631	250	125	167,0	750,0	180,0	140,0	12,000	•	•		1		
	13651 ¹⁾	315	125	167,0	920,0	213,0	173,0	25,150	•	•		1		

¹⁾ mechanically stabilized through a fibre mix integrated in the middle layer of the fusiole® PP-R

RED-T-PIECE, BUTT WELDING

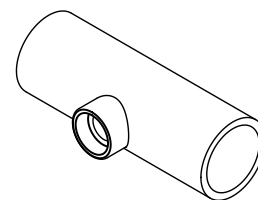
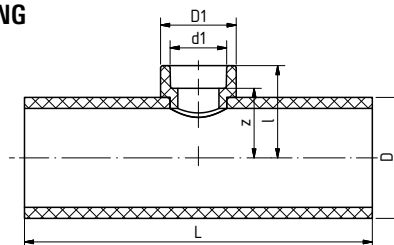
Systems: aquatherm green pipe
Material: fusiole® PP-RCT
Standard: DIN 16962, DIN EN ISO 15874
Branch: butt welding



SDR	Art. no.	D [mm]	D1 [mm]	L [mm]	z [mm]	Weight [kg]	System	Pipe with reducer	Pipe with weld-in saddle	PU	Box unit	Price € pc
<i>branch: butt welding</i>												
7.4	13618	200	160	500,0	300,0	10,891	•	•		1		
	13634	250	160	750,0	375,0	28,000	•	•		1		
	13640	250	200	750,0	375,0	27,000	•	•		1		
9	313618	200	160	500,0	300,0	9,332	•	•		1		
	313634	250	160	750,0	375,0	21,547	•	•		1		
	313640	250	200	750,0	376,0	21,853	•	•		1		
	313906	315	160	920,0	238,0	29,237	•		•	1		
	313908	315	200	920,0	460,0	42,166	•	•		1		
	313910	315	250	920,0	460,0	42,557	•	•		1		
11	13619	200	160	500,0	300,0	7,445	•	•		1		
	13635	250	160	750,0	375,0	19,500	•	•		1		
	13641	250	200	750,0	375,0	18,500	•	•		1		
	13653	315	160	920,0	237,5	24,850	•		•	1		
	13655	315	200	920,0	460,0	29,400	•	•		1		
	13657	315	250	920,0	460,0	30,500	•	•		1		

aquatherm blue pipe RED-T-PIECE, SOCKET- & BUTT WELDING

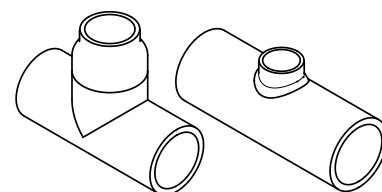
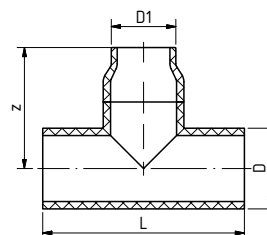
Systems: **aquatherm blue pipe**
Material: fusiolen® PP-R / PP-RCT
Standard: DIN 16962, DIN EN ISO 15874
Colour: blue/green
Branch: socket welding
Form: pipes with weld-in saddle



SDR	Art. no.	D [mm]	d1 [mm]	D1 [mm]	L [mm]	l [mm]	z [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>branch: socket welding</i>												
11	2013609	200	75	100,0	500,0	142,0	112,0	5,460	•	1		
	2013611	200	90	120,0	500,0	145,0	112,0	5,580	•	1		
	2013613	200	110	147,0	500,0	149,0	112,0	5,810	•	1		
	2013615	200	125	167,0	500,0	155,0	115,0	6,100	•	1		
	2013625	250	75	100,0	750,0	167,0	137,0	12,440	•	1		
	2013627	250	90	120,0	750,0	170,0	137,0	12,420	•	1		
	2013629	250	110	147,0	750,0	174,0	137,0	12,760	•	1		
	2013631	250	125	167,0	750,0	180,0	140,0	13,030	•	1		
	2013651	315	125	167,0	920,0	213,0	173,0	25,000	•	1		
	2013663	355	125	167,0	960,0	233,0	193,0	32,500	•	1		
	2013676	400	125	167,0	1000,0	255,0	215,0	42,100	•	1		
	2013690	450	125	167,0	1050,0	280,0	240,0	55,700	•	1		

aquatherm blue pipe RED-T-PIECE, BUTT WELDING

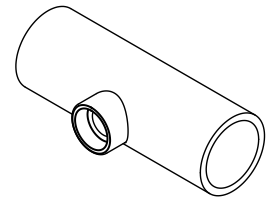
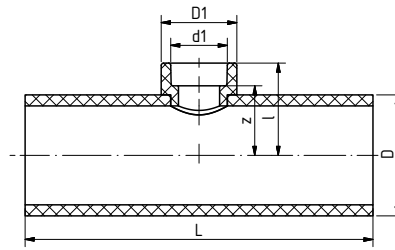
Systems: **aquatherm blue pipe**
Material: fusiolen® PP-RCT
Standard: DIN 16962, DIN EN ISO 15874
Colour: blue/green
Branch: butt welding



SDR	Art. no.	D [mm]	D1 [mm]	L [mm]	z [mm]	Weight [kg]	System	Pipe with reducer	Pipe with weld-in saddle	PU	Box unit	Price € pc
<i>branch: butt welding</i>												
11	2013619	200	160	500,0	300,0	7,650	•	•		1		
	2013635	250	160	750,0	375,0	19,030	•	•		1		
	2013641	250	200	750,0	375,0	21,100	•	•		1		
	2013653	315	160	920,0	237,5	25,000	•		•	1		
	2013655	315	200	920,0	460,0	33,200	•	•		1		
	2013657	315	250	920,0	460,0	31,500	•	•		1		
	2013665	355	160	960,0	257,5	32,500	•		•	1		
	2013667	355	200	960,0	267,5	30,200	•		•	1		
	2013669	355	250	960,0	480,0	40,000	•	•		1		
	2013671	355	315	960,0	480,0	40,000	•	•		1		
	2013678	400	160	1000,0	354,0	44,100	•		•	1		
	2013680	400	200	1000,0	318,0	44,100	•		•	1		
	2013682	400	250	1000,0	280,0	46,000	•		•	1		
	2013684	400	315	1000,0	500,0	57,790	•	•		1		
	2013685	400	355	1000,0	500,0	52,715	•	•		1		
	2013692	450	160	1050,0	379,0	57,900	•		•	1		
	2013694	450	200	1050,0	343,0	57,900	•		•	1		
	2013696	450	250	1050,0	305,0	57,900	•		•	1		
	2013698	450	315	1050,0	315,0	58,400	•		•	1		
	2013699	450	355	1050,0	525,0	62,491	•	•		1		
	2013700	450	400	1050,0	525,0	62,683	•	•		1		

aquatherm blue pipe RED-T-PIECE SOCKET- & BUTT WELDING

Systems: aquatherm blue pipe
Material: fusiole® PP-R / PP-RCT
Standard: DIN 16962, DIN EN ISO 15874
Colour: blue/green
Branch: socket welding
Form: pipes with weld-in saddle

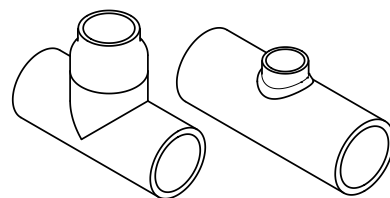
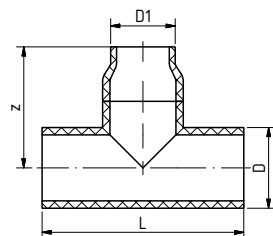


SDR	Art. no.	D [mm]	d1 [mm]	D1 [mm]	L [mm]	l [mm]	z [mm]	Weight [kg]	System	pipe segments	injection molded*	PU	Box unit	Price € pc
<i>branch: socket welding</i>														
17.6	2513600	160	75	100,0	460,0	122,0	92,0	2,227	•	•		1		
	2513602	160	90	120,0	460,0	125,0	92,0	2,364	•	•		1		
	2513606	160	125	167,0	290,0	120,0	80,0	2,309			•	1		
	2513608	200	75	100,0	500,0	142,0	112,0	3,620	•	•		1		
	2513610	200	90	120,0	500,0	145,0	112,0	3,742	•	•		1		
	2513612	200	110	147,0	500,0	149,0	112,0	3,976	•	•		1		
	2513614	200	125	167,0	500,0	155,0	115,0	4,269	•	•		1		
	2513624	250	75	100,0	750,0	167,0	137,0	8,149	•	•		1		
	2513626	250	90	120,0	750,0	170,0	137,0	8,274	•	•		1		
	2513628	250	110	147,0	750,0	174,0	137,0	8,504	•	•		1		
	2513630	250	125	167,0	750,0	180,0	140,0	9,000	•	•		1		
	2513651	315	125	167,0	920,0	213,0	173,0	17,570	•	•		1		
	2513663	355	125	167,0	960,0	233,0	193,0	21,500	•	•		1		
	2513676	400	125	167,0	1000,0	255,0	215,0	27,690	•	•		1		
	2513690	450	125	167,0	1050,0	280,0	240,0	36,470	•	•		1		
	2513804	500	125	167,0	1200,0	305,0	265,0	51,250	•	•		1		
	2513839	630	125	167,0	1330,0	370,0	330,0	89,170	•	•		1		

* status quo at the time of printing, further injection molded parts follow

aquatherm blue pipe RED.-T-PIECE, BUTT WELDING

Systems: aquatherm blue pipe
Material: fusiofen® PP-RCT
Standard: DIN 16962, DIN EN ISO 15874
Colour: blue/green
Branch: butt welding



SDR	Art. no.	D [mm]	D1 [mm]	L [mm]	z [mm]	Weight [kg]	System	Pipe with reducer	Pipe with weld-in saddle	PU	Box unit	Price € pc
<i>butt welding</i>												
17.6	2513618	200	160	500,0	300,0	5,000	•	•		1		
	2513634	250	160	750,0	375,0	11,600	•	•		1		
	2513640	250	200	750,0	375,0	11,500	•	•		1		
	2513653	315	160	920,0	237,5	16,500	•		•	1		
	2513655	315	200	920,0	460,0	23,600	•	•		1		
	2513657	315	250	920,0	460,0	22,600	•	•		1		
	2513665	355	160	960,0	257,5	21,500	•		•	1		
	2513667	355	200	960,0	267,5	21,900	•		•	1		
	2513669	355	250	960,0	480,0	28,300	•	•		1		
	2513671	355	315	960,0	480,0	30,500	•	•		1		
	2513678	400	160	1000,0	354,0	29,700	•		•	1		
	2513680	400	200	1000,0	318,0	29,700	•		•	1		
	2513682	400	250	1000,0	280,0	29,000	•		•	1		
	2513684	400	315	1000,0	500,0	30,667	•	•		1		
	2513685	400	355	1000,0	500,0	30,748	•	•		1		
	2513692	450	160	1050,0	379,0	37,000	•		•	1		
	2513694	450	200	1050,0	343,0	37,000	•		•	1		
	2513696	450	250	1050,0	305,0	37,000	•		•	1		
	2513698	450	315	1050,0	315,0	37,000	•		•	1		
	2513699	450	355	1050,0	525,0	50,500	•	•		1		
	2513700	450	400	1050,0	525,0	50,100	•	•		1		
	2513806	500	160	1200,0	404,0	53,400	•		•	1		
	2513808	500	200	1200,0	368,0	53,500	•		•	1		
	2513810	500	250	1200,0	330,0	53,500	•		•	1		
	2513812	500	315	1200,0	340,0	54,000	•		•	1		
	2513813	500	355	1200,0	600,0	57,039	•	•		1		
	2513814	500	400	1200,0	600,0	57,245	•	•		1		
	2513815	500	450	1200,0	600,0	57,365	•	•		1		
	2513841	630	160	1330,0	474,0	91,530	•		•	1		
	2513843	630	200	1330,0	438,0	91,500	•		•	1		
	2513845	630	250	1330,0	400,0	91,500	•		•	1		
	2513847	630	315	1330,0	405,0	92,350	•		•	1		
	2513849	630	400	1330,0	665,0	97,299	•	•		1		
	2513850	630	450	1330,0	665,0	97,703	•	•		1		
	2513851	630	500	1330,0	665,0	98,032	•	•		1		

CROSS

Systems:

aquatherm green pipe,
aquatherm blue pipe

Material:

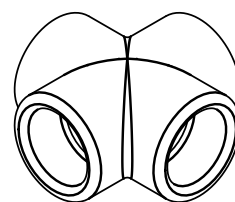
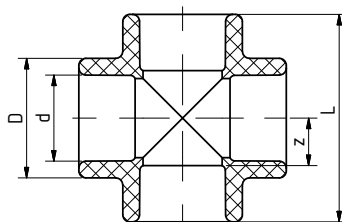
fusiolen® PP-R

Standard:

DIN 16962, DIN EN ISO 15874

Colour:

green



SDR	Art. no.	Dimension d [mm]	D [mm]	L [mm]	z [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>										
6	13708	20	29,5	51,5	11,3	0,025	• •	10		
7.4	13710	25	34,0	59,0	13,5	0,035	• •	10		
9	13712	32	43,0	70,0	17,0	0,062	• •	5		
11	13714	40	52,0	83,0	21,0	0,099	• •	5		

CROSS OVER FITTING

Systems:

aquatherm green pipe,
aquatherm blue pipe

Material:

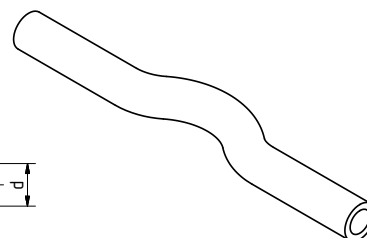
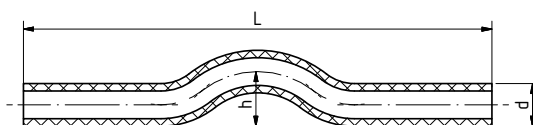
fusiolen® PP-R

Standard:

DIN 16962, DIN EN ISO 15874

Colour:

green



SDR	Art. no.	Dimension d [mm]	h [mm]	L [mm]	Weight [kg]	System	PU	Box unit	Price € pc
socket welding									
6 7.4 9 11	16106	16	25,0	352,0	0,038		10		
	16108	20	32,0	352,0	0,060		10		
	16110	25	37,5	352,0	0,091		10		
	16112	32	48,0	352,0	0,154		5		

END CAP

Systems:

aquatherm green pipe,
aquatherm blue pipe

Material:

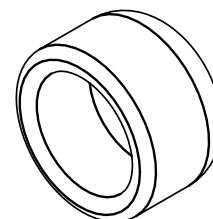
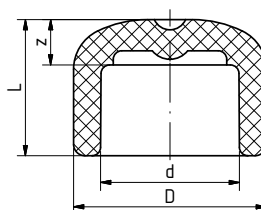
fusiolen® PP-R

Standard:

DIN 16962, DIN EN ISO 15874

Colour:

green



SDR	Art. no.	Dimension d [mm]	D [mm]	z [mm]	L [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>										
6 7.4 9 11	14106	16	26,0	13,5	26,5	0,008	•	10	2000	
	14108	20	29,5	9,5	24,0	0,009	• •	10	2000	
	14110	25	34,0	8,0	24,0	0,011	• •	10	1500	
	14112	32	43,0	11,0	29,0	0,023	• •	5	1000	
	14114	40	52,0	17,5	38,0	0,042	• •	5	500	
	14116	50	68,0	21,0	44,5	0,082	• •	5	300	
	14118	63	84,0	24,5	52,0	0,146	• •	1	150	
	14120	75	100,0	28,5	58,5	0,243	• •	1	90	
	14122	90	120,0	34,5	67,5	0,365	• •	1	60	
	14124	110	147,0	28,0	65,0	0,635	• •	1	40	
	14126	125	167,0	42,0	82,0	0,872	• •	1		

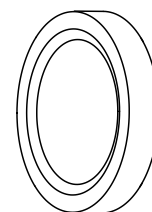
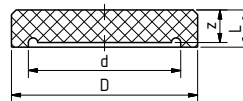
END CAP BUTT-WELDING

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-RCT

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	Dimension D [mm]	L [mm]	z [mm]	d [mm]	Weight [kg]	System	PU	Box unit	Price € pc
7.4	14130	160	70,0	21,9	116,2	0,876	•	1		
	14134	200	80,0	27,4	145,2	1,398	•	1		
	14138	250	90,0	34,2	181,6	2,530	•	1		
9	314130	160	70,0	17,9	124,2	0,847	•	1		
	314134	200	80,0	22,4	155,2	1,373	•	1		
	314138	250	90,0	27,9	194,2	2,856	•	1		
	314142	315	70,0	52,5	244,6	5,080	•	1		
	314144	355	80,0	66,5	275,6	7,050	•	1		
11	14131	160	70,0	14,6	130,8	0,631	• •	1		
	14135	200	80,0	18,2	163,6	1,070	• •	1		
	14139	250	90,0	22,7	204,6	1,989	• •	1		
	14143	315	70,0	52,5	257,8	4,200	• •	1		
	14145	355	80,0	67,5	290,6	6,410	• •	1		
	14147	400	70,0	60,0	327,4	7,190	• •	1		
	14149	450	80,0	70,0	368,2	10,500	• •	1		
17.6	2514130	160	70,0	9,1	141,8	0,679	•	1		
	2514134	200	80,0	11,4	177,2	0,925	•	1		
	2514138	250	90,0	14,2	221,6	1,305	•	1		
	2514142	315	70,0	60,0	279,2	4,500	•	1		
	2514144	355	70,0	60,0	314,8	5,540	•	1		
	2514146	400	75,0	65,0	354,6	6,000	•	1		
	2514148	450	70,0	56,0	399,0	8,520	•	1		
	2514150	500	75,0	62,0	443,2	12,500	•	1		
	2514154	630	90,0	78,0	558,6	23,500	•	1		

WELD-IN SADDLE

for pressureless installation

Systems:

aquatherm green pipe,
aquatherm blue pipe

Material:

fusiolen® PP-R

Standard:

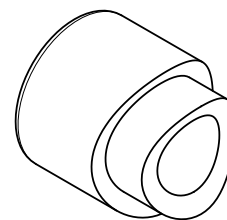
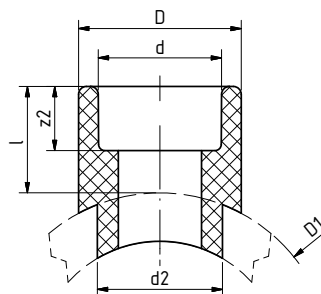
DIN 16962, DIN EN ISO 15874

Colour:

green

Notice:

*do not use with aquatherm blue pipe OT



SDR	Art. no.	D1 [mm]	d [mm]	d2 [mm]	l [mm]	z2 [mm]	D [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>												
6 7.4 9 11 17.6	15156*	40	20	25	27,0	14,5	29,5	0,016	• •	5		
	15158*	40	25	25	28,5	16,0	34,0	0,017	• •	5		
	15160	50	20	25	27,5	14,5	29,5	0,018	• •	5		
	15162	50	25	25	28,5	16,0	34,0	0,019	• •	5		
	15164	63	20	25	27,5	14,5	29,5	0,017	• •	5		
	15166	63	25	25	28,5	16,0	34,0	0,019	• •	5		
	15168	63	32	32	30,0	18,0	43,0	0,028	• •	5		
	15170	75	20	25	27,5	14,5	29,5	0,018	• •	5		
	15172	75	25	25	28,5	16,0	34,0	0,019	• •	5		
	15174	75	32	32	30,0	18,0	43,0	0,028	• •	5		
	15175	75	40	40	34,0	20,5	52,0	0,049	• •	5		
	15176	90	20	25	27,5	14,5	29,5	0,018	• •	5		
	15178	90	25	25	28,5	16,0	34,0	0,019	• •	5		
	15180	90	32	32	30,0	18,0	43,0	0,029	• •	5		
	15181	90	40	40	34,0	20,5	52,0	0,048	• •	5		
	15182	110	20	25	27,5	14,5	29,5	0,019	• •	5		
	15184	110	25	25	28,5	16,0	34,0	0,020	• •	5		
	15186	110	32	32	30,0	18,0	43,0	0,030	• •	5		
	15188	110	40	40	34,0	20,5	52,0	0,050	• •	5		
	15189	110	50	50	34,0	23,5	68,0	0,091	• •	5		
	15190	125	20	25	27,5	14,5	29,5	0,019	• •	5		
	15192	125	25	25	28,5	16,0	34,0	0,020	• •	5		
	15194	125	32	32	30,0	18,0	43,0	0,029	• •	5		
	15196	125	40	40	34,0	20,5	52,0	0,050	• •	5		
	15197	125	50	50	34,0	23,5	68,0	0,090	• •	5		
	15198	125	63	63	38,0	27,5	84,0	0,149	• •	5		
	15206	160	20	25	27,5	14,5	29,5	0,021	• •	5		
	15208	160	25	25	28,5	16,0	34,0	0,023	• •	5		
	15210	160	32	32	30,0	18,0	43,0	0,034	• •	5		
	15212	160	40	40	34,0	20,5	52,0	0,054	• •	5		
	15214	160	50	50	34,0	23,5	68,0	0,094	• •	5		
	15216	160	63	63	38,0	27,5	84,0	0,157	• •	5		
	15218	160	75	75	42,0	30,0	100,0	0,238	• •	5		
	15220	160	90	90	45,0	33,0	120,0	0,360	• •	5		
	15228	200-250	20	25	27,5	14,5	29,5	0,020	• •	5		
	15229	200-250	25	25	28,5	16,0	34,0	0,021	• •	5		
	15230	200-250	32	32	30,0	18,0	43,0	0,031	• •	5		
	15231	200	40	40	34,0	20,5	52,0	0,049	• •	5		
	15232	200	50	50	34,0	23,5	68,0	0,087	• •	5		
	15233	200	63	63	37,5	27,5	84,0	0,146	• •	5		
	15234	200	75	75	42,0	30,0	100,0	0,225	• •	5		
	15235	200	90	90	45,0	33,0	120,0	0,356	• •	5		
	15236	200	110	110	49,0	37,0	147,0	0,638	• •	5		
	15237	200	125	125	55,0	40,0	167,0	0,862	• •	5		
	15251	250	40	40	34,0	20,5	52,0	0,053	• •	5		
	15252	250	50	50	34,0	23,5	68,0	0,090	• •	5		
	15253	250	63	63	37,5	27,5	84,0	0,152	• •	5		
	15254	250	75	75	42,0	30,0	100,0	0,222	• •	5		
	15255	250	90	90	45,0	33,0	120,0	0,348	• •	5		
	15256	250	110	110	49,0	37,0	147,0	0,602	• •	5		
	15257	250	125	125	55,0	40,0	167,0	0,820	• •	5		

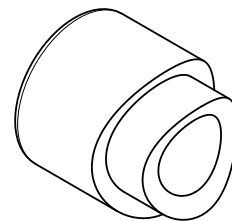
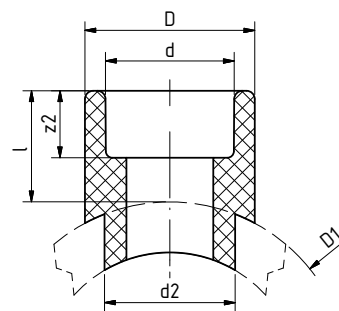
WELD-IN SADDLE*for pressureless installation*

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiofen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	D1 [mm]	d [mm]	d2 [mm]	l [mm]	z2 [mm]	D [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>												
6 7.4 9 11 17.6	15260	315-355	63	63	37,5	27,5	84,0	0,153	• •	1		
	15261	315-355	75	75	42,0	30,0	100,0	0,230	• •	1		
	15262	315	90	90	45,0	33,0	120,0	0,363	• •	1		
	15263	315	110	110	49,0	37,0	147,0	0,592	• •	1		
	15264	315	125	125	55,0	40,0	167,0	0,830	• •	1		
	15268	355	90	90	45,0	33,0	120,0	0,355	• •	1		
	15269	355	110	110	49,0	37,0	147,0	0,586	• •	1		
	15270	355	125	125	55,0	40,0	167,0	0,813	• •	1		
	15275	400-500	75	75	42,0	30,0	100,0	0,216	• •	1		
	15277	400-450	110	110	49,0	37,0	147,0	0,535	• •	1		
	15278	400	125	125	55,0	40,0	167,0	0,693	• •	1		
	15288	400-500	90	90	45,0	33,0	120,0	0,330	• •	1		
	15290	450-500	125	125	55,0	40,0	167,0	0,671	• •	1		
	15300	400-630	63	63	37,5	27,5	84,0	0,498	• •	1		
	15303	500	110	110	49,0	37,5	147,0	0,533	• •	1		
	15315	630	75	75	42,0	30,0	100,0	0,260	• •	1		
	15316	630	90	90	45,0	33,0	120,0	0,350	• •	1		
	15318	630	125	125	55,0	40,0	167,0	0,689	• •	1		
	15331	630	110	110	49,0	37,0	147,0	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 pipe weld-in saddles are listed from page 102 onwards.

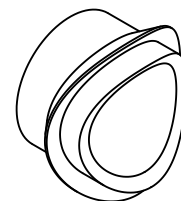
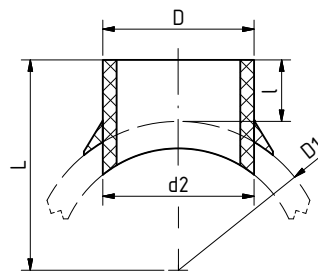
WELD-IN SADDLE BUTT WELDING*for pressureless installation*

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiofen® PP-RCT

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	D1 [mm]	D [mm]	d2 [mm]	l [mm]	L [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>butt welding</i>											
9	315265	315	160	160	80,0	237,5	0,831	• •	1		
	315271	355	160	160	80,0	257,5	0,845	• •	1		
11	15265	315	160	160	80,0	237,5	0,862	• •	1		
	15271	355	160	160	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 pipe weld-in saddles are listed from page 102 onwards.

WELD-IN SADDLE WITH FEMALE THREAD

for pressureless installation, with spanner flat

Systems:

aquatherm green pipe,
aquatherm blue pipe

Material:

fusiolen® PP-R

Standard:

DIN 16962, DIN EN ISO 15874

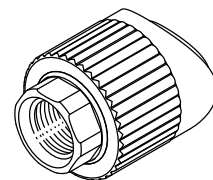
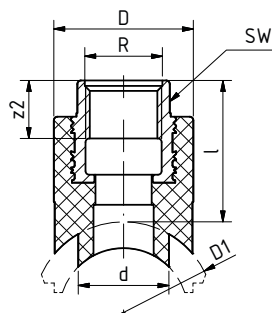
fusiolen® PP-R, brass

Colour:

green

Notice:

*do not use with aquatherm blue pipe OT



SDR	Art. no.	D1 [mm]	d [mm]	l [mm]	z2 [mm]	D [mm]	R	SW [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>													
6 7.4 9 11 17.6	28214*	40	25	39,0	16,0	38,5	1/2"	24	0,088	• •	5		
	28216	50	25	39,0	16,0	38,5	1/2"	24	0,090	• •	5		
	28218	63	25	39,0	16,0	38,5	1/2"	24	0,089	• •	5		
	28220	75	25	39,0	16,0	38,5	1/2"	24	0,083	• •	5		
	28222	90	25	39,0	16,0	38,5	1/2"	24	0,090	• •	5		
	28224	110	25	39,0	16,0	38,5	1/2"	24	0,089	• •	5		
	28226	125	25	39,0	16,0	38,0	1/2"	24	0,092	• •	5		
	28230	160	25	39,0	16,0	38,5	1/2"	24	0,092	• •	5		
	28232	200-250	25	39,0	16,0	38,5	1/2"	24	0,092	• •	5		
	28234	40	25	39,0	21,0	43,5	3/4"	31	0,107	• •	5		
	28236	50	25	39,0	21,0	43,5	3/4"	31	0,110	• •	5		
	28238	63	25	39,0	21,0	43,5	3/4"	31	0,109	• •	5		
	28240	75	25	39,0	21,0	43,5	3/4"	31	0,109	• •	5		
	28242	90	25	39,0	21,0	43,5	3/4"	31	0,110	• •	5		
	28244	110	25	39,0	21,0	43,5	3/4"	31	0,110	• •	5		
	28246	125	25	39,0	21,0	43,5	3/4"	31	0,112	• •	5		
	28250	160	25	39,0	21,0	43,5	3/4"	31	0,112	• •	5		
	28254	200-250	25	39,0	21,0	43,5	3/4"	31	0,112	• •	5		
	28260	75	32	43,0	22,0	60,0	1"	39	0,223	• •	5		
	28262	90	32	43,0	22,0	60,0	1"	39	0,223	• •	5		
	28264	110	32	43,0	22,0	60,0	1"	39	0,223	• •	5		
	28266	125	32	43,0	22,0	60,0	1"	39	0,224	• •	5		
	28270	160	32	43,0	22,0	60,0	1"	39	0,226	• •	5		
	28274	200-250	32	43,0	22,0	60,0	1"	39	0,244	• •	5		

WELD-IN SADDLE WITH FEMALE THREAD

for pressureless installation

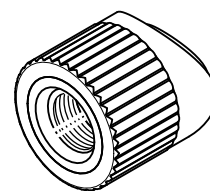
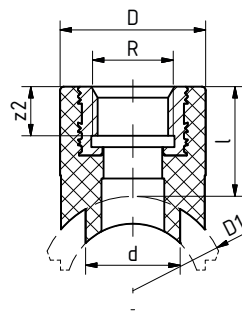
Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874
fusiolen® PP-R, stainless steel

Colour: green

Notice: *do not use with aquatherm blue pipe OT



SDR	Art. no.	D1 [mm]	d [mm]	l [mm]	z2 [mm]	D [mm]	R	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>												
6 7.4 9 11 17.6	928214*	40	25	39,0	16,0	38,5	1/2"	0,062	• •	5		
	928216	50	25	39,0	16,0	38,5	1/2"	0,064	• •	5		
	928218	63	25	39,0	16,0	38,5	1/2"	0,064	• •	5		
	928220	75	25	39,0	16,0	38,5	1/2"	0,064	• •	5		
	928222	90	25	39,0	16,0	38,5	1/2"	0,064	• •	5		
	928224	110	25	39,0	16,0	38,5	1/2"	0,069	• •	5		
	928226	125	25	39,0	16,0	38,5	1/2"	0,065	• •	5		
	928230	160	25	39,0	16,0	38,5	1/2"	0,066	• •	5		
	928232	200-250	25	39,0	16,0	38,5	1/2"	0,065	• •	5		
	928234	40	25	39,0	21,0	43,5	3/4"	0,082	• •	5		
	928236	50	25	39,0	21,0	43,5	3/4"	0,074	• •	5		
	928238	63	25	39,0	21,0	43,5	3/4"	0,073	• •	5		
	928240	75	25	39,0	21,0	43,5	3/4"	0,074	• •	5		
	928242	90	25	39,0	21,0	43,5	3/4"	0,074	• •	5		
	928244	110	25	39,0	21,0	43,5	3/4"	0,083	• •	5		
	928246	125	25	39,0	21,0	43,5	3/4"	0,074	• •	5		
	928250	160	25	39,0	21,0	43,5	3/4"	0,076	• •	5		
	928254	200-250	25	39,0	21,0	43,5	3/4"	0,084	• •	5		

WELD-IN SADDLE WITH FEMALE THREAD

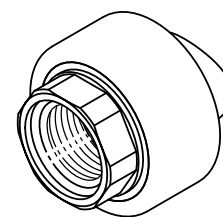
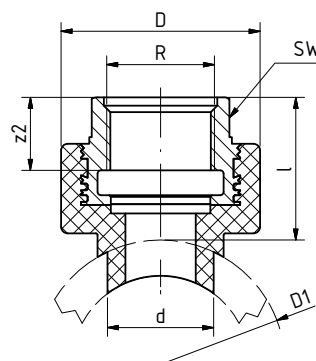
for pressureless installation, with spanner flat

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874
fusiolen® PP-R, stainless steel

Colour: green

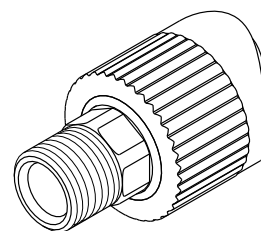
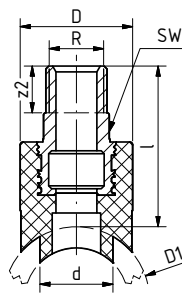


SDR	Art. no.	D1 [mm]	d [mm]	l [mm]	z2 [mm]	D [mm]	R	SW [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>													
6 7.4 9 11 17.6	928260	75	32	43,0	22,0	60,0	1"	39	0,234	• •	5		
	928262	90	32	43,0	22,0	60,0	1"	39	0,235	• •	5		
	928264	110	32	43,0	22,0	60,0	1"	39	0,236	• •	5		
	928266	125	32	43,0	22,0	60,0	1"	39	0,235	• •	5		
	928270	160	32	43,0	22,0	60,0	1"	39	0,238	• •	5		
	928274	200-250	32	43,0	22,0	60,0	1"	39	0,237	• •	5		

WELD-IN SADDLE WITH MALE THREAD

for pressureless installation, with spanner flat

Systems:	aquatherm green pipe, aquatherm blue pipe
Material:	fusiolen® PP-R
Standard:	DIN 16962, DIN EN ISO 15874
Colour:	green
Notice:	*do not use with aquatherm blue pipe OT



SDR	Art. no.	D1 [mm]	d [mm]	l [mm]	z2 [mm]	D [mm]	R	SW [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>													
6 7.4 9 11 17.6	28314*	40	25	55,0	16,0	38,5	1/2"	21	0,088	• •	5		
	28316	50	25	55,0	16,0	38,5	1/2"	21	0,090	• •	5		
	28318	63	25	55,0	16,0	38,5	1/2"	21	0,089	• •	5		
	28320	75	25	55,0	16,0	38,5	1/2"	21	0,097	• •	5		
	28322	90	25	55,0	16,0	38,5	1/2"	21	0,090	• •	5		
	28324	110	25	55,0	16,0	38,5	1/2"	21	0,089	• •	5		
	28326	125	25	55,0	16,0	38,5	1/2"	21	0,092	• •	5		
	28330	160	25	55,0	16,0	38,5	1/2"	21	0,092	• •	5		
	28334*	40	25	56,0	17,0	43,5	3/4"	24	0,107	• •	5		
	28336	50	25	56,0	17,0	43,5	3/4"	24	0,110	• •	5		
	28338	63	25	56,0	17,0	43,5	3/4"	24	0,109	• •	5		
	28340	75	25	56,0	17,0	43,5	3/4"	24	0,109	• •	5		
	28342	90	25	56,0	17,0	43,5	3/4"	24	0,110	• •	5		
	28344	110	25	56,0	17,0	43,5	3/4"	24	0,110	• •	5		
	28346	125	25	56,0	17,0	43,5	3/4"	24	0,112	• •	5		
	28350	160	25	56,0	17,0	43,5	3/4"	24	0,112	• •	5		

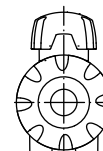
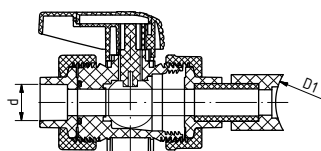
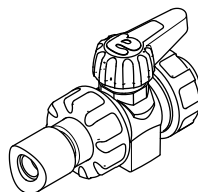
With hex shaped male thread, weld-in surface and weld-in socket for fusion with the inner wall of the pipe. The necessary tools for the fusion of aquatherm green pipe weld-in saddles are listed from page 102 onwards.

aquatherm WELD-ON SADDLE SET WITH BALL VALVE ◆

for installation under pressure

in use with tapping tool page 106

Systems:	aquatherm green pipe, aquatherm blue pipe
Material:	fusiolen® PP-R
Standard:	DIN 16962, DIN EN ISO 15874
Colour:	green
Notice:	do not use with aquatherm blue pipe OT



SDR	Art. no.	d [mm]	D1 [mm]	System	PU	Box unit	Price € pc
6 7.4 9 11 17.6	16175	40	75	• •	1		
	16181	40	90	• •	1		
	16188	40	110	• •	1		
	16196	40	125	• •	1		
	16198	63	125	• •	1		
	16212	40	160	• •	1		
	16216	63	160	• •	1		
	16231	40	200	• •	1		
	16233	63	200	• •	1		
	16251	40	250	• •	1		
	16253	63	250	• •	1		
	16260	63	315-355	• •	1		
	16300	63	400-630	• •	1		

The required tools for the fusion of aquatherm green pipe weld-on saddles are listed from page 107 onwards.

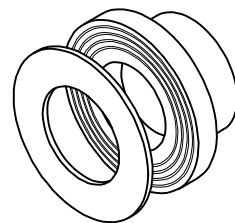
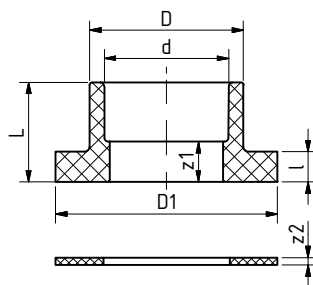
FLANGE ADAPTER SOCKET WELDING*with gasket*

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	Dimension d [mm]	L [mm]	I [mm]	D [mm]	D1 [mm]	z1 [mm]	z2 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>													
6 7.4 9 11	15512	32	34,0	10,0	41,0	68,0	16,0	3	0,053	• •	1		
	15514	40	35,5	11,0	50,0	78,0	15,0	3	0,071	• •	1		
	15516	50	39,5	12,0	61,0	88,0	16,0	3	0,071	• •	1		
	15518	63	43,5	14,0	76,0	102,0	16,0	3	0,112	• •	1		
	15520	75	46,0	16,0	90,0	122,0	16,0	3	0,169	• •	1		
	15522	90	50,0	17,0	108,0	138,0	17,0	3	0,261	• •	1		
	15524	110	55,5	18,5	131,0	158,0	18,5	3	0,329	• •	1		
	15527	125	63,0	20,0	165,0	188,0	23,0	3	0,724	• •	1		

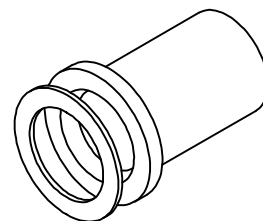
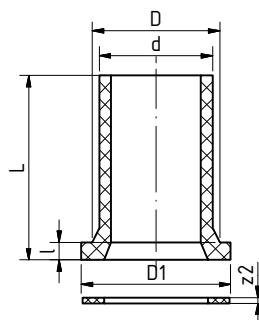
FLANGE ADAPTER SOCKET WELDING*with gasket*

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	Dimension d [mm]	L [mm]	I [mm]	D [mm]	D1 [mm]	z2 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11	15526	125	195,0	18,5	131,0	158,0	3	1,180	• •	1		

*Only use with fitting 125 mm; with 110 mm flange adapter suitable for Art. no. 15724

Suitable flange adapter for shut-off valves are available on request.

FLANGE ADAPTER BUTT WELDING

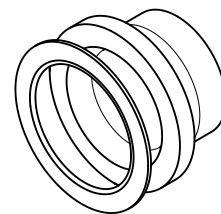
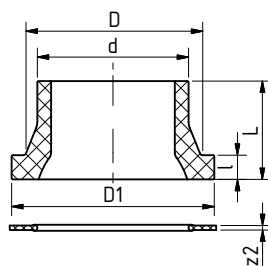
with gasket

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-RCT

Standard: DIN 16962, DIN EN ISO 15874

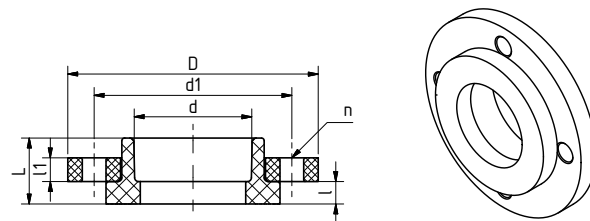
Colour: green



SDR	Art. no.	Dimension d [mm]	L [mm]	I [mm]	D [mm]	D1 [mm]	z2 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>butt welding</i>												
9	15530	160	93,0	25,0	175,0	212,0	3,00	1,163	•	1		
	15534	200	130,0	32,0	232,0	268,0	6,00	2,292	•	1		
	15538	250	130,0	35,0	285,0	320,0	6,00	3,298	•	1		
	315530*	160	93,0	25,0	175,0	212,0	3	1,150	•	1		
	315534	200	130,0	32,0	232,0	268,0	6	2,292	•	1		
	315538	250	130,0	35,0	285,0	320,0	6	3,313	•	1		
	315542	315	172,5	52,0	337,0	370,0	6	5,640	•	1		
11	15531	160	93,0	25,0	175,0	212,0	3	0,955	• •	1		
	15535	200	130,0	32,0	232,0	268,0	6	1,957	• •	1		
	15539	250	130,0	35,0	285,0	320,0	6	2,717	• •	1		
	15543	315	168,0	35,0	335,0	370,0	6	6,000	• •	1		
	15545	355	180,0	40,0	373,0	430,0	6	7,930	• •	1		
	15547	400	195,0	46,0	427,0	482,0	6	12,000	• •	1		
	15549	450	139,0	60,0	514,0	585,0	7	14,540	• •	1		
17.6	2515530	160	80,0	18,0	175,0	212,0	3	0,821	•	1		
	2515534	200	130,0	32,0	232,0	268,0	6	1,849	•	1		
	2515538	250	130,0	35,0	285,0	320,0	6	2,736	•	1		
	2515542	315	168,0	25,0	335,0	370,0	6	4,500	•	1		
	2515544	355	184,0	30,0	373,0	430,0	6	7,000	•	1		
	2515546	400	195,0	33,0	427,0	482,0	6	7,360	•	1		
	2515548	450	142,0	46,0	514,0	585,0	7	10,400	•	1		
	2515550	500	138,0	46,0	530,0	585,0	7	8,700	•	1		
	2515554	630	140,0	50,0	642,0	685,0	7	12,530	•	1		

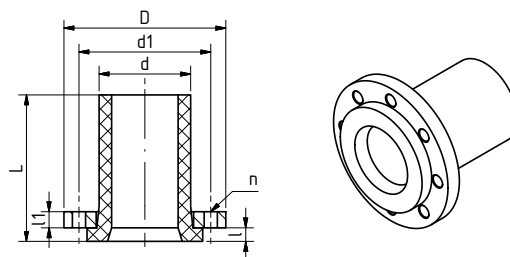
Up to 160 mm EPDM-gasket without steel ring insert. From 200 mm EPDM-gasket with steel ring insert.

Suitable flange adapter for shutt-off valves available on request.

FLANGE ADAPTER INCL. FLANGE PN6*without gasket***Systems:** aquatherm green pipe, aquatherm blue pipe**Material:** Flange: Steel galvanized
Flange adapter: fusiolen® PP-R**Colour:** Flange: black
Flange adapter: greend = Connection dimension, d1 = hole-circle,
PN 6 = Flange according to DIN 2641

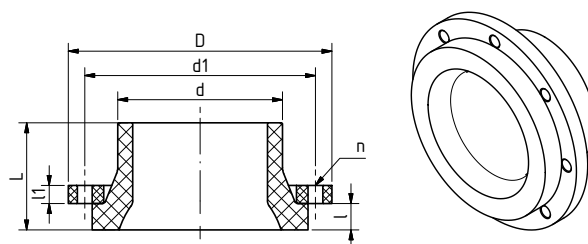
SDR	Art. no.	Diameter d [mm]	D [mm]	d1 [mm]	L [mm]	l1 [mm]	l [mm]	n	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>													
6 7.4 9 11 17.6	15012	32	100,0	75,0	34,0	10,0	10,0	4	1,090	• •	1		
	15014	40	120,0	90,0	35,5	10,0	11,0	4	1,170	• •	1		
	15016	50	130,0	100,0	39,5	10,0	12,0	4	1,360	• •	1		
	15018	63	140,0	110,0	43,5	10,0	14,0	4	0,886	• •	1		
	15020	75	160,0	130,0	46,0	10,0	16,0	4	1,148	• •	1		
	15022	90	190,0	150,0	50,0	10,0	17,0	4	1,618	• •	1		
	15024	110	210,0	170,0	55,5	10,0	18,5	4	1,824	• •	1		
	15027	125	240,0	200,0	63,0	12,0	20,0	8	3,945	• •	1		

Delivery time: on request

FLANGE ADAPTER INCL. FLANGE PN6*without gasket***Systems:** aquatherm green pipe, aquatherm blue pipe**Material:** Flange: Steel galvanized
Flange adapter: fusiolen® PP-R**Colour:** Flange: black
Flange adapter: greend = Connection dimension, d1 = hole-circle,
PN 6 = Flange according to DIN 2641

SDR	Art. no.	Diameter d [mm]	D [mm]	d1 [mm]	L [mm]	l1 [mm]	l [mm]	n	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11 17.6	15026	125	210,0	170,0	195,0	10,0	18,5	4	2,715	• •	1		

Delivery time: on request

125mm Fitting with 110mm Flange adapter incl. flange PN6
Use only in combination with a fitting**FLANGE ADAPTER INCL. FLANGE PN6***without gasket***Systems:** aquatherm green pipe, aquatherm blue pipe**Material:** Flange: Steel galvanized
Flange adapter: fusiolen® PP-RCT**Colour:** Flange: black
Flange adapter: greend = Connection dimension, d1 = hole-circle,
PN 6 = Flange according to DIN 2641

SDR	Art. no.	Diameter d [mm]	D [mm]	d1 [mm]	L [mm]	l1 [mm]	l [mm]	n	Weight [kg]	System	PU	Box unit	Price € pc
<i>Butt welding</i>													
11	15031	160	265,0	225,0	93,0	12,0	25,0	8	4,136	• •	1		
	15035	200	320,0	280,0	130,0	12,0	32,0	8	6,694	• •	1		
	15039	250	375,0	335,0	130,0	12,0	35,0	8	9,500	• •	1		

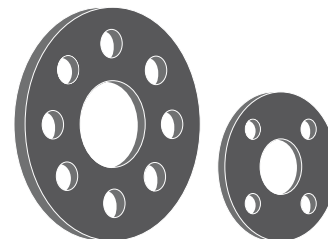
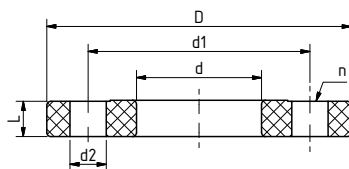
Delivery time: on request

PLASTIC COATED STEEL FLANGE

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: PP/steel

Colour: grey



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

SDR	Art. no.	fits to Art. no.	Dimension flange adapter [mm]	DN	d [mm]	d1 [mm]	D [mm]	d2 [mm]	L [mm]	n	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>															
6 7.4 9 11 17.6	15712	15512	32	25	42,0	85,0	116,0	14,0	15,5	4	0,469	•	•	1	
	15714	15514	40	32	51,0	100,0	141,0	18,0	17,5	4	0,722	•	•	1	
	15716	15516	50	40	62,0	110,0	151,0	18,0	17,5	4	0,770	•	•	1	
	15718	15518	63	50	78,0	125,0	166,0	18,0	19,0	4	0,911	•	•	1	
	15720	15520	75	65	92,0	145,0	186,0	18,0	19,0	4	1,132	•	•	1	
	15722	15522	90	80	110,0	160,0	201,0	18,0	21,0	8	1,356	•	•	1	
	15724	15524/26	110	100	133,0	180,0	221,0	18,0	22,0	8	1,475	•	•	1	
	15726	15527	125	125	167,0	210,0	251,0	18,0	26,0	8	2,082	•	•	1	
	15730	15531 315530 2515530	160	150	178,0	240,0	286,0	22,0	27,0	8	3,671	•	•	1	
	15734*	15535 315534 2515534	200	200	235,0	295,0	341,0	22,0	28,0	8	4,709	•	•	1	
	15738*	15539 315538 2515538	250	250	288,0	350,0	406,0	22,0	31,0	12	7,094	•	•	1	
	15742*	15543 315542 2515542	315	300	340,0	400,0	460,0	22,0	33,5	12	9,500	•	•	1	
	15744*	15545 2515544	355	350	376,0	460,0	520,0	22,0	39,0	16	15,300	•	•	1	
	15746*	15547 2515546	400	400	430,0	515,0	565,0	26,0	34,0	16	19,680	•	•	1	
	15748**	15549 2515548	450	500	517,0	620,0	670,0	26,0	42,0	20	22,880	•	•	1	
	15750**	2515550	500	500	533,0	620,0	670,0	26,0	38,0	20	19,000	•	•	1	
	15754**	2515554	630	600	645,0	725,0	785,0	30,0	40,0	20	25,800	•	•	1	

*Flange PN16 ø 200 – 630 mm (Art. no. 15934 – 15954) available on request.

**Material: steel/epoxyd

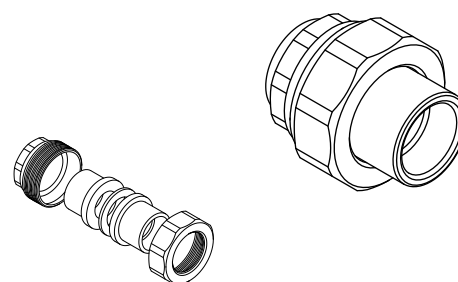
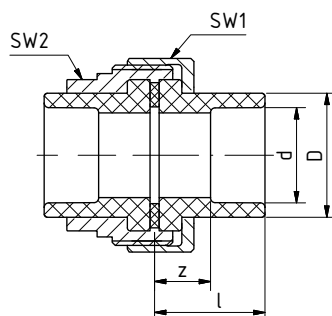
COUPLING SCREW JOINT

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass

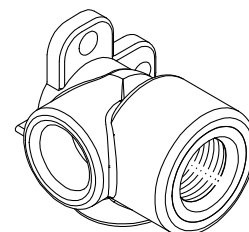
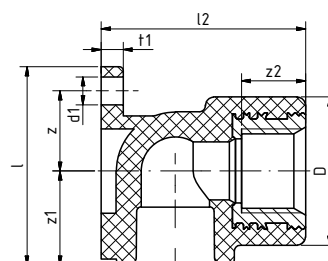
Standard: DIN 16962, DIN EN ISO 15874

Colour: green, brassy



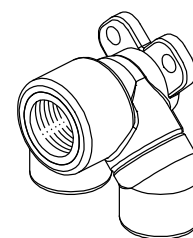
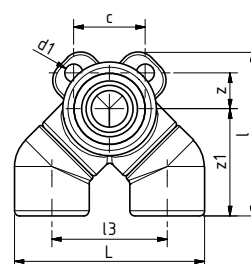
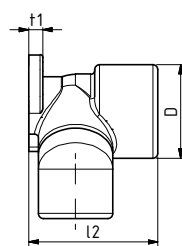
SDR	Art. no.	Dimension d [mm]	l [mm]	z [mm]	D [mm]	SW1 [mm]	SW2 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>												
6 7.4 9 11	15812	32	36,5	18,5	41,0	64	50	0,479	•	•	1	
	15814	40	38,0	17,5	50,0	80	60	0,841	•	•	1	
	15816	50	41,0	17,5	61,0	86	70	0,821	•	•	1	
	15818	63	45,0	17,5	76,0	108	90	1,498	•	•	1	
	15820	75	31,0	17,5	90,0	128	104	1,998	•	•	1	

PRINCIPLE OF FLOW-THROUGH BACK PLATE ELBOW



aquatherm green pipe FLOW-THROUGH BACK PLATE ELBOW 90°

Art. no.	Dimension	D [mm]	d1 [mm]	l [mm]	l2 [mm]	t1 [mm]	z [mm]	z1 [mm]	z2 [mm]	PU	Box unit	Price € pc
20197	20mm x 1/2" f x 20 mm	37,0	7,0	49,5	51,0	5,5	20,0	23,5	16,0	1		

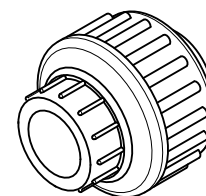
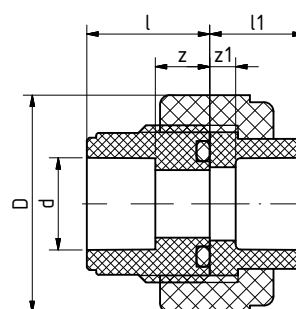


aquatherm green pipe FLOW-THROUGH BACK PLATE ELBOW, PARALLEL

Art. no.	Dimension	D [mm]	d1 [mm]	L [mm]	l [mm]	l2 [mm]	l3 [mm]	c [mm]	t1 [mm]	z [mm]	z1 [mm]	PU	Box unit	Price € pc
20198	20mm x 1/2" f x 20 mm	37,0	7,0	75,0	65,0	51,0	45,6	28,3	5,5	14,0	42,3	1		

COUPLING SCREW JOINT

Systems: aquatherm green pipe,
 aquatherm blue pipe
Material: fusiofen® PP-R
Standard: DIN 16962, DIN EN ISO 15874
Colour: green



SDR	Art. no.	Dimension d [mm]	l [mm]	z [mm]	l1 [mm]	z1 [mm]	D [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>												
6 7.4 9 11	15838	20	26,0	12,0	20,0	5,5	46,0	0,036	• •	10		
	15840	25	28,0	12,0	21,0	5,0	56,0	0,058	• •	10		
	15842	32	30,0	12,0	23,0	5,0	66,0	0,089	• •	5		
	15844	40	34,0	13,5	25,5	5,0	79,0	0,136	• •	5		
	15846	50	39,0	15,5	28,8	5,0	87,0	0,170	• •	5		
	15848	63	47,5	20,0	32,5	5,0	107,0	0,240	• •	1		
	15850	75	50,0	20,0	36,0	6,0	128,0	0,546	• •	1		

ELECTROFUSION SOCKET

Systems:

aquatherm green pipe,
aquatherm blue pipe

Material:

fusiolen® PP-R

Standard:

DIN 16962, DIN EN ISO 15874

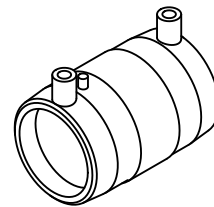
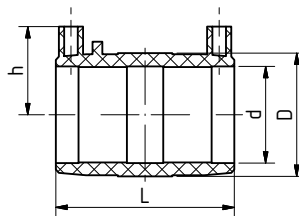
Colour:

green

Notice:

do not use with 160 – 250 mm fittings

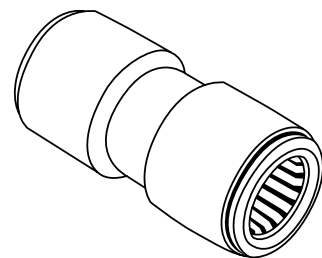
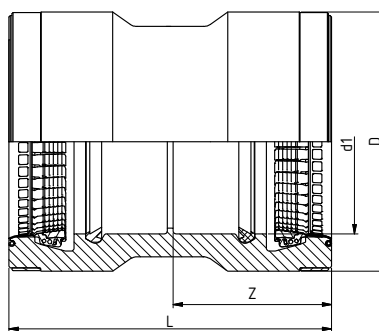
*do not use with aquatherm blue pipe MF OT



SDR	Art. no.	Dimension d [mm]	L [mm]	h [mm]	D [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>Electro-socket welding</i>										
6 7.4 9 11 17.6	17208	20	70,0	36,0	31,5	0,049	• •	1		
	17210	25	78,0	38,5	36,5	0,057	• •	1		
	17212	32	80,0	42,5	45,0	0,077	• •	1		
	17214	40	92,0	47,0	54,0	0,103	• •	1		
	17216	50	103,0	52,0	65,0	0,142	• •	1		
	17218	63	118,0	58,0	81,5	0,239	• •	1		
	17220	75	130,0	64,5	96,0	0,347	• •	1		
	17222	90	145,0	72,0	113,5	0,501	• •	1		
	17224	110	160,0	82,5	139,0	0,821	• •	1		
	17226	125	172,0	90,0	156,0	1,097	• •	1		
	17230*	160	186,0	109,5	197,0	1,754	• •	1		
	17234*	200	210,0	134,0	243,0	3,625	• •	1		
	17238*	250	250,0	170,0	315,0	7,142	• •	1		

aquatherm PUSH-FIT COUPLING

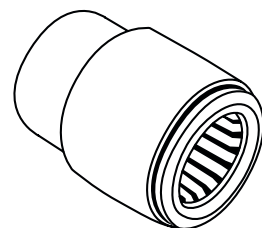
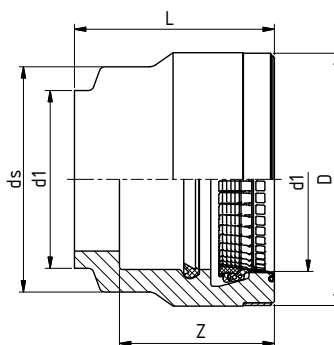
Systems: aquatherm blue pipe
Material: fusiolen® PP-RCT/EPDM
Pipe series: SDR 11/17.6
Standard: DIN EN ISO 15874
Colour: green
Notice: do not use for aquatherm blue pipe MF RP OT



SDR	Art. no.	d1 [mm]	L [mm]	D [mm]	z [mm]	Weight [kg]	System	PU	Box unit	Price € pc
11 17.6	17322	90	285,0	152,0	140,0	2,300	•	1		
	17324	110	345,0	175,0	170,0	3,700	•	1		
	17326	125	350,0	190,0	172,0	4,300	•	1		
	17330	160	372,0	234,0	183,0	6,600	•	1		
	17334	200	470,0	285,0	231,0	11,000	•	1		
	17338	250	496,0	375,0	243,0	20,420	•	1		
	17342	315	560,0	450,0	275,0	40,200	•	1		
	17344	355	576,0	492,0	283,0	45,700	•	1		
	17346	400	610,0	540,0	300,0	54,800	•	1		
	17348	450	646,0	600,0	318,0	69,600	•	1		

aquatherm PUSH-FIT ADAPTER

Systems: aquatherm blue pipe
Material: fusiolen® PP-RCT/EPDM
Pipe series: SDR 11/17.6
Standard: DIN EN ISO 15874
Colour: green
Notice: do not use for aquatherm blue pipe MF RP OT

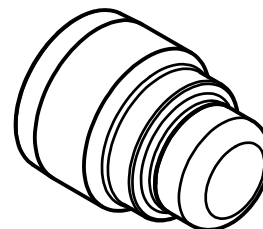
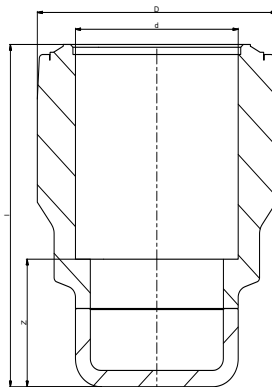


SDR	Art. no.	d1 [mm]	L [mm]	D [mm]	ds [mm]	z [mm]	Weight [kg]	System	PU	Box unit	Price € pc
11	17422	90	170,0	152,0	112,0	140,0	1,200	•	1		
	17424	110	205,0	175,0	140,0	170,0	2,000	•	1		
	17426	125	210,0	190,0	161,0	172,0	2,300	•	1		
	17430	160	227,0	234,0	202,0	183,0	3,800	•	1		
	17434	200	285,0	285,0	250,0	231,0	6,500	•	1		
	17438	250	315,0	375,0	317,0	243,0	15,000	•	1		
	17442	315	355,0	450,0	400,0	275,0	24,000	•	1		
	17444	355	370,0	492,0	450,0	283,0	28,000	•	1		
	17446	400	390,0	540,0	500,0	300,0	34,000	•	1		
	17448	450	415,0	600,0	560,0	318,0	44,000	•	1		
17.6	17526	125	210,0	190,0	161,0	172,0	2,300	•	1		
	17530	160	227,0	234,0	202,0	183,0	3,800	•	1		
	17534	200	285,0	285,0	250,0	231,0	6,500	•	1		
	17538	250	315,0	355,0	295,0	243,0	11,500	•	1		
	17542	315	345,0	425,0	370,0	275,0	16,300	•	1		
	17544	355	360,0	470,0	415,0	283,0	20,000	•	1		
	17546	400	390,0	510,0	465,0	300,0	23,800	•	1		
	17548	450	400,0	565,0	520,0	318,0	27,800	•	1		

Fittings and connecting parts e.g. elbows (45°/90°), T-pieces, red-T-pieces, etc. on request

NEW aquatherm END CAP WITH PUSH-FIT ADAPTER

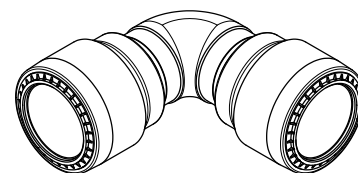
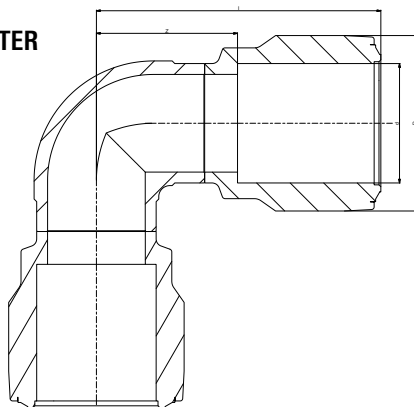
Systems: aquatherm blue pipe
Material: fusiolen® PP-RCT/EPDM
Pipe series: SDR 11/17,6
Standard: DIN EN ISO 15874
Colour: green
Notice: Do not use for aquatherm blue pipe MF RP OT



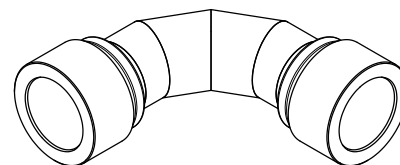
SDR	Art. no.	d [mm]	l [mm]	D [mm]	z [mm]	Weight [kg]	System	PU	Box unit	Price € pc
11	14222	90	236,5	152	87,5	1,647	•	1		
	14224	110	269	175	90	2,771	•	1		
	14226	125	291	190	110	3,368	•	1		
	14231	160	306	235	114	4,431	•	1		
	14235	200	374	285	134	7,570	•	1		
	14239	250	405	375	162	16,989	•	1		
	14243	315	425	450	150	28,200	•	1		
	14245	355	450	492	167	34,410	•	1		
	14247	400	460	540	160	41,190	•	1		
	14249	450	495	600	177	54,500	•	1		
17,6	2514230	160	306	235	114	4,479	•	1		
	2514234	200	374	285	134	7,425	•	1		
	2514238	250	405	355	162	12,805	•	1		
	2514242	315	415	425	140	20,800	•	1		
	2514244	355	430	470	147	25,540	•	1		
	2514246	400	465	510	165	29,800	•	1		
	2514248	450	470	565	152	36,320	•	1		

NEW aquatherm ELBOW 90° WITH PUSH-FIT ADAPTER

Systems: aquatherm blue pipe
Material: fusiolen® PP-RCT/EPDM
Pipe series: SDR 11/17,6
Standard: DIN EN ISO 15874
Colour: green
Notice: Do not use for aquatherm blue pipe MF RP OT



Injection molded fitting

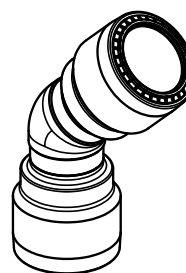
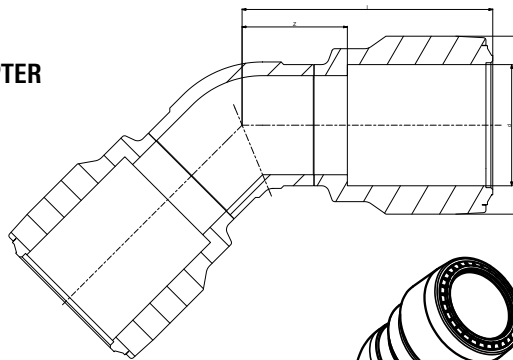


Fitting made of pipe segments

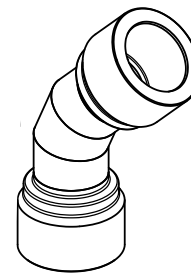
SDR	Art. no.	d [mm]	l [mm]	D [mm]	z [mm]	Weight [kg]	System	Pipe segments	Injection molded (green)	PU	Box unit	Price € pc
11	12222	90	248	152	99	3,290	•		•	1		
	12224	110	297	175	118	4,907	•		•	1		
	12226	125	324,5	190	143,5	6,996	•		•	1		
	12231	160	381	235	189	9,556	•		•	1		
	12235	200	503	285	263	17,575	•		•	1		
	12239	250	555	375	312	37,180	•		•	1		
	12243	315	875	450	600	85,850	•	•		1		
	12245	355	940	492	658	105,000	•	•		1		
	12247	400	1020	540	720	130,800	•	•		1		
	12249	450	1104	600	786	177,500	•	•		1		
17,6	2512230	160	381	235	189	9,111	•		•	1		
	2512234	200	503	285	263	16,640	•		•	1		
	2512238	250	555	355	312	29,011	•		•	1		
	2512242	315	875	425	600	56,600	•	•		1		
	2512244	355	940	470	658	72,000	•	•		1		
	2512246	400	1020	510	720	90,150	•	•		1		
	2512248	450	1104	565	786	117,800	•	•		1		

NEW aquatherm ELBOW 45°WITH PUSH-FIT ADAPTER

Systems: aquatherm blue pipe
Material: fusiolen® PP-RCT/EPDM
Pipe series: SDR 11/17,6
Standard: DIN EN ISO 15874
Colour: green
Notice: Do not use for aquatherm blue pipe MF RP OT



Injection molded fitting

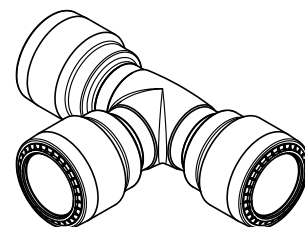
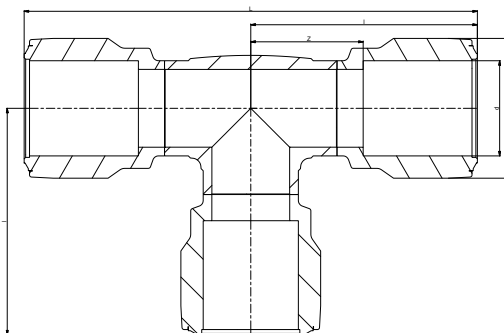


Fitting made of pipe segments

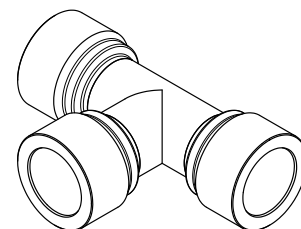
SDR	Art. no.	d [mm]	l [mm]	D [mm]	z [mm]	Weight [kg]	System	Pipe segments	Injection molded (green)	PU	Box unit	Price € pc
11	12622	90	221,5	152	72,5	5,419	•		•	1		
	12624	110	264,5	175	85,5	7,482	•		•	1		
	12626	125	276	190	95	6,321	•		•	1		
	12631	160	331	235	139	8,971	•		•	1		
	12635	200	440	285	200	16,310	•		•	1		
	12639	250	497	375	254	36,218	•		•	1		
	12643	315	607	450	332	75,300	•	•		1		
	12645	355	638	492	355	82,650	•	•		1		
	12647	400	675	540	375	112,900	•	•		1		
	12649	450	719	600	401	148,500	•	•		1		
17,6	2512630	160	331	235	139	8,680	•		•	1		
	2512634	200	440	285	200	14,990	•		•	1		
	2512638	250	497	355	254	26,875	•		•	1		
	2512642	315	597	425	322	50,600	•	•		1		
	2512644	355	628	470	345	62,058	•	•		1		
	2512646	400	675	510	285	78,400	•	•		1		
	2512648	450	704	565	386	94,723	•	•		1		

NEW aquatherm T-PIECE WITH PUSH-FIT ADAPTER

Systems: aquatherm blue pipe
Material: fusiolen® PP-RCT/EPDM
Pipe series: SDR 11/17,6
Standard: DIN EN ISO 15874
Colour: green
Notice: Do not use for aquatherm blue pipe MF RP OT



Injection molded fitting



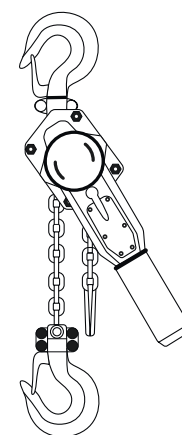
Fitting made of ppipe segments

SDR	Art. no.	d [mm]	L [mm]	l [mm]	D [mm]	z [mm]	Weight [kg]	System	Pipe segments	Injection molded (green)	PU	Box unit	Price € pc
11	13222	90	496	248	152	99	4,765	•		•	1		
	13224	110	651	325,5	175	118	8,006	•		•	1		
	13226	125	651	325,5	190	144,5	10,162	•		•	1		
	13231	160	762	381	235	189	14,340	•		•	1		
	13235	200	998	499	285	259	25,599	•		•	1		
	13239	250	1116	558	375	315	55,710	•		•	1		
	13243	315	1290	645	450	370	92,450	•	•		1		
	13245	355	1370	685	492	402	129,072	•	•		1		
	13247	400	1450	725	540	425	165,100	•	•		1		
	13249	450	1550	775	600	457	215,300	•	•		1		
17,6	2513230	160	762	381	235	189	13,747	•		•	1		
	2513234	200	998	499	285	259	24,000	•		•	1		
	2513238	315	1116	558	355	315	43,368	•	•		1		
	2513242	315	1270	635	425	360	68,700	•	•		1		
	2513244	355	1350	675	470	392	87,500	•	•		1		
	2513246	400	1450	725	510	425	111,795	•	•		1		
	2513248	450	1520	760	565	442	128,800	•	•		1		

NEW CHAIN HOIST

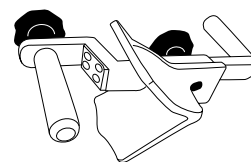
Tools for assembling push-in couplings

Art. no.	Dimension [mm]	Weight [kg]	PU	Box unit	Price € pc
50530		2,800	1	3	



NEW CHAMFERING TOOL WIDOS

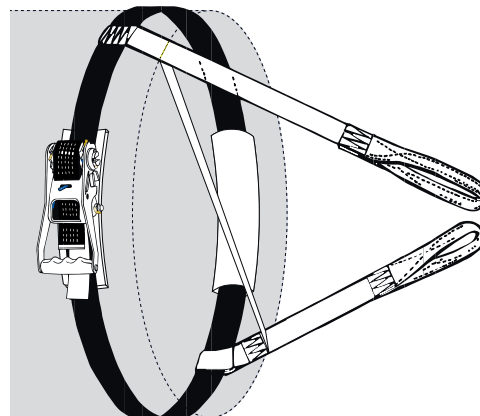
For breaking the edges of the blue pipe for processing the push-fit adapter and push-fit coupling.



Art. no.	Dimension [mm]	Weight [kg]	PU	Box unit	Price € pc
50532	250-500mm	0,750	1	3	

NEW TENSION BAND

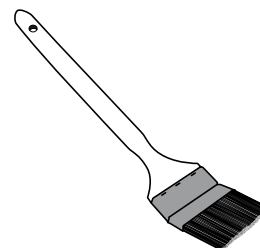
width 50 mm including drawbar eyes. For fixing the pipe when assembling push-in couplings.



Art. no.	Dimension [mm]	Weight [kg]	PU	Box unit	Price € pc
50533	50mm	2,500	1	3	

NEW BRUSH

For applying lubricant when assembling push-in coupling systems



Art. no.	Dimension [mm]	Weight [kg]	PU	Box unit	Price € pc
50534		0,045	1	3	

NEW LUBRICANT

For use when assembling push-in coupling systems



Art. no.	Dimension	Weight [kg]	PU	Box unit	Price € pc
50535	250ml	0,280	1	3	

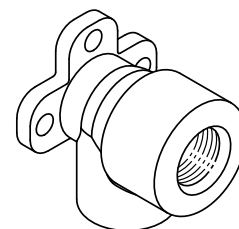
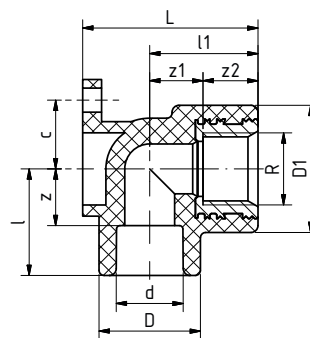
BACK PLATE ELBOW

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass
fusiolen® PP-R, stainless steel

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	R	l [mm]	z [mm]	D [mm]	l1 [mm]	z1 [mm]	z2 [mm]	D1 [mm]	L [mm]	c [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>																	
brass																	
6 7.4 11	20106	16	1/2"	31,0	18,0	29,5	31,5	18,5	13,0	37,0	51,0	20,0	0,080	•		200	
	20108	20	1/2"	31,0	16,5	29,5	31,5	18,5	13,0	37,0	51,0	20,0	0,079	•	•	200	
	20110	20	3/4"	37,0	22,5	34,0	37,0	24,0	13,0	44,0	54,0	-	0,106	•	•		
	20112	25	3/4"	37,0	21,0	34,0	37,0	24,0	13,0	44,0	54,0	-	0,105	•	•		
	20113	25	1/2"	33,5	17,5	34,0	31,0	18,0	13,0	37,0	53,0	20,0	0,080	•	•		
	stainless steel																
	920108	20	1/2"	31,0	16,5	29,5	31,5	18,5	13,0	37,0	51,0	20,0	0,084	•			
	920110	20	3/4"	37,0	22,5	34,0	37,0	24,0	13,0	44,0	54,0	-	0,101	•	•		
	920112	25	3/4"	37,0	21,0	34,0	37,0	24,0	13,0	44,0	54,0	-	0,111	•	•		
	920113	25	1/2"	33,5	17,5	34,0	31,0	18,0	13,0	37,0	53,0	20,0	0,076	•	•		

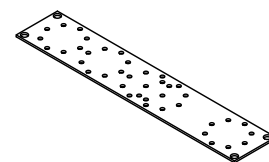
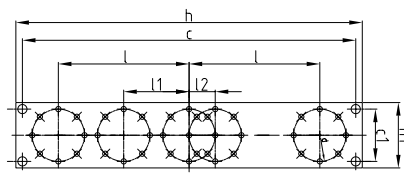
MOUNTING PLATE

galvanized; to fix back plate elbows as double connection

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: iron, galvanized

Colour: zinc



Art. no.	d [mm]	l [mm]	l1 [mm]	l2 [mm]	c [mm]	c1 [mm]	h [mm]	h1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
60010	40	100	50	20	255	40	265	50	0,221	•	•	1	

not suitable for connection with sound insulation plate (Art. no. 79080).
We recommend mounting rail Art. no. 79090.

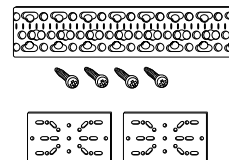
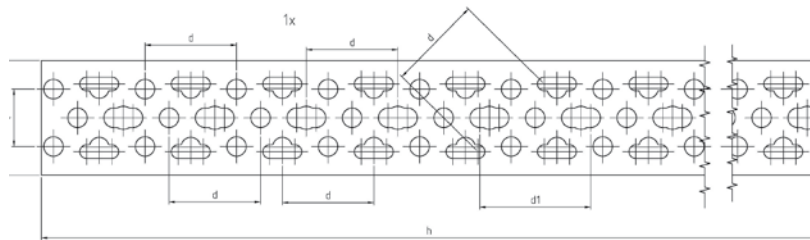
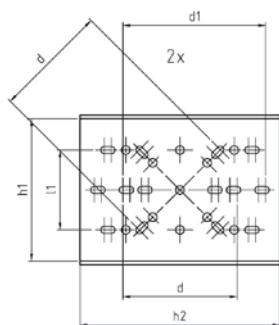
MOUNTING PLATE

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

Systems: aquatherm green pipe, aquatherm blue pipe

Material: iron, galvanized

Colour: zinc



Art. no.	d [mm]	d1 [mm]	l [mm]	l1 [mm]	h [mm]	h1 [mm]	h2 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
79090	40	50	25	28	560	70	70	0,546	• •	1		

SOUND INSULATION PLATE

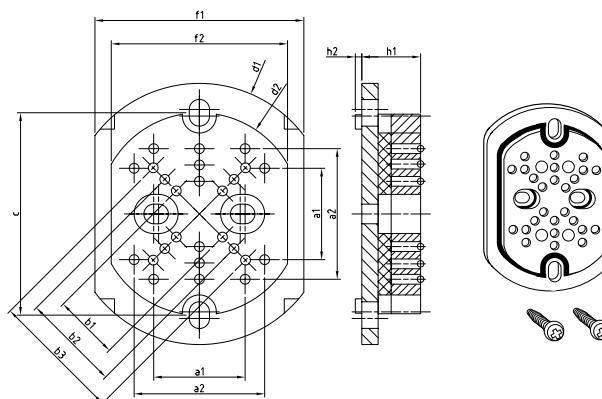
for aquatherm green pipe and aquatherm grey pipe back plate elbow

Systems: aquatherm green pipe,

aquatherm grey pipe

Material: PP

Colour: white



Art. no.	a1 [mm]	a2 [mm]	b1 [mm]	b2 [mm]	b3 [mm]	c [mm]	d1 [mm]	d2 [mm]	f1 [mm]	f2 [mm]	h1 [mm]	h2 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
79080	28	20	30	40	62	62	80	62	64	54	18	2	0,058	• •	2		

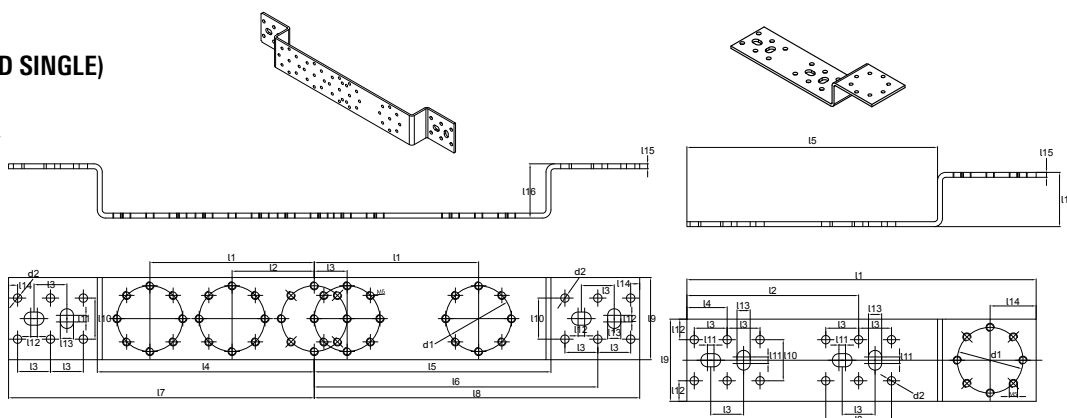
MOUNTING RAIL (DOUBLE AND SINGLE)

Systems: aquatherm green pipe,

aquatherm blue pipe

Material: iron, galvanized

Colour: zinc

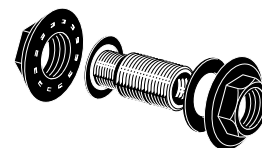
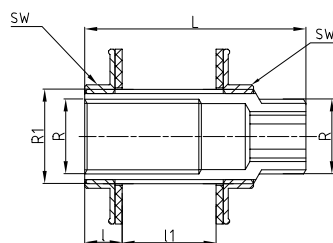


Art. no.	ø d1 [mm]	ø d2 [mm]	Weight [kg]	System	PU	Price € pc
79095	40	5,1	0,412	• •	2	
79096	40	5,1	0,235	• •	2	

DRY CONSTRUCTION WALL FITTING

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: brass



Art. no.	R	R1	l [mm]	l1 [mm]	L [mm]	SW [mm]	Weight [kg]	System	PU	Box unit	Price € pc
20114	1/2"	3/4"	10,5	26,0	62,0	30	0,213	• •	10		

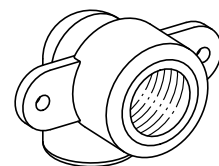
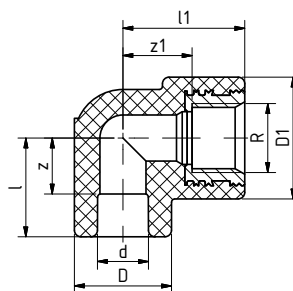
BACK PLATE ELBOW FOR DRY CONSTRUCTION

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass
fusiolen® PP-R, stainless steel

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	R	l [mm]	z [mm]	D [mm]	l1 [mm]	z1 [mm]	D1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>														
brass														
6	20156	16	1/2"	30,0	17,0	29,5	37,0	24,0	37,0	0,081	•	10		
7.4	20158	20	1/2"	30,0	15,5	29,5	37,0	24,0	37,0	0,079	• •	10		
11	stainless steel													
	920158	20	1/2"	30,0	15,5	29,5	37,0	24,0	37,0	0,078	• •	10		

TRANSITION PIECE

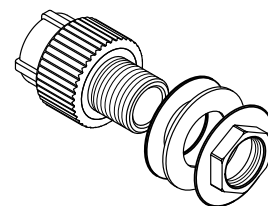
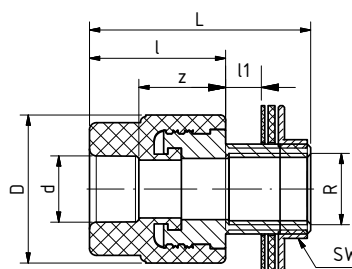
with counternut, gasket and tension washer

Systems: aquatherm green pipe aquatherm blue pipe

Material: fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	R	l [mm]	z [mm]	D [mm]	l1 [mm]	L [mm]	SW [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>														
6	20204	20	1/2"	40,0	25,5	43,5	13,5	65,0	29	0,204	• •	10		
7.4														
11														

e.g. for connection of a cistern or application with mounting plate (Art. no. 60110 – 60115)

TRANSITION ELBOW

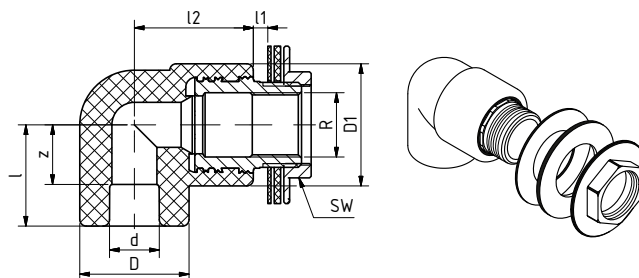
with counternut, gasket and tension washer

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	R	l [mm]	z [mm]	D [mm]	l1 [mm]	l2 [mm]	D1 [mm]	SW [mm]	Weight [kg]	System	PU	Box unit	Price € pc
socket welding															
6	20206	16	1/2"	37,0	24,0	29,5	3,5	35,0	44,0	29	0,201	•	10		
7.4	20208	20	1/2"	37,0	22,5	29,5	3,5	35,0	44,0	29	0,154	•	•	10	
11	20209	25	1/2"	37,0	21,0	34,0	3,5	37,0	44,0	29	0,206	•	•	10	

e.g. for connection of a cistern or application with mounting plate (Art. no. 60110 – 60115)

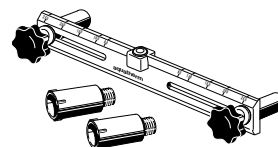
ASSEMBLING JIG

as water level with 2 plugs 1/2"

Systems: aquatherm green pipe aquatherm blue pipe

Material: fusiolen® PP-R

Colour: green



Art. no.	Weight [kg]	System	PU	Box unit	Price € pc
50700	0,252	•	•	1	

PLUG FOR PRESSURE TESTS

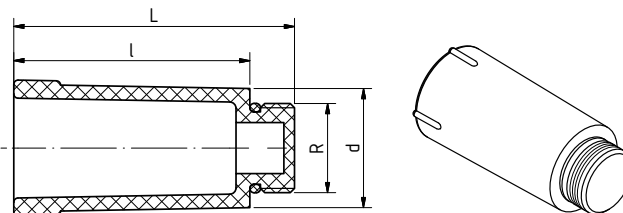
with gasket

Systems: aquatherm green pipe aquatherm blue pipe

Material: fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



Art. no.	d [mm]	R	l [mm]	L [mm]	Weight [kg]	System	PU	Box unit	Price € pc
50708	28	1/2"	55,5	66,0	0,022	•	•	10	
50710	34	3/4"	55,5	66,0	0,027	•	•	10	

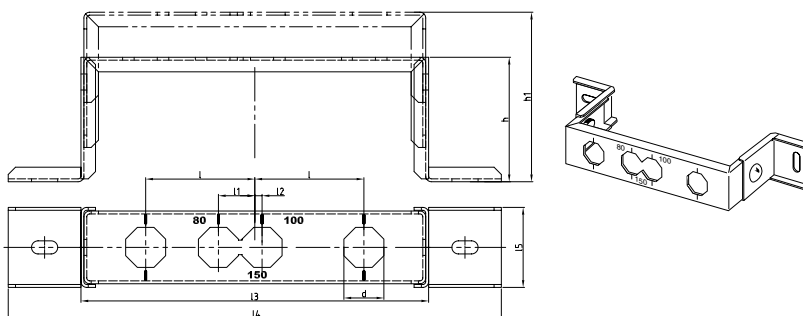
MOUNTING UNIT

double

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: iron/galvanized

Colour: zinc



Art. no.	b [mm]	l [mm]	l1 [mm]	l2 [mm]	h [mm]	h1 [mm]	l3 [mm]	l4 [mm]	l5 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
60110	27,5	75	25	5	92,5	122,5	239	339	55	0,630	•	•	1	

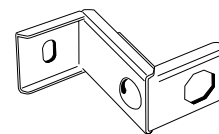
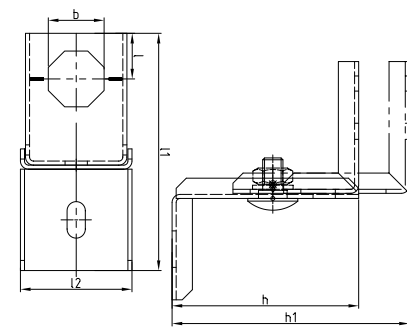
MOUNTING UNIT

single

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: iron/galvanized

Colour: zinc



Art. no.	b [mm]	l [mm]	l1 [mm]	l2 [mm]	h [mm]	h1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
60115	27,5	118	22,5	55	92,5	122,5	0,278	• •	1		

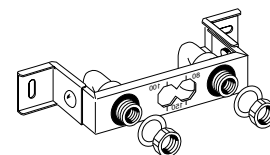
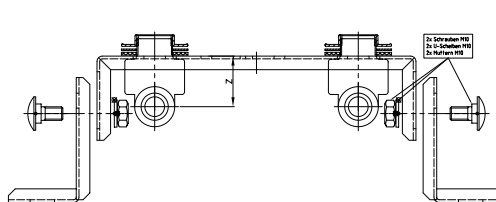
MOUNTING UNIT

with two aquatherm green pipe transition elbows (Art. no. 20208), with counternut, gasket and tension washer

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass
iron/galvanized

Colour: green
zinc



Art. no.	b [mm]	l [mm]	l1 [mm]	l2 [mm]	h [mm]	h1 [mm]	l3 [mm]	l4 [mm]	l5 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
60150	27,5	75	25	5	92,5	122,5	239	339	55	0,942	• •	1		

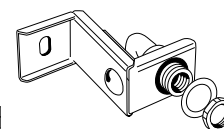
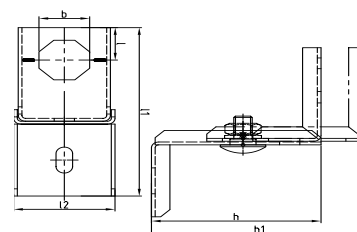
MOUNTING UNIT

with one aquatherm green pipe transition elbow (Art. no. 20208), with counternut, gasket and tension washer

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass
iron/galvanized

Colour: green
zinc



Art. no.	b [mm]	l [mm]	l1 [mm]	l2 [mm]	h [mm]	h1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
60155	27,5	22,5	118	55	92,5	122,5	0,434	• •	1		

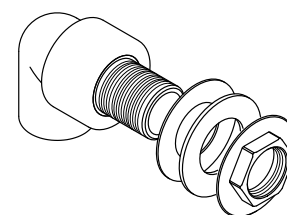
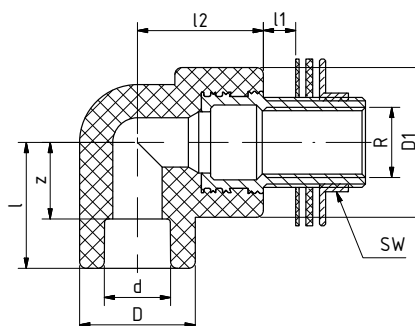
TRANSITION ELBOW

for plasterboard

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass

Colour: green



SDR	Art. no.	d [mm]	R	l [mm]	z [mm]	D [mm]	L [mm]	l1 [mm]	D1 [mm]	SW [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 11	20210	20	1/2"	37,0	22,5	29,5	18,5	35,0	44,0	29	0,223	• •	10		

with 30 mm thread, counternut, gasket and tension washer

TRANSITION PIECE WITH FEMALE THREAD

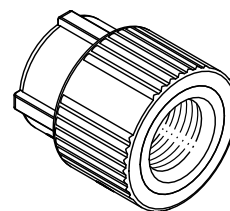
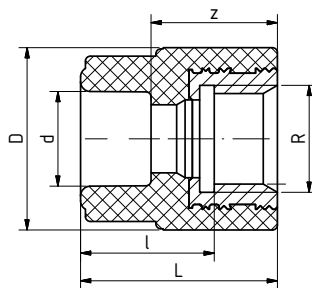
round

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass
fusiolen® PP-R, stainless steel

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	R	l [mm]	z [mm]	D [mm]	L [mm]	Weight [kg]	System	PU	Box unit	Price € pc
brass												
6 7.4 9 11	21006	16	1/2"	28,0	28,0	38,5	41,0	0,066	•	10		
	21008	20	1/2"	27,5	26,0	37,5	40,5	0,064	• •	10	400	
	21010	20	3/4"	27,5	26,0	43,5	40,5	0,089	• •	10	300	
	21011	25	1/2"	29,5	26,5	38,5	42,5	0,065	• •	10	400	
	21012	25	3/4"	27,5	24,5	43,5	40,5	0,087	• •	10	300	
	21013	32	3/4"	30,5	25,5	43,5	43,5	0,092	• •	5	250	
	stainless steel											
	921008	20	1/2"	27,5	26,0	37,5	40,5	0,069	• •	10		
	921010	20	3/4"	27,5	26,0	43,5	40,5	0,090	• •	10		
	921011	25	1/2"	29,5	26,5	38,5	42,5	0,069	• •	10		
	921012	25	3/4"	27,5	24,5	43,5	40,5	0,086	• •	10		
	921013	32	3/4"	30,5	25,5	43,5	43,5	0,092	• •	5		
	921014	32	1/2"	28,0	23,0	37,0	41,0	0,078	• •	5		

TRANSITION PIECE WITH FEMALE THREAD

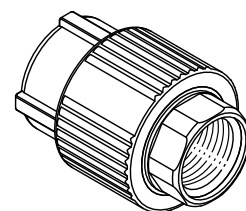
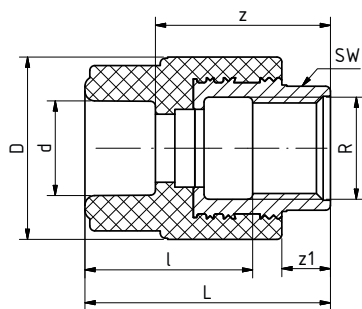
with spanner flat

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass
fusiolen® PP-R, stainless steel

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	R	l [mm]	z [mm]	z1 [mm]	D [mm]	L [mm]	SW [mm]	Weight [kg]	System	PU	Box unit	Price € pc
brass														
6 7.4 9 11	21106	16	1/2"	34,5	37,5	10,0	38,5	50,5	24	0,089	•	10		
	21108	20	1/2"	34,5	36,0	10,0	38,5	50,5	24	0,078	• •	10	400	
	21110	20	3/4"	29,0	35,5	10,0	43,5	50,0	31	0,112	• •	10	300	
	21111	25	1/2"	36,0	36,0	10,0	38,5	52,0	24	0,081	• •	10	300	
	21112	25	3/4"	29,0	34,0	10,0	43,5	50,0	31	0,109	• •	10	300	
	21113	32	3/4"	32,0	35,0	10,0	43,5	53,0	31	0,114	• •	5	250	
	21114	32	1"	37,5	41,5	14,0	60,0	59,5	39	0,239	• •	5	125	
	21115	40	1"	40,0	41,5	14,0	60,0	62,0	39	0,227	• •	5		
	21116	40	1 1/4"	40,0	42,5	15,0	74,0	63,0	50	0,385	• •	5		
	21117	50	1 1/4"	43,0	42,5	15,0	74,0	66,0	50	0,404	• •	5		
	21118	50	1 1/2"	45,0	43,5	15,0	85,5	67,0	55	0,418	• •	5		
	21119	63	1 1/2"	51,5	46,0	15,0	84,0	73,5	55	0,442	• •	1		
	21120	63	2"	51,0	49,5	19,0	101,0	77,0	67	0,600	• •	1		
	21122	75	2"	51,0	47,0	19,0	100,0	77,0	67	0,608	• •	1		
stainless steel														
	921114	32	1"	37,5	41,5	14,0	60,0	59,5	39	0,232	• •	5		
	921115	40	1"	40,0	41,5	14,0	60,0	62,0	39	0,219	• •	5		
	921116	40	1 1/4"	40,0	42,5	15,0	74,0	63,0	50	0,331	• •	5		
	921117	50	1 1/4"	43,0	42,5	15,0	74,0	66,0	50	0,351	• •	5		
	921118	50	1 1/2"	45,0	43,5	15,0	84,0	67,0	55	0,445	• •	5		
	921119	63	1 1/2"	51,5	46,0	15,0	84,0	73,5	55	0,425	• •	1		
	921120	63	2"	51,0	49,5	19,0	101,0	77,0	67	0,196	• •	1		
	921122	75	2"	51,0	47,0	19,0	100,0	77,0	67	0,676	• •	1		

TRANSITION PIECE WITH MALE THREAD

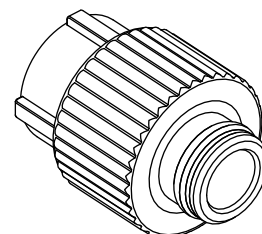
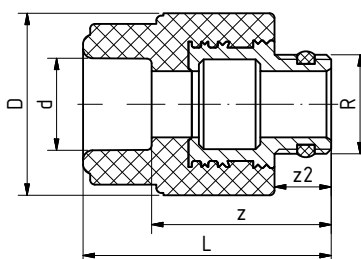
round, self sealing

Systems: aquatherm green pipe, aquatherm blue pipe

Material: fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	R	L [mm]	z [mm]	z2 [mm]	D [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 11	21258	20	1/2"	52,5	38,0	12,0	38,5	0,090	• •	10		
	21261	25	1/2"	54,0	38,0	12,0	38,5	0,078	• •	10		
	21262	25	3/4"	53,5	37,5	13,0	38,5	0,085	• •	10		

TRANSITION PIECE WITH MALE THREAD

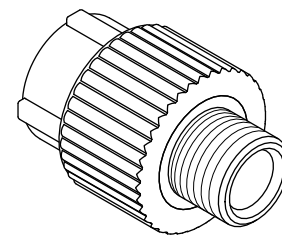
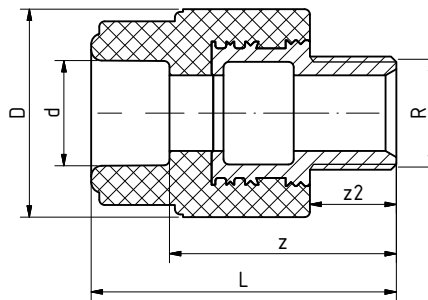
round

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass
fusiolen® PP-R, stainless steel

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	R	L [mm]	z [mm]	z2 [mm]	D [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11	brass											
	21206	16	1/2"	56,5	43,5	16,0	38,5	0,097	•	10		
	21208	20	1/2"	56,5	42,0	16,0	38,5	0,084	• •	10	300	
	21210	20	3/4"	57,5	43,0	17,0	38,5	0,109	• •	10	300	
	21211	25	1/2"	58,0	42,0	16,0	38,5	0,085	• •	10	300	
	21212	25	3/4"	57,5	41,5	17,0	38,5	0,090	• •	10	300	
	21213	32	3/4"	59,5	41,5	17,0	38,5	0,095	• •	5	250	
	stainless steel											
	921208	20	1/2"	56,5	42,0	16,0	38,5	0,096	• •	10		
	921210	20	3/4"	57,5	43,0	17,0	38,5	0,108	• •	10		
	921211	25	1/2"	58,0	42,0	16,0	38,5	0,098	• •	10		
	921212	25	3/4"	57,5	41,5	17,0	38,5	0,108	• •	10		
	921213	32	3/4"	59,5	41,5	17,0	38,5	0,115	• •	5		

TRANSITION PIECE WITH MALE THREAD

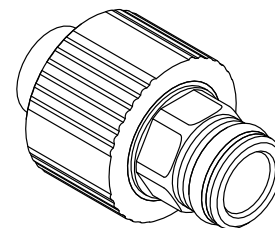
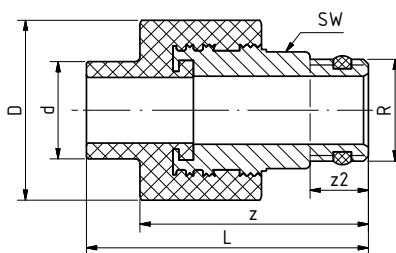
self-sealing, with hex shaped threaded transition
male/male

Systems: aquatherm green pipe, aquatherm blue pipe

Material: fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	R	L [mm]	z [mm]	z2 [mm]	D [mm]	SW [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 11	21355	20	1/2"	59,0	48,0	13,0	38,5	22	0,107	• •	10		

TRANSITION PIECE WITH MALE THREAD

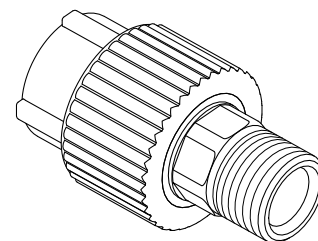
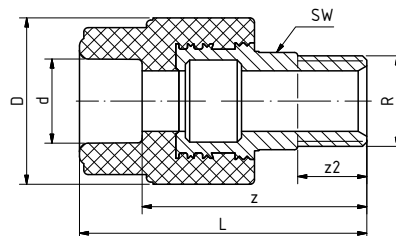
with spanner flat

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass
fusiolen® PP-R, stainless steel

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	R	SW [mm]	L [mm]	z [mm]	z2 [mm]	D [mm]	Weight [kg]	System	PU	Box unit	Price € pc
brass													
6 7.4 9 11	21306	16	1/2"	22	66,5	53,5	16,0	38,5	0,119	•	10		
	21308	20	1/2"	22	66,5	52,0	16,0	38,5	0,104	• •	10		
	21310	20	3/4"	24	67,5	53,0	17,0	38,5	0,129	• •	10		
	21311	25	1/2"	21	68,0	52,0	16,0	38,5	0,107	• •	10		
	21312	25	3/4"	24	67,5	51,5	17,0	38,5	0,103	• •	10	300	
	21314	32	1"	32	78,5	60,5	20,0	53,0	0,216	• •	5	125	
	21316	32	1 1/4"	42	81,0	63,0	21,0	68,0	0,318	• •	5	100	
	21317	40	1"	32	81,0	60,5	20,0	52,0	0,222	• •	5	100	
	21318	40	1 1/4"	42	84,5	64,0	21,0	68,0	0,324	• •	5	80	
	21319	50	1 1/4"	42	85,5	62,0	21,0	68,0	0,351	• •	5		
	21320	50	1 1/2"	46	88,5	65,0	22,0	74,0	0,425	• •	5		
	21321	63	1 1/2"	46	94,5	67,0	22,0	72,5	0,467	• •	1		
	21322	63	2"	50	102,5	75,0	23,5	84,0	0,685	• •	1		
	21323	75	2"	50	102,0	72,0	23,5	84,0	0,733	• •	1		
	21324	75	2 1/2"	65	105,0	75,0	26,7	100,0	0,970	• •	1		
	21325	90	3"	85	121,0	88,0	30,0	120,0	1,326	• •	1		
	21327	110	4"	105	148,0	111,0	39,0	147,0	2,730	• •	1		
stainless steel													
	921314	32	1"	32	78,5	60,5	20,0	53,0	0,204	• •	5		
	921316	32	1 1/4"	41	81,0	63,0	21,0	68,0	0,360	• •	5		
	921317	40	1"	32	81,0	60,5	20,0	52,0	0,251	• •	5		
	921318	40	1 1/4"	41	84,5	64,0	21,0	68,0	0,362	• •	5		
	921319	50	1 1/4"	41	85,5	62,0	21,0	68,0	0,389	• •	5		
	921320	50	1 1/2"	46	88,5	65,0	22,0	74,0	0,480	• •	5		
	921321	63	1 1/2"	46	94,5	67,0	22,0	72,5	0,523	• •	1		
	921322	63	2"	50	102,5	75,0	23,5	84,0	0,708	• •	1		
	921323	75	2"	50	102,0	72,0	23,5	84,0	0,699	• •	1		

TRANSITION PIECE WITH MALE THREAD

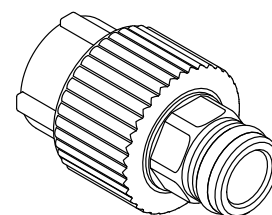
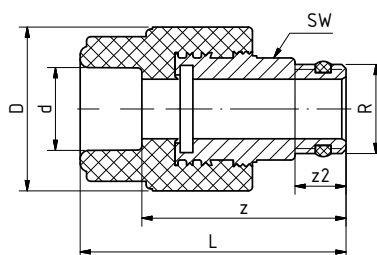
self-sealing, with hex shaped threaded transition
female/male

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	R	L [mm]	z [mm]	z2 [mm]	D [mm]	SW [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6	21356	16	1/2"	63,5	50,5	13,0	38,5	22	0,112	•	10		
7.4													
11	21358	20	1/2"	63,5	49,0	13,0	38,5	22	0,111	• •	10		

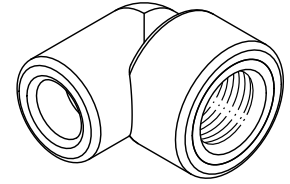
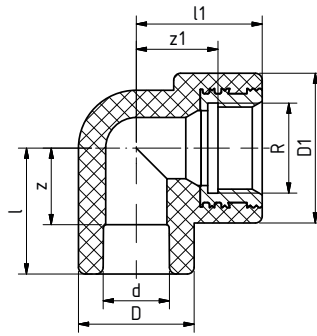
TRANSITION ELBOW WITH FEMALE THREAD

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass
fusiolen® PP-R, stainless steel

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	R	l [mm]	z [mm]	D [mm]	l1 [mm]	z1 [mm]	D1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
brass														
	23006	16	1/2"	31,5	18,5	29,5	37,0	24,0	37,0	0,072	•	10		
	23008	20	3/4"	37,0	22,5	34,0	37,0	24,0	44,0	0,102	• •	10		
	23010	20	1/2"	31,0	16,5	29,5	31,5	18,5	37,0	0,076	• •	10	300	
	23012	25	3/4"	37,0	21,0	34,0	37,0	24,0	44,0	0,100	• •	10	200	
	23014	25	1/2"	33,5	17,5	34,0	31,5	18,5	37,0	0,075	• •	10	250	
	23016	32	3/4"	27,5	9,5	43,0	51,0	38,0	44,0	0,104	• •	5		
	23018	32	1"	34,0	16,0	43,0	66,5	44,5	60,5	0,249	• •	5		
stainless steel														
6	923008	20	3/4"	37,0	22,5	29,5	37,0	24,0	37,0	0,095	• •	10		
7.4	923010	20	1/2"	31,0	16,5	29,5	31,5	18,5	37,0	0,081	• •	10		
9	923012	25	3/4"	37,0	21,0	34,0	37,0	24,0	44,0	0,101	• •	10		
11	923014	25	1/2"	33,5	17,5	34,0	31,5	18,5	37,0	0,082	• •	10		
	923015	32	1/2"	35,0	17,0	43,0	37,0	24,0	37,0	0,112	• •	5		
	923016	32	3/4"	27,5	9,5	43,0	51,0	38,0	44,0	0,097	• •	5		
	923018	32	1"	34,0	16,0	43,0	66,5	44,5	60,5	0,240	• •	5		

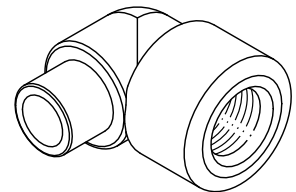
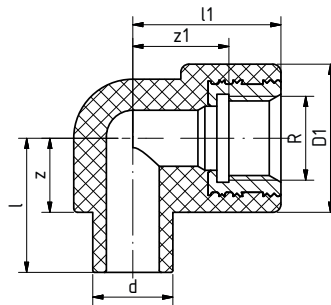
TRANSITION ELBOW WITH FEMALE THREAD

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	R	l [mm]	z [mm]	l1 [mm]	z1 [mm]	D1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6	23208	20	1/2"	33,5	18,5	37,0	24,0	37,0	0,076	• •	10		
7.4													
11													

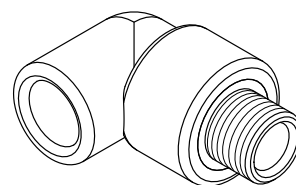
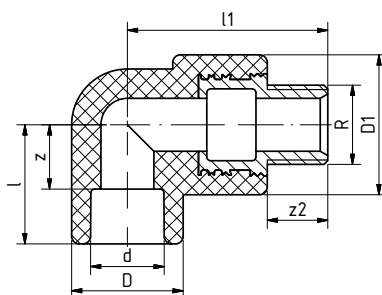
TRANSITION ELBOW WITH MALE THREAD

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass
fusiolen® PP-R, stainless steel

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	R	l [mm]	l1 [mm]	z [mm]	z2 [mm]	D [mm]	D1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
brass														
6 7.4 9 11	23504	16	1/2"	31,5	53,0	18,5	16,0	29,5	37,0	0,109	•		10	
	23506	20	1/2"	31,5	53,0	17,0	16,0	29,5	37,0	0,108	•	•	10	
	23508	20	3/4"	31,5	54,0	17,0	17,0	34,0	38,0	0,128	•	•	10	
	23510	25	3/4"	31,5	54,0	15,5	17,0	34,0	38,0	0,104	•	•	10	
	23512	32	3/4"	27,5	68,0	9,5	17,0	43,0	38,0	0,112	•	•	5	
	23514	32	1"	31,0	85,5	13,0	20,0	43,0	52,0	0,231	•	•	5	
	stainless steel													
	923506	20	1/2"	31,5	53,0	17,0	16,0	29,5	37,0	0,035	•	•	10	
	923508	20	3/4"	31,5	54,0	17,0	17,0	34,0	38,0	0,123	•	•	10	
	923510	25	3/4"	31,5	54,0	15,5	17,0	34,0	38,0	0,121	•	•	10	
	923512	32	3/4"	27,5	68,0	9,5	17,0	43,0	38,0	0,128	•	•	5	

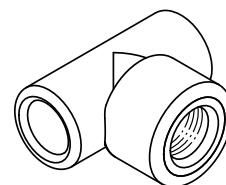
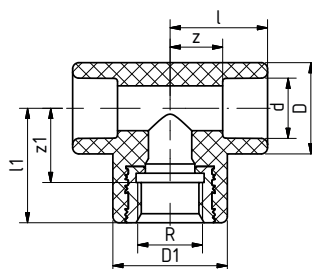
THREADED BRANCH TEE WITH FEMALE THREAD

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass
fusiolen® PP-R, stainless steel

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	R	l [mm]	z [mm]	D [mm]	l1 [mm]	z1 [mm]	D1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
brass														
6 7.4 9 11	25004	16	1/2"	31,5	18,5	29,5	37,0	24,0	37,0	0,089	•		10	
	25006	20	1/2"	31,5	17,0	29,5	37,0	24,0	37,0	0,086	•	•	10	200
	25008	20	3/4"	37,0	22,5	34,0	37,0	24,0	44,0	0,121	•	•	10	170
	25010	25	1/2"	34,0	18,0	34,0	38,0	25,0	37,0	0,090	•	•	10	150
	25012	25	3/4"	37,0	21,0	34,0	37,0	24,0	44,0	0,109	•	•	10	150
	25013	32	1/2"	35,0	17,0	43,0	37,0	24,0	37,0	0,103	•	•	5	
	25014	32	3/4"	27,5	9,5	43,0	51,0	38,0	44,0	0,111	•	•	5	
	25016	32	1"	31,5	13,5	43,0	67,0	45,0	60,0	0,255	•	•	5	
	25018	40	1/2"	42,0	21,5	52,0	40,0	27,0	37,0	0,142	•	•	5	
	25019	40	3/4"	40,5	20,0	52,0	40,5	27,5	52,0	0,147	•	•	5	
	25020	40	1"	41,5	21,0	52,0	56,0	34,0	60,0	0,276	•	•	5	
	25022	50	1"	49,5	26,0	68,0	63,5	41,5	60,0	0,385	•	•	5	
	25030	50	1/2"	49,5	26,0	68,0	44,5	31,5	43,0	0,237	•	•	5	
	25031	50	3/4"	49,5	26,0	68,0	44,5	31,5	43,0	0,243	•	•	5	
	stainless steel													
	925006	20	1/2"	31,5	17,0	29,5	37,0	24,0	37,0	0,087	•	•	10	
	925008	20	3/4"	37,0	22,5	34,0	37,0	24,0	44,0	0,108	•	•	10	
	925010	25	1/2"	34,5	18,5	34,0	38,0	25,0	37,0	0,093	•	•	10	
	925012	25	3/4"	37,0	21,0	34,0	37,0	24,0	44,0	0,111	•	•	10	
	925013	32	1/2"	35,0	17,0	43,0	37,0	24,0	37,0	0,113	•	•	5	
	925014	32	3/4"	27,5	9,5	43,0	51,0	38,0	44,0	0,111	•	•	5	
	925016	32	1"	31,5	13,5	43,0	67,0	45,0	60,0	0,082	•	•	5	

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

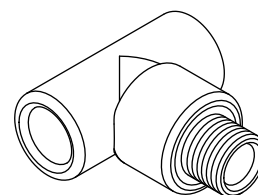
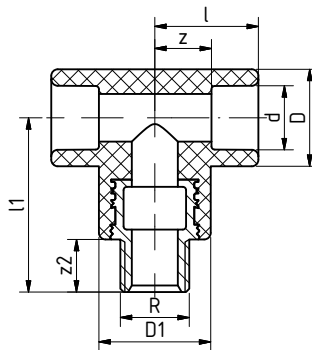
THREADED BRANCH TEE WITH MALE THREAD

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	R	l [mm]	z [mm]	D [mm]	z2 [mm]	D1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 11	25506	20	1/2"	31,5	17,0	29,5	16,0	37,0	0,102	• •	10		

TRANSITION COUPLING WITH MALE THREAD

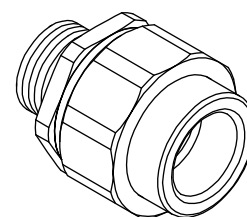
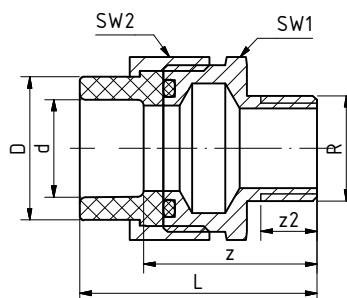
with union nut and welding socket

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	R	L [mm]	z [mm]	z2 [mm]	D [mm]	SW1 [mm]	SW2 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11	26608	20	1/2"	52,5	38,0	13,5	27,5	34	36	0,145	• •	1		
	26610	25	3/4"	59,5	43,5	14,5	36,0	42	46	0,243	• •	1		
	26612	32	1"	64,5	46,5	16,8	41,5	48	52	0,336	• •	1		
	26614	40	1 1/4"	70,0	49,5	19,1	53,0	60	64	0,517	• •	1		
	26616	50	1 1/2"	84,8	61,3	22,0	59,0	48	72	0,624	• •	1		
	26618	63	2"	95,5	68,0	25,0	74,0	62	89	1,045	• •	1		

TRANSITION COUPLING WITH FEMALE THREAD

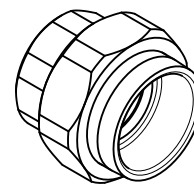
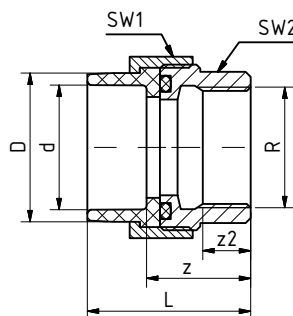
with union nut and welding socket

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	R	z [mm]	z2 [mm]	D [mm]	L [mm]	SW1 [mm]	SW2 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11	26638	20	1/2"	30,5	15,0	27,5	45,0	36	24	0,112	• •	1		
	26640	25	3/4"	33,0	15,5	36,0	49,0	46	32	0,193	• •	1		
	26642	32	1"	36,0	15,0	41,5	54,0	52	40	0,291	• •	1		
	26644	40	1 1/4"	36,0	20,0	53,0	56,5	64	47	0,423	• •	1		
	26646	50	1 1/2"	41,3	19,0	59,0	64,8	72	57	0,610	• •	1		
	26648	63	2"	47,0	18,0	74,0	74,5	89	68	0,924	• •	1		

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

LOOSE NUT ADAPTER

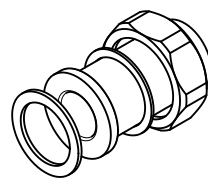
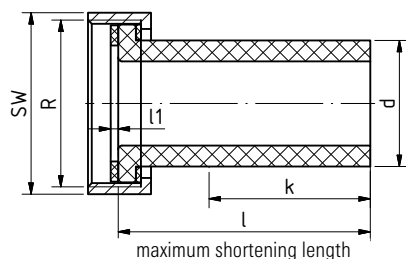
length: 100 mm, with gasket

Systems: aquatherm green pipe, aquatherm blue pipe

Material: fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	Nut R	l [mm]	l1 [mm]	k [mm]	SW [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11	26708	20	1"	100,0	3,0	65,0	36	0,079	• •	1		
	26710	25	1 1/4"	100,0	3,0	62,0	46	0,104	• •	1		
	26712	32	1 1/2"	100,0	3,0	58,0	52	0,175	• •	1		
	26714	40	2"	100,0	3,0	53,0	64	0,258	• •	1		
	26716	50	2 1/4"	100,0	3,0	49,0	72	0,344	• •	1		
	26718	63	2 3/4"	100,0	3,0	43,0	89	0,583	• •	1		
	26720	75	3 1/2"	100,0	3,0	34,0	110	0,918	• •	1		
	26722	90	4"	100,0	3,0	26,0	120	1,238	• •	1		

WATER METER NUT ADAPTER

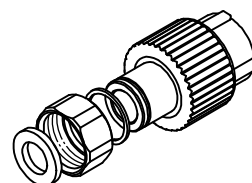
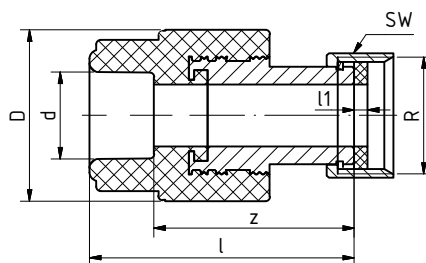
with gasket

Systems: aquatherm green pipe, aquatherm blue pipe

Material: fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	l [mm]	l1 [mm]	z [mm]	D [mm]	R	SW [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6	26808	20	59,5	3,0	45,0	38,5	3/4"	30	0,136	• •	1		
7.4	26810	25	61,0	3,0	45,0	38,5	3/4"	30	0,155	• •	1		
9													
11	26812	32	62,0	3,0	44,0	43,5	3/4"	30	0,162	• •	1		

NUT ADAPTER

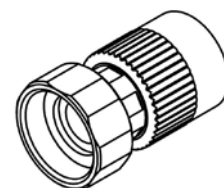
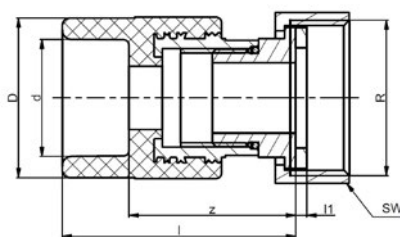
ISO-standard

Systems: aquatherm green pipe, aquatherm blue pipe

Material: fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	Nut R	l [mm]	l1 [mm]	z [mm]	D [mm]	SW [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11	27010	20	1"	58,5	3,0	34,0	38,5	36	0,182	• •	10		
	27011	25	1"	60,0	3,0	44,0	38,5	36	0,186	• •	10		
	27012	25	1 1/4"	60,0	3,0	44,0	43,5	46	0,274	• •	10		
	27013	32	1 1/4"	63,0	3,0	45,0	43,5	46	0,279	• •	5		
	27014	32	1 1/2"	69,5	3,0	51,5	60,0	52	0,446	• •	5		
	27015	40	1 1/2"	72,0	3,0	51,5	60,0	52	0,421	• •	5		
	27016	40	2"	72,0	3,0	51,5	74,0	64	0,719	• •	5		
	27017	50	2"	75,0	3,0	51,5	74,0	64	0,736	• •	5		
	27018	50	2 1/4"	77,0	3,0	53,5	84,0	72	0,831	• •	5		
	27019	63	2 1/4"	83,5	3,0	56,0	84,0	72	0,889	• •	1		
	27020	63	2 3/4"	82,5	3,0	55,0	101,0	89	1,306	• •	1		
	27021	75	2 3/4"	85,0	3,0	55,0	100,0	89	1,275	• •	1		
	27022	75	3 1/2"	91,0	3,0	61,0	100,0	110	1,818	• •	1		

COUNTERPART

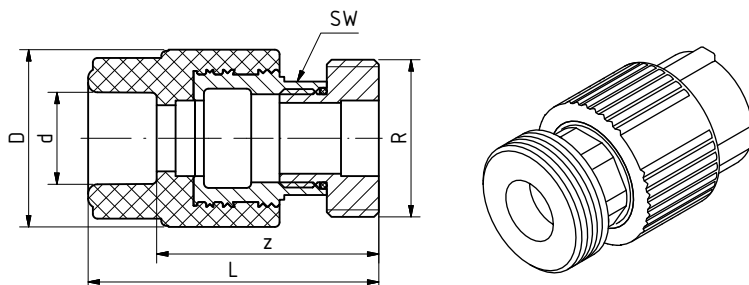
with welding socket and male thread for ISO-standard adapter

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



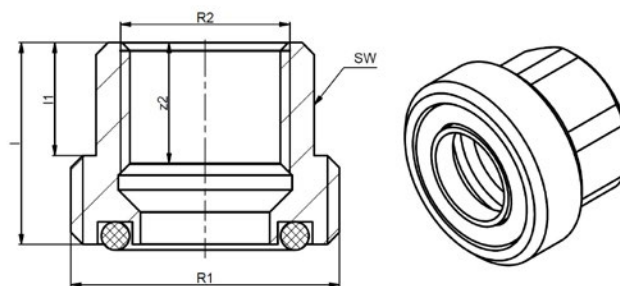
SDR	Art. no.	d [mm]	Thread R	L [mm]	z [mm]	D [mm]	SW [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11	27310	20	1"	61,5	47,0	37,5	24	0,151	• •	10		
	27311	25	1"	63,0	47,0	37,5	24	0,153	• •	10		
	27312	25	1 1/4"	63,0	47,0	43,5	31	0,221	• •	10		
	27313	32	1 1/4"	66,0	48,0	43,5	31	0,226	• •	5		
	27314	32	1 1/2"	76,5	58,5	60,0	39	0,408	• •	5		
	27315	40	1 1/2"	79,0	58,5	60,0	39	0,414	• •	5		
	27316	40	2"	79,0	58,5	74,0	50	0,650	• •	5		
	27317	50	2"	82,0	58,5	74,0	50	0,634	• •	5		
	27318	50	2 1/4"	83,0	59,5	84,0	55	0,750	• •	5		
	27319	63	2 1/4"	89,5	62,0	84,0	55	0,728	• •	1		
	27320	63	2 3/4"	95,0	65,5	101,0	67	1,093	• •	1		
	27321	75	2 3/4"	95,0	65,0	100,0	67	1,117	• •	1		
	27322	75	3 1/2"	100,0	70,0	100,0	67	1,436	• •	1		

BRASS COUNTERPART

with female thread, for ISO-standard adapter/loose nut adapter

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: brass



SDR	Art. no.	Male thread R1	Female thread R2	L [mm]	L1 [mm]	z2 [mm]	SW [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11	27510	1"	1/2"	25,0	14,0	15,0	25	0,063	• •	10		
	27512	1 1/4"	3/4"	26,0	12,5	14,0	32	0,119	• •	10		
	27514	1 1/2"	1"	31,0	15,0	17,0	40	0,175	• •	5		
	27516	2"	1 1/4"	33,0	17,0	22,0	47	0,263	• •	5		
	27518	2 1/4"	1 1/2"	36,0	20,0	19,0	57	0,333	• •	5		
	27520	2 3/4"	2"	42,0	24,0	24,0	68	0,517	• •	1		
	27522	3 1/2"	2 1/2"	46,0	24,0	27,0	84	0,801	• •	1		
	27524	4"	3"	46,0	27,0	27,0	97	0,943	• •	1		

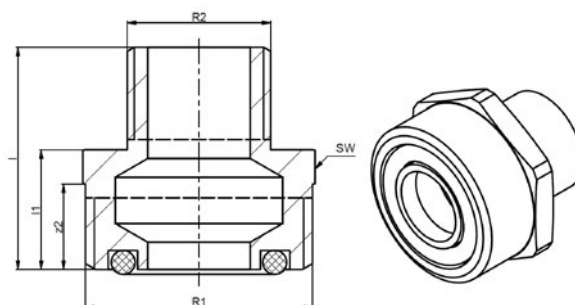
Notice: aquatherm green pipe metal compound fittings are manufactured from fusiolen® PP-R and brass. Metal inserts, without hex shaped spanner flat, with 1/2" and 3/4" f are also available in stainless steel.

BRASS COUNTERPART

with male thread, for ISO-standard adapter/loose nut adapter

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: brass



SDR	Art. no.	Thread R1	Thread R2	L [mm]	l1 [mm]	z2 [mm]	SW [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11	27710	1"	1/2"	32,5	17,5	10,5	34	0,109	•	•	10	
	27712	1 1/4"	3/4"	38,5	21,0	12,5	42	0,188	•	•	10	
	27714	1 1/2"	1"	41,5	22,5	13,5	48	0,211	•	•	5	
	27716	2"	1 1/4"	44,5	22,5	13,0	60	0,363	•	•	5	
	27718	2 1/4"	1 1/2"	56,0	34,0	16,0	48	0,472	•	•	5	
	27720	2 3/4"	2"	63,0	38,0	16,0	62	0,803	•	•	1	
	27722	3 1/2"	2 1/2"	70,0	42,0	22,0	82	1,189	•	•	1	
	27724	4"	3"	74,0	42,0	22,0	97	1,398	•	•	1	

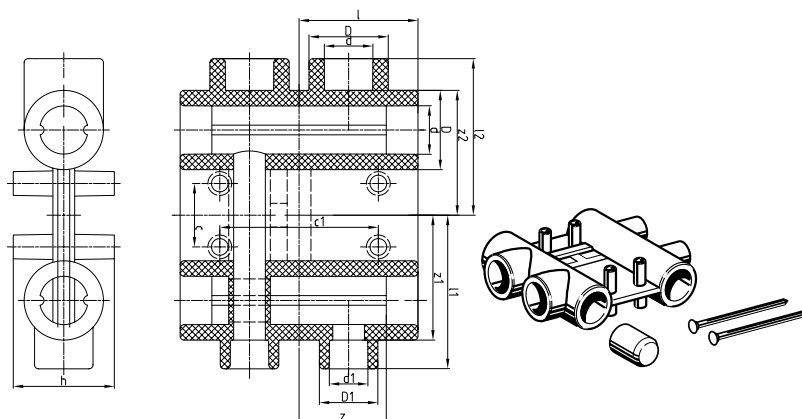
DISTRIBUTION BLOCK PLUMBING

including 1 plug and 2 fasteners

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R

Colour: green



SDR	Art. no.	d [mm]	l [mm]	z [mm]	D [mm]	d1 [mm]	l1 [mm]	z1 [mm]	D1 [mm]	l2 [mm]	z2 [mm]	c [mm]	c1 [mm]	cl [mm]	l3 [mm]	h [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 11	30115	25	60	44	40	20	77,5	63	29,5	79	63	32	80	100	36	51	0,273	•	•	1	

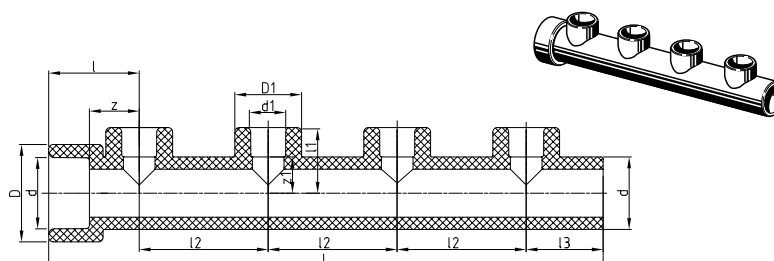
FOUR-PORT MANIFOLD

length: 246 mm, with 4 branches

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R

Colour: green



SDR	Art. no.	d [mm]	d1 [mm]	l [mm]	z [mm]	D [mm]	l1 [mm]	z1 [mm]	D1 [mm]	l2 [mm]	l3 [mm]	L [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11	30602	32	16	40	22	43	29	16	29,5	57	36	245	0,148	•		1	
	30604	32	20	40	22	43	29	14,5	29,5	57	36	245	0,134	•	•	1	

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

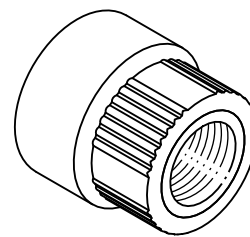
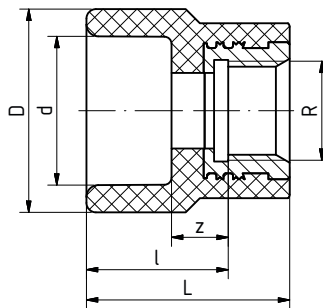
MANIFOLD END PIECE WITH FEMALE THREAD*

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	d [mm]	R	l [mm]	z [mm]	D [mm]	L [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11	30804	32	1/2"	30,0	12,0	43,0	43,0	0,073	• •	1		

* transition piece as manifold endpiece with female thread

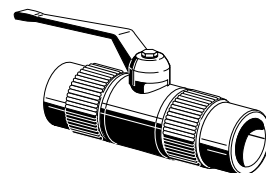
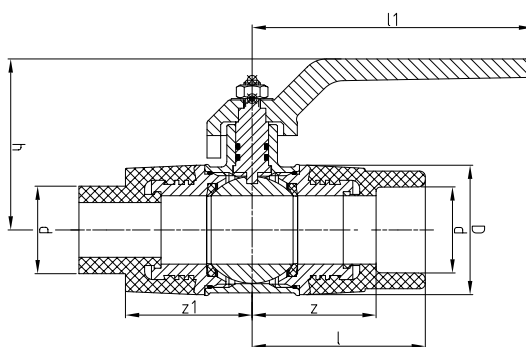
BALL VALVE FOR MANIFOLD

female/male

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass

Colour: green



SDR	Art. no.	d [mm]	l [mm]	z [mm]	D [mm]	z1 [mm]	h [mm]	l1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11	78000	32	63,0	45,0	47,5	46,5	78,0	108,0	0,575	• •	2		

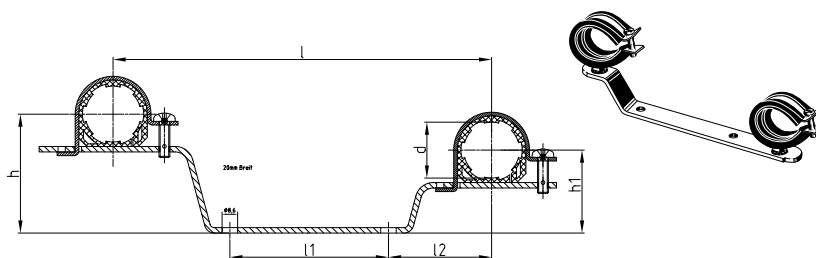
SUPPORTING STRAP FOR FOUR-PORT MANIFOLD

with clamps, galvanized, double

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: steel/galvanized

Colour: zinc



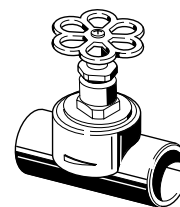
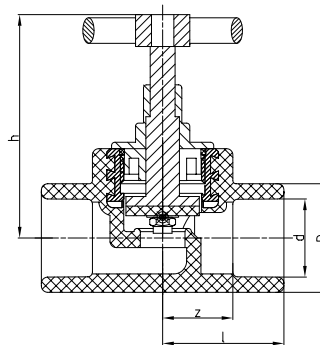
Art. no.	d [mm]	l [mm]	l1 [mm]	l2 [mm]	h [mm]	h1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
60210	32	210,0	80,0	57,0	66,0	46,0	0,226	• •	2		

GLOBE VALVE*for surface installation*

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass

Colour: green



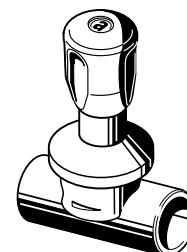
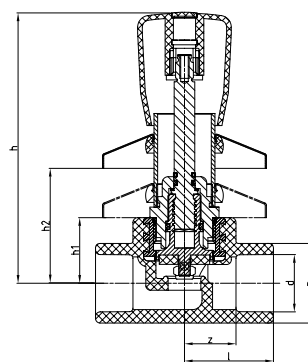
SDR	Art. no.	d [mm]	l [mm]	z [mm]	D [mm]	h [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6	40808	20	35,0	20,5	29,5	75,3	0,165	• •	1	100	
7.4	40810	25	38,0	22,0	34,0	75,0	0,172	• •	1	100	
9	40812	32	49,0	31,0	43,0	97,0	0,314	• •	1	60	
11	40814	40	60,0	39,5	52,0	111,5	0,585	• •	1		

CONCEALED VALVE*chromium plated*

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass

Colour: green



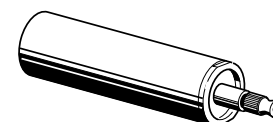
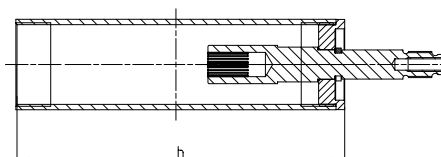
SDR	Art. no.	d [mm]	l [mm]	z [mm]	D [mm]	h [mm]	h1 [mm]	h2 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6	40858	20	35,0	20,5	29,5	116,0	28,0	59,0	0,319	• •	1		
7.4	40860	25	38,0	22,0	34,0	116,0	28,0	59,0	0,330	• •	1		
9	40862	32	49,0	31,0	43,0	121,0	34,0	59,0	0,416	• •	1		

EXTENSION FOR CONCEALED VALVE*chromium-plated for Art. no. 40858 – 40862*

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: brass

Colour: chrom



Art. no.	h [mm]	Weight [kg]	System	PU	Box unit	Price € pc
40900	92,0	0,148	• •	1		
40902	132,0	0,209	• •	1		

CONCEALED VALVE

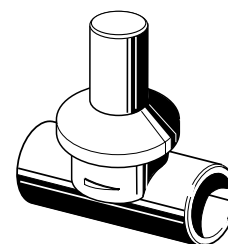
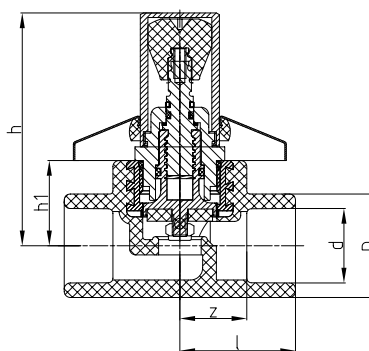
tamper proof/chromium-plated/short design

Systems: aquatherm green pipe,

aquatherm blue pipe

Material: fusiolen® PP-R, brass

Colour: green, chrom



SDR	Art. no.	d [mm]	l [mm]	z [mm]	D [mm]	h [mm]	h1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6	40868	20	35,0	20,5	29,5	71,5	28,0	0,258	• •	1	50	
7.4	40870	25	38,0	22,0	34,0	72,0	28,0	0,288	• •	1		
9												
11	40872	32	49,0	31,0	43,0	82,5	34,0	0,376	• •	1		

CONCEALED VALVE

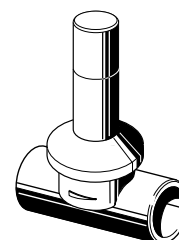
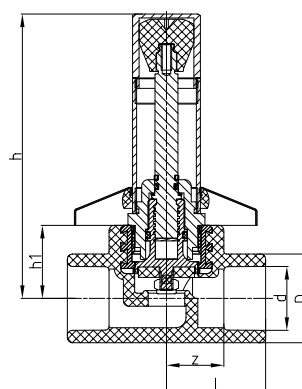
tamper proof, chromium-plated, long design

Systems: aquatherm green pipe,

aquatherm blue pipe

Material: fusiolen® PP-R, brass

Colour: green, chrom



SDR	Art. no.	d [mm]	l [mm]	z [mm]	D [mm]	h [mm]	h1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6	40888	20	35,0	20,5	29,5	109,0	28,0	0,342	• •	1		
7.4	40890	25	38,0	22,0	34,0	109,0	28,0	0,350	• •	1		
9												
11	40892	32	49,0	31,0	43,0	115,0	34,0	0,432	• •	1		

CONCEALED VALVE

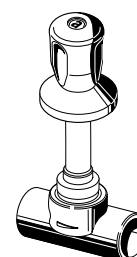
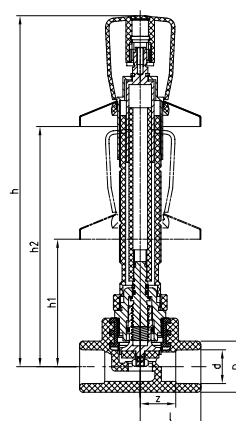
suitable for construction depth of 55 mm to 100 mm

Systems: aquatherm green pipe,

aquatherm blue pipe

Material: fusiolen® PP-R, brass

Colour: green, chrom



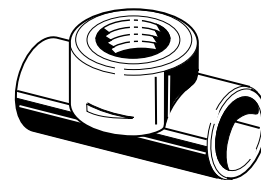
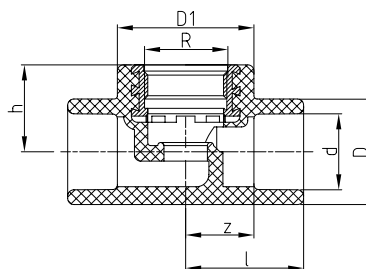
SDR	Art. no.	d [mm]	l [mm]	z [mm]	D [mm]	h [mm]	h1 [mm]	h2 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6	40878	20	35,0	20,5	29,5	213,0	59,0	147,0	0,357	• •	1		
7.4	40880	25	38,0	22,0	34,0	213,0	59,0	147,0	0,369	• •	1		
9													
11	40882	32	49,0	31,0	43,0	219,0	65,0	153,0	0,455	• •	1		

STOP VALVE BODY

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass

Colour: green



SDR	Art. no.	d [mm]	R	l [mm]	z [mm]	D [mm]	h [mm]	D1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6	40908	20	3/4"	35,0	20,0	29,5	28,0	44,0	0,082	• •	1		
7.4	40910	25	3/4"	38,0	22,0	34,0	28,0	44,0	0,101	• •	1		
9	40912	32	1"	49,0	31,0	43,0	34,0	52,0	0,146	• •	1		
11	40914	40	1 1/4"	60,0	39,5	52,0	41,0	69,0	0,313	• •	1		

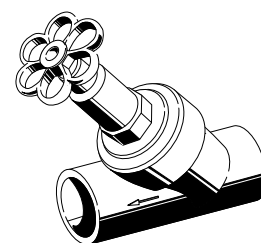
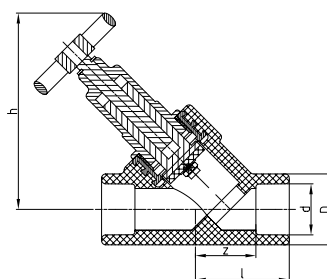
INCLINED VALVE

without drain

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass

Colour: green



SDR	Art. no.	d [mm]	l [mm]	z [mm]	D [mm]	h [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6	41108	20	45,0	30,5	34,0	95,5	0,294	• •	1		
7.4	41110	25	45,0	29,0	34,0	95,5	0,283	• •	1		
9	41112	32	56,0	38,0	43,0	111,5	0,421	• •	1		
11	41114	40	65,0	44,5	52,0	135,0	0,834	• •	1		

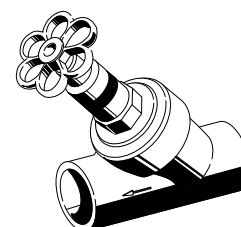
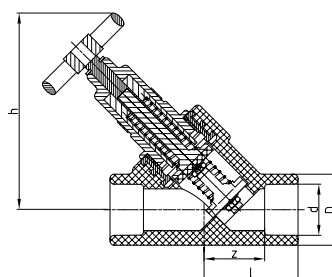
NON-RETURN VALVE

without drain

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass

Colour: green



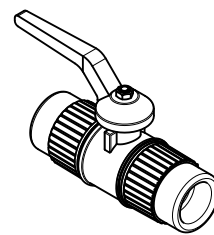
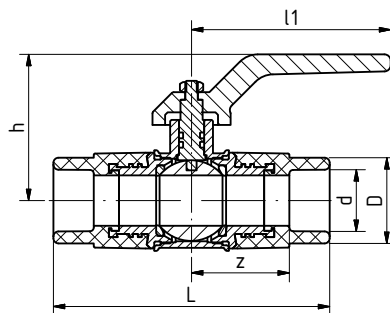
SDR	Art. no.	d [mm]	l [mm]	z [mm]	D [mm]	h [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6	41208	20	45,0	30,5	34,0	95,5	0,297	• •	1		
7.4	41210	25	45,0	29,0	34,0	95,5	0,292	• •	1		
9	41212	32	56,0	38,0	43,0	111,5	0,432	• •	1		
11	41214	40	65,0	44,5	52,0	135,0	0,840	• •	1		

BALL VALVE PP/BRASS

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass

Colour: green



SDR	Art. no.	d [mm]	L [mm]	z [mm]	D [mm]	h [mm]	l1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11	41308	20	110,00	40,50	29,50	56,00	79,00	0,280	• •	1		
	41310	25	110,00	39,00	34,00	58,00	79,00	0,375	• •	1		
	41312	32	127,00	45,50	43,00	66,00	103,00	0,592	• •	1		
	41314	40	145,00	52,00	52,00	71,00	104,00	1,015	• •	1		
	41316	50	167,00	60,00	68,00	79,00	140,00	1,689	• •	1		
	41318	63	205,00	75,00	84,00	88,00	140,00	2,874	• •	1		

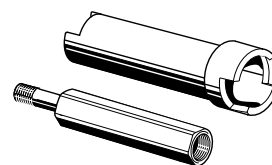
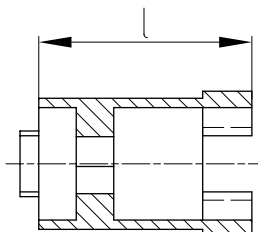
EXTENSION FOR AQUATHERM GREEN PIPE BALL VALVE

chromium-plated for Art. no. 41308 – 41318

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: brass

Colour: chrom



Art. no.	l [mm]	for Art. no.	Weight [kg]	System	PU	Box unit	Price € pc
41378	35,0	41308-41310	0,120	• •	1		
41382	35,0	41312-41314	0,120	• •	1		
41386	46,0	41316-41318	0,273	• •	1		

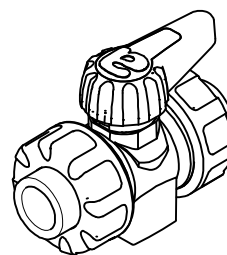
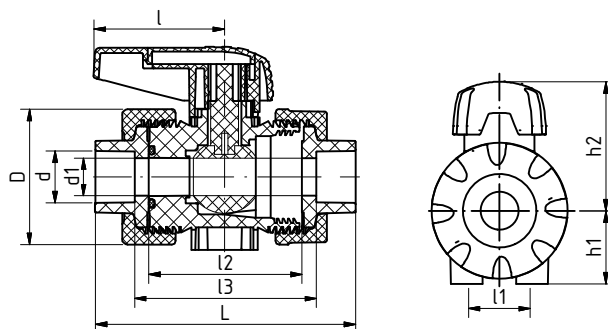
PP-BALL VALVE

with union nut and welding socket

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R

Colour: green



SDR	Art. no.	d [mm]	d1 [mm]	D [mm]	h1 [mm]	h2 [mm]	l1 [mm]	l2 [mm]	l3 [mm]	L [mm]	l [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11	41488	20	13,5	50,3	27,0	48,0	25,0	56,5	68,0	97,0	48,0	0,118	• •	1		
	41490	25	18,5	59,0	30,0	56,5	25,0	65,5	78,0	110,0	59,0	0,184	• •	1		
	41492	32	23,9	70,3	40,0	64,5	26,0	72,0	84,5	120,5	59,0	0,274	• •	1		
	41494	40	31,0	85,9	46,0	83,3	45,0	85,0	100,0	141,0	63,5	0,483	• •	1		
	41496	50	38,5	99,5	55,0	89,4	45,0	89,0	107,0	154,0	63,5	0,648	• •	1		
	41498	63	50,0	125,5	70,0	115,0	45,0	101,0	118,0	173,0	108,0	1,206	• •	1		

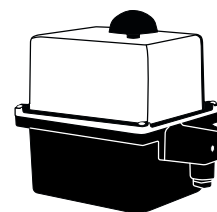
ELECTRICAL DRIVE FOR BALL VALVE ◆

incl. fixtures

For Art. no. 41488 – 41498

Systems: aqualtherm green pipe,
aqualtherm blue pipe

Colour: black/red



Art. no.	Dimension [mm]	for Art. no.	Weight [kg]	System	PU	Box unit	Price € pc
230 Volt							
41489	20	incl. fixtures for 41488	1,500	• •	1		
41491	25	incl. fixtures for 41490	1,600	• •	1		
41493	32	incl. fixtures for 41492	1,600	• •	1		
41495	40	incl. fixtures for 41494	1,600	• •	1		
41497	50	incl. fixtures for 41496	1,700	• •	1		
41499	63	incl. fixtures for 41498	1,700	• •	1		
24 Volt							
41589	20	incl. fixtures for 41488	1,500	• •	1		
41591	25	incl. fixtures for 41490	1,600	• •	1		
41593	32	incl. fixtures for 41492	1,600	• •	1		
41595	40	incl. fixtures for 41494	1,600	• •	1		
41597	50	incl. fixtures for 41496	1,700	• •	1		
41599	63	incl. fixtures for 41498	1,700	• •	1		

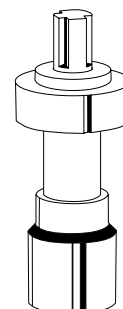
EXTENSION FOR BALL VALVE

For Art. no. 41488 – 41498

Systems: aqualtherm green pipe,
aqualtherm blue pipe

Material: PVC

Colour: grey



Art. no.	l [mm]	for Art. no.	Weight [kg]	System	PU	Box unit	Price € pc
98900	100	41488	0,020	• •	1		
98901	100	41490/41492	0,025	• •	1		
98902	100	41494/41496	0,030	• •	1		
98903	100	41498	0,125	• •	1		

Delivery time: on request

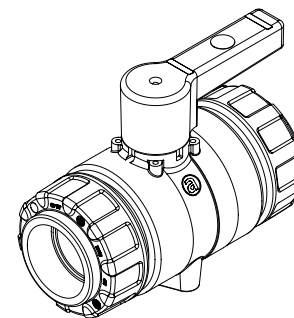
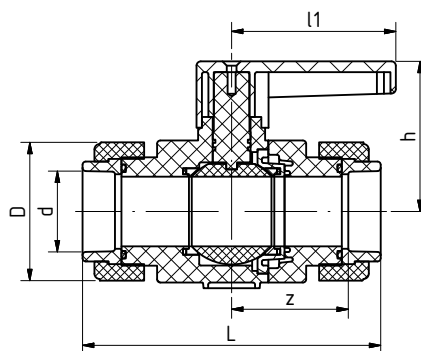
PP-BALL VALVE

with union nut and welding socket

Systems: aqualtherm green pipe,
aqualtherm blue pipe

Material: fusiolen® PP-R

Colour: green



SDR	Art. no.	d [mm]	L [mm]	z [mm]	D [mm]	h [mm]	l1 [mm]	Inch R	DN	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11	41400	75	276,0	108,0	129,0	139,0	152,0	0,00	65	2,441	• •	1		

Also suitable for vacuum pipes.

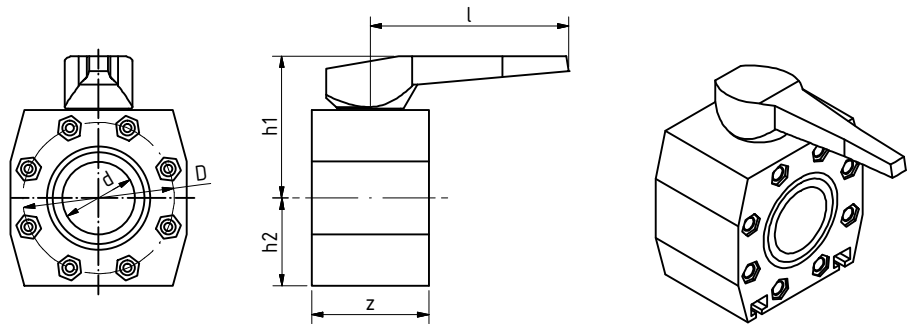
PP-BALL VALVE

with flange connection on both sides

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R

Colour: green



SDR	Art. no.	for ø [mm]	d [mm]	l [mm]	z [mm]	D [mm]	h1 [mm]	h2 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6	41602	90	77,0	210,0	124,0	160,0	150,0	93,0	4,196	• •	1		
7.4	41604	110	94,0	260,0	145,0	180,0	165,0	103,0	5,612	• •	1		
9													
11	41607	160	135,0	310,0	205,0	240,0	210,0	136,5	13,420	• •	1		

Also suitable for vacuum pipes.

For dimension 125 mm the PP-ball valve Art. no. 41604 with flange adapter Art. no. 15526 and flange Art. no. 15724 is used.

For connection with aquatherm green pipe weldable flange adapter (Art. no. 15520 – 15531) and aquatherm green pipe plastic coated steel flange (Art. no. 15720 – 15730)

Hexagon screw M 16x60 mm for Art. no. 41602/41604

Hexagon screw M 20x80 mm for Art. no. 41607

corresponding flat washer M 16

NOTICE: These are not included in delivery.

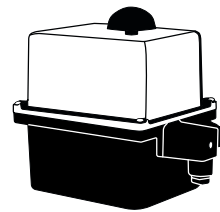
ELECTRICAL DRIVE FOR BALL VALVE ♦

incl. fixtures

For Art. no. 41602 – 41607

Systems: aquatherm green pipe,
aquatherm blue pipe

Colour: black/red



Art. no.	Dimension [mm]	for Art. no.	Weight [kg]	System	PU	Box unit	Price € pc
<i>230 Volt</i>							
41603	90	incl. fixtures for 41602	3,300	• •	1		
41605	110	incl. fixtures for 41604	3,400	• •	1		
41608	160	incl. fixtures for 41607	3,700	• •	1		
<i>24 Volt</i>							
41703	90	incl. fixtures for 41602	3,300	• •	1		
41705	110	incl. fixtures for 41604	3,400	• •	1		
41708	160	incl. fixtures for 41607	3,700	• •	1		

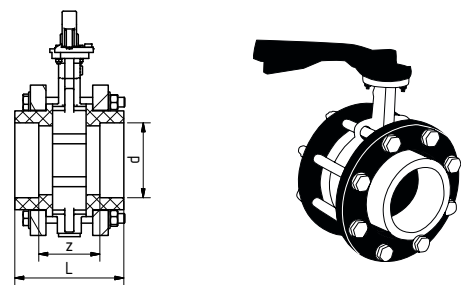
aquatherm blue pipe SHUT-OFF VALVE WITH LEVER

Set consists of: 2 x flange adapter, 2 x flanges, fixing screws

Systems: aquatherm blue pipe

Material: fusiolen® PP-RCT, Steel

Colour: blue



SDR	Art. no.	d [mm]	z [mm]	L [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>									
6	2041820	75	78	138	6,763	•	1		
7.4									
9	2041822	90	80	146	9,134	•	1		
11	2041824	110	89	163	10,400	•	1		
17.6	2041826	125	104	184	15,600	•	1		

Also suitable for vacuum pipes.

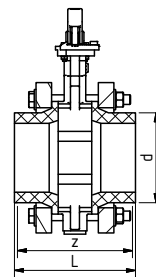
aquatherm blue pipe SHUT-OFF VALVE WITH LEVER

Set consists of: 2 x flange adapter, 2 x flanges, fixing screws

Systems: aquatherm blue pipe

Material: fusiolen® PP-RCT, Steel

Colour: blue



SDR	Art. no.	d [mm]	z [mm]	L [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>Butt welding</i>									
11	2041830	160	227	242	22,000	•	1		
17.6	2541830	160	227	242	21,700	•	1		

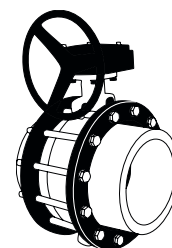
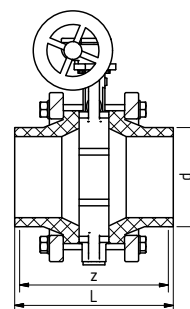
aquatherm blue pipe SHUT-OFF VALVE WITH DRIVE

Set consists of: 2 x flange adapter, 2 x flanges, fixing screws

Systems: aquatherm blue pipe

Material: fusiolen® PP-RCT, Steel

Colour: blue



SDR	Art. no.	d [mm]	z [mm]	L [mm]	Weight [kg]	System	PU	Box unit	Price € pc
11	2041834	200	305	320	41,400	•	1		
	2041838	250	313	328	59,200	•	1		
	2041842	315	412	432	81,800	•	1		
17.6	2541834	200	305	320	40,900	•	1		
	2541838	250	313	328	58,400	•	1		
	2541842	315	412	432	78,600	•	1		

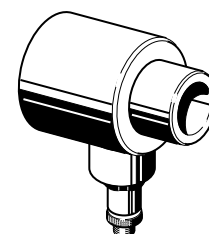
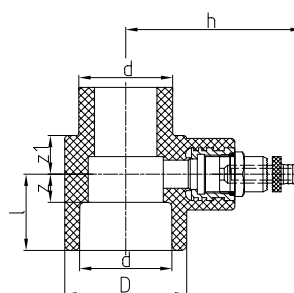
DRAINING BRANCH

to weld in aquatherm green pipe valves

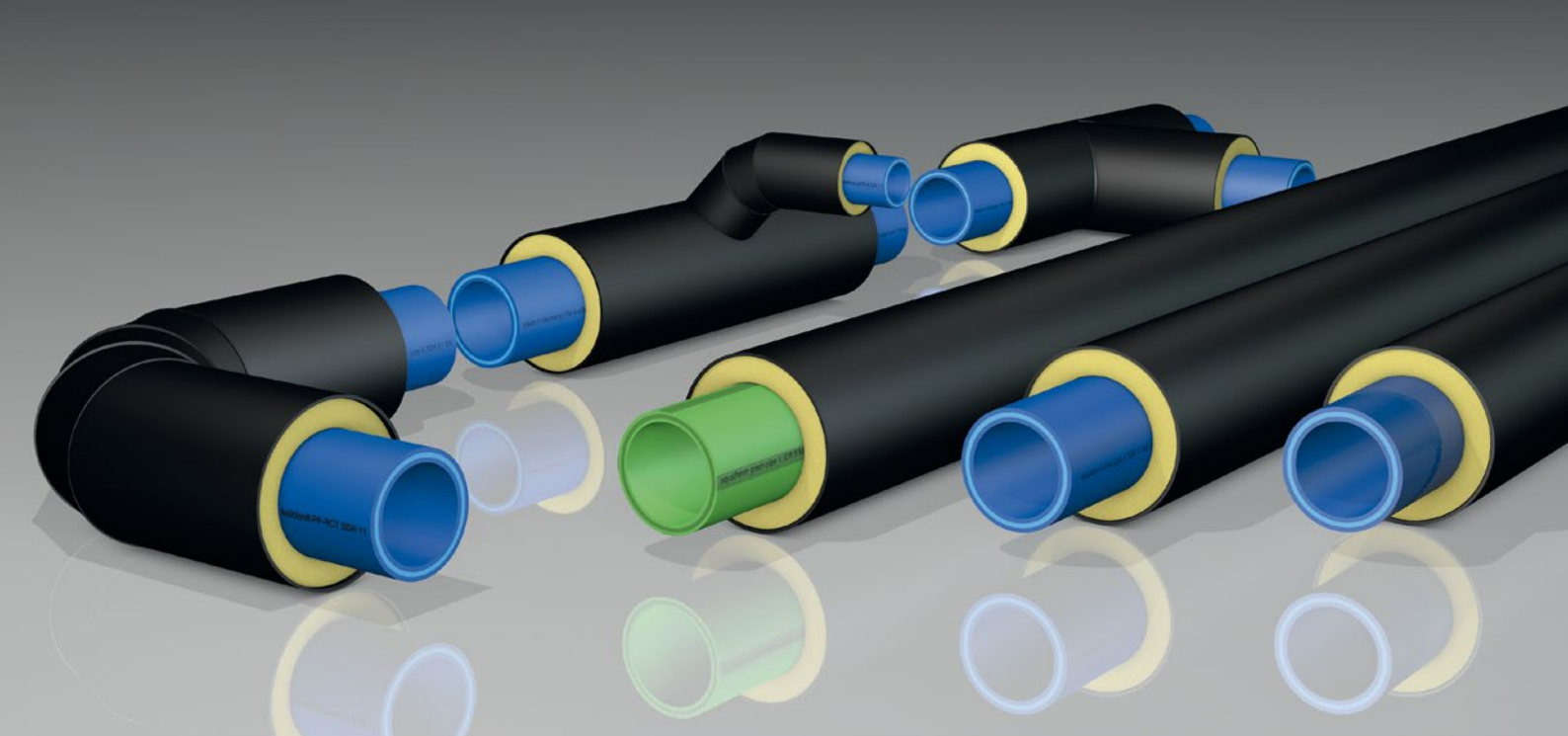
Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass

Colour: green



SDR	Art. no.	d [mm]	z [mm]	l [mm]	D [mm]	z1 [mm]	h [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11	41408	20	11,5	26,0	34,0	16,5	71,0	0,098	• •	1		
	41410	25	10,0	26,0	34,0	16,5	71,0	0,096	• •	1		
	41412	32	14,0	32,0	43,0	17,0	74,5	0,118	• •	1		
	41414	40	12,0	32,5	52,0	16,5	80,5	0,140	• •	1		
	41416	50	15,5	39,0	68,0	17,0	88,0	0,202	• •	1		
	41418	63	16,5	44,0	84,0	16,5	96,0	0,288	• •	1		



aquatherm ti

PRE-INSULATED PIPE SYSTEMS FOR DISTRICT HEATING

aquatherm ti is a pre-insulated polypropylene piping system for underground installation. It is ideally suited to transport warm potable water or heating and cooling water over longer distances. The medium pipe (aquatherm green pipe for potable applications, aquatherm blue pipe for heating and cooling) is insulated with rigid polyurethane foam and enclosed in a jacket pipe made of polyethylene. Only pipes with aquatherm's multi-layer, faser-composite (MF) technology are used, making them perfect for underground installation due to their limited thermal expansion. All pipes are made of the corrosion-resistant material fusiolen® polypropylene, which is characterized by its safe and strong heat fusion connections.

aquatherm green pipe ti

faser composite pipe system SDR 9 in dimensions 32 – 355 mm
pipe system for potable water

aquatherm blue pipe ti

faser composite pipe system SDR 11 in dimensions 40 – 355 mm and
faser composite pipe system SDR 17.6 in dimensions 125 – 355 mm
for heating, cooling and waste water

aquatherm blue pipe ot ti

oxygen-tight pipe system for heating- and industrial water
faser composite pipe system SDR 9 in dimension 32 mm
faser composite pipe system SDR 11 in dimensions 40 – 250 mm

The aquatherm ti pipe systems are insulated with PUR rigid foam and coated with a casing pipe made of PEHD.

All medium pipes are plastic-fibre composite pipes and also best suitable for the following applications.

For further informations please call our technical hotline
+49 2722 950 200, visit www.aquatherm.de or order our
aquatherm ti catalogue (**Order No. E30000**).

aquatherm ti Fields of application	aquatherm green pipe ti	aquatherm blue pipe ti	aquatherm blue pipe ot ti
Potable water	●		
Heating system construction	○	●	●
Air conditioning	○	●	●
Refrigeration	○	●	●
Swimming pool	○	●	
Rainwater application	○	●	
Irrigation	●	●	
Compressed air systems	○	●	
Geothermal	○	●	○
Chemical fluids considering the material resistance	●	●	●

● System recommended due to its technical advantages

○ Application of the system is suitable

aquatherm ti

PRE-INSULATED PIPE SYSTEMS FOR DISTRICT HEATING

All mediums pipes of the aquatherm ti pipe system in the dimensions 32 – 125 mm are connected with fittings by socket welding and in the dimensions 160 – 355 mm by butt-welding according to the plastic-welding regulations DVS 2207/08. The pipe ends of the mediums pipes are not insulated on a length of 250 mm to make a proper and professional conjunction. For the insulation of all connections please use the aquatherm ti sockets consisting of four PUR-rigid foam elements relating to the dimension, two melting adhesive strips, one casing melting film and one shrink sleeve, which is tested and approved for the laying directly in the ground.

MEDIUM PIPE

aquatherm ti is available with different medium pipes. All medium pipes are made of fusiolen® polypropylene, mechanically stabilized by a fiber mixture in the middle material layer.

aquatherm green pipe *faser composite pipe SDR 9*

Max. operating pressure: 20 bar

Max. operating temperature: 70 °C

Colour: green with 4 moss-green stripes

aquatherm blue pipe *faser composite pipe SDR 11/17.6*

Max. operating pressure: 10 bar

Max. operating temperature: 80 °C

Colour: blue

aquatherm blue pipe ot *faser composite pipe SDR 7.4/SDR 11*

Max. operating pressure: 10 bar

Max. operating temperature: 80 °C

Colour: blue

The manufacturer's operating instructions are valid.

INSULATION

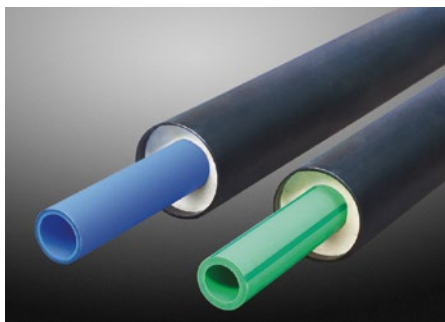
aquatherm ti pipes and fittings are insulated with polyurethane rigid foam (PUR), tested according to EN253. In the production line discontinuously foamed between medium and casing pipe, a high-class insulation with outstanding thermal conductivity $\lambda_{\text{PUR}}=0,0275 \text{ W/mK}$ and low specific weight is formed by an exothermal chemical reaction.

All aquatherm ti components are generally produced with a 100 % Freon-free and thus environmentally-friendly, Cyclopentane driven PUR-foam. That means huge insulation characteristics and at the same time minimal possible ozone depletion potential (ODP=0) and greenhouse potential values (GWP=0,001).

CASING PIPE

The casing pipe of the aquatherm ti is made of the approved PE with a smooth surface. Polyethylene is a seamless extruded impact resistant and break-proof viscoplastic high density polyethylene, applicable up to -50 °C. General quality requirements are according to DIN 8075. Treated with Corona for best adhesion at the PUR-rigid foam, acc. to EN 253. Dimensions resp. wall thickness at least acc. to EN 253, thermal conductivity $\lambda_{\text{PE80}} = 0,38 \text{ W/mK}$.

Polyethylene is highly resistant against climatic influence and UV-rays as well as against nearly all chemical compounds in the soil. Thus in all national and international regulations PE is recommended as the only suitable material for the laying directly in the soil.



aquatherm ti FASER COMPOSITE PIPES

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

Outside diameter		aquatherm green pipe ti SDR 9 MF RP		aquatherm blue pipe ti SDR 11 MF RP / *SDR 9 MF RP		aquatherm blue pipe ot ti SDR 11 MF / *SDR 9 MF RP		aquatherm blue pipe ti SDR 17.6 MF RP		PU	Box unit
Medium pipe [mm]	Casing pipe [mm]	Art. no.	Price € m	Art. no.	Price € m	Art. no.	Price € m	Art. no.	Price € m	m	
32	90	1370711		2270111*		2470711*				5.8	
40	110	1370713		2270113		2470113				5.8	
50	110	1370715		2270115		2470115				5.8	
63	125	1370717		2270117		2470117				5.8	
75	140	1370719		2270119		2470119				5.8	
90	160	1370721		2270121		2470121				5.8	
110	200	1370723		2270123		2470123				5.8	
125	225	1370725		2270125		2470125		2770125		5.8	
160	250	1370729		2270129		2470129		2770129		5.8	
200	315			2270133		2470133		2770133		5.8	
250	400			2270137		2470137		2770137		5.8	
315	450			2270141				2770141		5.8	
355	500			2270143				2770143		5.8	

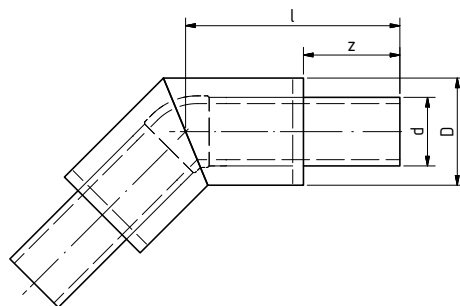
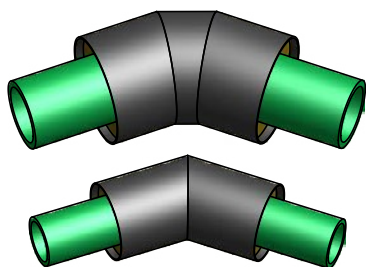
aquatherm green pipe ti SDR 9 in dimensions from 200 mm (medium pipe) available on request.

aquatherm ti FASER COMPOSITE PIPES

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

Outside diameter		aquatherm green pipe ti SDR 9 MF RP		aquatherm blue pipe ti SDR 11 MF RP / *SDR 9 MF RP		aquatherm blue pipe ot ti SDR 11 MF / *SDR 9 MF RP		aquatherm blue pipe ti SDR 17.6 MF RP		PU	Box unit
Medium pipe [mm]	Casing pipe [mm]	Art. no.	Price € m	Art. no.	Price € m	Art. no.	Price € m	Art. no.	Price € m	m	
32	90	1370712		2270112*		2470712*				11.6	
40	110	1370714		2270114		2470114				11.6	
50	110	1370716		2270116		2470116				11.6	
63	125	1370718		2270118		2470118				11.6	
75	140	1370720		2270120		2470120				11.6	
90	160	1370722		2270122		2470122				11.6	
110	200	1370724		2270124		2470124				11.6	
125	225	1370726		2270126		2470126		2770126		11.6	
160	250	1370730		2270130		2470130		2770130		11.6	
200	315			2270134		2470134		2770134		11.6	
250	400			2270138		2470138		2770138		11.6	
315	450			2270142				2770142		11.6	
355	500			2270144				2770144		11.6	

aquatherm green pipe ti SDR 9 in dimensions from 200 mm (medium pipe) available on request.



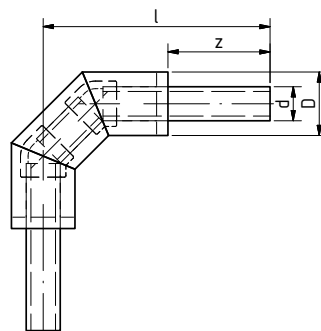
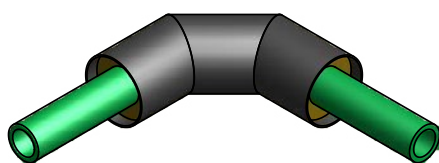
aquatherm ti ELBOW 45° SL 500

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

Outside diameter				aquatherm green pipe ti SDR 9 MF RP		aquatherm blue pipe ti SDR 11 / *SDR 9 MF RP		aquatherm blue pipe ot ti SDR 11 / *SDR 9 MF RP		aquatherm blue pipe ti SDR 17.6 MF RP		PU	Box unit
d Medium pipe [mm]	D Casing pipe [mm]	z [mm]	l [mm]	Art. no.	Price € m	Art. no.	Price € m	Art. no.	Price € m	Art. no.	Price € m	m	
32	90	225	500	1312512		2212512*		2412512*				1	
40	110	225	500	1312514		2212514		2412514				1	
50	110	225	500	1312516		2212516		2412516				1	
63	125	225	500	1312518		2212518		2412518				1	
75	140	225	500	1312520		2212520		2412520				1	
90	160	225	500	1312522		2212522		2412522				1	
110	200	225	500	1312524		2212524		2412524				1	
125	225	225	500	1312526		2212526		2412526		2712526		1	
160	250	225	500	1312530		2212531		2412531		2712530		1	
200	315	225	500			2212535		2412535		2712534		1	
250	400	225	500			2212539		2412539		2712538		1	
315	450	225	500			2212543				2712542		1	
355	500	225	500			2212545				2712544		1	

Also available in design 15° and 30°.

aquatherm green pipe ti SDR 9 in dimensions from 200 mm (medium pipe) available on request.

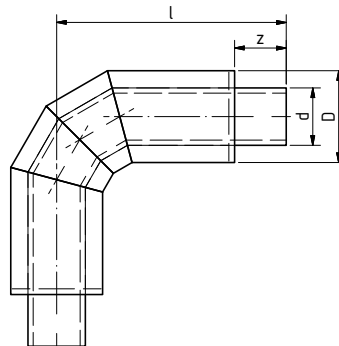
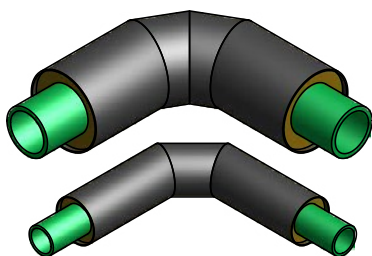


aquatherm ti ELBOW 90° SL 500

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

Outside diameter				aquatherm green pipe ti SDR 9 MF RP		aquatherm blue pipe ti SDR 11 / *SDR 9 MF RP		aquatherm blue pipe ot ti SDR 11 / *SDR 9 MF RP		PU	Box unit
d Medium pipe [mm]	D Casing pipe [mm]	z [mm]	l [mm]	Art. no.	Price € m	Art. no.	Price € m	Art. no.	Price € m	m	
32	90	225	500	1312212		2212212*		2412212*		1	
40	110	225	500	1312214		2212214		2412214		1	
50	110	225	500	1312216		2212216		2412216		1	
63	125	225	500	1312218		2212218		2412218		1	
75	140	225	500	1312220		2212220		2412220		1	

Also available in design 60° and 75°.



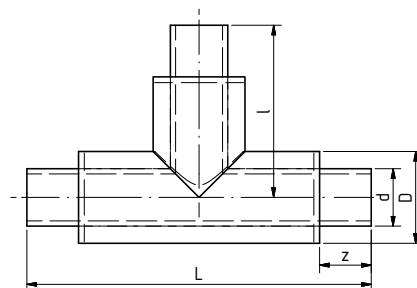
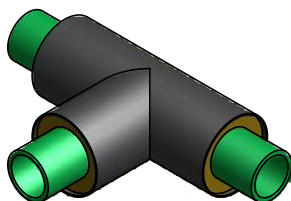
aquatherm ti ELBOW 90° SL 1000

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

Outside diameter				aquatherm green pipe ti SDR 9 MF RP		aquatherm blue pipe ti SDR 11 / *SDR 9 MF RP		aquatherm blue pipe ot ti SDR 11 / *SDR 9 MF RP		aquatherm blue pipe ti SDR 17.6 MF RP		PU	Box unit
d Medium pipe [mm]	D Casing pipe [mm]	z [mm]	l [mm]	Art. no.	Price € m	Art. no.	Price € m	Art. no.	Price € m	Art. no.	Price € m	m	
32	90	225	1000	1312112		2212112*		2412112*				1	
40	110	225	1000	1312114		2212114		2412114				1	
50	110	225	1000	1312116		2212116		2412116				1	
63	125	225	1000	1312118		2212118		2412118				1	
75	140	225	1000	1312120		2212120		2412120				1	
90	160	225	1000	1312122		2212122		2412122				1	
110	200	225	1000	1312124		2212124		2412124				1	
125	225	225	1000	1312126		2212126		2412126		2712126		1	
160	250	225	1000	1312130		2212131		2412131		2712130		1	
200	315	225	1000			2212135		2412135		2712134		1	
250	400	225	1000			2212139		2412139		2712138		1	
315	450	225	1000			2212143				2712142		1	
355	500	225	1000			2212145				2712144		1	

Also available in design 60° and 75°.

aquatherm green pipe ti SDR 9 in dimensions from 200 mm (medium pipe) available on request.

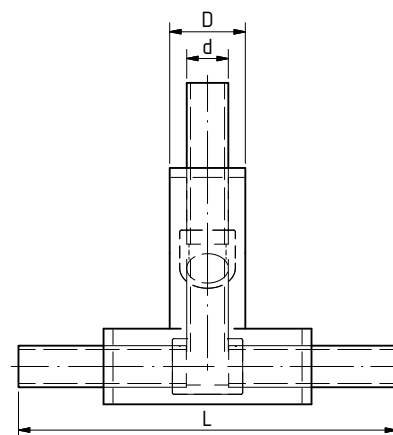
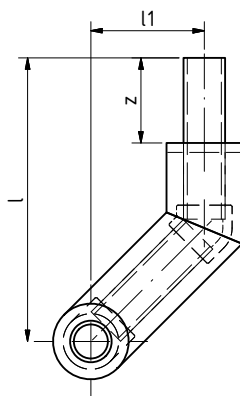
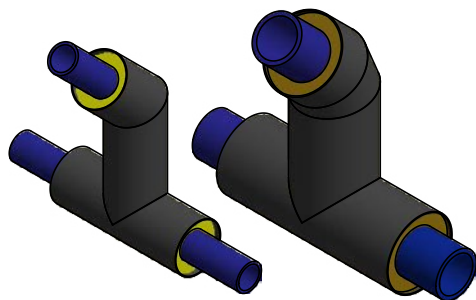


aquatherm ti BRANCH

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

Outside diameter					aquatherm green pipe ti SDR 9 MF RP		aquatherm blue pipe ti SDR 11 / *SDR 9 MF RP		aquatherm blue pipe ot ti SDR 11 / *SDR 9 MF RP		aquatherm blue pipe ti SDR 17.6 MF RP		PU	Box unit
d Medium pipe [mm]	D Casing pipe [mm]	z [mm]	l [mm]	L [mm]	Art. no.	Price € m	Art. no.	Price € m	Art. no.	Price € m	Art. no.	Price € m	m	
32	90	225	500	1000	1313112		2213112*		2413112*				1	
40	110	225	500	1000	1313114		2213114		2413114				1	
50	110	225	500	1000	1313116		2213116		2413116				1	
63	125	225	500	1000	1313118		2213118		2413118				1	
75	140	225	500	1000	1313120		2213120		2413120				1	
90	160	225	500	1000	1313122		2213122		2413122				1	
110	200	225	500	1000	1313124		2213124		2413124				1	
125	225	225	500	1000	1313126		2213126		2413126		2713126		1	
160	250	225	500	1000	1313130		2213131		2413131		2713130		1	
200	315	225	750	1500			2213135		2413135		2713134		1	
250	400	225	750	1500			2213139		2413139		2713138		1	
315	450	225	750	1500			2213143				2713142		1	
355	500	225	750	1500			2213145				2713144		1	

aquatherm green pipe ti SDR 9 in dimensions from 200 mm (medium pipe) available on request.

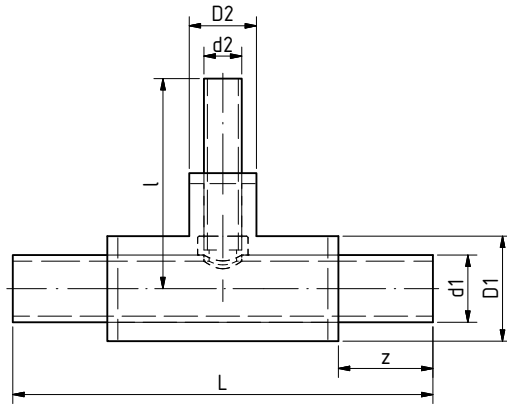
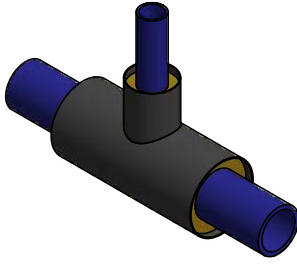


aquatherm ti CROSS-OVER BRANCH

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

Outside diameter						aquatherm blue pipe ti SDR 11 / *SDR 9 MF RP		aquatherm blue pipe ot ti SDR 11 / *SDR 9 MF RP		aquatherm blue pipe ti SDR 17.6 MF RP		PU	Box unit
d Medium pipe [mm]	D Casing pipe [mm]	z [mm]	l [mm]	l1 [mm]	L [mm]	Art. no.	Price € m	Art. no.	Price € m	Art. no.	Price € m	m	
32	90	225	750	190	1000	2218112*		2418112*				1	
40	110	225	750	210	1000	2218114		2418114				1	
50	110	225	750	210	1000	2218116		2418116				1	
63	125	225	750	225	1000	2218118		2418118				1	
75	140	225	750	240	1000	2218120		2418120				1	
90	160	225	750	260	1000	2218122		2418122				1	
110	200	225	750	300	1000	2218124		2418124				1	
125	225	225	750	325	1000	2218126		2418126		2718126		1	
160	250	225	1000	350	1000	2218131		2418131		2718130		1	
200	315	225	1000	415	1500	2218135		2418135		2718134		1	
250	400	225	1000	500	1500	2218139		2418139		2718138		1	
315	450	225	1250	550	1500	2218143				2718142		1	
355	500	225	1250	600	1500	2218145				2718144		1	

aquatherm green pipe ti SDR 9 available on request.



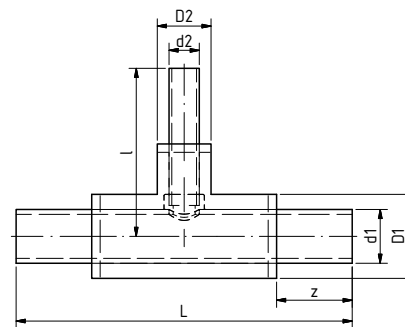
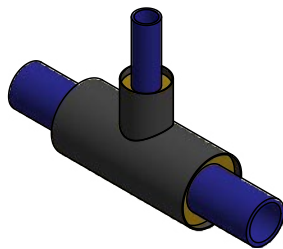
aquatherm ti RED-BRANCH

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

Outside diameter							aquatherm blue pipe ti SDR 11 / *SDR 9 MF RP	aquatherm blue pipe ot ti SDR 11 / *SDR 9 MF RP	aquatherm blue pipe ti SDR 17.6 / SDR 11 MF RP	PU	Box unit		
d1 Medium pipe [mm]	d2 Medium pipe [mm]	D1 Casing pipe [mm]	D2 Casing pipe [mm]	z [mm]	l [mm]	L [mm]	Art. no.	Price € m	Art. no.	Price € m	Art. no.	Price € m	m
40	32	110	90	225	500	1000	2213202*		2413202*				1
50	32	110	90	225	500	1000	2213206*		2413206*				1
50	40	110	110	225	500	1000	2213208		2413208				1
63	32	125	90	225	500	1000	2213212*		2413212*				1
63	40	125	110	225	500	1000	2213214		2413214				1
63	50	125	110	225	500	1000	2213216		2413216				1
75	32	140	90	225	500	1000	2213220*		2413220*				1
75	40	140	110	225	500	1000	2213222		2413222				1
75	50	140	110	225	500	1000	2213224		2413224				1
75	63	140	125	225	500	1000	2213226		2413226				1
90	32	160	90	225	500	1000	2213230*		2413230*				1
90	40	160	110	225	500	1000	2213232		2413232				1
90	50	160	110	225	500	1000	2213234		2413234				1
90	63	160	125	225	500	1000	2213236		2413236				1
90	75	160	140	225	500	1000	2213238		2413238				1
110	32	200	90	225	500	1000	2213242*		2413242*				1
110	40	200	110	225	500	1000	2213244		2413244				1
110	50	200	110	225	500	1000	2213246		2413246				1
110	63	200	125	225	500	1000	2213248		2413248				1
110	75	200	140	225	500	1000	2213250		2413250				1
110	90	200	160	225	500	1000	2213252		2413252				1
125	32	225	90	225	500	1000	2213256*		2413256*		2713256**		1
125	40	225	110	225	500	1000	2213258		2413258		2713258**		1
125	50	225	110	225	500	1000	2213260		2413260		2713260**		1
125	63	225	125	225	500	1000	2213262		2413262		2713262**		1
125	75	225	140	225	500	1000	2213264		2413264		2713264**		1
125	90	225	160	225	500	1000	2213266		2413266		2713266**		1
125	110	225	200	225	500	1000	2213268		2413268		2713268**		1
160	32	250	90	225	500	1000	2213291*		2413291*		2713290**		1
160	40	250	110	225	500	1000	2213293		2413293		2713292**		1
160	50	250	110	225	500	1000	2213295		2413295		2713294**		1
160	63	250	125	225	500	1000	2213297		2413297		2713296**		1
160	75	250	140	225	500	1000	2213299		2413299		2713298**		1
160	90	250	160	225	500	1000	2213301		2413301		2713300**		1
160	110	200	200	225	750	1500	2213303		2413303		2713302**		1
160	125	250	225	225	750	1500	2213305		2413305		2713304		1

* Branch d2 SDR 9 | ** Branch d2 SDR 11

aquatherm green pipe ti SDR 9 available on request.



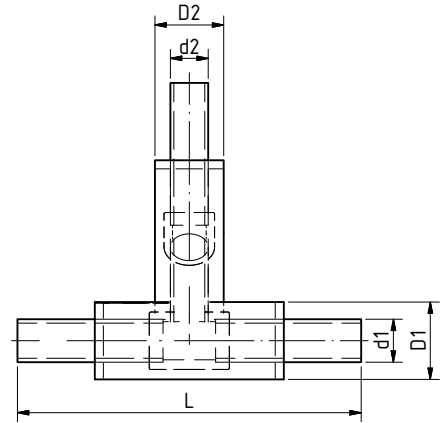
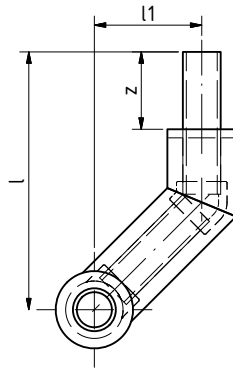
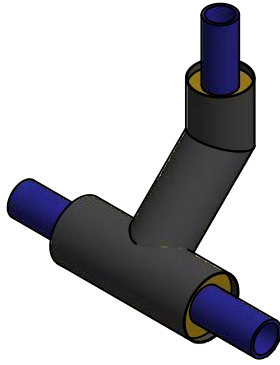
aquatherm ti RED.-BRANCH

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

Outside diameter							aquatherm blue pipe ti SDR 11 / *SDR 9 MF RP	aquatherm blue pipe ot ti SDR 11 / *SDR 9 MF RP	aquatherm blue pipe ti SDR 17.6 / SDR 11 MF RP	PU	Box unit		
d1 Medium pipe [mm]	d2 Medium pipe [mm]	D1 Casing pipe [mm]	D2 Casing pipe [mm]	z [mm]	l [mm]	L [mm]	Art. no.	Price € m	Art. no.	Price € m	Art. no.	Price € m	m
200	32	315	90	225	750	1500	2213333*		2413333*		2713332**		1
200	40	315	110	225	750	1500	2213335		2413335		2713334**		1
200	50	315	110	225	750	1500	2213337		2413337		2713336**		1
200	63	315	125	225	750	1500	2213339		2413339		2713338**		1
200	75	315	140	225	750	1500	2213341		2413341		2713340**		1
200	90	315	160	225	750	1500	2213343		2413343		2713342**		1
200	110	315	200	225	750	1500	2213345		2413345		2713344**		1
200	125	315	225	225	750	1500	2213347		2413347		2713346		1
200	160	315	250	225	750	1500	2213351		2413351		2713350		1
250	32	400	90	225	750	1500	2213383*		2413383*		2713382**		1
250	40	400	110	225	750	1500	2213385		2413385		2713384**		1
250	50	400	110	225	750	1500	2213387		2413387		2713386**		1
250	63	400	125	225	750	1500	2213389		2413389		2713388**		1
250	75	400	140	225	750	1500	2213391		2413391		2713390**		1
250	90	400	160	225	750	1500	2213393		2413393		2713392**		1
250	110	400	200	225	750	1500	2213395		2413395		2713394**		1
250	125	400	225	225	750	1500	2213397		2413397		2713396		1
250	160	400	250	225	750	1500	2213401		2413401		2713400		1
250	200	400	315	225	750	1500	2213403		2413403		2713402		1
315	32	450	90	225	750	1500	2213407*				2713406**		1
315	40	450	110	225	750	1500	2213409				2713408**		1
315	50	450	110	225	750	1500	2213411				2713410**		1
315	63	450	125	225	750	1500	2213413				2713412**		1
315	75	450	140	225	750	1500	2213415				2713414**		1
315	90	450	160	225	750	1500	2213417				2713416**		1
315	110	450	200	225	750	1500	2213419				2713418**		1
315	125	450	225	225	750	1500	2213421				2713420		1
315	160	450	250	225	750	1500	2213425				2713424		1
315	200	450	315	225	750	1500	2213429				2713428		1
315	250	450	400	225	750	1500	2213433				2713432		1
355	32	500	90	225	750	1500	2213437*				2713436**		1
355	40	500	110	225	750	1500	2213439				2713438**		1
355	50	500	110	225	750	1500	2213441				2713440**		1
355	63	500	125	225	750	1500	2213443				2713442**		1
355	75	500	140	225	750	1500	2213445				2713444**		1
355	90	500	160	225	750	1500	2213447				2713446**		1
355	110	500	200	225	750	1500	2213449				2713448**		1
355	125	500	225	225	750	1500	2213451				2713450		1
355	160	500	250	225	750	1500	2213455				2713454		1
355	200	500	315	225	750	1500	2213459				2713458		1
355	250	500	400	225	750	1500	2213463				2713462		1
355	315	500	450	225	750	1500	2213467				2713466		1

* Branch d2 SDR 9 | ** Branch d2 SDR 11

aquatherm green pipe ti SDR 9 available on request.



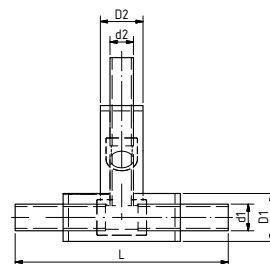
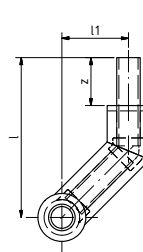
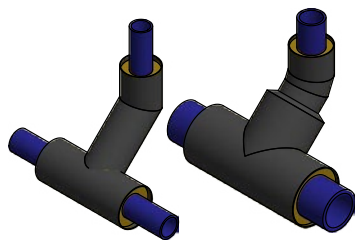
aquatherm ti RED. CROSS-OVER BRANCH

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

Outside diameter								aquatherm blue pipe ti SDR 11 / *SDR 9 MF RP	aquatherm blue pipe ot ti SDR 11 / *SDR 9 MF RP	aquatherm blue pipe ti SDR 17.6 / SDR 11 MF RP	PU	Box unit		
d1 Medium pipe [mm]	d2 Medium pipe [mm]	D1 Casing pipe [mm]	D2 Casing pipe [mm]	z [mm]	l [mm]	l1 [mm]	L [mm]	Art. no.	Price € m	Art. no.	Price € m	Art. no.	Price € m	m
40	32	110	90	225	750	200	1000	2218202*		2418202*				1
50	32	110	90	225	750	200	1000	2218206*		2418206*				1
50	40	110	110	225	750	210	1000	2218208		2418208				1
63	32	125	90	225	750	207,5	1000	2218212*		2418212*				1
63	40	125	110	225	750	217,5	1000	2218214		2418214				1
63	50	125	110	225	750	217,5	1000	2218216		2418216				1
75	32	140	90	225	750	215	1000	2218220*		2418220*				1
75	40	140	110	225	750	225	1000	2218222		2418222				1
75	50	140	110	225	750	225	1000	2218224		2418224				1
75	63	140	125	225	750	232,5	1000	2218226		2418226				1
90	32	160	90	225	750	225	1000	2218230*		2418230*				1
90	40	160	110	225	750	235	1000	2218232		2418232				1
90	50	160	110	225	750	235	1000	2218234		2418234				1
90	63	160	125	225	750	242,5	1000	2218236		2418236				1
90	75	160	140	225	750	250	1000	2218238		2418238				1
110	32	200	90	225	750	245	1000	2218242*		2418242*				1
110	40	200	110	225	750	255	1000	2218244		2418244				1
110	50	200	110	225	750	255	1000	2218246		2418246				1
110	63	200	125	225	750	262,5	1000	2218248		2418248				1
110	75	200	140	225	750	270	1000	2218250		2418250				1
110	90	200	160	225	750	280	1000	2218252		2418252				1
125	32	225	90	225	750	257,5	1000	2218256*		2418256*		2718256**		1
125	40	225	110	225	750	267,5	1000	2218258		2418258		2718258**		1
125	50	225	110	225	750	267,5	1000	2218260		2418260		2718260**		1
125	63	225	125	225	750	275	1000	2218262		2418262		2718262**		1
125	75	225	140	225	750	282,5	1000	2218264		2418264		2718264**		1
125	90	225	160	225	750	292,5	1000	2218266		2418266		2718266**		1
125	110	225	200	225	750	312,5	1000	2218268		2418268		2718268**		1
160	32	250	90	225	750	270	1000	2218291*		2418291*		2718290**		1
160	40	250	110	225	750	280	1000	2218293		2418293		2718292**		1
160	50	250	110	225	750	280	1000	2218295		2418295		2718294**		1
160	63	250	125	225	750	287,5	1000	2218297		2418297		2718296**		1
160	75	250	140	225	750	295	1000	2218299		2418299		2718298**		1
160	90	250	160	225	750	305	1000	2218301		2418301		2718300**		1
160	110	250	200	225	1000	325	1000	2218303		2418303		2718302**		1
160	125	250	225	225	1000	337,5	1000	2218305		2418305		2718304		1

* Branch d2 SDR 9 | ** Branch d2 SDR 11

aquatherm green pipe ti SDR 9 available on request.



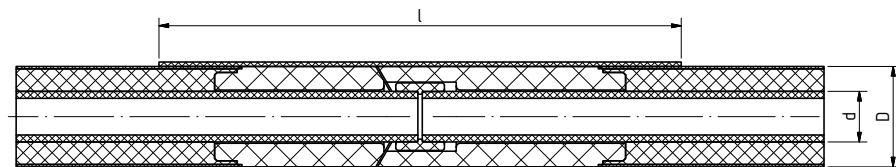
aquatherm ti RED. CROSS-OVER BRANCH

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

Outside diameter								aquatherm blue pipe ti SDR 11 / *SDR 9 MF RP	aquatherm blue pipe ot ti SDR 11 / *SDR 9 MF RP	aquatherm blue pipe ti SDR 17.6 / SDR 11 MF RP	PU	Box unit		
d1 Medium pipe [mm]	d2 Medium pipe [mm]	D1 Casing pipe [mm]	D2 Casing pipe [mm]	z [mm]	l [mm]	l1 [mm]	L [mm]	Art. no.	Price € m	Art. no.	Price € m	Art. no.	Price € m	m
200	32	315	90	225	750	302,5	1000	2218333*		2418333*		2718332**		1
200	40	315	110	225	750	312,5	1000	2218335		2418335		2718334**		1
200	50	315	110	225	750	312,5	1000	2218337		2418337		2718336**		1
200	63	315	125	225	750	320	1000	2218339		2418339		2718338**		1
200	75	315	140	225	750	327,5	1000	2218341		2418341		2718340**		1
200	90	315	160	225	750	337,5	1000	2218343		2418343		2718342**		1
200	110	315	200	225	1000	357,5	1000	2218345		2418345		2718344**		1
200	125	315	225	225	1000	370	1500	2218347		2418347		2718346		1
200	160	315	250	225	1000	382,5	1500	2218351		2418351		2718350		1
250	32	400	90	225	750	345	1000	2218383*		2418383*		2718382**		1
250	40	400	110	225	1000	355	1000	2218385		2418385		2718384**		1
250	50	400	110	225	1000	355	1000	2218387		2418387		2718386**		1
250	63	400	125	225	1000	362,5	1000	2218389		2418389		2718388**		1
250	75	400	140	225	1000	370	1000	2218391		2418391		2718390**		1
250	90	400	160	225	1000	380	1000	2218393		2418393		2718392**		1
250	110	400	200	225	1000	400	1000	2218395		2418395		2718394**		1
250	125	400	225	225	1000	412,5	1000	2218397		2418397		2718396		1
250	160	400	250	225	1000	425	1500	2218401		2418401		2718400		1
250	200	400	315	225	1000	457,5	1500	2218403		2418403		2718402		1
315	32	450	90	225	1000	370	1000	2218407*				2718406**		1
315	40	450	110	225	1000	380	1000	2218409				2718408**		1
315	50	450	110	225	1000	380	1000	2218411				2718410**		1
315	63	450	125	225	1000	387,5	1000	2218413				2718412**		1
315	75	450	140	225	1000	395	1000	2218415				2718414**		1
315	90	450	160	225	1000	405	1000	2218417				2718416**		1
315	110	450	200	225	1000	425	1000	2218419				2718418**		1
315	125	450	225	225	1000	437,5	1000	2218421				2718420		1
315	160	450	250	225	1000	450	1000	2218425				2718424		1
315	200	450	315	225	1000	482,5	1500	2218429				2718428		1
315	250	450	400	225	1000	525	1500	2218433				2718432		1
355	32	500	90	225	1000	395	1000	2218437*				2718436**		1
355	40	500	110	225	1000	405	1000	2218439				2718438**		1
355	50	500	110	225	1000	405	1000	2218441				2718440**		1
355	63	500	125	225	1000	412,5	1000	2218443				2718442**		1
355	75	500	140	225	1000	420	1000	2218445				2718444**		1
355	90	500	160	225	1000	430	1000	2218447				2718446**		1
355	110	500	200	225	1000	450	1000	2218449				2718448**		1
355	125	500	225	225	1000	462,5	1000	2218451				2718450		1
355	160	500	250	225	1000	475	1000	2218455				2718454		1
355	200	500	315	225	1000	507,5	1000	2218459				2718458		1
355	250	500	400	225	1000	550	1500	2218463				2718462		1
355	315	500	450	225	1000	575	1500	2218467				2718466		1

* Branch d2 SDR 9 | ** Branch d2 SDR 11

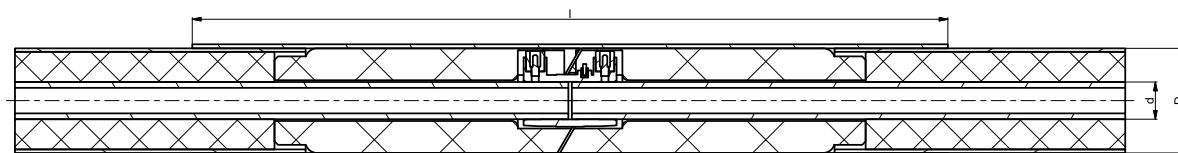
aquatherm green pipe ti SDR 9 available on request.



aquatherm ti SOCKET WTD

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.

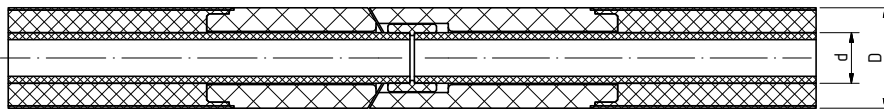
Outside diameter			aquatherm ti		Box unit	Price € pc
Medium pipe d [mm]	Casing pipe D [mm]	l [mm]	Art. no.	PU		
Socket welding: the fitting for the connection of the medium pipes is included in delivery.						
32	90	600	2211011	1		
40	110	600	2211013	1		
50	110	600	2211015	1		
63	125	600	2211017	1		
75	140	600	2211019	1		
90	160	600	2211021	1		
110	200	600	2211023	1		
125	225	600	2211025	1		
Butt welding: no fitting is required for the connection of the medium pipes						
160	250	600	2211029	1		
200	315	600	2211033	1		
250	400	600	2211037	1		
315	450	600	2211041	1		
355	500	600	2211043	1		



NEW aquatherm ti ELECTROFUSION SOCKET TI WTD

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.

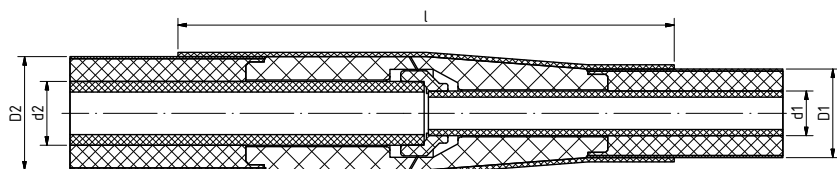
Outside diameter			aquatherm ti		Box unit	Price € pc
Medium pipe d [mm]	Casing pipe D [mm]	l [mm]	Art. no.	PU		
32	90	600	2211211	1		
40	110	600	2211213	1		
50	110	600	2211215	1		
63	125	600	2211217	1		
75	140	600	2211219	1		
90	160	600	2211221	1		
110	200	600	2211223	1		
125	225	600	2211225	1		
160	250	600	2211229	1		
200	315	600	2211233	1		
250	400	600	2211237	1		



aquatherm ti INSULATION-SOCKET-SET

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 (p. 95)

Outside diameter		aquatherm ti		Box unit	Price € pc
Medium pipe d [mm]	Casing pipe D [mm]	Art. no.	PU		
Socket welding: the fitting for the connection of the medium pipes is included in delivery.					
32	90	2411012	1		
40	110	2411014	1		
50	110	2411016	1		
63	125	2411018	1		
75	140	2411020	1		
90	160	2411022	1		
110	200	2411024	1		
125	225	2411026	1		
Butt welding: no fitting is required for the connection of the medium pipes					
160	250	2411030	1		
200	315	2411034	1		
250	400	2411038	1		
315	450	2411042	1		
355	500	2411044	1		



aquatherm ti REDUCING SOCKET

consists of shrink sleeve with PUR-rigid foam insulation elements, fitting depending on dimension and accessories, 900 mm total lengths

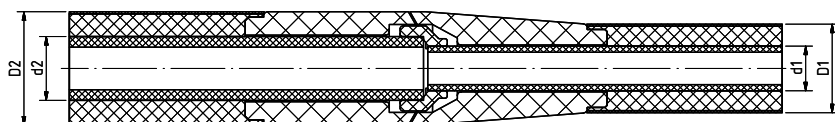
Outside diameter					aquatherm green pipe ti		PU	Box unit
d2 Medium pipe [mm]	d1 Medium pipe [mm]	D1 Casing pipe [mm]	D2 Casing pipe [mm]	l [mm]	Art. no.	Price € pc		
40	32	90	110	900	1211222		1	
50	32	90	110	900	1211228		1	
50	40	110	110	900	1211230		1	
63	40	110	125	900	1211236		1	
63	50	110	125	900	1211238		1	
75	50	110	140	900	1211240		1	
75	63	125	140	900	1211242		1	
90	63	125	160	900	1211252		1	
90	75	140	160	900	1211253		1	
110	75	140	200	900	1211257		1	
110	90	160	200	900	1211259		1	
125	90	160	225	900	1211263		1	
125	110	200	225	900	1211265		1	

Socket welding: up to 125 x 110 mm, than one-sided socket- and one-sided butt welding

Outside diameter					aquatherm green pipe ti SDR 9		aquatherm blue pipe ti SDR 11		aquatherm blue pipe ti SDR 17.6		PU	Box unit
d2 Medium pipe [mm]	d1 Medium pipe [mm]	D1 Casing pipe [mm]	D2 Casing pipe [mm]	l [mm]	Art. no.	Price € m/pc	Art. no.	Price € m/pc	Art. no.	Price € m/pc		
160	110	200	250	900	1311274		2211275		2711274		1	
160	125	225	250	900	1311276		2211277		2711276		1	
200	125	225	315	900	1311282		2211283		2711282		1	

Double-sided butt welding

200	160	250	315	900	1311284		2211285		2711284		1	
250	160	250	400	900	1311288		2211289		2711288		1	
250	200	315	400	900	1311290		2211291		2711290		1	
315	200	315	450	900	1311296		2211297		2711296		1	
315	250	400	450	900	1311298		2211299		2711298		1	



aquatherm ti INSULATION-REDUCING SOCKET-SET

consists of PUR-rigid foam elements and fitting. Required accessories: Mono Top 40 insulating tape and primer

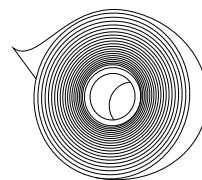
Outside diameter				aquatherm ti		PU	Box unit
d2 [mm]	d1 [mm]	D1 [mm]	D2 [mm]	Art. no.	Price € pc		
Socket welding: up to 125 x 110 mm, than one-sided socket- and one-sided butt welding							
40	32	90	110	2411222		1	
50	32	90	110	2411228		1	
50	40	110	110	2411230		1	
63	40	110	125	2411236		1	
63	50	110	125	2411238		1	
75	50	110	140	2411240		1	
75	63	125	140	2411242		1	
90	63	125	160	2411252		1	
90	75	140	160	2411253		1	
110	75	140	200	2411257		1	
110	90	160	200	2411259		1	
125	90	160	225	2411263		1	
125	110	200	225	2411265		1	

Outside diameter				aquatherm blue pipe ti SDR 11		aquatherm blue pipe ti SDR 17,6		PU	Box unit
d2 [mm]	d1 [mm]	D1 [mm]	D2 [mm]	Art. no.	Price € pc	Art. no.	Price € pc		
160	110	200	250	2411275		2711275		1	
160	125	225	250	2411277		2711277		1	
200	125	225	315	2411283		2711283		1	
<i>Double-sided butt welding</i>									
200	160	250	315	2411285		2711285		1	
250	160	250	400	2411289		2711289		1	
250	200	315	400	2411291		2711291		1	
315	200	315	450	2411297		2711297		1	
315	250	400	450	2411299		2711299		1	
355	250	400	500	2411305		2711305		1	
355	315	450	500	2411307		2711307		1	

aquatherm ti MONO TOP 40 INSULATION TAPE

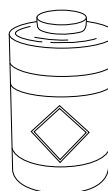
for post-insulation of connections with the aquatherm insulation-socket set

Art. no.	Wide [mm]	Length [m]	PU	Box unit	Price € m/pc
2411000	50	15	1		
2411001	100	15	1		



aquatherm ti PRIMER

Art. no.	Amount	PU	Box unit	Price € m/pc
2411002	1 Liter	1		



aquatherm ti CLOSING COLLAR

Collar for closing the PUR-insulating layer from casing pipe to medium

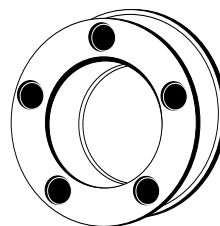
Outside diameter		aquatherm ti		Box unit	Price € pc
Medium pipe [mm]	Casing pipe [mm]	Art. no.	PU		
32	90	1214112	1		
40 – 50	110	1214114	1		
63 – 75	125 – 140	1214118	1		
90	160	1214122	1		
110	200	1214124	1		
125	225	1214126	1		
160	250	1214130	1		
200	315	1214134	1		
250	400	1214138	1		
315/355	450/500	1214142	1		



aquatherm ti COMPACT SEALS

Pipe collar for wall duct.

Outside diameter			aquatherm ti		Box unit	Price € pc
Core drill hole [mm]	Medium pipe [mm]	Casing pipe [mm]	Art. no.	PU		
150	32	90	1214212	1		
200	50	110	1214214	1		
200	63	125	1214218	1		
200	75	140	1214220	1		
250	90	160	1214222	1		
300	110	200	1214224	1		
350	125	225	1214226	1		
350	160	250	1214230	1		
400	200	315	1214234	1		
500	250	400	1214238	1		
550	315	450	1214242	1		
600	355	500	1214244	1		

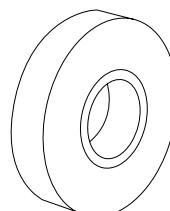


aquatherm ti WARNING TAPE

Art. no.	Width [mm]	PU	Box unit	Price € pc
50191	40	250 m		

Colour: yellow

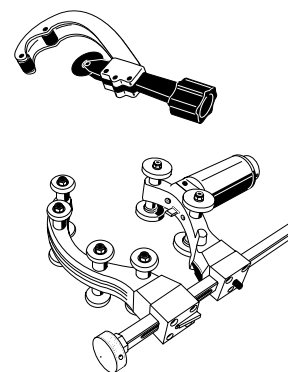
Printing in black: "Attention district heating pipeline"



Important: Do not cut the aquatherm pipes with customary hack saws.
aquatherm pipes can be cut with customary saws equipped with saw blades suitable for plastic.

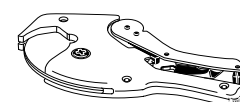
PIPE CUTTER

Art. no.	for pipe dimensions	PU	Box unit	Price € pc
50102	16-40mm	1		
50105	50-125mm	1		
50106	63-200mm	1		



PIPE CUTTER

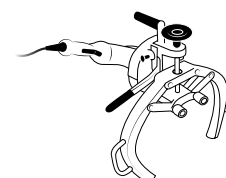
Art. no.	for pipe dimensions	PU	Box unit	Price € pc
50104	16-40mm	1		



ORBITAL CIRCULAR SAW

Art. no.	for pipe dimensions	PU	Box unit	Price € pc
50108	160-355mm	1		

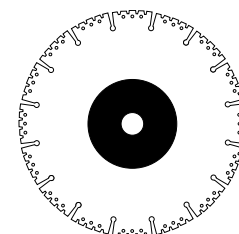
This orbital circular saw can be ordered directly from Rothenberger with Art. no. 55620 (www.rothenberger.com).
High-performance orbital circular saw for fast, precise, perfectly aligned and right-angled cutting of plastic pipes 160 – 355 mm at the building site or in the workshop.



CUTTING DISC FOR PLASTIC

Art. no.	Dimension	borehole	PU	Box unit	Price € pc
50107	ø 125mm	22,2 mm	1		
50109	ø 230mm	22,2 mm	1		

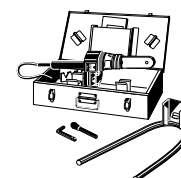
Application: for each angle grinder
Design: diamant galvanized cutting disc



MANUAL WELDING DEVICE (500 W)

Art. no.	for pipe dimensions	PU	Box unit	Price € pc
50336	ø 16-32mm	1		

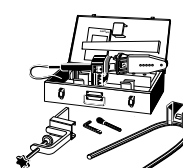
for one tool, with base and case for tools
Also available: 110 V (Art. no. 450336)



MANUAL WELDING DEVICE (800 W)

Art. no.	for pipe dimensions	PU	Box unit	Price € pc
50337	ø 16-63mm	1		

Also available: 110 V (Art. no. 450337)



MANUAL WELDING DEVICE (1400 W)

Art. no.	for pipe dimensions	PU	Box unit	Price € pc
50341	ø 50-125mm	1		

Also available: 110 V (Art. no. 450341)

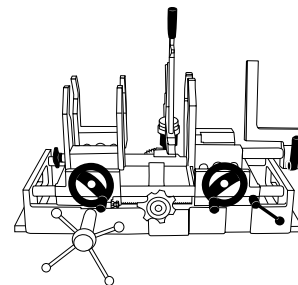


WELDING MACHINE (1400 W)

Art. no.	for pipe dimensions	PU	Box unit	Price € pc
50148	ø 50-125 mm - 230 V	1		

including welding tools 50 – 125 mm, roll stand and wooden transport case

Also available: 110 V (Art. no. 450148)

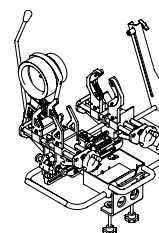


WELDING MACHINE (1400 W) LIGHT

Art. no.	for pipe dimensions	PU	Box unit	Price € pc
50145	ø 63-125mm	1		

including manual welding device (1400 W) and wooden transport case

Also available: 110 V (Art. no. 450145)

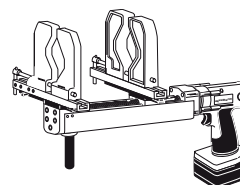


ELECTRIC WELDING JIG

Art. no.	for pipe dimensions	Weight [kg]	PU	Box unit	Price € pc
50161	63-125mm	24,000	1		

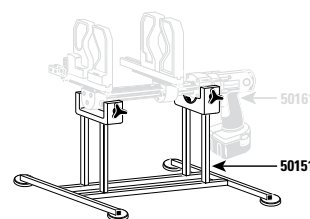
including standby accumulator, charging station and metal case

Also available: 110 V (Art. no. 450159)



BASE FOR ART. NO. 50161

Art. no.	Dimension	PU	Box unit	Price € pc
50151		1		



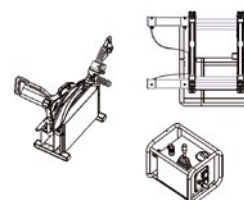
BUTT WELDING MACHINE-TWO-RING-MACHINE WIDOS

Art. no.	Dimension [mm]	Weight [kg]	PU	Box unit	Price € pc
50350*	ø 160 - 250	154,000	1		
50351*	ø 160 - 315	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

* Also available in design with 110 volt (Art. no. 450350 = ø 160 – 250 mm / 450351 = ø 160 – 315 mm)



BUTT WELDING MACHINE WIDOS

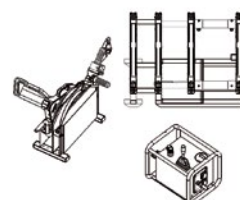
Art. no.	Dimension	Weight [kg]	PU	Box unit	Price € pc
50352*	ø 160-250mm	195,000	1		
50353*	ø 160-315mm	250,000	1		
50354*	ø 160-355mm	425,000	1		
50355*	ø 200-450mm	430,000	1		
50356**	ø 200-500mm	500,000	1		
50357**	ø 315-630mm	885,000	1		

The butt-welding-machine can be purchased directly from Widos (www.widos.de)

* Also available in design with 110 volt (Art. no. 450352 = ø 160 – 250 mm / 450353 = ø 160 – 315 mm /

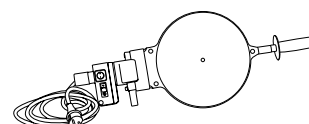
450354 = ø 160 – 355 mm / 450355 = ø 200 – 450 mm)

** special voltage on demand



MANUAL WELDING DEVICE (1500 W) FOR SADDLE WELDING Ø 50 – 160 MM

Art. no.	for pipe dimensions	PU	Box unit	Price € pc
50330	ø 50-160mm	1		



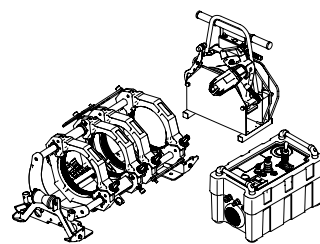
BUTT WELDING MACHINE RITMO

Art. no.	for pipe dimensions	Weight [kg]	PU	Box unit	Price € pc
50165*	ø 160-250mm	176,500	1		
50166*	ø 160-315mm	160,000	1		
50177	ø 160-355mm	336,500	1		
50169	ø 400-630mm	710,000	1		

including wooden transport box. The butt welding machine can be obtained directly from Ritmo (www.ritmo.it)

* Also available: 110 V (Art. no. 450165 for ø 160 – 250 mm / Art. no. 450166 for ø 160 – 315 mm)

Two-ring machine for pipes 160 – 355 mm available on request

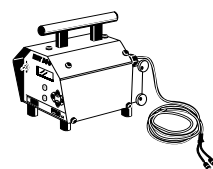


ELECTROFUSION DEVICE

Art. no.	for pipe dimensions	PU	Box unit	Price € pc
50175	ø 20-250mm	1		

For processing with electro-fusion-sockets Art. no. 17208 – 17238.

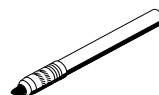
Special calibration-tools – obtainable on request – are required



TEMPERATURE PENCIL

Art. no.	Dimension	PU	Box unit	Price € pc
50190		1		

to check the correct welding temperature



SURFACE THERMOMETER

Art. no.	Dimension	PU	Box unit	Price € pc
50188		1		

to check the correct welding temperature



TEMPERATURE PREDECTIVE GLOVE

for tool change

Art. no.	Dimension	PU	Box unit	Price € pc
50195		2		



CLEANING WIPES

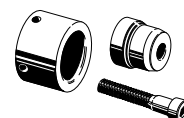
Art. no.	Dimension	PU	Box unit	Price € pc
50193	Box/100 towels	1		

for electrofusion sockets



WELDING TOOLS

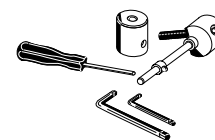
Art. no.	Dimension [mm]	PU	Box unit	Price € pc
50206	16	1		
50208	20	1		
50210	25	1		
50212	32	1		
50214	40	1		
50216	50	1		
50218	63	1		
50220	75	1		
50222	90	1		
50224	110	1		
50226	125	1		



REPAIR SET

Art. no.	Dimension	PU	Box unit	Price € pc
50307	7mm	1		
50311	11mm	1		

to close holes of up to 10 mm in the pipe (pipe repair stick Art. no. 60600)



PIPE REPAIR STICK

for pipe repairs

Art. no.	Dimension	PU	Box unit	Price € pc
60600	7/11mm	10		



aquatherm UNIVERSAL PEELING TOOLS

for aquatherm green pipe MF UV, aquatherm green pipe MF RP UV, aquatherm blue pipe MF RP UV and aquatherm blue pipe MF OT

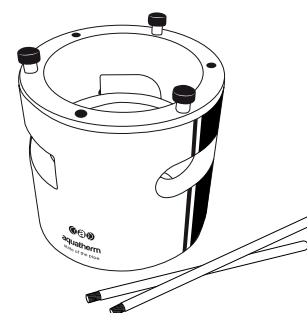


Required for the socket welding

(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)

Art. no.	Dimension [mm]	PU	Box unit	Price € pc
50479	20	1		
50480	25	1		
50481	32	1		
50482	40	1		
50483	50	1		
50484	63	1		
50485	75	1		
50486	90	1		
50487	110	1		
50488	125	1		
50501	Spare blade with screw (Set)	1		



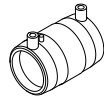
incl. bolts
for manual peeling

not suitable for aquatherm green pipe S, aquatherm blue pipe S, aquatherm green pipe MF, aquatherm green pipe MF RP, aquatherm green pipe TI, aquatherm blue pipe RP TI

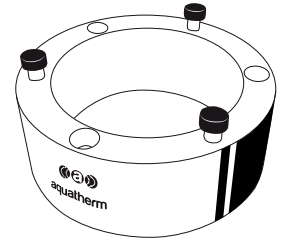
S = single, **MF** = multi-layer fibre, **OT** = oxygen-tight, **UV** = UV-resistant, **TI** = thermal insulation, **RP** = raised pressure

aquatherm EXTENSION FOR UNIVERSAL PEELING TOOL

Required for the electrofusion socket welding
(aquatherm electrofusion sockets on page 51)



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. 50479+50489)



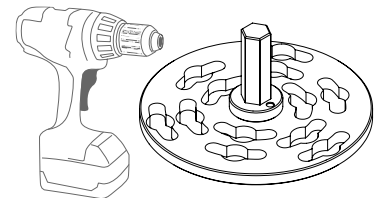
Art. no.	Dimension	PU	Box unit	Price € pc
50489	for peeling tool 20 mm Art. no. 50479	1		
50490	for peeling tool 25 mm Art. no. 50480	1		
50491	for peeling tool 32 mm Art. no. 50481	1		
50492	for peeling tool 40 mm Art. no. 50482	1		
50493	for peeling tool 50 mm Art. no. 50483	1		
50494	for peeling tool 63 mm Art. no. 50484	1		
50495	for peeling tool 75 mm Art. no. 50485	1		
50496	for peeling tool 90 mm Art. no. 50486	1		
50497	for peeling tool 110 mm Art. no. 50487	1		
50498	for peeling tool 125 mm Art. no. 50488	1		

ATTACHMENT PLATE FOR UNIVERSAL PEELING TOOL

In combination with or without extension for universal peeling tools for drilling machine

Art. no.	Dimension	PU	Box unit	Price € pc
50499	for universal peeling tool 50479 – 50484	1		
50500	for universal peeling tool 50485 – 50488	1		

Delivery without drilling machine!



UNIVERSAL PEELING TOOL-SET

20 – 63 mm

Art. no.	Dimension	PU	Box unit	Price € pc
50477	for ø 20 – 63 mm	1		

consisting of:

- 1x case
- Each 1x 50479 – 50484 peeling tool 20 – 63 mm
- 1x 50499 attachment plate for universal peeling tool 50479 – 50484
- 1x 50503 1 toggle-set
- 1x 50504 torx wrench
- 1x 50505 hexagon Allen key size 4
- 6x 99793 6 fixing screws for Art. no. 50489 – 50494 M5x25



UNIVERSAL PEELING TOOL-SET

75 – 125 mm

Art. no.	Dimension	PU	Box unit	Price € pc
50478	for ø 75 - 125 mm	1		

consisting of:

- 1 x case
- Each 1x 50485 – 50488 peeling tool 75 – 125 mm
- 1x 50500 attachment plate for universal peeling tool 50485 – 50488
- 1x 50503 1 toggle-set
- 1x 50504 torx wrench
- 1x 50505 hexagon Allen key size 4
- 6x 99794 6 fixing screws for Art. no. 50495 – 50498 M5x35

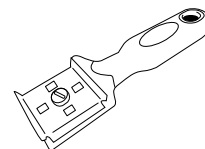


MANUAL SCRAPER FOR aquatherm blue pipe OT PIPES

Art. no.	Dimension	PU	Box unit	Price € pc
50509	with 4-fold blade, 35 mm wide	1		

For removal of OT-coat before butt-welding.

In addition the manual scraper can be used for removal of oxid coating for the E-socket welding.



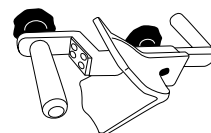
SPARE BLADE SET FOR ART. NO. 50509

Art. no.	Dimension	PU	Box unit	Price € Set
99909	2 pieces = 1 set	1		

CHAMFERING TOOL FOR aquatherm blue pipe OT AND UV PIPES

Art. no.	Dimension	PU	Box unit	Price € pc
50510	32-250mm	1		

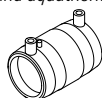
For removing the OT-layer before the butt-welding process and for breaking the edges of the blue pipe for processing the push-fit adapter and push-fit coupling.



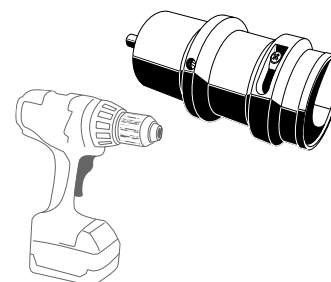
aquatherm PEELING TOOLS FOR ELECTROFUSION SOCKET WELDING (ART. NO.17208 – 17238)

for aquatherm green pipe S, aquatherm green pipe MF, aquatherm green pipe MF RP, aquatherm green pipe MF TI, aquatherm blue pipe S RP, aquatherm blue pipe MF RP and aquatherm blue pipe MF RP TI

Required to remove the **oxid coating**
(aquatherm electrofusion sockets on page 51)



Art. no.	Dimension [mm]	PU	Box unit	Price € pc
<i>In combination with a drilling machine</i>				
50558	20	1		
50560	25	1		
50562	32	1		
50564	40	1		
50566	50	1		
50568	63	1		
50570	75	1		
50572	90	1		



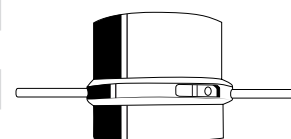
Art. no. 50558 – 50572

In combination with a drilling machine (not included!)

50440	spare blade	1		
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For manual peeling

50574	110	1		
50576	125	1		
50580	160	1		

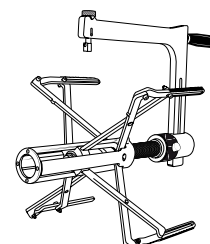


Art. no. 50574 – 50580

50441	spare blade	1		
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For manual peeling

50592	200 + 250	1		
99739	spare blade	1		



Art. no. 50592

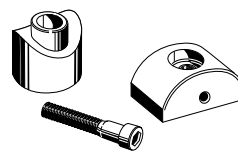
Not suitable for aquatherm green pipe UV, aquatherm green pipe MF RP UV, aquatherm blue pipe MF RP UV and aquatherm blue pipe MF RP OT

S = single, **MF** = multi-layer fibre, **OT** = oxygen-tight, **UV** = UV-resistant, **TI** = thermal insulation, **RP** = raised pressure

Spare parts such as blades can be requested under service@aquatherm.de!

SADDLE WELDING TOOLS

for welding saddles

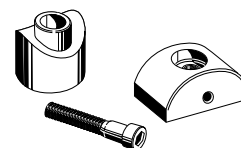


Art. no.	Dimension	PU	Box unit	Price € pc
50614	40x20/25mm	1		
50616	50x20/25mm	1		
50619	63x20/25mm	1		
50620	63x32mm	1		
50623	75x20/25mm	1		
50624	75x32mm	1		
50625	75x40mm	1		
50627	90x20/25mm	1		
50628	90x32mm	1		
50629	90x40mm	1		
50631	110x20/25mm	1		
50632	110x32mm	1		
50634	110x40mm	1		
50635	110x50mm	1		
50636	125x20/25mm	1		
50638	125x32mm	1		
50640	125x40mm	1		
50642	125x50mm	1		
50644	125x63mm	1		
50648	160x20/25mm	1		
50650	160x32mm	1		
50652	160x40mm	1		
50654	160x50mm	1		
50656	160x63mm	1		
50657	160x75mm	1		
50658	160x90mm	1		
50660	200x20/25mm	1		
50662	200x32mm	1		
50664	200x40mm	1		
50666	200x50mm	1		
50667	200x75mm	1		
50668	200x63mm	1		
50669	200x90mm	1		
50670	200x110mm	1		
50671	200x125mm	1		
50672	250x20/25mm	1		
50674	250x32mm	1		
50676	250x40mm	1		
50678	250x50mm	1		
50680	250x63mm	1		
50682	250x75mm	1		

SADDLE WELDING TOOLS

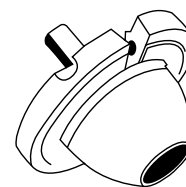
for welding saddles

Art. no.	Dimension	PU	Box unit	Price € pc
50684	250x90mm	1		
50686	250x110mm	1		
50688	250x125mm	1		
50690	315x63mm	1		
50692	315x75mm	1		
50694	315x90mm	1		
50696	315x110mm	1		
50698	315x125mm	1		
50699	315x160mm	1		
50712	355x63mm	1		
50714	355x75mm	1		
50716	355x90mm	1		
50718	355x110mm	1		
50720	355x125mm	1		
50722	355x160mm	1		
50726	400-630x63mm	1		
50728	400-500x75mm	1		
50730	630x75mm	1		
50732	400-500x90mm	1		
50734	630x90mm	1		
50736	400-450x110mm	1		
50738	500x110mm	1		
50740	630x110mm	1		
50742	400x125mm	1		
50744	450-500x125mm	1		
50746	630x125mm	1		



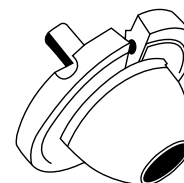
SADDLE PEELING TOOLS FOR OT UND UV PIPES Ø 50 – 125 mm

Art. no.	Dimension	PU	Box unit	Price € pc
50921	for welding saddles 20 & 25 mm	1		
50922	for ø 32 mm	1		
50924	for ø 40 mm	1		
50926	for ø 50 mm	1		
50928	for ø 63 mm	1		



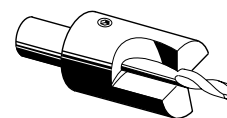
SADDLE PEELING TOOLS FOR OT UND UV PIPES Ø 160 – 250 mm

Art. no.	Dimension	PU	Box unit	Price € pc
50421	for welding saddles ø 20 & 25 mm	1		
50422	for welding saddles ø 32 mm	1		
50424	for welding saddles ø 40 mm	1		
50426	for welding saddles ø 50 mm	1		
50428	for welding saddles ø 63 mm	1		



DRILLS for installation of weld-in saddles

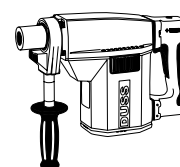
Art. no.	Dimension	PU	Box unit	Price € m/pc
50940	20&25mm (40-160mm)	1		
50941	20&25mm (63-250mm)	1		
50942	32mm	1		
50944	40mm	1		
50946*	50mm	1		
50948*	63mm	1		



* may only be used in fixed drilling machines!

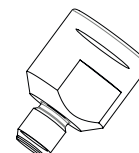
DRILL DUSS DIA303

Art. no.	Dimension	PU	Box unit	Price € pc
50978		1		



CHUCK ADAPTER FOR ART. NO. 50971

Art. no.	Dimension	PU	Box unit	Price € pc
50969		1		



KEYLESS CHUCK clamping range 1,5 – 13mm

Art. no.	Dimension	PU	Box unit	Price € pc
50971		1		



HOLE SAW HOLDER LSA3

Art. no.	Dimension	PU	Box unit	Price € pc
50976	1/2" for drill chuck	1		

HOLE SAW HOLDER LSA2

Art. no.	Dimension	PU	Box unit	Price € pc
50974	1/2" for DUSS-machines	1		

SADDLE-HOLE SAW FOR BRANCH *for assembly of weld-in saddles*

Art. no.	Dimension	Required items	PU	Box unit	Price € pc
50987	75mm	50973	1		
50988	90mm	50973	1		
50989	110mm	50975 & 50976	1		
50990	125mm	50975 & 50976	1		
50991	160mm	50975 & 50976	1		

QUICK CHANGE ADAPTER 75 – 90MM

Art. no.	Dimension	PU	Box unit	Price € pc
50973	for Art. no. 50987 – 50988	1		

CENTER DRILL LSZ 1

Art. no.	Dimension	PU	Box unit	Price € pc
50975	with capture sleeve	1		

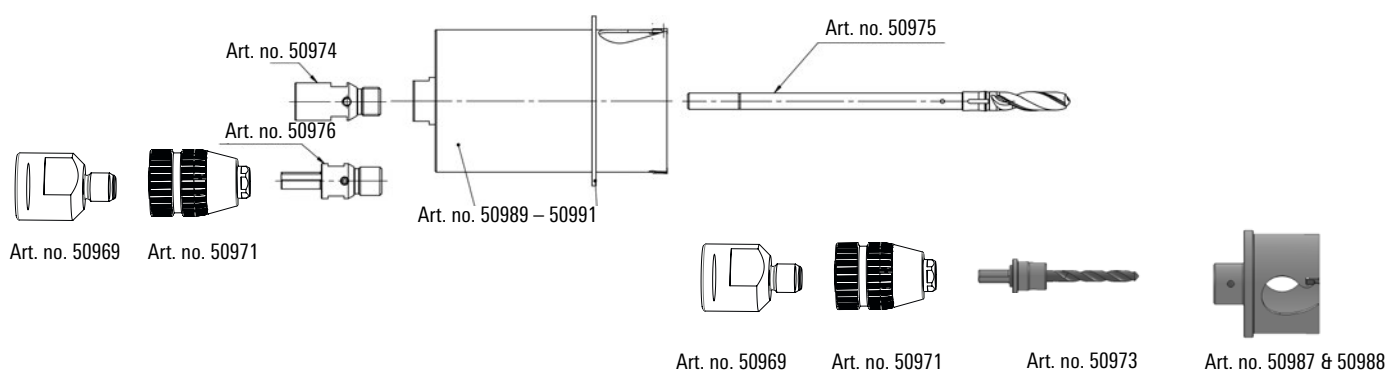
DRILL RIG FOR DUSS-DRILL

Art. no.	Dimension	PU	Box unit	Price € pc
50977		1		

WELDING FIXTURE FOR DRILL RIG 50977

Art. no.	Dimension	PU	Box unit	Price € pc
50979		1		

HOLE SAW SYSTEM



HOT TAPPING TOOL

for drilling of pipes under pressure

The hot tapping tool (Art. no. 50890) is used for drilling pipes for branch connections in the dimensions 40 and 63 mm.

The PP-main pipes aquatherm green pipe and blue pipe with the **pipe structure S and MF UV** from 75 mm to 630 mm can be drilled under **medium pressure (water) of maximum 6 bar** and a **medium temperature of 10 – 60 °C**.

Notice: do not use with aquatherm blue pipe OT

HOT TAPPING TOOL

for weld-on saddle set with ball valve

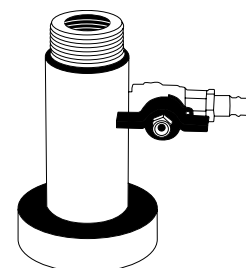
Art. no.	Dimension	PU	Box unit	Price € pc
50890	for dimension 40 + 63mm	1		



ADAPTER FOR WELD-ON SADDLE SET WITH BALL VALVE 40 MM

for installation under pressure

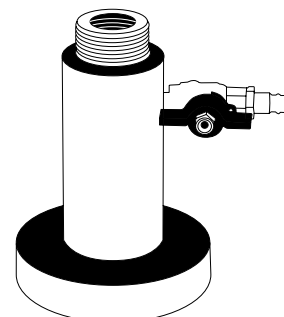
Art. no.	Dimension [mm]	PU	Box unit	Price € pc
50891	40	1		



ADAPTER FOR WELD-ON SADDLE SET WITH BALL VALVE 63 MM

for installation under pressure

Art. no.	Dimension [mm]	PU	Box unit	Price € pc
50892	63	1		

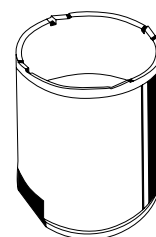


PP-MILLING CUTTER FOR WELD-ON SADDLE SET WITH BALL VALVE 40 MM

for installation under pressure

for Art. no. 50891

Art. no.	Dimension [mm]	PU	Box unit	Price € pc
50893	40	1		

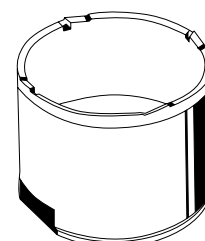


PP-MILLING CUTTER FOR WELD-ON SADDLE SET WITH BALL VALVE 63 MM

for installation under pressure

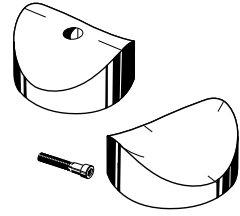
for Art. no. 50892

Art. no.	Dimension [mm]	PU	Box unit	Price € pc
50894	63	1		



aquatherm WELD-ON SADDLE TOOL

for weld-on saddle set with ball valve for installation under pressure for hot tapping tool Art. no. 50890
Not suitable for aquatherm blue pipe OT!



Art. no.	Dimension	PU	Box unit	Price € pc
50760	75x40mm	1		
50761	90x40mm	1		
50762	110x40mm	1		
50763	125x40mm	1		
50764	125x63mm	1		
50765	160x40mm	1		
50766	160x63mm	1		
50767	200x40mm	1		
50768	200x63mm	1		
50769	250x40mm	1		
50770	250x63mm	1		
50771	315x63mm	1		
50772	355x63mm	1		
50773	400-630x63mm	1		

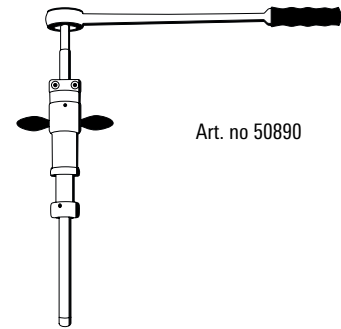
HOT TAPPING TOOL

for drilling pipes under pressure

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.

The following accessories are required for processing:

adapter for ball valve 40 mm	Art. no. 50891
adapter for ball valve 63 mm	Art. no. 50892
PP-milling cutter 40 mm	Art. no. 50893
PP-milling cutter 63 mm	Art. no. 50894
aquatherm weld-on saddle tool	Art. no. 50760 – 50773
aquatherm weld-on saddle set with ball valve (p. 106)	Art. no. 16175 – 16300



Art. no 50890

Art. no 50893

Art. no 50894

Art. no 50891

Art. no 50892

Art. no
16175
16181
16188
16196
16212
16231
16251

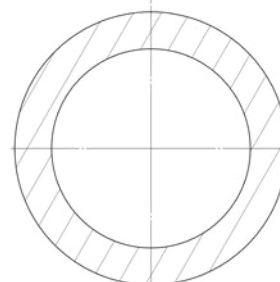
Art. no
16198
16216
16233
16253
16260
16300

In combination with
weld-on saddle tool

In combination with
weld-on saddle tool

Art. no
50760
50761
50762
50763
50765
50767
50769

Art. no
50764
50766
50768
50770
50771
50772
50773



WELDING PROCESS TOOLS AND EQUIPMENT

for pipes with additional outer layer/protection layer

aquatherm green pipe

SDR 7.4 MF UV || SDR 9 MF RP UV

aquatherm blue pipe

SDR 7.4 MF UV || SDR 9/11/17.6 MF RP UV

SDR 7.4 MF OT || SDR 9/11 MF RP OT

PIPES & FITTINGS

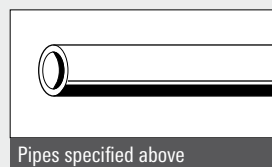
CUTTING

PEELING

DRILLING

SADDLE PEELING /
CHAMFERING

1. SOCKET WELDING 16 – 125 mm

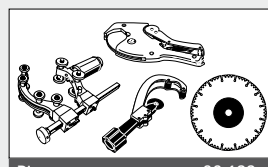


Pipes specified above



Socket welding fittings

from p. 23



Pipe cutter p. 96, 122

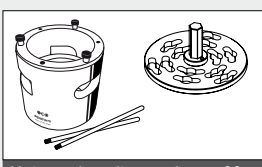
50104 Ø 16 – 40 mm

Pipe cutter p. 96

50102/50105/50106 Ø 16 – 200 mm

Cutting disc p. 96

50107 Ø 125 mm/50109 Ø 230 mm



Universal peeling tool p. 99

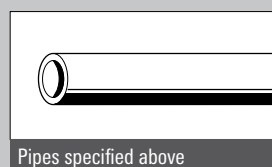
50479 – 50488

20 – 125 mm (16 mm on request)

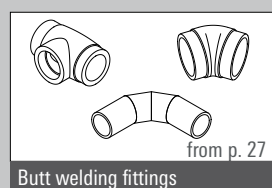
+ (opt.) Attachment plate* p. 100

50499/50500

2. BUTT WELDING 160 – 630 mm

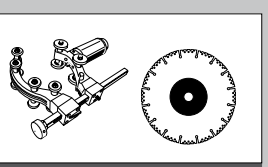


Pipes specified above



Butt welding fittings

from p. 27



Pipe cutter p. 96

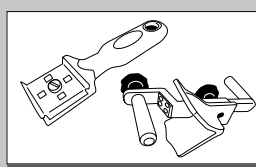
50106 Ø 110 – 200 mm

Orbital circular saw p. 96

50108 Ø 160 – 355 mm

Cutting disc p. 96

50107 Ø 125 mm/50109 Ø 230 mm



Scraper/Chamfering tool

for OT pipes

p. 101

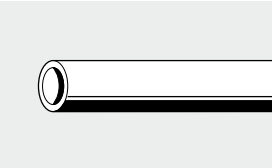
50509

99909

Cutter for UV-pipes

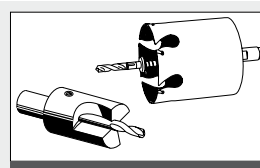
not available with aquatherm!

3. SADDLE WELDING 20 – 160 mm



Weld-in saddles

from p. 41



for OT pipes

p. 104

Saddle welding tools *

50921 – 50928 for Ø 50 – 125 mm

50421 – 50428 for Ø 160 – 250 mm

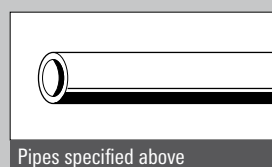
Drill p. 104

50940 – 50948 50987 – 50991

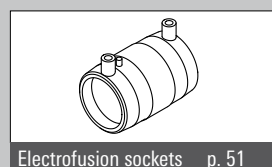
20 – 63 mm 75 – 315 mm

*From 50 mm we recommend
the application of drill presses.

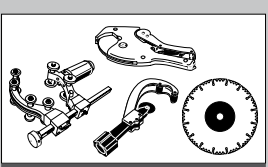
4. ELECTROFUSION SOCKET WELDING 20 – 125 mm



Pipes specified above



Electrofusion sockets p. 51



Pipe cutter p. 96, 122

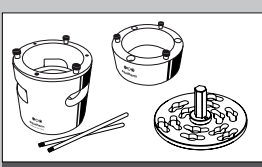
50104 Ø 16 – 40 mm

Pipe cutter p. 96

50102/50105/50106 Ø 16 – 200 mm

Cutting disc p. 96

50107 Ø 125 mm/50109 Ø 230 mm



Universal peeling tool p. 99

50479 – 50488 for Ø 20 – 125 mm

+ Extension p. 100

50489 – 50498

+ (opt.) Attachment plate* p. 100

50499/50500

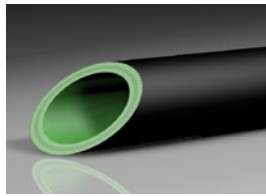
PIPES & FITTINGS

CUTTING

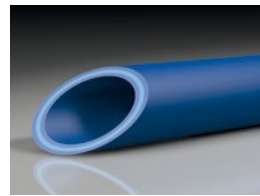
PEELING

DRILLING

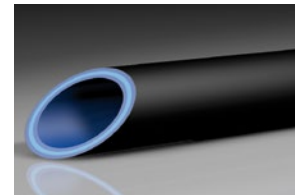
SADDLE PEELING /
CHAMFERING



aqualtherm green pipe
SDR 7.4 MF UV || SDR 9 MF RP UV
Page 15



aqualtherm blue pipe
SDR 7.4 MF OT
SDR 9/11 MF RP OT Page 21



aqualtherm blue pipe
SDR 7.4 MF UV
SDR 9/11/17.6 MF RP UV Page 20

CLEANING

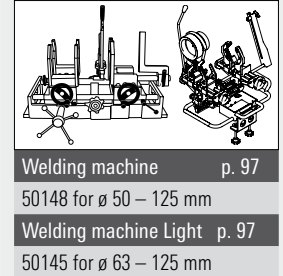
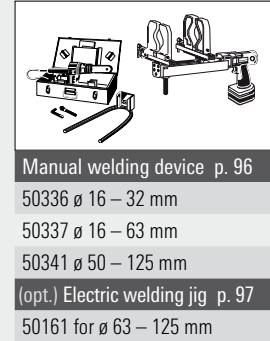
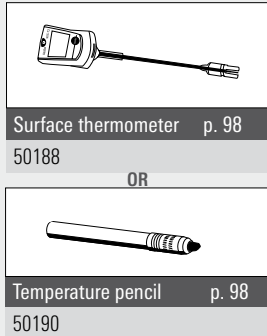
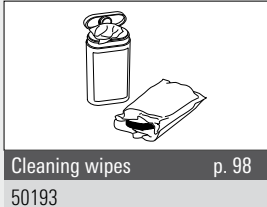
MEASUREMENT OF TEMPERATURE

WELDING TOOLS

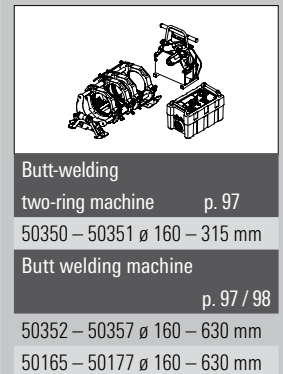
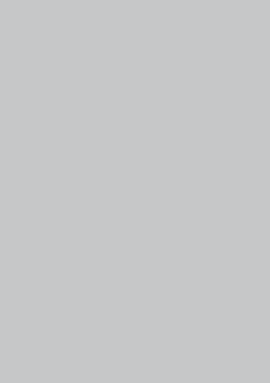
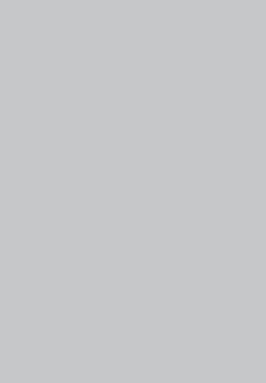
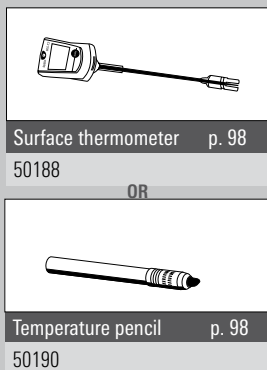
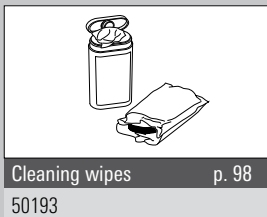
MANUAL WELDING DEVICES

OR

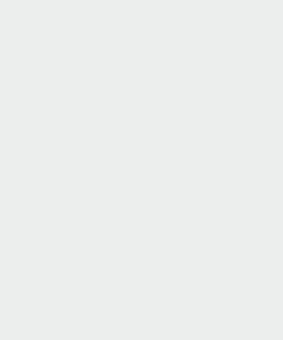
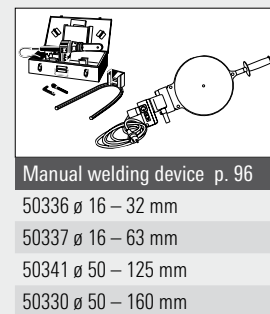
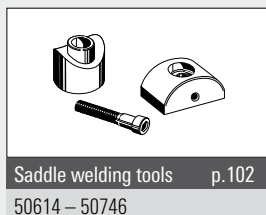
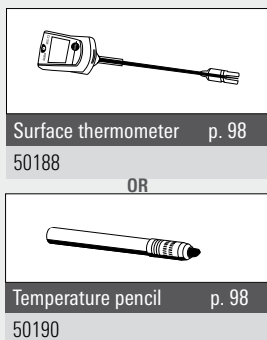
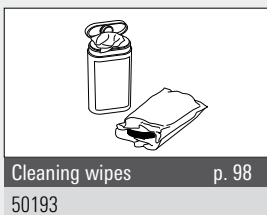
WELDING MACHINES



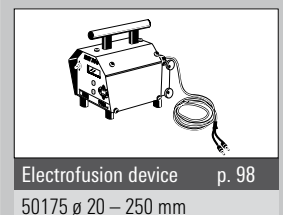
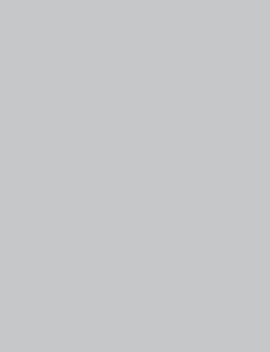
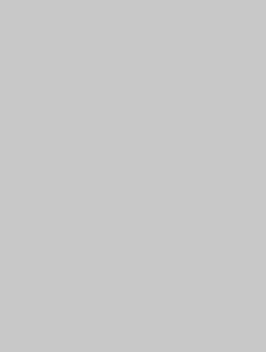
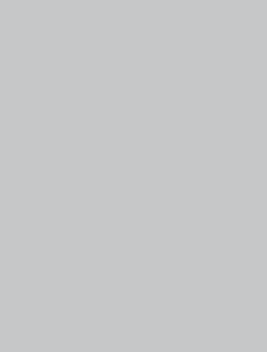
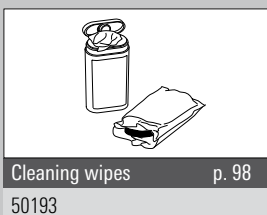
1



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4

CLEANING

MEASUREMENT OF TEMPERATURE

WELDING TOOLS

MANUAL WELDING DEVICES

OR

WELDING MACHINES

WELDING PROCESS TOOLS AND EQUIPMENT

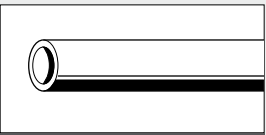
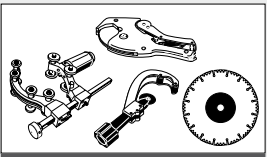
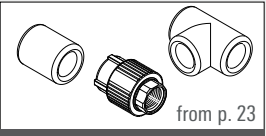
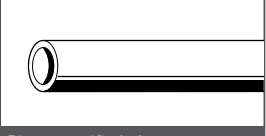
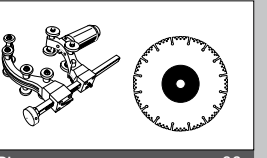
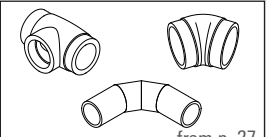
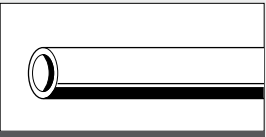
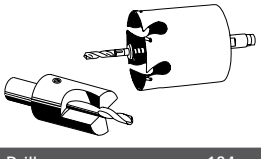
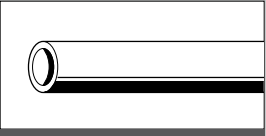
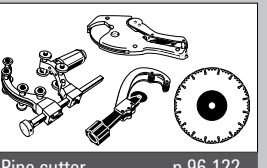
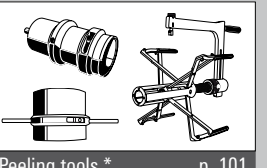
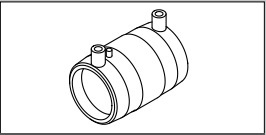
for pipes without additional outer layer/protection layer

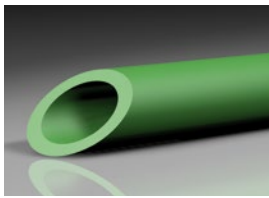
aquatherm green pipe

SDR 6/7.4/11 S || SDR 7.4 || SDR 9 MF RP

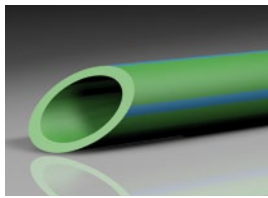
aquatherm blue pipe

SDR 11 S || SDR 7.4 MF || SDR 9/11/17.6 MF RP

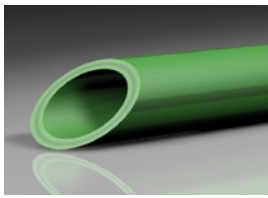
PIPES & FITTINGS		CUTTING		PEELING		DRILLING		SADDLE PEELING / CHAMFERING	
1. SOCKET WELDING 16 – 125 mm									
1	 Pipes specified above	 Pipe cutter p.96,122 50104 ø 16 – 40 mm Pipe cutter p. 96 50102/50105/50106 ø 16 – 200 mm Cutting disc p. 96 50107 ø 125 mm/50109 ø 230 mm							
	 Socket welding fittings from p. 23								
2. BUTT WELDING 160 – 630 mm									
2	 Pipes specified above	 Pipe cutter p. 96 50106 ø 110 – 200 mm Orbital circular saw p. 96 50108 ø 160 – 355 mm Cutting disc p. 96 50107 ø 125 mm/50109 ø 230 mm							
	 Butt welding fittings from p. 27								
3. SADDLE WELDING 20 – 160 mm									
3	 Pipes specified above				 Drill p. 104 50940 – 50948 50987 – 50991 20 – 63mm 75 – 315mm <i>From 50 mm we recommend the application of drill presses.</i>				
	 Weld-in saddles from p. 41								
4. ELECTROFUSION SOCKET WELDING 20 – 250 mm									
4	 Pipes specified above	 Pipe cutter p.96,122 50104 ø 16 – 40 mm Pipe cutter p. 96 50102/50105/50106 ø 16 – 200 mm Cutting disc p. 96 50107 ø 125 mm/50109 ø 230 mm	 Peeling tools * p. 101 50558 – 50572 20 – 90 mm Manual peeling tools p. 101 50574 – 50592 110 – 250 mm						
	 Electrofusion sockets p. 51								
PIPES & FITTINGS		CUTTING		PEELING		DRILLING		SADDLE PEELING / CHAMFERING	



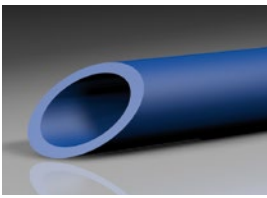
aquaTherm green pipe
SDR 6/7.4 S
Page 16



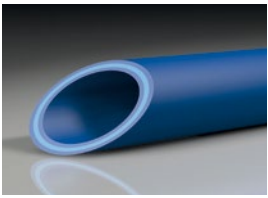
aquaTherm green pipe
SDR 11 S
Page 17



aquaTherm green pipe
SDR 7.4 MF / SDR 9 MF RP
Page 13



aquaTherm blue pipe
SDR 11 S
Page 21



aquaTherm blue pipe
SDR 7.4 MF
SDR 9/11/17.6 MF RP Page 19

CLEANING

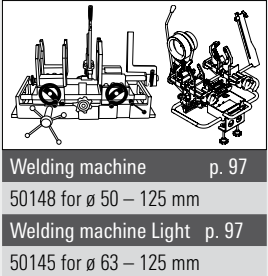
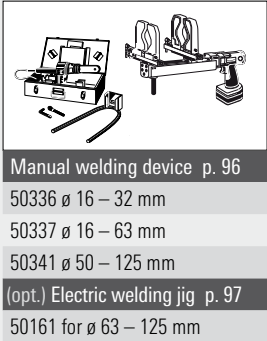
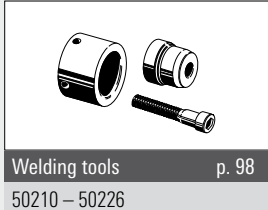
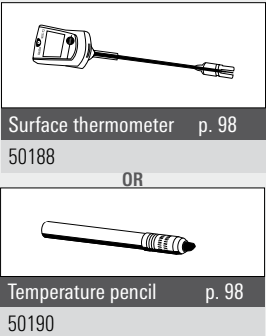
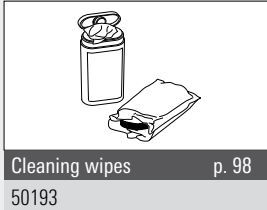
MEASUREMENT
OF TEMPERATURE

WELDING TOOLS

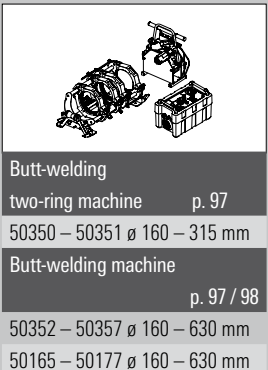
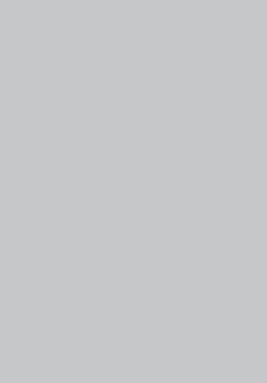
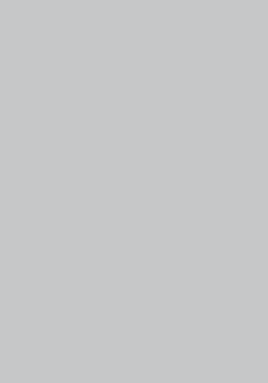
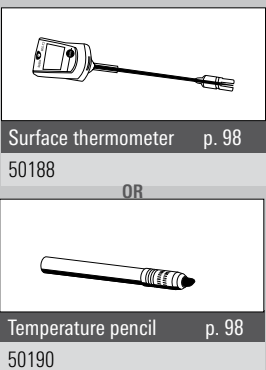
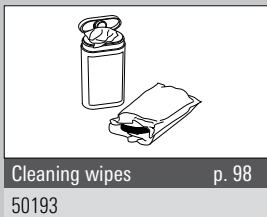
MANUAL WELDING DEVICES

OR

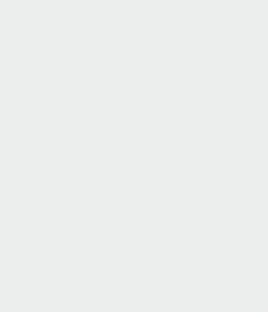
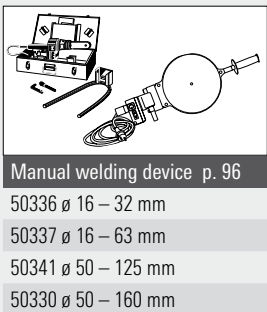
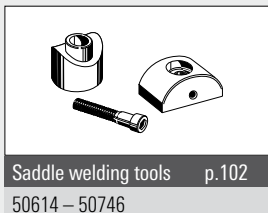
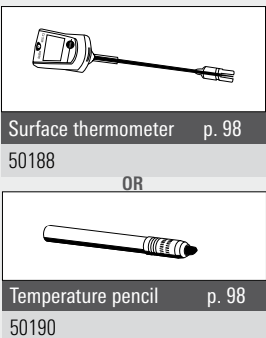
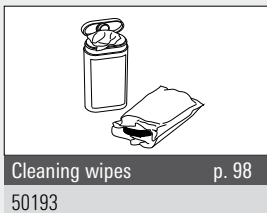
WELDING MACHINES



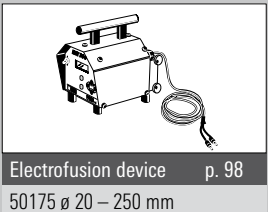
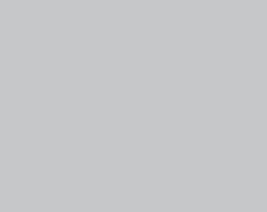
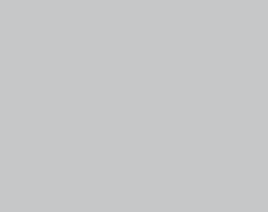
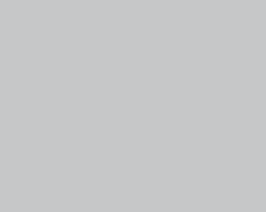
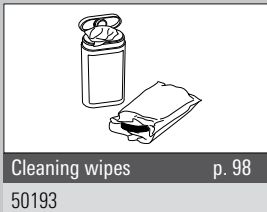
1



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3



4

CLEANING

MEASUREMENT
OF TEMPERATURE

WELDING TOOLS

MANUAL WELDING DEVICES

OR

WELDING MACHINES

SLIDING SLEEVE TECHNOLOGY TOOLS AND EQUIPMENT

aquatherm grey pipe

Multi-layer metal composite pipe 16 – 32 mm

aquatherm orange system

PE-RT-pipe 16 – 25 mm

aquatherm black system

Drywall-heating element
with sliding sleeve connection

PIPES & FITTINGS

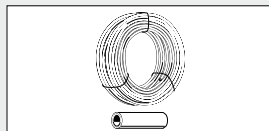
FALSE JAWS

EXPANDING

TOOL INSERTS

MOUNTING

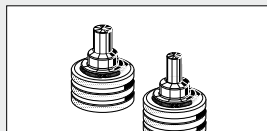
1. MANUAL ASSEMBLY MULTI-LAYER METAL COMPOSITE PIPE 16 – 32 mm



Pipes specified above



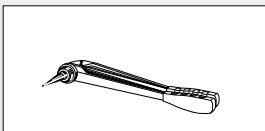
Fittings with sliding sleeves
from p. 116



False jaws p. 122

50857 – 50862

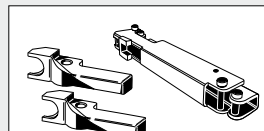
ø 16 – 32 mm



Expanding tool p. 122

50800

ø 10 – 40 mm

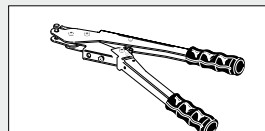


Tool insert p. 123

50825 – 50832 for ø 14 – 32 mm

+(opt.) Angle attachment p.123

50803



Mounting tool p. 123

50802

ø 10 – 40 mm

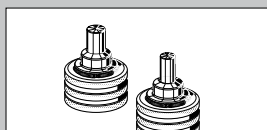
2. MACHINE ASSEMBLY MULTI-LAYER METAL COMPOSITE PIPE 16 – 32 mm



Pipes specified above



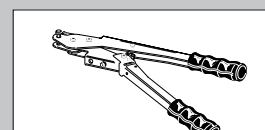
Fittings with sliding sleeves
from p. 116



False jaws p. 122

50857 – 50862

ø 16 – 32 mm



Mounting tool p. 123

50802

ø 10 – 40 mm

PIPES & FITTINGS

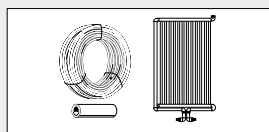
FALSE JAWS

EXPANDING

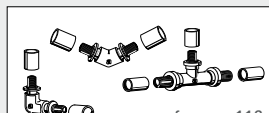
TOOL INSERTS

MOUNTING

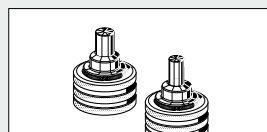
3. MANUAL ASSEMBLY PE-RT-PIPE 16 – 25 mm, DRY WALL HEATING ELEMENT sliding sleeve connection



Pipes specified above



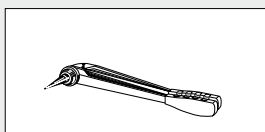
Fittings with sliding sleeves
from p. 116



False jaws p. 103

50815 – 50820

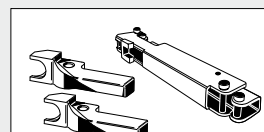
ø 14 – 25 mm



Expanding tool p. 122

50800

ø 10 – 40 mm

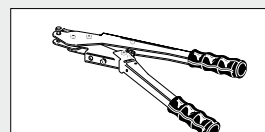


Tool insert p. 123

50825 – 50832 for ø 14 – 42 mm

+(opt.) Angle attachment p.123

50803

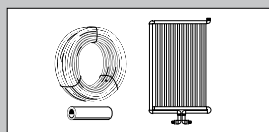


Mounting tool p. 123

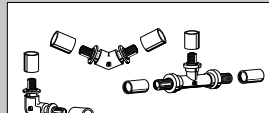
50802

ø 10 – 40 mm

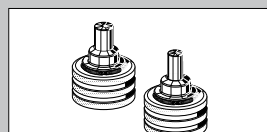
4. MACHINE ASSEMBLY PE-RT PIPE 16 – 25 mm, DRY WALL HEATING ELEMENT sliding sleeve connection



Pipes specified above



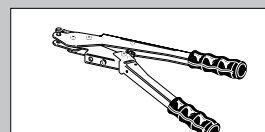
Fittings with sliding sleeves
from p. 116



False jaws p. 122

50815 – 50820

ø 14 – 25 mm



Mounting tool p. 123

50802

ø 10 – 40 mm



aquatherm grey pipe

POTABLE WATER AND HEATING CONNECTION SYSTEM

aquatherm grey pipe can be used for drinking water installations or radiator connections. The installation pipe system consists of high-quality multi-layer metal-composite pipe. Depending on the application, you can choose between insulated and non-insulated pipes. All pipes are DVGW certified and are oxygen-tight.

aquatherm grey pipe is characterized by its good flexibility and high dimensional stability. It is connected using sliding sleeve technology, which offers significant advantages for flexible floor connections. Whether as radiator connections or in sanitary wall installations: permanent tight connections between small dimensions connecting pipes, brass, and plastic fittings can be created easily and with minimal tools.

The typical fields of application for aquatherm grey pipe are potable water installation and radiator connection.

- ▶ Extensive product range
- ▶ Dimension 16 – 32 mm
- ▶ No corrosion or incrustation
- ▶ Absolutely safe and proven connection technology
- ▶ Oxygen barrier
- ▶ Suitable for each water quality
- ▶ Quick and safe installation
- ▶ By means of bending tool even narrow installation situations are feasible
- ▶ Low weight
- ▶ Combinable with the **aquatherm green pipe** system
- ▶ Pressure and temperature resistant

Fields of application



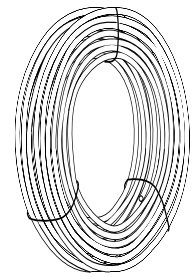
aqualtherm grey pipe MULTI-LAYER-METAL COMPOSITE PIPE

oxygen-tight

Art. no.	Dimension [mm]	PU	Box unit	Price € m
... ring				
777070	16	100		
777072	20	100		
... in length à 4 m				
777050	16	100		
777052	20	65		
777054	26	45		
777056	32	35		

Material: PE-X Application field: Potable water/heating
 Colour: white Operating temperature: 70 °C
 Delivery form: ring/straight length DVGW-Registr.-No.: DW-8216 BT0628
 DW-8217 AT2505
 According to: DIN 4726 oxygen-tight

Please use only the suitable expansion tools Art. no. 50857, 50860, 50862 for the multi-layer-metal composite pipe.



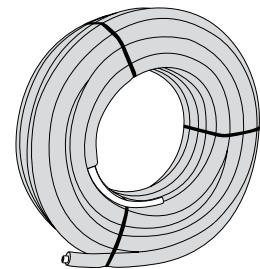
aqualtherm grey pipe MULTI-LAYER-METAL COMPOSITE PIPE

oxygen barrier, with Polyethylene foam insulation and tear-proof PE-protection layer

Art. no.	Dimension	PU	Box unit	Price € m
777030	16x2mm	50		
777032	20x2mm	50		

Material: PE-X Application field: Potable water/heating
 Colour: white DVGW-Registr.-No.: DW-8216 BT0628
 DW-8217 AT2505
 Delivery form: ring According to: DIN 4726 oxygen-tight
 Operating temperature: 70 °C Thermal conductivity of insulation 0,040 W/mK
 Insulation thickness: 10 mm

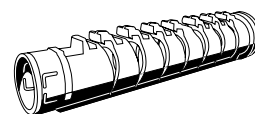
Please use only the suitable expansion tools Art. no. 50857, 50860, 50862 for the multi-layer-metal composite pipe.



aqualtherm grey pipe SNAP IN RADIUS SUPPORT

Art. no.	for pipe dimensions	PU	Price € pc
79566	16 & 17mm	25	

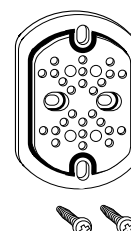
Material: PE
 Colour: black



aqualtherm grey pipe SOUND INSULATION PLATE

for aqualtherm green pipe and aqualtherm grey pipe back plate elbow

Art. no.	Dimension	PU	Price € pc
79080		2	

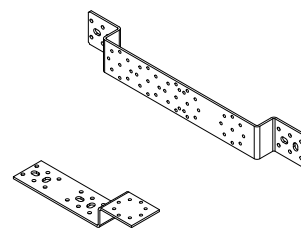


See Z-measures, page 59,114.

MOUNTING RAIL (TWIN)

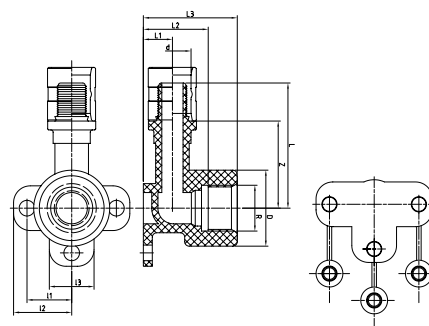
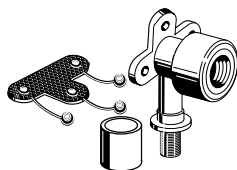
Art. no.	Dimension	PU	Price € pc
79095	twin	2	

galvanized, for fixing of back plate
See Z-measures, page 59,115.



aquatherm grey pipe BACK PLATE ELBOW

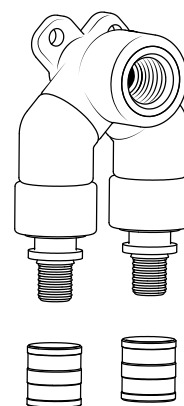
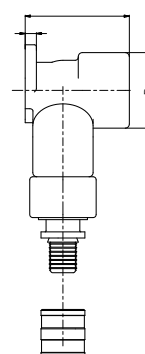
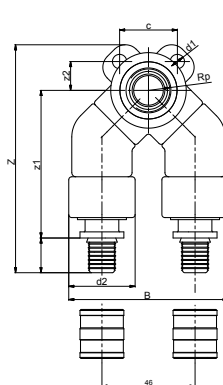
including sliding sleeve – for aquatherm grey pipe Art. no. 777050 ... 777072



Art. no.	d [mm]	R	D [mm]	Z [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	I1 [mm]	I2 [mm]	I3 [mm]	PU	Price € m/pc
779000	16	1/2"	34,0	39,0	56,0	13,0	29,0	42,0	20,0	26,0	20,0	1	
779002	20	3/4"	40,0	42,0	59,0	13,0	29,0	42,0	25,0	31,0	20,0	1	
779004	20	1/2"	34,0	39,0	56,0	13,0	29,0	42,0	0,00	26,0	20,0	1	

Material: PPSU/brass
including acoustic panel (PP)
proper to sound insulation plate Art. no. 79080

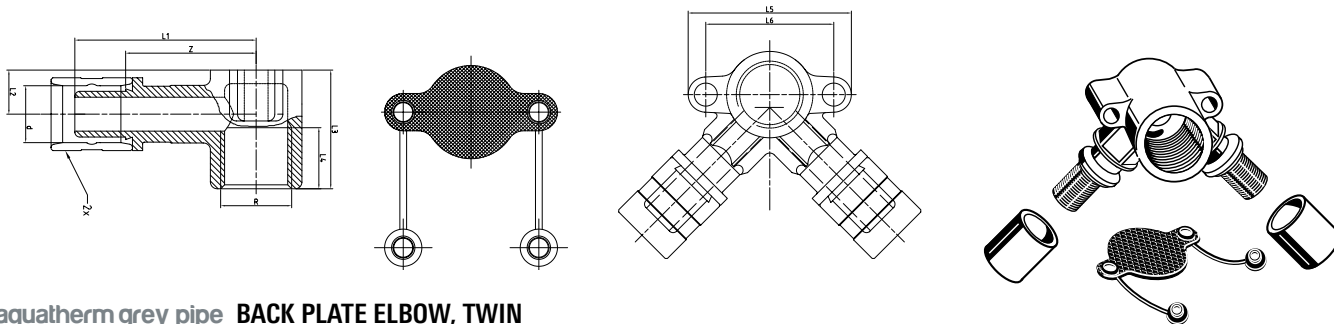
PRINCIPLE OF FLOW-THROUGH BACK PLATE ELBOW



aquatherm grey pipe FLOW-THROUGH BACK PLATE ELBOW, PARALLEL

including sliding sleeve – for aquatherm grey pipe Art. no. 777050 ... 777072

Art. no.	Dimensions	D [mm]	d1 [mm]	d2 [mm]	Z [mm]	z1 [mm]	z2 [mm]	PU	Box unit	Price € pc
779050	16 mm x 1/2" f x 16 mm	37,0	7,0	34,5	111,7	72,3	14,1	1		
779052	20 mm x 1/2" f x 20 mm	37,0	7,0	32,5	111,7	72,3	14,1	1		

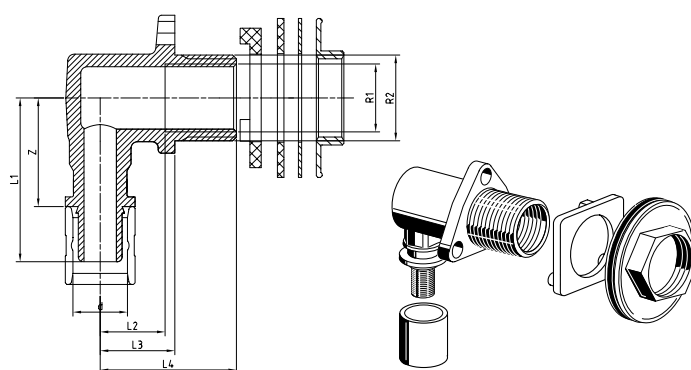


aquatherm grey pipe BACK PLATE ELBOW, TWIN

including sliding sleeves
for aquatherm grey pipe Art. no. 777050 ... 777072

Art. no.	d [mm]	Z [mm]	L1 [mm]	L2 [mm]	L3 [mm]	R	L4 [mm]	L5 [mm]	PU	Price € m/pc
779010	16	38,5	53,5	13,0	35,0	1/2"	18,0	51,0	1	

Material: brass
including acoustic panel (PP)

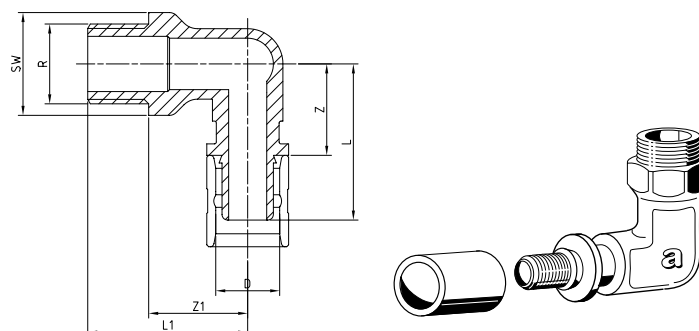


aquatherm grey pipe CONNECTING ELBOW FOR CONCEALED CISTERN

including sliding sleeve – for aquatherm grey pipe Art. no. 777050 ... 777072

Art. no.	d [mm]	Z [mm]	L1 [mm]	L2 [mm]	L3 [mm]	R	L4 [mm]	L5 [mm]	PU	Price € m/pc
779020	16	33,5	50,5	20,0	23,0	1/2"	42,0	51,0	1	

Material: brass
including counter nut, gasket and spring washer

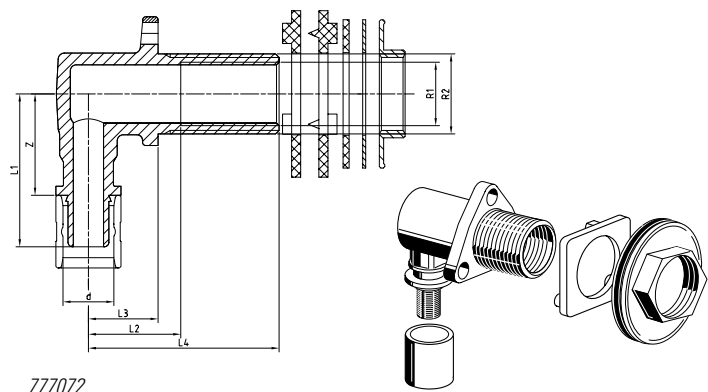


aquatherm grey pipe TRANSITION ELBOW

including sliding sleeve – for aquatherm grey pipe Art. no. 777050 ... 777072

Art. no.	D [mm]	R	Z [mm]	Z1 [mm]	L [mm]	L1 [mm]	SW [mm]	PU	Price € m/pc
779030	16	1/2"	24,0	26,0	41,0	42,0	24	2	
779032	20	1/2"	24,0	26,0	41,0	42,0	24	2	
779033	20	3/4"	25,5	21,0	42,5	38,0	-	2	
779034	25	3/4"	26,0	21,0	44,0	38,0	-	2	
779038	32	1"	33,0	29,0	54,0	47,0	-	2	

Material: brass

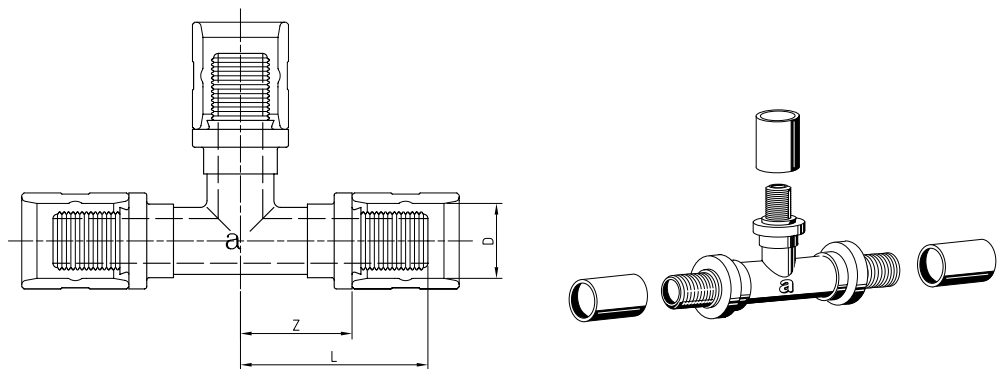


aquatherm grey pipe CONNECTING ELBOW

for dry construction, including sliding sleeve – for aquatherm grey pipe Art. no. 777050 ... 777072

Art. no.	d [mm]	R1	Z [mm]	L1 [mm]	R2	L2 [mm]	L3 [mm]	L4 [mm]	PU	Price € m/pc
779040	16	1/2"	33,5	50,5	3/4"	30,5	23,0	63,0	2	

Material: brass
including counternut, gasket and 2 spring washers

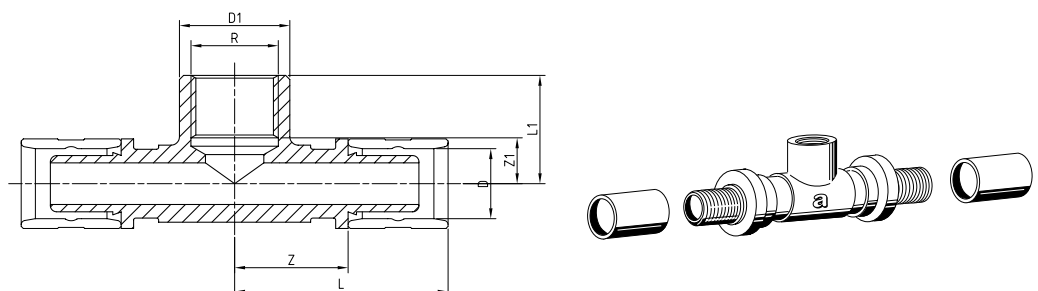


aquatherm grey pipe TEE

including sliding sleeves – for aquatherm grey pipe Art. no. 777050 ... 777072

Art. no.	D [mm]	Z [mm]	L [mm]	PU	Price € m/pc
779100	16	25,0	42,0	2	
779102	20	24,0	41,0	2	
779104	25	27,0	45,0	2	
779106	32	33,8	54,8	2	

Material: PPSU/brass

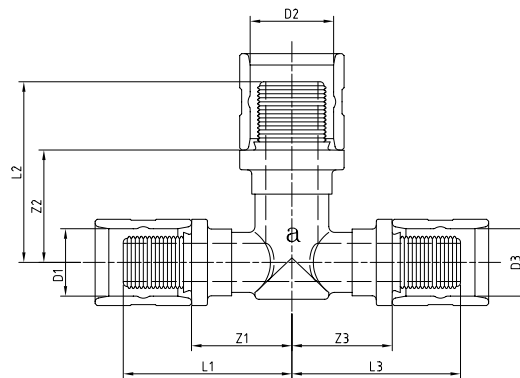
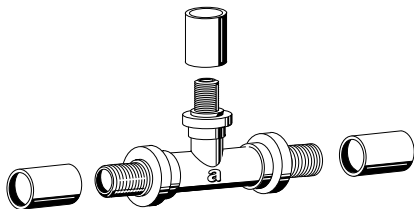


aquatherm grey pipe TEE WITH FEMALE THREAD

including sliding sleeve – for aquatherm grey pipe Art. no. 777050 ... 777072

Art. no.	D [mm]	R	Z [mm]	L [mm]	D1 [mm]	L1 [mm]	Z1 [mm]	PU	Price € m/pc
779160	16	1/2"	27,3	44,3	26,5	26,0	11,0	2	
779162	20	1/2"	26,3	43,3	26,3	26,0	11,0	2	
779163	25	1/2"	30,0	54,0	32,0	28,0	9,0	2	
779164	25	3/4"	31,0	48,0	32,0	28,0	11,0	2	
779166	32	3/4"	31,0	52,0	32,0	30,0	13,0	1	

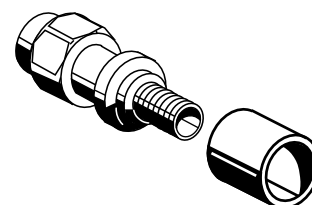
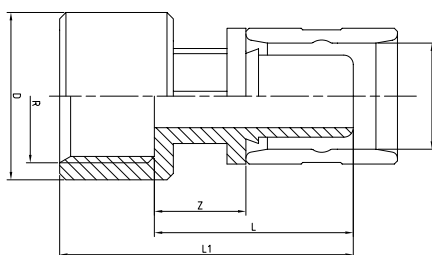
Material: brass



aquatherm grey pipe REDUCING TEE

including sliding sleeves – for aquatherm grey pipe Art. no. 777050 ... 7770724

Art. no.	D1 [mm]	D2 [mm]	D3 [mm]	Z1 [mm]	L1 [mm]	Z2 [mm]	L2 [mm]	Z3 [mm]	L3 [mm]	PU	Price € m/pc
779110	16	20	16	25,0	42,0	28,0	45,0	25,0	42,0	2	
779112	20	16	16	25,0	42,0	25,0	42,0	25,0	42,0	2	
779114	20	16	20	25,0	42,0	25,0	42,0	25,0	42,0	2	
779116	20	20	16	25,0	42,0	25,0	42,0	25,0	42,0	2	
779118	25	20	25	27,0	45,0	28,0	45,0	27,0	45,0	2	
779120	25	20	20	27,0	45,0	28,0	45,0	28,0	45,0	2	
779123	25	16	25	27,0	45,0	28,0	45,0	27,0	45,0	2	
779132	32	16	32	33,8	54,8	37,8	54,8	33,8	54,8	1	
779136	32	20	32	33,8	54,8	37,8	54,8	33,8	54,8	1	
779138	32	25	25	33,8	54,8	36,8	54,8	36,8	54,8	1	
779140	32	25	32	33,8	54,8	36,8	54,8	33,8	54,8	1	

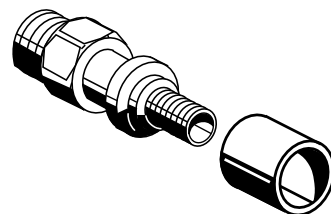
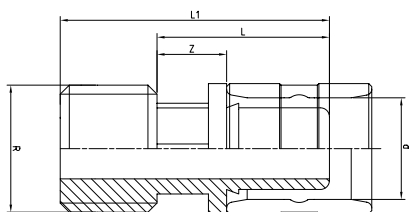


aquatherm grey pipe TRANSITION PIECE

including sliding sleeve – for aquatherm grey pipe Art. no. 777050 ... 777072

Art. no.	d [mm]	R	Z [mm]	L [mm]	L1 [mm]	D [mm]	PU	Price € m/pc
779182	16	1/2"	14,5	31,5	46,5	26,5	2	
779184	20	1/2"	14,5	31,5	46,5	26,5	2	
779186	20	3/4"	14,5	31,5	48,5	32,5	2	
779188	25	3/4"	16,5	34,5	51,5	32,5	2	
779189	25	1"	16,5	34,5	53,5	40,0	2	
779192	32	1"	20,0	41,0	60,0	40,0	2	

Material: brass

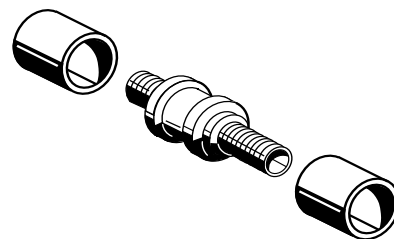
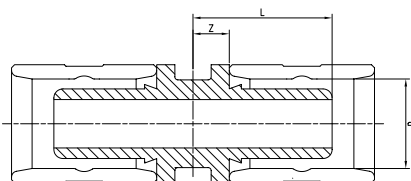


aquatherm grey pipe TRANSITION PIECE

with male thread, including sliding sleeve – for aquatherm grey pipe Art. no. 777050 ... 777072

Art. no.	d [mm]	R	Z [mm]	L [mm]	L1 [mm]	PU	Price € m/pc
779199	25	1"	13,5	31,5	51,5	2	
779200	16	1/2"	11,5	28,5	44,5	2	
779202	20	1/2"	11,5	28,5	44,5	2	
779203	20	3/4"	12,5	29,5	45,5	2	
779204	25	3/4"	14,5	31,5	47,5	2	
779205	25	1/2"	11,5	29,5	45,5	2	
779206	32	3/4"	14,5	35,5	51,5	2	
779208	32	1"	17,0	38,0	58,0	2	

Material: brass

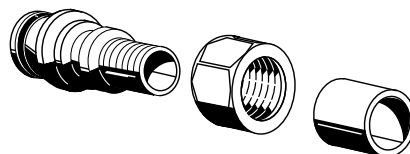
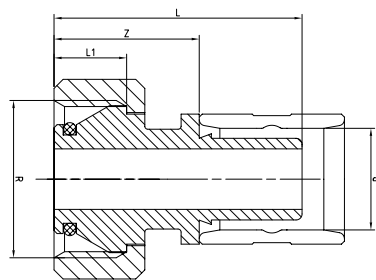


aquatherm grey pipe COUPLING

including sliding sleeves – for aquatherm grey pipe Art. no. 777050 ... 777072

Art. no.	d [mm]	Z [mm]	L [mm]	PU	Price € pc
779210	16	6,0	23,0	2	
779212	20	6,0	23,0	2	
779214	25	7,3	25,3	2	
779216	32	9,0	30,0	2	

Material: brass

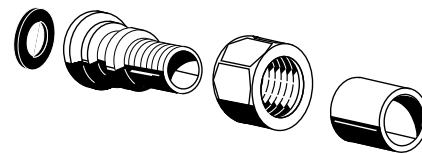
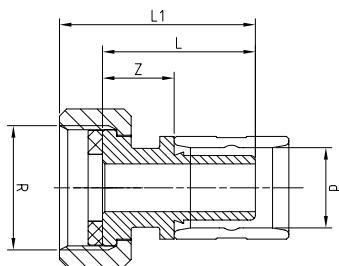


aquatherm grey pipe EUROCONUS ADAPTER

including sliding sleeve – for aquatherm grey pipe Art. no. 777050 ... 777072

Art. no.	d [mm]	R	Z [mm]	L [mm]	L1 [mm]	PU	Price € pc
779220	16	3/4"	24,0	41,0	12,0	2	
779222	20	3/4"	30,0	47,0	15,0	2	

Material: brass
for customary manifolds/joints

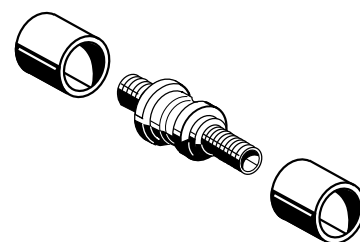
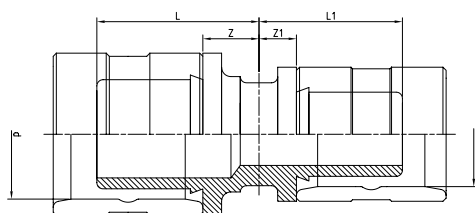


aquatherm grey pipe TRANSITION SCREW JOINT

including sliding sleeve and gasket – for aquatherm grey pipe Art. no. 777050 ... 777072

Art. no.	d [mm]	R	Z [mm]	L [mm]	L1 [mm]	PU	Price € m/pc
779230	16	3/4"	15,0	32,0	41,0	2	
779232	20	1"	15,5	32,5	45,0	2	
779240	20	3/4"	22,0	39,0	48,0	2	
779242	25	1"	28,0	46,0	57,5	1	

Material: brass

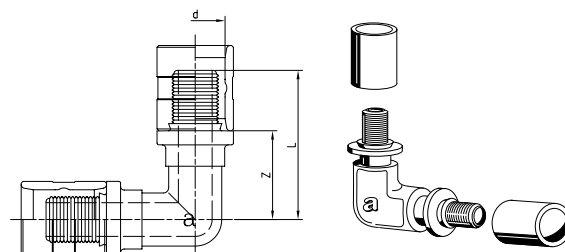


aquatherm grey pipe REDUCING COUPLING

including sliding sleeve – for aquatherm grey pipe Art. no. 777050 ... 777072

Art. no.	d [mm]	d1 [mm]	Z [mm]	L [mm]	Z1 [mm]	L1 [mm]	PU	Price € m/pc
779250	20	16	9,0	26,0	6,0	23,0	2	
779252	25	20	10,0	28,0	6,0	23,0	2	
779254	25	16	10,0	28,0	6,0	23,0	2	
779256	32	25	11,3	32,3	7,3	25,3	1	

Material: brass

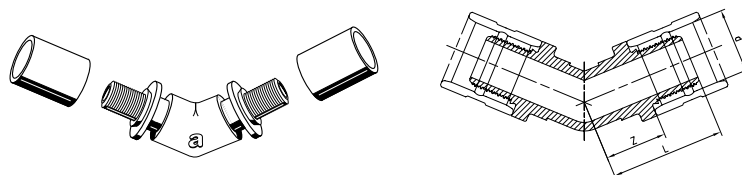


aquatherm grey pipe ELBOW 90°

including sliding sleeve – for aquatherm grey pipe Art. no. 777050 ... 777072

Art. no.	d [mm]	Z [mm]	L [mm]	PU	Price € pc
779300	16	25,0	42,0	2	
779302	20	25,0	42,0	2	
779304	25	27,0	45,0	2	
779306	32	33,8	54,8	1	

Material: PPSU/brass

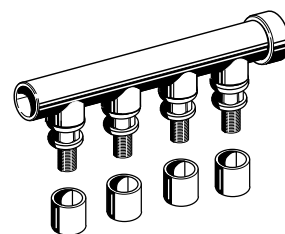
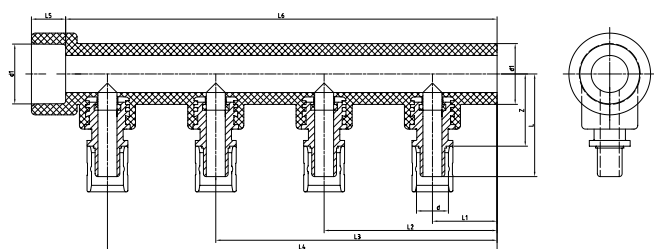


aquatherm grey pipe ELBOW 45°

including sliding sleeve – for aquatherm grey pipe Art. no. 777050 ... 777072

Art. no.	d [mm]	Z [mm]	L [mm]	PU	Price € m/pc
779322	20	20,0	37,0	2	
779324	25	22,0	40,0	2	
779326	32	26,3	47,3	2	

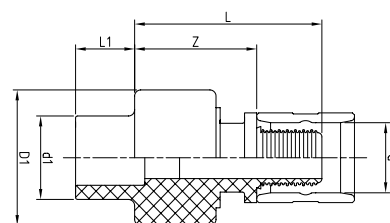
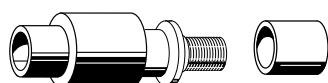
Material: PPSU/brass



aquatherm grey pipe FOUR-PORT MANIFOLD

4 branches with sliding sleeve connection including sliding sleeves – für aquatherm grey pipe Art. no. 777050 ... 777072

Art. no.	d [mm]	d1 [mm]	Z [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	PU	Price € m/pc
78003	16	32	38,0	54,0	34,0	91	148,0	205,0	18,0	227,0	2	



aquatherm grey pipe ADAPTER

to aquatherm green pipe fittings including sliding sleeve – for aquatherm grey pipe Art. no. 777050 ... 777072

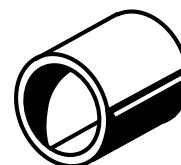
Art. no.	Dimension	d1 [mm]	d [mm]	D1 [mm]	Z [mm]	L [mm]	L1 [mm]	PU	Price € m/pc
778300	aquatherm green pipe 20 mm x aquatherm grey pipe 16 mm	20	16	32,5	30,0	46,0	14,5	2	
778302	aquatherm green pipe 20 mm x aquatherm grey pipe 20 mm	20	20	34,5	30,0	47,0	11,0	2	
778304	aquatherm green pipe 25 mm x aquatherm grey pipe 20 mm	25	20	34,5	30,0	47,0	12,0	2	
778306	aquatherm green pipe 25 mm x aquatherm grey pipe 25 mm	25	25	43,5	35,0	52,0	14,6	2	

aquatherm grey pipe SPARE SLIDING SLEEVE

for aquatherm grey pipe Art. no. 777050 ... 777072

Art. no.	Dimension [mm]	PU	Price € pc
779990	16	10	
779992	20	10	
779994	26	10	
779996	32	10	

Material: brass



aquatherm grey pipe RADIATOR CONNECTION SET

Art. no.	Dimension	PU	Price € pc
83006	16 mm with screw nut G 3/4"	1	

consisting of:

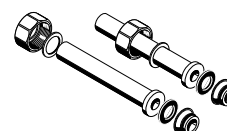
2 connection pieces (L: 120 mm) made of PP-R, Colour: white

2 metal tension rings

2 nuts, chromium plated

2 adaptors, chromium plated

2 gaskets



aquatherm grey pipe CONNECTING BEND

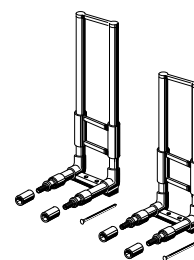
for aquatherm grey pipe Art. no. 777050 ... 777072

Art. no.	Dimension	PU	Price € pc
779502	aquatherm grey pipe pipe connection and radiator connection 16 x 2,0 mm height= 340 mm length = 45 mm	1	
779512	aquatherm grey pipe pipe connection and radiator connection 16 x 2,0 mm height= 200 mm length = 45 mm	1	

with sliding sleeve connection including sliding sleeves and one fastening plug

Pipe spacing: 50 mm

Material: PP-R/brass Colour: white



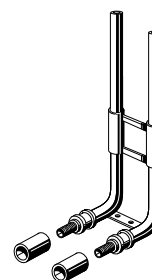
aquatherm grey pipe METAL CONNECTING BEND

for aquatherm grey pipe Art. no. 777050 ... 777072

Art. no.	Dimension	PU	Price € pc
779532	aquatherm grey pipe pipe connection 16 x 2,0 mm radiator connection 15 x 1,0 mm height = 350 mm length = 65 mm	1	

with sliding sleeve connection including

sliding sleeves. Pipe spacing: 50 mm Material: copper nickel-plated

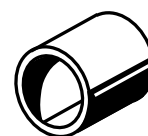


aquatherm grey pipe SPARE SLIDING SLEEVE

for aquatherm grey pipe Art. no. 77020 ... 77024

Art. no.	Dimension [mm]	PU	Price € pc
79990	16	10	
79992	20	10	
79994	25	10	

Material: brass



aquatherm grey pipe CONNECTING BEND

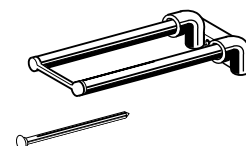
Length: 200 mm

Material: PP-R

Suitable distances for fixing at the welding device (Art. no. 50337) are available

Including 1 fastening plug

Colour: white



aquatherm grey pipe DISTRIBUTION BLOCK

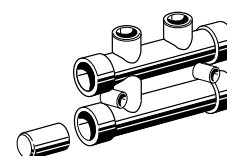
for skirting or floor installation

Art. no.	Dimension	PU	Price € pc
85123	20/16mm	1	

Passage 20 mm, 2 branches including 1 plug 20 mm

Material: PP-R Colour: green

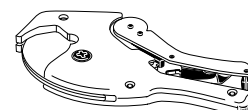
Double welding with welding-device (Art. no. 50337) in connection with two 16 mm and two 20 mm tools is possible.



aquatherm grey pipe PIPE CUTTER

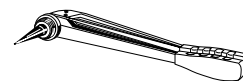
Art. no.	Dimension	PU	Price € pc
50103	up to Ø 25 mm	1	
50104	for pipes Ø 16 - 40 mm	1	

for aquatherm grey pipe and aquatherm surface heating pipes



aquatherm grey pipe EXPANDING TOOL

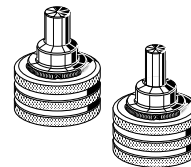
Art. no.	Dimension	PU	Price € pc
50800	for ø 10-40mm	1	



FALSE JAWS FOR THE AQUATHERM GREY PIPE EXPANDING TOOL

for aquatherm grey pipe PB-pipes

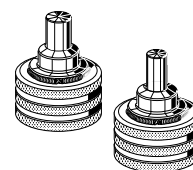
Art. no.	Dimension	PU	Price € pc
50815	14 mm	1	
50817	16 & 20mm	1	
50820	25 mm	1	



FALSE JAWS FOR THE AQUATHERM GREY PIPE EXPANDING TOOL

for aquatherm grey pipe multi-layer metal composite pipes

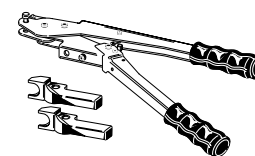
Art. no.	Dimension	PU	Price € pc
50857	16 & 20mm	1	
50860	25 mm	1	
50862	32 mm	1	



aquatherm grey pipe MOUNTING TOOL

Art. no.	Dimension	PU	Price € pc
50802	for ø 10-40mm	1	

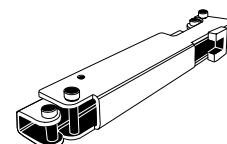
with tools for ø 16 and 20 mm, for the mechanical sliding sleeve connection



aquatherm grey pipe ANGLE ATTACHMENT

for aquatherm grey pipe mounting tool Art. no. 50802

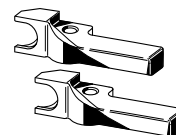
Art. no.	Dimension	PU	Price € pc
50803		1	



aquatherm grey pipe TOOL INSERT

for aquatherm grey pipe mounting tool Art. no. 50802

Art. no.	Dimension	PU	Price € pc
50825	14 mm	1	
50826	16/17mm	1	
50828	20mm	1	
50830	25mm	1	
50832	32 mm	1	



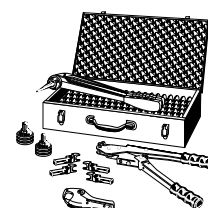
aquatherm grey pipe TOOL CASE

multi-layer metal composite pipe

Art. no.	Dimension	PU	Price € pc
50805	for ø 16-20 mm	1	

including:

- Pipe cutter (Art. no. 50103)
- Expanding tool (Art. no. 50800) with false jaws 16 – 20 mm (Art. no. 50857)
- Mounting tool (Art. no. 50802) with tools (Art. no. 50826 and 50828)



Find an overview of the aquatherm grey pipe tools on page 112.



aquatherm black system

HEATING AND COOLING SYSTEM FOR CEILING, WALL AND FURTHER APPLICATIONS

An individual's physical well-being directly depends on the basic environmental conditions of the surroundings. Working efficiency decreases with increasing temperature, the costs increase with every cooling degree.

Incorrect controlled room temperature, noise interference or draught are responsible for inefficient room conditions and therefore unsatisfactory performances. In offices, commercial premises, meeting rooms, etc., aquatherm pipe grids have become increasingly more popular for heating and cooling of ceilings and walls. The ingenious aquatherm black system creates pleasant room climate without noise and draughts.

aquatherm black system – due to its small sizes – can be laid tight below the plaster layer or the plaster board.

The aquatherm black system can be installed on metal panels of suspended ceilings and on plaster boards. Even the embedding in plaster layer or the installation in C-studs with plaster boards is not a problem. The low weight of only 4.1 kg/m² (incl. water filling) does not affect the design of the ceiling element construction.

Fields of application



Advantages

- No draughts, thus highest climate comfort
- Noiseless
- No additional dust exposure
- Simple control technique
- Thermal properties of the building are enhanced
- Well suited for retrofitting
- Quick installation thanks to high prefabrication degree
- Even temperature distribution
- Safe connection techniques by thermal fusion/Push-fit connection for ceiling elements
- Oxygen-tight
- Low installation height
- Architectural freedom
- Energy efficient during operation
- Suitable as plaster base for ceiling suspension

The mode of operation of the aquatherm black system, installed as a heating or cooling ceiling, is that the surface temperature is kept a few degrees below or above the room temperature. By radiation exchange with the ceiling, the temperatures of the room surface and furnishings change. The total power is achieved by 2/3 radiation and 1/3 convection. The output is determined by the difference between room temperature and average surface temperature. High difference = high heat transfer.

aquatherm black system matches exactly the size of metal cassettes. Active and inactive surfaces can be combined without visible differences. Retrofitting is possible at any time.

Further information regarding the aquatherm black system can be found in our aquatherm black system catalogue (Order No. E97060) and in our flyer (Order No. E20100)



APPLICATION IN PUBLIC, COMMERCIAL AND INDUSTRIAL SECTORS

Metal ceiling panel as clip-in system

Description

The aquatherm black system grids for heating and cooling are laid on the metal ceiling panels and fixed with hold-down magnets. A good power transmission is guaranteed by the direct contact between grid and metal plate respectively the acoustical mat.

Advantages

- High heating and cooling performance due to excellent contact transmission
- Factory-prefabricated grid modules for quick assembly on site
- Very easy assembly with hold-down magnets
- Combination with centrally conditioned outside air is possible
- The system is retrofit in still existing metal ceiling system
- High sound absorption on metal ceiling panels with micro perforation
- Installation in combination with various ceiling installation/ superstructures such as lights, fire detectors and ventilation components
- Power output without drafts
- Soundless and non-visible heating and cooling

Sound absorption

Room acoustics is an important factor - not only in office buildings. A minimization of the sound propagation and thus a better speech intelligibility can be achieved by a high degree of sound absorption.

Sound acoustic properties of a standard metal ceiling

Frequency (Hz)	125	250	500	1000	2000	4000
α_p	0,35	0,80	0,90	0,65	0,70	0,65
Sound absorption degree of metal ceiling system with perforation type 2516						
Rating acc. to ISO 354 Practical sound absorption degree acc. To ISO 11654						
$\alpha_w = 0,70$ (L)						
Sound absorption class C						



APPLICATION IN PUBLIC, COMMERCIAL AND INDUSTRIAL SECTORS

Thermal active ceiling sail

Description

Metal ceiling sails offer the greatest possible creative freedom for architects and planners: the ceiling elements can be individually adapted to any room geometry in terms of shape and dimension. aquatherm black system in metal ceiling sails is ideally suited for distributing heat and cold rapidly and evenly across the surface.

Advantages

- High heating and cooling performance due to excellent contact transmission
- Factory-prefabricated grid modules for quick assembly on site
- Very easy assembly with hold-down magnets
- Combination with centrally conditioned outside air is possible
- System is retrofit in still existing metal ceiling systems
- High sound absorption on metal ceiling panels with micro perforation
- Soundless and non-visible heating and cooling

Sound absorption

To improve the room acoustics, acoustic fleeces are glued to the perforated cooling ceiling sail. With an acoustic ceiling covering (mineral wool shrik wrapped in foil) better sound absorption values are achieved.

Sound acoustic properties of a metal ceiling sail

Frequency (Hz)	125	250	500	1000	2000	4000
α_p	0,70	2,00	2,60	2,00	2,20	2,10
Sound absorption degree of metal ceiling system with perforation type 2516, hole percentage 16%						
Rating acc. to ISO 354 Practical sound absorption degree acc. To ISO 11654						
$\alpha_w = 0,70$ (L)						
Sound absorption class C						

The ceiling sails were raised on 150 mm high columns on a reverberation floor.

Equivalent sound absorption area (500 Hz) = 2.6 m²



APPLICATION IN PUBLIC, COMMERCIAL AND INDUSTRIAL SECTORS

Free convection, suspended

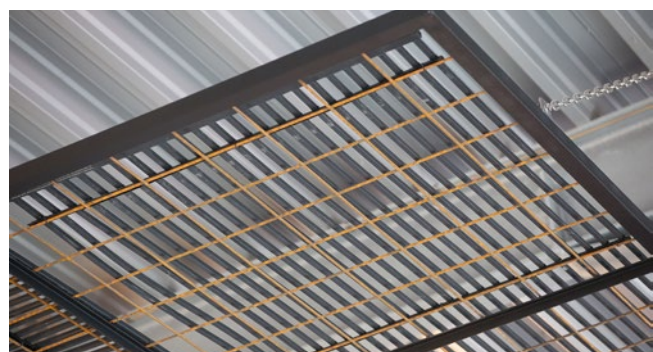
Description

In free convection, the heating and cooling grids lie on a “permeable” substructure, which allows unrestricted circulation. The custom-made aquatherm black system grids are placed on the substructure and are fixed, if necessary.

The systems is characterized by a high level of performance. For example, it is installed for heating of individual workplaces in industry.

Advantages

- High heating and cooling performance through free convection
- The system can be used variably
- Combination with other ceiling substructures such as lighting, fire detectors, sprinklers and ventilation components





HIGH-PERFORMANCE MODULES FOR COOLING CEILINGS

aquatherm black system high-performance modules combine aquatherm's proven heating and cooling grids with heat conduction plates and – depending on the selected product – with aluminium carrier plates. The modules take advantage of the pressure drop and fluidics of the grids and the very good thermal conductivity of the aluminium. Full-surface bonding guarantees easy and quick installation. And thanks to reduced-connection technology, assembly time is minimized and the cost per square metre of installed ceiling is decreased.

The aquatherm black system high-performance modules can be used as a heating and cooling system. They are ideal for heating systems using renewable energies, such as heat pumps. The uniform heat or cold transmission by means of radiation ensures increased comfort. In addition, there are no draughts created or dust raised, as can be the case with blower-driven heating and cooling systems.

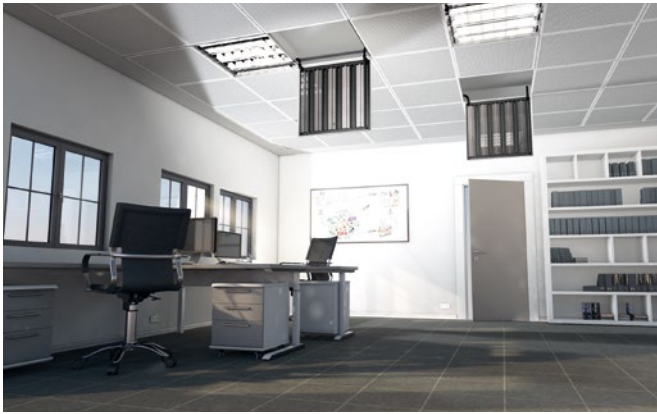
Advantages

- *High heating and cooling performance due to excellent transmission surface contact*
- *Short assembly times thanks to pre-fabricated, self-adhesive modules*
- *Soundless and invisible*
- *No draughts or airborne dust blowing around*
- *Ideally suited for use with heat pump and condensing boiler technology due to low flow and return temperatures*
- *High sound absorption in metal ceiling panels with micro perforation or in perforated plasterboard plates*
- *Retrofittable into existing metal ceiling systems*

The aquatherm black system high-performance modules are available in three different variants:

- Plug & Play: grids with heat conducting plates and carrier plate
- WLT: grids with heat conducting plates
- Drywall-HLM: grids with heat conducting plates and carrier plate

APPLICATION



METAL PANEL CEILING AS CLAMPING SYSTEM



THERMAL ACTIVE METAL CEILING SAIL

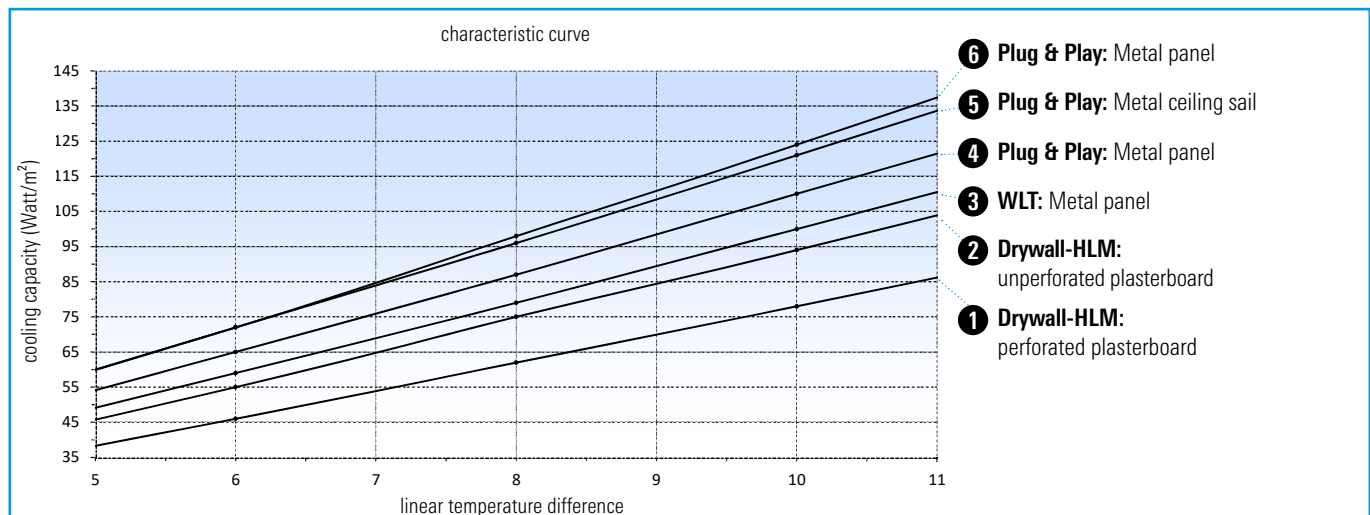


METAL PANEL CEILING AS STRIP GRID SYSTEM



CEILING SYSTEM WITH METAL SUBSTRUCTURE AND PLANKING WITH BUILDING BOARDS

Performance values of ceiling system with high-performance modules.
Standard **cooling** performance according to DIN EN 14240:2004-04



Calculation example for: Flow temperature 15° C / Return temperature 17° C

Linear temperature difference K		6	8	10
Room temperature °C		22	24	26
1	Drywall-HLM perforated plasterboard with graphite content 10 mm 8/18R	46	62	78
2	Drywall-HLM unperforated plasterboard with high graphite content 10 mm	55	75	94
3	WLT Metal panel, with acoustic fleece	59	79	100
4	Plug & Play Metal panel, with acoustic fleece	65	87	110
5	Plug & Play Metal ceiling sail, with acoustic fleece	72	96	121
6	Plug & Play Metal panel, without acoustic fleece	72	98	124

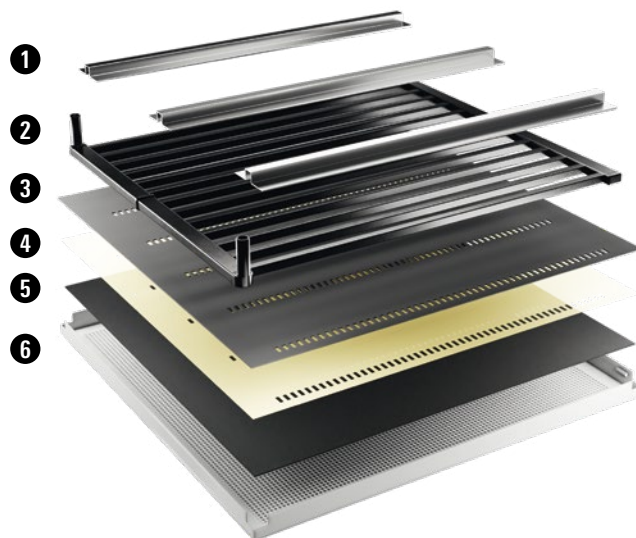
SYSTEM PLUG & PLAY

Application: metal panel

The Plug & Play high-performance modules consist of grid, heat conducting plates and aluminium carrier plate.

They are either inserted mechanically into the metal panel at factory and delivered to the site as complete package (system „activated“) or they are activated directly on site by manually pushing the modules into the existing metal panel (system „solo“). Retrofitting is also possible.

Panel size [mm]	Total module width [mm]	Associated grid width [mm]
> 300 bis ≤ 400	300	240
> 400 bis ≤ 500	400	360
> 500 bis ≤ 600	500	400
> 600 bis ≤ 700	600	520
> 700 bis ≤ 900	700	600
> 900	900	800



1. Heat conducting plates
2. Heating/cooling grid
3. Carrier plate (self-adhesive)
4. Protective film (removed before bonding)
5. Acoustic fleece
6. Metal panel

SYSTEM WLT

Application: metal panel

The grids are installed in the factory with aluminium heat conduction plates in metal panels. The activated metal panels are delivered directly to the site. The finished metal panel elements only have to be hooked into the substructure and hydraulically connected.

Grid width [mm]	Total module width [mm]
240	265
280	305
320	345
360	385
400	425
480	505
520	545
560	585
600	625
680	705
800	825
1000	1025



1. Heat conducting plates
2. Heating/cooling grid
3. Acoustic fleece
4. Metal panel

SYSTEM DRYWALL-HLM

Application: drywall plasterboard ceilings

The aquatherm black system high-performance drywall-HLM modules consist of grid, heat conducting plates and aluminium carrier plate. For acoustic ceilings (perforated plasterboards ceilings), the aluminium carrier plate is perforated to ensure optimal sound absorption. The installation of the high-performance drywall-HLM modules is very easy: The modules are hooked into the supporting profiles of the substructure. Then the ceiling is covered with building boards. For this, e. g. plasterboards and perforated plasterboards with different thermal conductivities can be used.

Center distance substructure [mm]	Total module width [mm]	Associated grid width [mm]
333	263	240
400	330	320
500	430	400



1. Heat conducting plates
2. Heating/cooling grid
3. Carrier plate (closed or perforated)

ARTICLE STRUCTURE

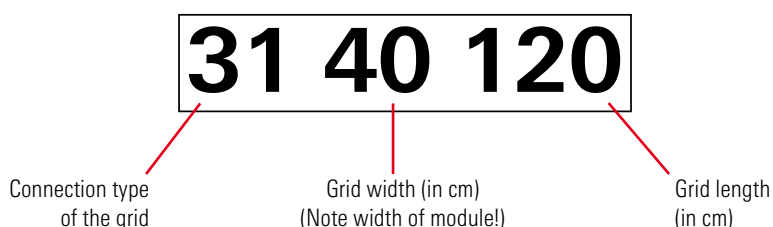
Available lengths: 600 up to 2500 mm

Graduation identical to aquatherm black system standard (see following page)

Special sizes and lengths up to 5.0 m on request!

System		Connection types	
		 Detail: exit a	 Detail: exit a
Plug & Play	Solo (Installation on metal panel on site)	("43" xx xxx)	("44" xx xxx)
	Activated (Pressed directly onto metal panel ex works)	("45" xx xxx)	("46" xx xxx)
WLT		("31" xx xxx)	("32" xx xxx)
Drywall-HLM	Drywall with substructure Distance: 333 mm	("36" xx xxx)	("37" xx xxx)
	Drywall with substructure Distance: 400/500 mm	("38" xx xxx)	("39" xx xxx)

Composition of the article numbers:



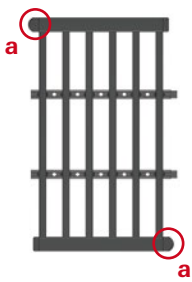
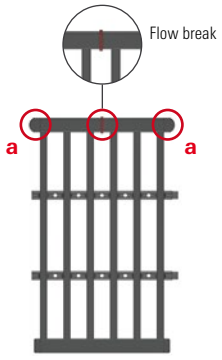
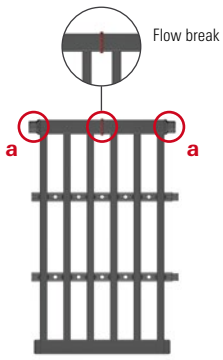
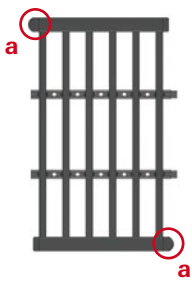
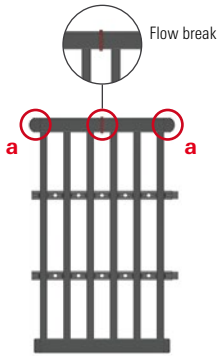
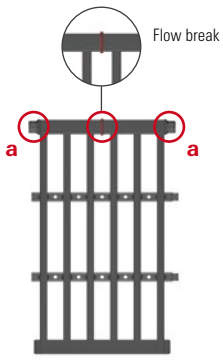
aquatherm black system HEATING AND COOLING GRIDS

oxygen-tight (incl. fixing rails depending on the type of connection)

Attention:

All grids are available in the mentioned connection types at same prices.

Simply replace the first two figures of the article number („52“xxxx) with those of the required type of connection (i. e. „62“ or „64“).

Connection types of the grids			Art. no.	Width [m]	Length [m]	Area [m ²]	PU	Price € pc
52	62	64						
  Detail of connection a	  Detail of connection a	  Detail of connection a	52 24040	0,24	0,40	0,10	1	
			52 24050	0,24	0,50	0,12	1	
			52 24060	0,24	0,60	0,14	1	
			52 24070	0,24	0,70	0,17	1	
			52 24080	0,24	0,80	0,19	1	
			52 24090	0,24	0,90	0,22	1	
			52 24100	0,24	1,00	0,24	1	
			52 24120	0,24	1,20	0,29	1	
			52 24140	0,24	1,40	0,34	1	
			52 24160	0,24	1,60	0,38	1	
Connection type 52 = Plug connection 90° top left, lower right a Plug socket 16 mm 	Connection type 62 = Plug connection 90° left, right a Plug socket 16 mm 	Connection type 64 = welded connection left, right a Welding socket 16 mm 	52 24180	0,24	1,80	0,43	1	
			52 24200	0,24	2,00	0,48	1	
			52 24225	0,24	2,25	0,54	1	
			52 24250	0,24	2,50	0,60	1	
			52 28040	0,28	0,40	0,11	1	
			52 28050	0,28	0,50	0,14	1	
			52 28060	0,28	0,60	0,17	1	
			52 28070	0,28	0,70	0,20	1	
			52 28080	0,28	0,80	0,22	1	
			52 28090	0,28	0,90	0,25	1	
  Detail of connection a	  Detail of connection a	  Detail of connection a	52 28100	0,28	1,00	0,28	1	
			52 28120	0,28	1,20	0,34	1	
			52 28140	0,28	1,40	0,39	1	
			52 28160	0,28	1,60	0,45	1	
			52 28180	0,28	1,80	0,50	1	
			52 28200	0,28	2,00	0,56	1	
			52 28225	0,28	2,25	0,63	1	
			52 28250	0,28	2,50	0,70	1	

Special sizes and lengths up to 5.0 m on request.

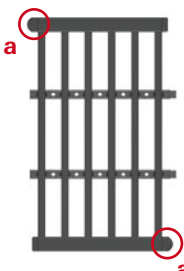
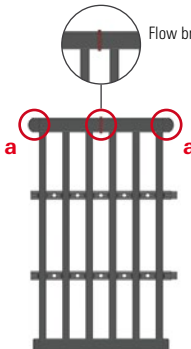
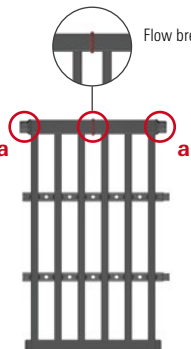
aqualtherm black system HEATING AND COOLING GRIDS

oxygen-tight (incl. fixing rails depending on the type of connection)

Attention:

All grids are available in the mentioned connection types at same prices.

Simply replace the first two figures of the article number („52“xxxx) with those of the required type of connection (i. e. „62“ or „64“).

Connection types of the grids			Art. no.	Width [m]	Length [m]	Area [m²]	PU	Price € pc
52	62	64						
  Detail of connection a Connection type 52 = Plug connection 90° top left, lower right a Plug socket 16 mm 	  Detail of connection a Connection type 62 = Plug connection 90° left, right a Plug socket 16 mm 	  Detail of connection a Connection type 64 = welded connection left, right a Welding socket 16 mm 	52 32040	0,32	0,40	0,13	1	
			52 32050	0,32	0,50	0,16	1	
			52 32060	0,32	0,60	0,19	1	
			52 32070	0,32	0,70	0,22	1	
			52 32080	0,32	0,80	0,26	1	
			52 32090	0,32	0,90	0,29	1	
			52 32100	0,32	1,00	0,32	1	
			52 32120	0,32	1,20	0,38	1	
			52 32140	0,32	1,40	0,45	1	
			52 32160	0,32	1,60	0,51	1	
			52 32180	0,32	1,80	0,58	1	
			52 32200	0,32	2,00	0,64	1	
			52 32225	0,32	2,25	0,72	1	
			52 32250	0,32	2,50	0,80	1	
			52 36040	0,36	0,40	0,14	1	
			52 36050	0,36	0,50	0,18	1	
			52 36060	0,36	0,60	0,22	1	
			52 36070	0,36	0,70	0,25	1	
			52 36080	0,36	0,80	0,29	1	
			52 36090	0,36	0,90	0,32	1	
			52 36100	0,36	1,00	0,36	1	
			52 36120	0,36	1,20	0,43	1	
			52 36140	0,36	1,40	0,50	1	
			52 36160	0,36	1,60	0,58	1	
			52 36180	0,36	1,80	0,65	1	
			52 36200	0,36	2,00	0,72	1	
			52 36225	0,36	2,25	0,81	1	
			52 36250	0,36	2,50	0,90	1	

Special sizes and lengths up to 5.0 m on request.

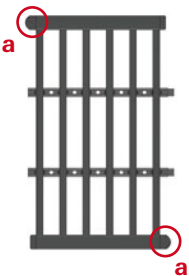
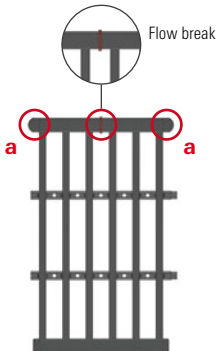
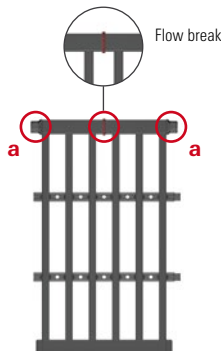
aquatherm black system HEATING AND COOLING GRIDS

oxygen-tight (incl. fixing rails depending on the type of connection)

Attention:

All grids are available in the mentioned connection types at same prices.

Simply replace the first two figures of the article number („52“xxxx) with those of the required type of connection (i. e. „62“ or „64“).

Connection types of the grids			Art. no.	Width [m]	Length [m]	Area [m²]	PU	Price € pc
52	62	64						
			52 40040	0,40	0,40	0,16	1	
			52 40050	0,40	0,50	0,20	1	
			52 40060	0,40	0,60	0,24	1	
			52 40070	0,40	0,70	0,28	1	
			52 40080	0,40	0,80	0,32	1	
			52 40090	0,40	0,90	0,36	1	
			52 40100	0,40	1,00	0,40	1	
			52 40120	0,40	1,20	0,48	1	
			52 40140	0,40	1,40	0,56	1	
			52 40160	0,40	1,60	0,64	1	
			52 40180	0,40	1,80	0,72	1	
			52 40200	0,40	2,00	0,80	1	
			52 40225	0,40	2,25	0,90	1	
			52 40250	0,40	2,50	1,00	1	
			52 48040	0,48	0,40	0,19	1	
			52 48050	0,48	0,50	0,24	1	
Connection type 52 = Plug connection 90° top left, lower right a Plug socket 16 mm 	Connection type 62 = Plug connection 90° left, right a Plug socket 16 mm 	Connection type 64 = welded connection left, right a Welding socket 16 mm 	52 48060	0,48	0,60	0,29	1	
			52 48070	0,48	0,70	0,34	1	
			52 48080	0,48	0,80	0,38	1	
			52 48090	0,48	0,90	0,43	1	
			52 48100	0,48	1,00	0,48	1	
			52 48120	0,48	1,20	0,58	1	
			52 48140	0,48	1,40	0,67	1	
			52 48160	0,48	1,60	0,77	1	
			52 48180	0,48	1,80	0,86	1	
			52 48200	0,48	2,00	0,96	1	
			52 48225	0,48	2,25	1,08	1	
			52 48250	0,48	2,50	1,20	1	

Special sizes and lengths up to 5.0 m on request.

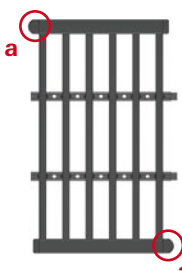
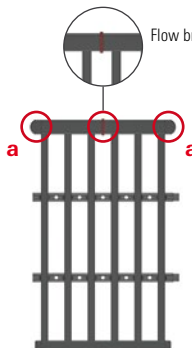
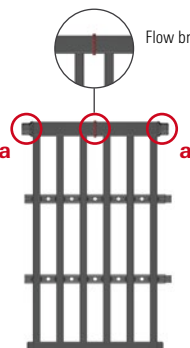
aquatherm black system HEATING AND COOLING GRIDS

oxygen-tight (incl. fixing rails depending on the type of connection)

Attention:

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Simply replace the first two figures of the article number („52“xxxx) with those of the required type of connection (i. e. „62“ or „64“).

Connection types of the grids			Art. no.	Width [m]	Length [m]	Area [m²]	PU	Price € pc
52	62	64						
  Detail of connection a Connection type 52 = Plug connection 90° top left, lower right a Plug socket 16 mm 	  Detail of connection a Connection type 62 = Plug connection 90° left, right a Plug socket 16 mm 	  Detail of connection a Connection type 64 = welded connection left, right a Welding socket 16 mm 	52 52040	0,52	0,40	0,21	1	
			52 52050	0,52	0,50	0,26	1	
			52 52060	0,52	0,60	0,31	1	
			52 52070	0,52	0,70	0,36	1	
			52 52080	0,52	0,80	0,42	1	
			52 52090	0,52	0,90	0,47	1	
			52 52100	0,52	1,00	0,52	1	
			52 52120	0,52	1,20	0,62	1	
			52 52140	0,52	1,40	0,73	1	
			52 52160	0,52	1,60	0,83	1	
			52 52180	0,52	1,80	0,94	1	
			52 52200	0,52	2,00	1,04	1	
			52 52225	0,52	2,25	1,17	1	
			52 52250	0,52	2,50	1,30	1	
			52 56040	0,56	0,40	0,22	1	
			52 56050	0,56	0,50	0,28	1	
			52 56060	0,56	0,60	0,34	1	
			52 56070	0,56	0,70	0,39	1	
			52 56080	0,56	0,80	0,45	1	
			52 56090	0,56	0,90	0,50	1	
			52 56100	0,56	1,00	0,56	1	
			52 56120	0,56	1,20	0,67	1	
			52 56140	0,56	1,40	0,78	1	
			52 56160	0,56	1,60	0,90	1	
			52 56180	0,56	1,80	1,01	1	
			52 56200	0,56	2,00	1,12	1	
			52 56225	0,56	2,25	1,26	1	
			52 56250	0,56	2,50	1,40	1	

Special sizes and lengths up to 5.0 m on request.

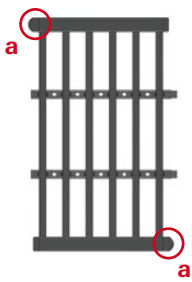
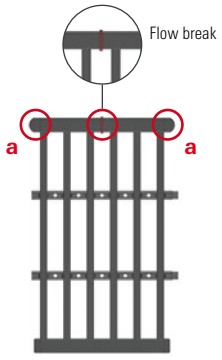
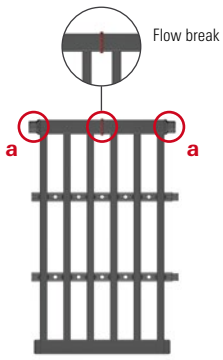
aquatherm black system HEATING AND COOLING GRIDS

oxygen-tight (incl. fixing rails depending on the type of connection)

Attention:

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Simply replace the first two figures of the article number („52“xxxx) with those of the required type of connection (i. e. „62“ or „64“).

Connection types of the grids			Art. no.	Width [m]	Length [m]	Area [m ²]	PU	Price € pc
52	62	64						
  Detail of connection a	  Detail of connection a	  Detail of connection a	52 60040	0,60	0,40	0,24	1	
			52 60050	0,60	0,50	0,30	1	
			52 60060	0,60	0,60	0,36	1	
			52 60070	0,60	0,70	0,42	1	
			52 60080	0,60	0,80	0,48	1	
			52 60090	0,60	0,90	0,54	1	
			52 60100	0,60	1,00	0,60	1	
			52 60120	0,60	1,20	0,72	1	
			52 60140	0,60	1,40	0,84	1	
			52 60160	0,60	1,60	0,96	1	
Connection type 52 = Plug connection 90° top left, lower right a Plug socket 16 mm 	Connection type 62 = Plug connection 90° left, right a Plug socket 16 mm 	Connection type 64 = welded connection left, right a Welding socket 16 mm 	52 60180	0,60	1,80	1,08	1	
			52 60200	0,60	2,00	1,20	1	
			52 60225	0,60	2,25	1,35	1	
			52 60250	0,60	2,50	1,50	1	
			52 68040	0,68	0,40	0,27	1	
			52 68050	0,68	0,50	0,34	1	
			52 68060	0,68	0,60	0,41	1	
			52 68070	0,68	0,70	0,48	1	
			52 68080	0,68	0,80	0,54	1	
			52 68090	0,68	0,90	0,61	1	
			52 68100	0,68	1,00	0,68	1	
			52 68120	0,68	1,20	0,82	1	
			52 68140	0,68	1,40	0,95	1	
			52 68160	0,68	1,60	1,09	1	
			52 68180	0,68	1,80	1,22	1	
			52 68200	0,68	2,00	1,36	1	
			52 68225	0,68	2,25	1,53	1	
			52 68250	0,68	2,50	1,70	1	

Special sizes and lengths up to 5.0 m on request.

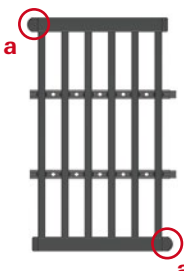
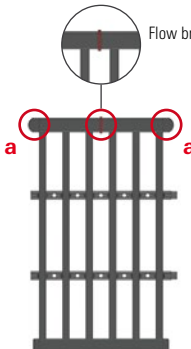
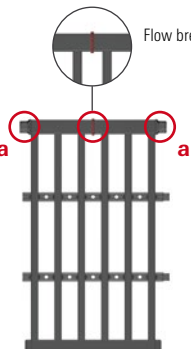
aqualtherm black system HEATING AND COOLING GRIDS

oxygen-tight (incl. fixing rails depending on the type of connection)

Attention:

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Simply replace the first two figures of the article number („52“xxxx) with those of the required type of connection (i. e. „62“ or „64“).

Connection types of the grids			Art. no.	Width [m]	Length [m]	Area [m²]	PU	Price € pc
52	62	64						
  Detail of connection a Connection type 52 = Plug connection 90° top left, lower right a Plug socket 16 mm 	  Detail of connection a Connection type 62 = Plug connection 90° left, right a Plug socket 16 mm 	  Detail of connection a Connection type 64 = welded connection left, right a Welding socket 16 mm 	5280040	0,80	0,40	0,32	1	
			5280050	0,80	0,50	0,40	1	
			5280060	0,80	0,60	0,48	1	
			5280070	0,80	0,70	0,56	1	
			5280080	0,80	0,80	0,64	1	
			5280090	0,80	0,90	0,72	1	
			5280100	0,80	1,00	0,80	1	
			5280120	0,80	1,20	0,96	1	
			5280140	0,80	1,40	1,12	1	
			5280160	0,80	1,60	1,28	1	
			5280180	0,80	1,80	1,44	1	
			5280200	0,80	2,00	1,60	1	
			5280225	0,80	2,25	1,80	1	
			5280250	0,80	2,50	2,00	1	
			5200040	1,00	0,40	0,40	1	
			5200050	1,00	0,50	0,50	1	
			5200060	1,00	0,60	0,60	1	
			5200070	1,00	0,70	0,70	1	
			5200080	1,00	0,80	0,80	1	
			5200090	1,00	0,90	0,90	1	
			5200100	1,00	1,00	1,00	1	
			5200120	1,00	1,20	1,20	1	
			5200140	1,00	1,40	1,40	1	
			5200160	1,00	1,60	1,60	1	
			5200180	1,00	1,80	1,80	1	
			5200200	1,00	2,00	2,00	1	
			5200225	1,00	2,25	2,25	1	
			5200250	1,00	2,50	2,50	1	

Special sizes and lengths up to 5.0 m on request.

aquatherm black system HEATING AND COOLING GRID FOR CEILING PANELS

retractable, oxygen-tight, with one-side 90° plug connection and flow break

Art. no.	Dimension grid	Dimension ceiling panel	PU	Price € pc
6256060	56x60cm = 0,34m ²	62,5x62,5cm	1	
6256118	56x118cm = 0,66m ²	62,5x125cm	1	

Forced flow by in-centre welded blind plug in the main pipe, which offers a one-side connection of the grids among each other.

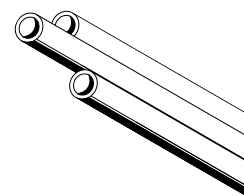
Special size on request!



aquatherm black system PP-GRID CONNECTION PIPE

with oxygen barrier

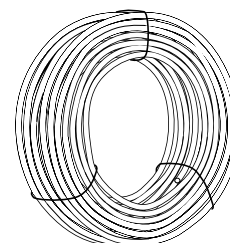
Art. no.	Dimension [mm]	Length [m]	PU	Price € m
81006	16	4	100	
81008	20	2,5	50	



aquatherm black system PP-GRID CONNECTION PIPE

with oxygen barrier, in ring

Art. no.	Dimension [mm]	PU	Price € m
81026	16	100	
81028	20	100	



aquatherm black system CORRUGATED CONNECTING PIPE

with oxygen barrier, in ring

Art. no.	Dimension	PU	Price € m
81039		50	

Connectable by welding with Art. 81288, 81290, 81291 separable every 50 cm



aquatherm black system CORRUGATED CONNECTING PIPE

with oxygen barrier, for connection types 52, 62 and 64

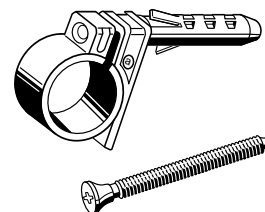
Art. no.	Dimension	PU	Price € pc
81031	50 cm 1 x plug elbow 90° and welding socket 16 mm	1	
81032	50 cm with 2 x plug elbow 90°	1	
81035	150 cm with 2 x plug elbow 90°	1	
81038	100 cm with 2 x plug elbow 90°	1	
81044	50 cm with 2 x welding elbow 90°	1	
81047	100 cm with 2 x welding elbow 90°	1	
81048	150 cm with 2 x welding elbow 90°	1	
81049	50 cm with 1 x welding elbow 90° and 1 x welding socket 16 mm	1	



PLASTIC PIPE CLAMPS

Art. no.	For pipe dimension [mm]	PU	Price € pc
60716	16	50	
60720	20	50	

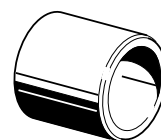
Colour: anthracite



aquatherm black system SOCKET

for heating and cooling grids

Art. no.	Dimension [mm]	PU	Price € pc
81050	16	10	



aquatherm black system ELBOW 90°

for heating and cooling grids

Art. no.	Dimension [mm]	PU	Price € pc
81060	16	10	



aquatherm black system END CAP

for heating and cooling grids

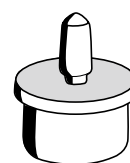
Art. no.	Dimension [mm]	PU	Price € pc
81080	16	10	



aquatherm black system PP-R MALE END PLUG

for heating and cooling grids (for old type of connection 50)

Art. no.	Dimension [mm]	PU	Price € pc
81092	16	10	



aquatherm black system ELBOW 90°

male/female

Art. no.	Dimension [mm]	PU	Price € pc
81065	16	10	



aquatherm black system MAGNET HOLDER

Art. no.	Dimension	PU	Price € pc
81286		50	



GRID FIXING IN METAL CEILINGS WITH HOLDING-DOWN MAGNET

aquatherm black system heating and cooling grids are connected with the metal ceiling plate by special custom-made holding-down magnets. The magnets guarantee a safe fixing and the optimum heat conducting connection between heating- and cooling grids and the metal panel. The fixing of heating- and cooling grids with holding-down magnets is performed after inserting the grids into the metal panel plates during the ceiling mounting at site. The demand for holding-down magnets depends on the dimension of the metal panel, basically plan with approx. 4 magnets per square meter.

Adhesive and solvent for sticking the aquatherm grids into metal ceiling panels can directly be bought at the manufacturer Wakol GmbH (www.wakol.de). The manufacturer's instructions are to be considered!

Article description adhesive: L1720 ROT

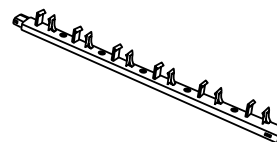
Article description solvent: Löser 31



aquatherm black system **FIXING RAIL**

for heating and cooling grids

Art. no.	Dimension	PU	Price € pc
81506	Länge = aqt black system 24 cm	10	



aquatherm black system **WALL BRACKET**

for heating and cooling grids at wall heating- and cooling systems for drywall

Art. no.	Dimension	PU	Price € pc
81296		10	

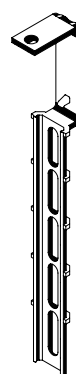


aquatherm black system **FIXING RAIL FOR DRY WALL**

for heating and cooling grids

Art. no.	Dimension	PU	Price € pc
81297		10	

Please note, when ordering the fixing rail for drywall Art. no. 81297, that for each rail two connection plugs with the Art. no. 81301 have to be ordered.



aquatherm black system **CONNECTING PLUG**

Art. no.	PU	Price € pc
81301	1	

In connection with Art. no. 81297 for fixing the heating-cooling grids in case of ceiling system with metal substructure.

In connection with Art. no. 81304 (perforated tape) for fixing the heating-cooling grids in case of wall systems with metal substructure.



aquatherm black system **MAGNET CLIP**

Art. no.	PU	Price € pc
81302	50	

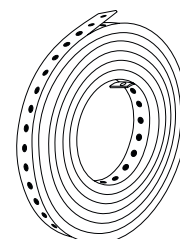
In connection with art. no. 81506 for fixing the heating-cooling grids in case of ceiling systems with metal substructure.



aquatherm black system **PERFORATED TAPE**

Art. no.	Dimension	PU	Price € pc
81304	10 m x 19 mm	1	

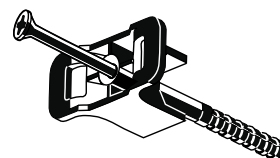
In connection with art. no. 81301 for fixing the heating-cooling grids in case of wall systems with metal substructure.



aquatherm black system FIXING CLAMP WITH WALL PLUG

for wall and ceiling installation

Art. no.	Dimension	PU	Price € pc
81298		10	



aquatherm black system THERMOGRAPHY FILM

place at the wall for indicating the position of the pipe by colour changing

Art. no.	Dimension [mm]	PU	Price € pc
50186	160x70 mm	1	

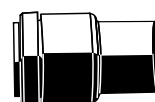


aquatherm black system CONNECTOR

one-sided pushfit connection/one-sided PP-R 16 mm

Art. no.	Dimension [mm]	PU	Price € pc
81288	16	20	

with safety pin

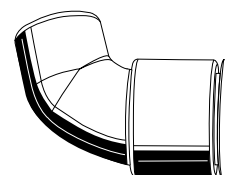


aquatherm black system 90° ELBOW-ADAPTER

onesided plugable/onesided PP-R 16 mm weldable

Art. no.	Dimension [mm]	PU	Price € pc
81290	16	10	

with safety pin

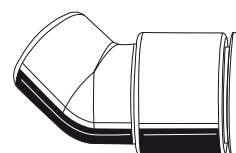


aquatherm black system 45° ELBOW-ADAPTER

onesided plugable/onesided PP-R 16 mm weldable

Art. no.	Dimension [mm]	PU	Price € pc
81291	16	10	

with safety pin

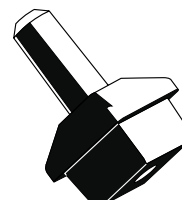


aquatherm black system SEALING PLUG

for wall and ceiling grids

Art. no.	Dimension [mm]	PU	Price € pc
81091	12	10	

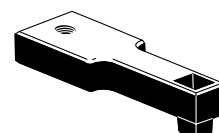
welding tool for sealing plug Art. no. 50285 see tools



aquatherm black system WELDING TOOL

Art. no.	Dimension [mm]	PU	Price € pc
50285	12x12 mm	1	

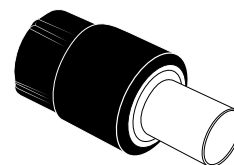
for sealing plug Art. no. 81091



aquatherm black system TRANSITION ADAPTER

Art. no.	Dimension	PU	Price € pc
81097	aquatherm black system with press connection	10	

e.g. for connecting existing metal pipes



aquatherm black system TRANSITION ADAPTER

Art. no.	Dimension	PU	Price € pc
81292	aquatherm black system to aquatherm orange system 16 mm	10	

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



STARTER KIT SHOWER

consists of:

Art. no.	Quantity	No.	Description	PU	Price € pc
81800	2 pieces	6424160	grids 24 x 160 mm	1	
	1 piece	6460160	grids 60 x 160 mm		
	4 pieces	81006	OT pipe 16 x 2,0 mm; length 2,0 m		
	10 pieces	81050	socket 16 mm		
	10 pieces	81060	elbow 90° 16 mm		
	10 pieces	60716	fixing clamp 16 mm		
	3 pieces	81296	wall bracket		
	3 pieces	81301	connecting plug		
	10 pieces	81298	fixing clamp with wall plug		



aquatherm black system DISTANCE PIECE

for prefabricated ceilings

Art. no.	PU	Price € m/pc
81303	50	





aquatherm orange system

SURFACE HEATING AND COOLING SYSTEMS

Developed 40 years ago as one of the first surface heating systems, it formed the basis for the aquatherm company and soon became successful on the market.

aquatherm orange system is designed for industrial or sports floor heating. The surface-heating pipe combines many advantages. It consists of the durable and corrosion-resistant material polyethylene, which ensures resistance to stress cracks and very good long-term internal pressure performance combined with high flexibility. Even at higher temperatures, the aquatherm orange system is characterized by excellent creep strength. The heating pipe is provided with an oxygen barrier according to DIN EN 1264. aquatherm orange system can also be used as radiator connection pipe.

aquatherm orange system underfloor heating systems can be combined with **aquatherm green pipe** and **aquatherm blue pipe**:

- ▶ Open space heating
- ▶ Industrial floor heating
- ▶ Sports floor heating
- ▶ Under-soil heating



FIELDS OF APPLICATION



Flexible sports floor



Undersoil pitch heating



Industrial floor heating

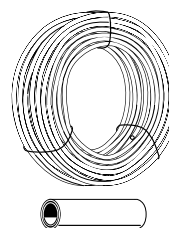
aqualtherm orange system SURFACE HEATING AND RADIATOR CONNECTING PIPE (PE-RT)

with oxygen barrier according to DIN 4726/16833

Art. no.	Dimension [mm]	PU	Price € m
90026	16x2,0mm	250	
90036	16x2,0mm	500	
90037	17x2,0mm	500	
90028	20x2,0mm	250	
90038	20x2,0mm	500	
90030	25x2,3mm	250	

Material: PE-RT with EVOH coating, oxygen barrier according to DIN 4721/4726/16833

Colour: red

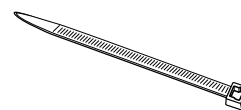


aqualtherm orange system CABLE TIE

for industrial surface heating

Art. no.	Dimension	PU	Price € pc
99086	Length: 200 mm	100	

Please note: Packung Unit = 100

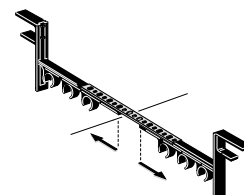


aqualtherm orange system PIPE GUIDING RAIL

for surface flexible sports floor, adjustable in length and height

Art. no.	Dimension	PU	Price € pc
90510	Ø 20 mm	150	

Material: Polyamid

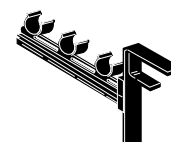


aqualtherm orange system END RAIL

for surface flexible sports floor, adjustable in height

Art. no.	Dimension	PU	Price € pc
90511	Ø 20 mm	20	

Material: Polyamid

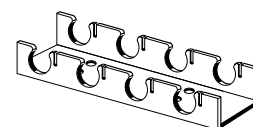


aqualtherm orange system PROFILE RAIL

for industrial heating

Art. no.	Dimension	PU	Price € m
90518	Ø 20 mm	2	

Material: Polyamid

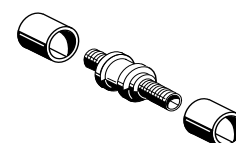


aqualtherm orange system COUPLING

for PE-RT pipes, including sliding sleeve

Art. no.	Dimension [mm]	PU	Price € pc
79210	16	2	
79212	20	2	

Material: brass

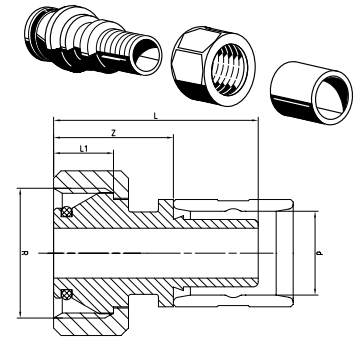


aquatherm grey pipe EUROCONUS ADAPTER

including sliding sleeve

Art. no.	d [mm]	R	Z [mm]	L [mm]	L1 [mm]	PU	Price € pc
79220	16	G3/4	24,00	41,00	12,00	2	
79222	20	G3/4	30,00	47,00	15,00	2	

Material: brass
for customary manifolds/joints

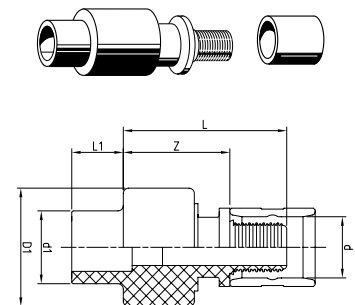


aquatherm orange system ADAPTER

to aquatherm green pipe fittings including sliding sleeve, for PE-RT

Art. no.	Dimension	d1 [mm]	d [mm]	D1 [mm]	Z [mm]	L [mm]	L1 [mm]	PU	Price € pc
78300	aquatherm green pipe 20 mm x aquatherm orange system 16 mm	20	16	32,5	30,0	46,0	14,5	2	
78302	aquatherm green pipe 20 mm x aquatherm orange system 20 mm	20	20	34,5	30,0	47,0	11,0	2	

Material: PP-R/brass

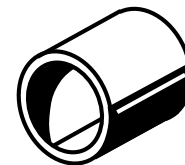


aquatherm grey pipe SPARE SLIDING SLEEVE

for PB pipes

Art. no.	Dimension [mm]	PU	Price € pc
79990	16	10	
79992	20	10	
79994	25	10	

Material: brass

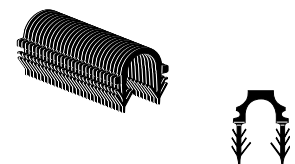


aquatherm PIPE CLAMP

Systems: **aquatherm orange system,**
aquatherm black system

Art. no.	Dimension	PU	Price € pc
90504	ø 14-20 mm tacker	500	

for aquatherm orange system underfloor heating pipes
Material: Polyamid



aquatherm TACKER

Systems: **aquatherm orange system,**
aquatherm black system

Art. no.	Dimension	PU	Price € pc
96003		1	

Note: Applicable with Art. no. 90504
for fixing of heating pipe with pipe clips on the aquatherm orange system elements





aquatherm control components

FOR AQUATHERM BLACK SYSTEM AND AQUATHERM ORANGE SYSTEM

The aquatherm radio control system combines latest Smart Home and IoT technology for all building types. The intelligent control technology communicates radio-controlled between the central radio unit, room thermostats and radio control distributors. The system is used to control the aquatherm surface heating and cooling systems. In case of cooling, dew point monitoring is realized by means of room thermostat with integrated hygostat and external temperature sensor.

An integrated WiFi module provides access via smartphone or tablet. Thus, the heating and cooling system can be constantly monitored and adjusted.

The entire system is completed by the aquatherm heating and cooling circuit distributors. aquatherm heating and cooling circuit distributors enable an individual adjustment of volume flows via regulating valves. The distributors are delivered in a pre-assembled and ready-to-connect version.



Radio room thermostat



Central control with touch screen display



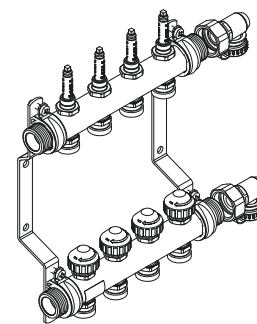
Control distributor

aquatherm HEATING CIRCUIT MANIFOLD WITH FLOW INDICATOR

screwed joints and ball valves have to be ordered separately

Systems: **aquatherm orange system,**
aquatherm black system

Art. no.	Dimension	PU	Price € pc
94402	Stainless steel 2-fold flow indicator	1	
94403	Stainless steel 3-fold flow indicator	1	
94404	Stainless steel 4-fold flow indicator	1	
94405	Stainless steel 5-fold flow indicator	1	
94406	Stainless steel 6-fold flow indicator	1	
94407	Stainless steel 7-fach flow indicator.	1	
94408	Stainless steel 8-fold flow indicator	1	
94409	Stainless steel 9-fold flow indicator	1	
94410	Stainless steel 10-fold flow indicator	1	
94411	Stainless steel 11-fold flow indicator	1	
94412	Stainless steel 12-fold flow indicator	1	



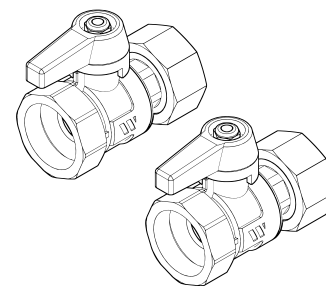
Stainless steel manifold with the following properties:

- Flow- and return manifold are arranged separately
- Flow indicator with shut-off in the flow
- Control and shut-off valve with protection cap in return
- Feed and drain valves
- Air valves
- Bracket set with bow and sound protection
- Sealing plug

aquatherm BALL VALVE SET

Systems: **aquatherm orange system,**
aquatherm black system

Art. no.	Dimension	PU	Price € pc
94413	aqt ball valve set 1"female thread x 1"female thread	1	

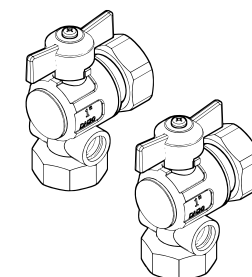


aquatherm BALL VALVE SET

Corner design

Systems: **aquatherm orange system,**
aquatherm black system

Art. no.	Dimension	PU	Price € pc
94414	aqt corner ball valve set 1"union nut x 1" female thread	1	

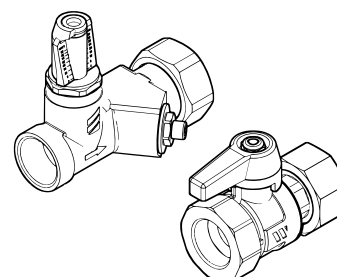


aquatherm LINE CONTROL VALVE SET FOR MANIFOLD

Systems: **aquatherm orange system,**
aquatherm black system

Art. no.	Dimension	PU	Price € pc
94415	1" male thread	1	

For restriction of flow rate respectively for hydraulic balancing of manifolds

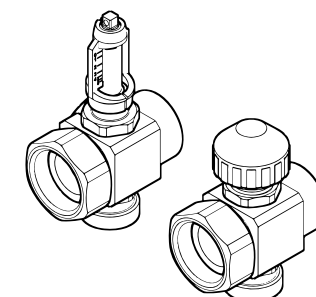


aquatherm HEATING CIRCUIT MANIFOLD EXTENSION SET

for Art. no. 94402 – 94412

Systems: **aquatherm orange system,**
aquatherm black system

Art. no.	Dimension	PU	Price € pc
94416		1	



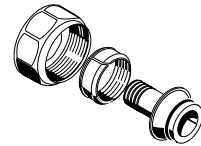
aquatherm EUROCONUS CONNECTOR

for heating circuit manifold

Systems: **aquatherm orange system,**
aquatherm black system

Art. no.	Dimension	PU	Price € pc
92106	for 16 x 2,0 mm pipe	2	
92107	for 17 x 2,0 mm pipe	2	
92108	for 20 x 2,0 mm pipe	10	

cap nut nickel-plated

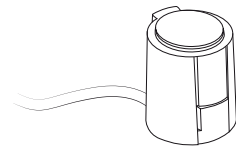


aquatherm ACTUATOR

for heating circuit manifolds and heating circuit control valves – flow

Systems: **aquatherm orange system,**
aquatherm black system

Art. no.	Dimension	PU	Price € m/pc
94102	230V	1	
94103	24V	1	

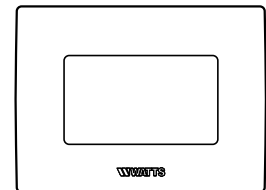


aquatherm CENTRAL RADIO UNIT

with 4,3" touchscreen

Systems: **aquatherm orange system,**
aquatherm black system

Art. no.	Dimension	PU	Price € m/pc
94417		1	



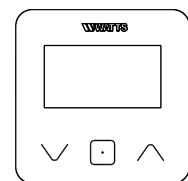
- remote access via app or web
- intuitive operation: plug & play
- wall mounting with power supply 85-265 VA (50-60Hz) or via mini USB cable
- table installation with stand
- heating-cooling units controllable

aquatherm RADIO ROOM THERMOSTAT

with glass touchscreen

Systems: **aquatherm orange system,**
aquatherm black system

Art. no.	Dimension	PU	Price € m/pc
94418		1	



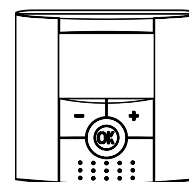
- heating or heating/cooling
- setting of different temperature modes
- antifreeze protection function
- pincode and anti-theft protection
- wall or table installation
- "open window" detection

aquatherm RADIO ROOM THERMOSTAT

digital, with LCD-display, programmable

Systems: **aquatherm orange system,**
aquatherm black system

Art. no.	Dimension	PU	Price € pc
94419		1	

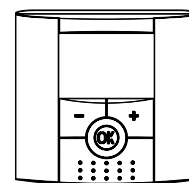


aquatherm RADIO ROOM THERMOSTAT

digital, with LCD-display, programmable, with hygrostat

Systems: **aquatherm orange system,**
aquatherm black system

Art. no.	Dimension	PU	Price € pc
94420		1	

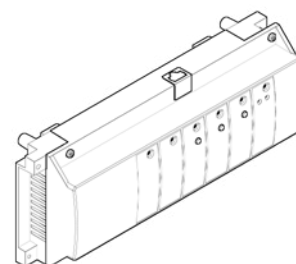


aquatherm RADIO CONTROL DISTRIBUTOR

Master, for 6 zones

Systems: **aquatherm orange system,**
aquatherm black system

Art. no.	Dimension	PU	Price € pc
94422		1	



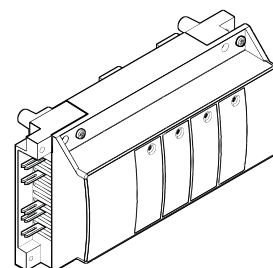
- Zone control for water-bearing surface heating/cooling
- up to 10 zones (room sensor)
- Switching output for pump and heat generator by radio or cable (potential free)

aquatherm RADIO CONTROL DISTRIBUTOR 4-FOLD

Extension for 4 zones

Systems: **aquatherm orange system,**
aquatherm black system

Art. no.	Dimension	PU	Price € pc
94423		1	

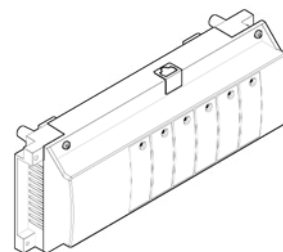


aquatherm MANAGEMENT MODULE

for heating/cooling

Systems: **aquatherm orange system,**
aquatherm black system

Art. no.	Dimension	PU	Price € pc
94421		1	



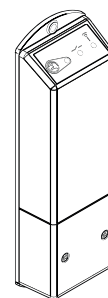
- Control and management for water-bearing surface heating/cooling in conjunction with control distributor
- signal for central heating/cooling changeover via floating switching output

aquatherm SINGLE RADIO RECEIVER

for control of surface heating/cooling

Systems: **aquatherm orange system,**
aquatherm black system

Art. no.	Dimension	PU	Price € pc
94424		1	

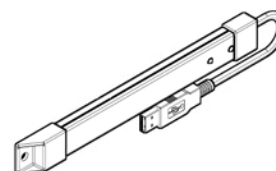


aquatherm RADIO REPEATER

to expand the radio transmission area or Erweiterung des Funk-Übertragungsbereiches

Systems: **aquatherm orange system,**
aquatherm black system

Art. no.	Dimension	PU	Price € pc
94425		1	

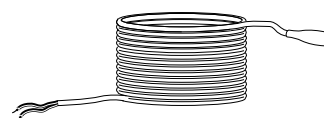


aquatherm DEWPOINT SENSOR

3 metres

Systems: **aquatherm orange system,**
aquatherm black system

Art. no.	Dimension	PU	Price € pc
94426		1	



aquatherm green pipe, aquatherm blue pipe	Pipe systems	PAGE 10 – 80
aquatherm ti	Pre-insulated pipe systems for district heating	PAGE 81 – 95
aquatherm tools	Tools for aquatherm green pipe and aquatherm blue pipe	PAGE 96 – 112
aquatherm grey pipe	Potable water and radiator connection system	PAGE 113 – 123
aquatherm black system	Surface heating and cooling system	PAGE 124 – 142
aquatherm orange system	Surface heating system	PAGE 143 – 145
aquatherm control components	Control components for aquatherm black system and orange system	PAGE 147 – 151

aquatherm green pipe

aquatherm blue pipe

aquatherm green pipe SDR 9 MF RP	12
aquatherm green pipe SDR 7.4 MF	13
aquatherm green pipe SDR 9 MF RP UV	14
aquatherm green pipe SDR 7.4 MF UV	15
aquatherm green pipe SDR 6/7.4 S	16
aquatherm green pipe SDR 11 S	17
aquatherm blue pipe SDR 7.4 MF SDR 9/11/17.6 MF RP	19
aquatherm blue pipe SDR 7.4 MF UV SDR 9/11/17.6 MF RP UV	20
aquatherm blue pipe SDR 7.4 OT SDR 9/11 MF RP OT	21
aquatherm blue pipe SDR 11 S	21
adhesive tape	22
assembling jig	61
back plate elbow	58
back plate elbow for dry construction	60
ball valve	77
ball valve electrical drive	78
ball valve for manifold	73
concealed valves	74
counterparts	71
coupling screw joints	49
cross over fittings	39
crosses	39
distribution block plumbing	72
draining branch	80
dry construction wall fitting	60
elbows 45°	29
elbows 90°	27
electrofusion sockets	51
end caps	39

extension for concealed valves	74
extension for ball valve	77
flange adapters	46
flanges	49
flow through back plate elbows	50
globe valves	74
inclined valve	76
loose nut adapters	70
manifold	72
manifold end piece	73
mounting plate	59
mounting rail	59,115
mounting unit	61
nut adapter	70
peeling tools	101
pipe clamps	22
pipe fastening bow	23
plastic pipe clamps	23
plug for pressure tests	61
push fit adapter	52
push fit coupling	52
red.-T-pieces	33
reducing sockets	24
shut off valve	79
sockets	23
sound isolation plate	59,114
stop valve body	76
supporting strap	73
T-pieces	30
threaded branch tees	68
transition couplings	69
transition elbows	61
transition pieces	60
water meter nut adapter	70
weld-in saddles	41
weld-on saddles	45
weld-on saddle set with ball valve	45

aquatherm ti

branch	85
closing collar	95
compact seals	95
cross-over branch	86
elbow 45°	84
elbow 90°	84
faser composite pipes	83
insulation tape	95
insulation-reducing socket-set	94
insulation-socket-set	92
primer	95
red. cross-over branch	89
red.-branch	87
reducing socket	93
socket	91
warning tape	95

aquatherm tools

attachment plate for universal peeling tools	100
ball valve adapter	106
butt welding machines	97
cleaning wipes	98
cutting disc	96
hot tapping tool	106
drills	104
electrofusion device	98
non-return valve	76
orbital circular saw	96
peeling tools	101
pipe cutters	96
pipe repair stick	99
repair set	99
PP-milling cutter	106
saddle peeling tools	104
saddle welding tools	102
surface thermometer	98
temperature pencil	98
temperature predictive glove	98
universal peeling tools + extension	99
welding devices	96
welding jig + base	97
welding machines	97
welding tools	98
weld-on saddle tool	107

aquatherm grey pipe

adapter	121
angle attachment	123
back plate elbow	115
compression fitting	149
coupling	118
distribution block + insulation	122
elbow 45°	120
elbow 90°	120
euroconus adapter	119
expanding tool	122
flow-through back plate elbow	115
mounting rail	59,115
mounting tools	123
multi-layer metal composite pipe	114
multi-layer metal composite pipe with insulation	114
pipe cutter	122
reducing coupling	119
snap in radius support	114
sound insulation plate	59,114
spare sliding sleeve	122,145
tool case	123
transition elbow	116
transition piece	118

aquatherm black system

45° elbow-adapter	141
90° elbow-adapter	141
connecting plug	140
connection pipes	138
connector	141
corrugated connecting pipe	138
elbow-adapters	141
elbow 90°	139
end cap	139
end plug	139
fixing clamp	141
fixing rails	140
heating and cooling grids	132
magnet clip	140
magnet holder	139
perforated tape	140
pipe clamps	139
sealing plug	141
socket	139
starter kit shower	142
thermography film	141
wall bracket	140
welding tool	141

aquatherm orange system

actuator	149
adapter	145
cable tie	144
connecting pipe (PE-RT)	144
coupling	144
end rail	144
Euroconus adapter	145
pipe clamp	145
pipe guiding rail	144
profile rail	144
spare sliding sleeve	122,145
tacker	145

aquatherm control components

actuator	149
ball valve set	148
heating circuit manifold	148
heating circuit manifold extension set	148
line control valve set	148
radio room thermostat	149

Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page
10006	16	11022	23	11195	26	12247	54	13124	30
10008	16	11024	23	11197	26	12249	54	13126	30
10010	16	11026	23	11199	26	12306	29	13130	31
10012	16	11109	25	11201	26	12308	29	13131	31
10014	16	11110	25	11203	26	12310	29	13134	31
10016	16	11112	25	11204	26	12312	29	13135	31
10018	16	11114	25	11206	26	12314	29	13138	31
10020	16	11116	25	11207	26	12506	29	13139	31
10022	16	11118	25	11208	26	12508	29	13143	31
10024	16	11120	25	11222	24	12510	29	13222	56
10106	16	11122	25	11228	24	12512	29	13224	56
10108	16	11124	25	11230	24	12514	29	13226	56
10110	16	11126	25	11236	24	12516	29	13231	56
10208	17	11128	25	11238	24	12518	29	13235	56
10210	17	11130	25	11240	24	12520	29	13239	56
10212	17	11131	25	11242	24	12522	29	13243	56
10214	17	11132	25	11252	24	12524	29	13245	56
10216	17	11134	25	11253	24	12526	29	13247	56
10218	17	11136	25	11257	24	12530	30	13249	56
10220	17	11138	25	11259	24	12531	30	13506	33
10222	17	11139	25	11263	24	12534	30	13508	33
10224	17	11140	25	11265	24	12535	30	13510	33
10226	17	11142	25	12106	27	12538	30	13511	33
10230	17	11143	25	12108	27	12539	30	13512	33
10234	17	11144	25	12110	27	12543	30	13514	33
10238	17	11145	25	12112	27	12622	55	13516	33
10242	17	11151	25	12114	27	12624	55	13520	33
10308	17	11152	25	12116	27	12626	55	13522	33
10310	17	11153	25	12118	27	12631	55	13528	33
10312	17	11155	25	12120	27	12635	55	13532	33
10806	16	11157	25	12122	27	12639	55	13534	33
10808	16	11159	25	12124	27	12643	55	13538	33
10810	16	11161	25	12126	27	12645	55	13540	33
10812	16	11163	25	12130	28	12647	55	13542	33
10814	16	11165	25	12131	28	12649	55	13544	33
10816	16	11174	26	12134	28	12708	29	13546	33
10818	16	11175	26	12135	28	12710	29	13547	33
10871	22	11176	26	12138	28	12712	29	13548	33
10906	16	11177	26	12139	28	12714	29	13550	33
10908	16	11182	26	12143	28	13106	30	13551	33
11006	23	11183	26	12222	54	13108	30	13552	33
11008	23	11184	26	12224	54	13110	30	13554	33
11010	23	11185	26	12226	54	13112	30	13556	33
11012	23	11188	26	12231	54	13114	30	13558	33
11014	23	11189	26	12235	54	13116	30	13560	33
11016	23	11190	26	12239	54	13118	30	13561	33
11018	23	11191	26	12243	54	13120	30	13562	33
11020	23	11193	26	12245	54	13122	30	13564	33

Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page
13566	33	13712	39	15162	41	15260	42	15730	49
13568	33	13714	39	15164	41	15261	42	15734	49
13570	33	14106	39	15166	41	15262	42	15738	49
13576	33	14108	39	15168	41	15263	42	15742	49
13578	33	14110	39	15170	41	15264	42	15744	49
13580	33	14112	39	15172	41	15265	42	15746	49
13582	33	14114	39	15174	41	15268	42	15748	49
13584	33	14116	39	15175	41	15269	42	15750	49
13586	33	14118	39	15176	41	15270	42	15754	49
13588	33	14120	39	15178	41	15271	42	15812	49
13590	33	14122	39	15180	41	15275	42	15814	49
13592	33	14124	39	15181	41	15277	42	15816	49
13594	33	14126	39	15182	41	15278	42	15818	49
13596	33	14130	40	15184	41	15288	42	15820	49
13600	34	14131	40	15186	41	15290	42	15838	50
13601	34	14134	40	15188	41	15300	42	15840	50
13602	34	14135	40	15189	41	15303	42	15842	50
13603	34	14138	40	15190	41	15315	42	15844	50
13606	34	14139	40	15192	41	15316	42	15846	50
13607	34	14143	40	15194	41	15318	42	15848	50
13608	34	14145	40	15196	41	15331	42	15850	50
13609	34	14147	40	15197	41	15512	46	16106	39
13610	34	14149	40	15198	41	15514	46	16108	39
13611	34	14222	53	15206	41	15516	46	16110	39
13612	34	14224	53	15208	41	15518	46	16112	39
13613	34	14226	53	15210	41	15520	46	16175	45
13614	34	14231	53	15212	41	15522	46	16181	45
13615	34	14235	53	15214	41	15524	46	16188	45
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13624	34	14245	53	15220	41	15530	47	16212	45
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13626	34	14249	53	15229	41	15534	47	16231	45
13627	34	15012	48	15230	41	15535	47	16233	45
13628	34	15014	48	15231	41	15538	47	16251	45
13629	34	15016	48	15232	41	15539	47	16253	45
13630	34	15018	48	15233	41	15543	47	16260	45
13631	34	15020	48	15234	41	15545	47	16300	45
13634	35	15022	48	15235	41	15547	47	17208	51
13635	35	15024	48	15236	41	15549	47	17210	51
13640	35	15026	48	15237	41	15712	49	17212	51
13641	35	15027	48	15251	41	15714	49	17214	51
13651	34	15031	48	15252	41	15716	49	17216	51
13653	35	15035	48	15253	41	15718	49	17218	51
13655	35	15039	48	15254	41	15720	49	17220	51
13657	35	15156	41	15255	41	15722	49	17222	51
13708	39	15158	41	15256	41	15724	49	17224	51
13710	39	15160	41	15257	41	15726	49	17226	51

Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page
17230	51	21010	63	23008	67	26808	70	28220	43
17234	51	21011	63	23010	67	26810	70	28222	43
17238	51	21012	63	23012	67	26812	70	28224	43
17322	52	21013	63	23014	67	27010	70	28226	43
17324	52	21106	64	23016	67	27011	70	28230	43
17326	52	21108	64	23018	67	27012	70	28232	43
17330	52	21110	64	23208	67	27013	70	28234	43
17334	52	21111	64	23504	68	27014	70	28236	43
17338	52	21112	64	23506	68	27015	70	28238	43
17342	52	21113	64	23508	68	27016	70	28240	43
17344	52	21114	64	23510	68	27017	70	28242	43
17346	52	21115	64	23512	68	27018	70	28244	43
17348	52	21116	64	23514	68	27019	70	28246	43
17422	52	21117	64	25004	68	27020	70	28250	43
17424	52	21118	64	25006	68	27021	70	28254	43
17426	52	21119	64	25008	68	27022	70	28260	43
17430	52	21120	64	25010	68	27310	71	28262	43
17434	52	21122	64	25012	68	27311	71	28264	43
17438	52	21206	65	25013	68	27312	71	28266	43
17442	52	21208	65	25014	68	27313	71	28270	43
17444	52	21210	65	25016	68	27314	71	28274	43
17446	52	21211	65	25018	68	27315	71	28314	45
17448	52	21212	65	25019	68	27316	71	28316	45
17526	52	21213	65	25020	68	27317	71	28318	45
17530	52	21258	64	25022	68	27318	71	28320	45
17534	52	21261	64	25030	68	27319	71	28322	45
17538	52	21262	64	25031	68	27320	71	28324	45
17542	52	21306	66	25506	69	27321	71	28326	45
17544	52	21308	66	26608	69	27322	71	28330	45
17546	52	21310	66	26610	69	27510	71	28334	45
17548	52	21311	66	26612	69	27512	71	28336	45
20106	58	21312	66	26614	69	27514	71	28338	45
20108	58	21314	66	26616	69	27516	71	28340	45
20110	58	21316	66	26618	69	27518	71	28342	45
20112	58	21317	66	26638	69	27520	71	28344	45
20113	58	21318	66	26640	69	27522	71	28346	45
20114	60	21319	66	26642	69	27524	71	28350	45
20156	60	21320	66	26644	69	27710	72	30115	72
20158	60	21321	66	26646	69	27712	72	30602	72
20197	50	21322	66	26648	69	27714	72	30604	72
20198	50	21323	66	26708	70	27716	72	30804	73
20204	60	21324	66	26710	70	27718	72	40808	74
20206	61	21325	66	26712	70	27720	72	40810	74
20208	61	21327	66	26714	70	27722	72	40812	74
20209	61	21355	65	26716	70	27724	72	40814	74
20210	62	21356	66	26718	70	28214	43	40858	74
21006	63	21358	66	26720	70	28216	43	40860	74
21008	63	23006	67	26722	70	28218	43	40862	74

Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page
40868	75	41497	78	50220	98	50495	100	50654	102
40870	75	41498	77	50222	98	50496	100	50656	102
40872	75	41499	78	50224	98	50497	100	50657	102
40878	75	41589	78	50226	98	50498	100	50658	102
40880	75	41591	78	50230	22	50499	100	50660	102
40882	75	41593	78	50231	22	50500	100	50662	102
40888	75	41595	78	50232	22	50501	99	50664	102
40890	75	41597	78	50233	22	50509	101	50666	102
40892	75	41599	78	50285	141	50510	101	50667	102
40900	74	41602	79	50307	99	50530	56	50668	102
40902	74	41603	79	50311	99	50532	57	50669	102
40908	76	41604	79	50330	97	50533	57	50670	102
40910	76	41605	79	50336	96	50534	57	50671	102
40912	76	41607	79	50337	96	50535	57	50672	102
40914	76	41608	79	50341	96	50558	101	50674	102
41108	76	41703	79	50350	97	50560	101	50676	102
41110	76	41705	79	50351	97	50562	101	50678	102
41112	76	41708	79	50352	97	50564	101	50680	102
41114	76	50102	96	50353	97	50566	101	50682	102
41208	76	50103	122	50354	97	50568	101	50684	103
41210	76	50104	96,122	50355	97	50570	101	50686	103
41212	76	50105	96	50356	97	50572	101	50688	103
41214	76	50106	96	50357	97	50574	101	50690	103
41308	77	50107	96	50421	104	50576	101	50692	103
41310	77	50108	96	50422	104	50580	101	50694	103
41312	77	50109	96	50424	104	50592	101	50696	103
41314	77	50145	97	50426	104	50614	102	50698	103
41316	77	50148	97	50428	104	50616	102	50699	103
41318	77	50151	97	50440	101	50619	102	50700	61
41378	77	50161	97	50441	101	50620	102	50708	61
41382	77	50165	98	50477	100	50623	102	50710	61
41386	77	50166	98	50478	100	50624	102	50712	103
41400	78	50169	98	50479	99	50625	102	50714	103
41408	80	50175	98	50480	99	50627	102	50716	103
41410	80	50177	98	50481	99	50628	102	50718	103
41412	80	50186	141	50482	99	50629	102	50720	103
41414	80	50188	98	50483	99	50631	102	50722	103
41416	80	50190	98	50484	99	50632	102	50726	103
41418	80	50191	95	50485	99	50634	102	50728	103
41488	77	50193	98	50486	99	50635	102	50730	103
41489	78	50195	98	50487	99	50636	102	50732	103
41490	77	50206	98	50488	99	50638	102	50734	103
41491	78	50208	98	50489	100	50640	102	50736	103
41492	77	50210	98	50490	100	50642	102	50738	103
41493	78	50212	98	50491	100	50644	102	50740	103
41494	77	50214	98	50492	100	50648	102	50742	103
41495	78	50216	98	50493	100	50650	102	50744	103
41496	77	50218	98	50494	100	50652	102	50746	103

Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page
50760	107	50974	105	60778	22	81006	138	92107	149
50761	107	50975	105	60780	22	81008	138	92108	149
50762	107	50976	105	60782	22	81026	138	94102	149
50763	107	50977	105	60784	22	81028	138	94103	149
50764	107	50978	104	60786	22	81031	138	94402	148
50765	107	50979	105	60790	22	81032	138	94403	148
50766	107	50987	105,108,110	70708	13	81035	138	94404	148
50767	107	50988	105	70710	13	81038	138	94405	148
50768	107	50989	105	70712	13	81039	138	94406	148
50769	107	50990	105	70714	13	81044	138	94407	148
50770	107	50991	105,108,110	70716	13	81047	138	94408	148
50771	107	60010	58	70718	13	81048	138	94409	148
50772	107	60110	61	70720	13	81049	138	94410	148
50773	107	60115	62	70722	13	81050	139	94411	148
50800	122	60150	62	70724	13	81060	139	94412	148
50802	123	60155	62	70726	13	81065	139	94413	148
50803	123	60210	73	70730	13	81080	139	94414	148
50805	123	60516	22	70734	13	81091	141	94415	148
50815	122	60520	22	70738	13	81092	139	94416	148
50817	122	60525	22	70758	15	81097	142	94417	149
50820	122	60532	22	70760	15	81286	139	94418	149
50825	123	60540	22	70762	15	81288	141	94419	150
50826	123	60550	22	70764	15	81290	141	94420	150
50828	123	60563	22	70766	15	81291	141	94421	151
50830	123	60575	22	70768	15	81292	142	94422	150
50832	123	60590	22	70770	15	81296	140	94423	150
50857	122	60594	22	70772	15	81297	140	94424	151
50860	122	60595	22	70774	15	81298	141	94425	151
50862	122	60597	22	70776	15	81301	140	94426	151
50890	106	60600	99	70780	15	81302	140	96003	145
50891	106	60604	23	70784	15	81303	142	98900	78
50892	106	60606	23	70788	15	81304	140	98901	78
50893	106	60608	23	78000	73	81506	140	98902	78
50894	106	60610	23	78003	120	81800	142	98903	78
50921	104	60616	23	78300	145	83006	121	99086	144
50922	104	60620	23	78302	145	85121	122	99739	101
50924	104	60625	23	79080	59,114	85123	122	99909	101
50926	104	60632	23	79090	59	90026	144	311174	26
50928	104	60640	23	79095	59,115	90028	144	311176	26
50940	104	60650	22	79096	59	90030	144	311182	26
50941	104	60654	22	79210	144	90036	144	311184	26
50942	104	60658	22	79212	144	90037	144	311188	26
50944	104	60660	22	79220	145	90038	144	311190	26
50946	104	60716	139	79222	145	90504	145	311192	26
50948	104	60720	139	79566	114	90510	144	311194	26
50969	104	60768	22	79990	122,145	90511	144	311196	26
50971	104	60770	22	79992	122,145	90518	144	311198	26
50973	105	60774	22	79994	122,145	92106	149	312130	28

Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page
312134	28	370734	12	779184	118	921011	63	928222	44
312138	28	370738	12	779186	118	921012	63	928224	44
312142	28	370742	12	779188	118	921013	63	928226	44
312530	30	370762	14	779189	118	921014	63	928230	44
312534	30	370764	14	779192	118	921114	64	928232	44
312538	30	370766	14	779199	118	921115	64	928234	44
312542	30	370768	14	779200	118	921116	64	928236	44
313130	31	370770	14	779202	118	921117	64	928238	44
313134	31	370772	14	779203	118	921118	64	928240	44
313138	31	370774	14	779204	118	921119	64	928242	44
313142	31	370776	14	779205	118	921120	64	928244	44
313600	34	370780	14	779206	118	921122	64	928246	44
313602	34	370784	14	779208	118	921208	65	928250	44
313608	34	777030	114	779210	118	921210	65	928254	44
313610	34	777032	114	779212	118	921211	65	928260	44
313612	34	777050	114	779214	118	921212	65	928262	44
313614	34	777052	114	779216	118	921213	65	928264	44
313618	35	777054	114	779220	119	921314	66	928266	44
313624	34	777056	114	779222	119	921316	66	928270	44
313626	34	777070	114	779230	119	921317	66	928274	44
313628	34	777072	114	779232	119	921318	66	1211222	93
313630	34	778300	121	779240	119	921319	66	1211228	93
313634	35	778302	121	779242	119	921320	66	1211230	93
313640	35	778304	121	779250	119	921321	66	1211236	93
313904	34	778306	121	779252	119	921322	66	1211238	93
313906	35	779000	115	779254	119	921323	66	1211240	93
313908	35	779002	115	779256	119	923008	67	1211242	93
313910	35	779004	115	779300	120	923010	67	1211252	93
314130	40	779010	116	779302	120	923012	67	1211253	93
314134	40	779020	116	779304	120	923014	67	1211257	93
314138	40	779030	116	779306	120	923015	67	1211259	93
314142	40	779032	116	779322	120	923016	67	1211263	93
314144	40	779033	116	779324	120	923018	67	1211265	93
315265	42	779034	116	779326	120	923506	68	1214112	95
315271	42	779038	116	779502	121	923508	68	1214114	95
315530	47	779040	117	779512	121	923510	68	1214118	95
315534	47	779050	115	779532	121	923512	68	1214122	95
315538	47	779052	115	779990	121	925006	68	1214124	95
315542	47	779100	117	779992	121	925008	68	1214126	95
370712	12	779102	117	779994	121	925010	68	1214130	95
370714	12	779104	117	779996	121	925012	68	1214134	95
370716	12	779106	117	920108	58	925013	68	1214138	95
370718	12	779160	117	920110	58	925014	68	1214142	95
370720	12	779162	117	920112	58	925016	68	1214212	95
370722	12	779163	117	920113	58	928214	44	1214214	95
370724	12	779164	117	920158	60	928216	44	1214218	95
370726	12	779166	117	921008	63	928218	44	1214220	95
370730	12	779182	118	921010	63	928220	44	1214222	95

Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page
1214224	95	1370712	83	2013625	36	2070196	20	2211211	91
1214226	95	1370713	83	2013627	36	2070198	20	2211213	91
1214230	95	1370714	83	2013629	36	2070708	19	2211215	91
1214234	95	1370715	83	2013631	36	2070710	19	2211217	91
1214238	95	1370716	83	2013635	36	2070758	20	2211219	91
1214242	95	1370717	83	2013641	36	2070760	20	2211221	91
1214244	95	1370718	83	2013651	36	2071112	19	2211223	91
1311274	93	1370719	83	2013653	36	2071114	19	2211225	91
1311276	93	1370720	83	2013655	36	2071116	19	2211229	91
1311282	93	1370721	83	2013657	36	2071118	19	2211233	91
1311284	93	1370722	83	2013663	36	2071120	19	2211237	91
1311288	93	1370723	83	2013665	36	2071122	19	2211275	93
1311290	93	1370724	83	2013667	36	2071124	19	2211277	93
1311296	93	1370725	83	2013669	36	2071126	19	2211283	93
1311298	93	1370726	83	2013671	36	2071130	19	2211285	93
1312112	85	1370729	83	2013676	36	2071134	19	2211289	93
1312114	85	1370730	83	2013678	36	2071138	19	2211291	93
1312116	85	1370741		2013680	36	2071142	19	2211297	93
1312118	85	2010208	21	2013682	36	2071144	19	2211299	93
1312120	85	2010210	21	2013684	36	2071146	19	2212112	85
1312122	85	2010308	21	2013685	36	2071148	19	2212114	85
1312124	85	2010310	21	2013690	36	2071162	20	2212116	85
1312126	85	2010312	21	2013692	36	2170114	21	2212118	85
1312130	85	2012143	28	2013694	36	2170116	21	2212120	85
1312212	84	2012145	28	2013696	36	2170118	21	2212122	85
1312214	84	2012147	28	2013698	36	2170120	21	2212124	85
1312216	84	2012149	28	2013699	36	2170122	21	2212126	85
1312218	84	2012543	30	2013700	36	2170124	21	2212131	85
1312220	84	2012545	30	2041820	79	2170126	21	2212135	85
1312512	84	2012547	30	2041822	79	2170130	21	2212139	85
1312514	84	2012549	30	2041824	79	2170134	21	2212143	85
1312516	84	2013018	32	2041826	79	2170138	21	2212145	85
1312518	84	2013020	32	2041830	80	2170708	21	2212212	84
1312520	84	2013022	32	2041834	80	2170710	21	2212214	84
1312522	84	2013024	32	2041838	80	2171712	21	2212216	84
1312524	84	2013026	32	2041842	80	2211011	91	2212218	84
1312526	84	2013031	32	2070164	20	2211013	91	2212220	84
1312530	84	2013035	32	2070166	20	2211015	91	2212512	84
1313112	85	2013039	32	2070168	20	2211017	91	2212514	84
1313114	85	2013143	31	2070170	20	2211019	91	2212516	84
1313116	85	2013145	31	2070172	20	2211021	91	2212518	84
1313118	85	2013147	31	2070174	20	2211023	91	2212520	84
1313120	85	2013149	31	2070176	20	2211025	91	2212522	84
1313122	85	2013609	36	2070180	20	2211029	91	2212524	84
1313124	85	2013611	36	2070184	20	2211033	91	2212526	84
1313126	85	2013613	36	2070188	20	2211037	91	2212531	84
1313130	85	2013615	36	2070192	20	2211041	91	2212535	84
1370711	83	2013619	36	2070194	20	2211043	91	2212539	84

Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page
2212543	84	2213301	87	2218118	86	2218337	90	2270119	83
2212545	84	2213303	87	2218120	86	2218339	90	2270120	83
2213112	85	2213305	87	2218122	86	2218341	90	2270121	83
2213114	85	2213333	88	2218124	86	2218343	90	2270122	83
2213116	85	2213335	88	2218126	86	2218345	90	2270123	83
2213118	85	2213337	88	2218131	86	2218347	90	2270124	83
2213120	85	2213339	88	2218135	86	2218351	90	2270125	83
2213122	85	2213341	88	2218139	86	2218383	90	2270126	83
2213124	85	2213343	88	2218143	86	2218385	90	2270129	83
2213126	85	2213345	88	2218145	86	2218387	90	2270130	83
2213131	85	2213347	88	2218202	89	2218389	90	2270133	83
2213135	85	2213351	88	2218206	89	2218391	90	2270134	83
2213139	85	2213383	88	2218208	89	2218393	90	2270137	83
2213143	85	2213385	88	2218212	89	2218395	90	2270138	83
2213145	85	2213387	88	2218214	89	2218397	90	2270141	83
2213202	87	2213389	88	2218216	89	2218401	90	2270142	83
2213206	87	2213391	88	2218220	89	2218403	90	2270143	83
2213208	87	2213393	88	2218222	89	2218407	90	2270144	83
2213212	87	2213395	88	2218224	89	2218409	90	2411000	95
2213214	87	2213397	88	2218226	89	2218411	90	2411001	95
2213216	87	2213401	88	2218230	89	2218413	90	2411002	95
2213220	87	2213403	88	2218232	89	2218415	90	2411012	92
2213222	87	2213407	88	2218234	89	2218417	90	2411014	92
2213224	87	2213409	88	2218236	89	2218419	90	2411016	92
2213226	87	2213411	88	2218238	89	2218421	90	2411018	92
2213230	87	2213413	88	2218242	89	2218425	90	2411020	92
2213232	87	2213415	88	2218244	89	2218429	90	2411022	92
2213234	87	2213417	88	2218246	89	2218433	90	2411024	92
2213236	87	2213419	88	2218248	89	2218437	90	2411026	92
2213238	87	2213421	88	2218250	89	2218439	90	2411030	92
2213242	87	2213425	88	2218252	89	2218441	90	2411034	92
2213244	87	2213429	88	2218256	89	2218443	90	2411038	92
2213246	87	2213433	88	2218258	89	2218445	90	2411042	92
2213248	87	2213437	88	2218260	89	2218447	90	2411044	92
2213250	87	2213439	88	2218262	89	2218449	90	2411222	94
2213252	87	2213441	88	2218264	89	2218451	90	2411228	94
2213256	87	2213443	88	2218266	89	2218455	90	2411230	94
2213258	87	2213445	88	2218268	89	2218459	90	2411236	94
2213260	87	2213447	88	2218291	89	2218463	90	2411238	94
2213262	87	2213449	88	2218293	89	2218467	90	2411240	94
2213264	87	2213451	88	2218295	89	2270111	83	2411242	94
2213266	87	2213455	88	2218297	89	2270112	83	2411252	94
2213268	87	2213459	88	2218299	89	2270113	83	2411253	94
2213291	87	2213463	88	2218301	89	2270114	83	2411257	94
2213293	87	2213467	88	2218303	89	2270115	83	2411259	94
2213295	87	2218112	86	2218305	89	2270116	83	2411263	94
2213297	87	2218114	86	2218333	90	2270117	83	2411265	94
2213299	87	2218116	86	2218335	90	2270118	83	2411275	94

Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page
2411277	94	2413206	87	2413391	88	2418297	89	2511182	26
2411283	94	2413208	87	2413393	88	2418299	89	2511184	27
2411285	94	2413212	87	2413395	88	2418301	89	2511188	27
2411289	94	2413214	87	2413397	88	2418303	89	2511190	27
2411291	94	2413216	87	2413401	88	2418305	89	2511193	27
2411297	94	2413220	87	2413403	88	2418333	90	2511195	27
2411299	94	2413222	87	2418112	86	2418335	90	2511197	27
2411305	94	2413224	87	2418114	86	2418337	90	2511199	27
2411307	94	2413226	87	2418116	86	2418339	90	2511201	27
2412112	85	2413230	87	2418118	86	2418341	90	2511203	27
2412114	85	2413232	87	2418120	86	2418343	90	2511204	27
2412116	85	2413234	87	2418122	86	2418345	90	2511206	27
2412118	85	2413236	87	2418124	86	2418347	90	2511207	27
2412120	85	2413238	87	2418126	86	2418351	90	2511208	27
2412122	85	2413242	87	2418131	86	2418383	90	2511209	27
2412124	85	2413244	87	2418135	86	2418385	90	2511210	27
2412126	85	2413246	87	2418139	86	2418387	90	2511211	27
2412131	85	2413248	87	2418202	89	2418389	90	2511212	27
2412135	85	2413250	87	2418206	89	2418391	90	2511216	27
2412139	85	2413252	87	2418208	89	2418393	90	2511217	27
2412212	84	2413256	87	2418212	89	2418395	90	2511218	27
2412214	84	2413258	87	2418214	89	2418397	90	2512130	28
2412216	84	2413260	87	2418216	89	2418401	90	2512134	28
2412218	84	2413262	87	2418220	89	2418403	90	2512138	28
2412220	84	2413264	87	2418222	89	2470113	83	2512142	28
2412512	84	2413266	87	2418224	89	2470114	83	2512144	28
2412514	84	2413268	87	2418226	89	2470115	83	2512146	28
2412516	84	2413291	87	2418230	89	2470116	83	2512148	28
2412518	84	2413293	87	2418232	89	2470117	83	2512150	28
2412520	84	2413295	87	2418234	89	2470118	83	2512154	28
2412522	84	2413297	87	2418236	89	2470119	83	2512230	54
2412524	84	2413299	87	2418238	89	2470120	83	2512234	54
2412526	84	2413301	87	2418242	89	2470121	83	2512238	54
2412531	84	2413303	87	2418244	89	2470122	83	2512242	54
2412535	84	2413305	87	2418246	89	2470123	83	2512244	54
2412539	84	2413333	88	2418248	89	2470124	83	2512246	54
2413112	85	2413335	88	2418250	89	2470125	83	2512248	54
2413114	85	2413337	88	2418252	89	2470126	83	2512530	30
2413116	85	2413339	88	2418256	89	2470129	83	2512534	30
2413118	85	2413341	88	2418258	89	2470130	83	2512538	30
2413120	85	2413343	88	2418260	89	2470133	83	2512542	30
2413122	85	2413345	88	2418262	89	2470134	83	2512544	30
2413124	85	2413347	88	2418264	89	2470137	83	2512546	30
2413126	85	2413351	88	2418266	89	2470138	83	2512548	30
2413131	85	2413383	88	2418268	89	2470711	83	2512550	30
2413135	85	2413385	88	2418291	89	2470712	83	2512554	30
2413139	85	2413387	88	2418293	89	2511174	26	2512630	55
2413202	87	2413389	88	2418295	89	2511176	26	2512634	55

Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page
2512638	55	2513676	37	2515542	47	2712544	84	2713420	88
2512642	55	2513678	38	2515544	47	2713126	85	2713424	88
2512644	55	2513680	38	2515546	47	2713130	85	2713428	88
2512646	55	2513682	38	2515548	47	2713134	85	2713432	88
2512648	55	2513684	38	2515550	47	2713138	85	2713436	88
2513026	32	2513685	38	2515554	47	2713142	85	2713438	88
2513030	32	2513690	37	2541830	80	2713144	85	2713440	88
2513034	32	2513692	38	2541834	80	2713256	87	2713442	88
2513038	32	2513694	38	2541838	80	2713258	87	2713444	88
2513130	31	2513696	38	2541842	80	2713260	87	2713446	88
2513134	31	2513698	38	2570180	20	2713262	87	2713448	88
2513138	31	2513699	38	2570184	20	2713264	87	2713450	88
2513142	31	2513700	38	2570188	20	2713266	87	2713454	88
2513144	31	2513804	37	2570192	20	2713268	87	2713458	88
2513146	31	2513806	38	2570194	20	2713290	87	2713462	88
2513148	31	2513808	38	2570196	20	2713292	87	2713466	88
2513150	31	2513810	38	2570198	20	2713294	87	2718126	86
2513154	31	2513812	38	2570200	20	2713296	87	2718130	86
2513230	56	2513813	38	2570204	20	2713298	87	2718134	86
2513234	56	2513814	38	2711274	93	2713300	87	2718138	86
2513238	56	2513815	38	2711275	94	2713302	87	2718142	86
2513242	56	2513839	37	2711276	93	2713304	87	2718144	86
2513244	56	2513841	38	2711277	94	2713332	88	2718256	89
2513246	56	2513843	38	2711282	93	2713334	88	2718258	89
2513248	56	2513845	38	2711283	94	2713336	88	2718260	89
2513600	37	2513847	38	2711284	93	2713338	88	2718262	89
2513602	37	2513849	38	2711285	94	2713340	88	2718264	89
2513606	37	2513850	38	2711288	93	2713342	88	2718266	89
2513608	37	2513851	38	2711289	94	2713344	88	2718268	89
2513610	37	2514130	40	2711290	93	2713346	88	2718290	89
2513612	37	2514134	40	2711291	94	2713350	88	2718292	89
2513614	37	2514138	40	2711296	93	2713382	88	2718294	89
2513618	38	2514142	40	2711297	94	2713384	88	2718296	89
2513624	37	2514144	40	2711298	93	2713386	88	2718298	89
2513626	37	2514146	40	2711299	94	2713388	88	2718300	89
2513628	37	2514148	40	2711305	94	2713390	88	2718302	89
2513630	37	2514150	40	2711307	94	2713392	88	2718304	89
2513634	38	2514154	40	2712126	85	2713394	88	2718332	90
2513640	38	2514230	53	2712130	85	2713396	88	2718334	90
2513651	37	2514234	53	2712134	85	2713400	88	2718336	90
2513653	38	2514238	53	2712138	85	2713402	88	2718338	90
2513655	38	2514242	53	2712142	85	2713406	88	2718340	90
2513657	38	2514244	53	2712144	85	2713408	88	2718342	90
2513663	37	2514246	53	2712526	84	2713410	88	2718344	90
2513665	38	2514248	53	2712530	84	2713412	88	2718346	90
2513667	38	2515530	47	2712534	84	2713414	88	2718350	90
2513669	38	2515534	47	2712538	84	2713416	88	2718382	90
2513671	38	2515538	47	2712542	84	2713418	88	2718384	90

Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page	Art. no.	Page
2718386	90	3570144	19	5232050	133	5248120	134	5260250	136
2718388	90	3570146	19	5232060	133	5248140	134	5268040	136
2718390	90	3570148	19	5232070	133	5248160	134	5268050	136
2718392	90	3570150	19	5232080	133	5248180	134	5268060	136
2718394	90	3570154	19	5232090	133	5248200	134	5268070	136
2718396	90	5200040	137	5232100	133	5248225	134	5268080	136
2718400	90	5200050	137	5232120	133	5248250	134	5268090	136
2718402	90	5200060	137	5232140	133	5252040	135	5268100	136
2718406	90	5200070	137	5232160	133	5252050	135	5268120	136
2718408	90	5200080	137	5232180	133	5252060	135	5268140	136
2718410	90	5200090	137	5232200	133	5252070	135	5268160	136
2718412	90	5200100	137	5232225	133	5252080	135	5268180	136
2718414	90	5200120	137	5232250	133	5252090	135	5268200	136
2718416	90	5200140	137	5236040	133	5252100	135	5268225	136
2718418	90	5200160	137	5236050	133	5252120	135	5268250	136
2718420	90	5200180	137	5236060	133	5252140	135	5280040	137
2718424	90	5200200	137	5236070	133	5252160	135	5280050	137
2718428	90	5200225	137	5236080	133	5252180	135	5280060	137
2718432	90	5200250	137	5236090	133	5252200	135	5280070	137
2718436	90	5224040	132	5236100	133	5252225	135	5280080	137
2718438	90	5224050	132	5236120	133	5252250	135	5280090	137
2718440	90	5224060	132	5236140	133	5256040	135	5280100	137
2718442	90	5224070	132	5236160	133	5256050	135	5280120	137
2718444	90	5224080	132	5236180	133	5256060	135	5280140	137
2718446	90	5224090	132	5236200	133	5256070	135	5280160	137
2718448	90	5224100	132	5236225	133	5256080	135	5280180	137
2718450	90	5224120	132	5236250	133	5256090	135	5280200	137
2718454	90	5224140	132	5240040	134	5256100	135	5280225	137
2718458	90	5224160	132	5240050	134	5256120	135	5280250	137
2718462	90	5224180	132	5240060	134	5256140	135	6256060	138
2718466	90	5224200	132	5240070	134	5256160	135	6256118	138
2770125	83	5224225	132	5240080	134	5256180	135		
2770126	83	5224250	132	5240090	134	5256200	135		
2770129	83	5228040	132	5240100	134	5256225	135		
2770130	83	5228050	132	5240120	134	5256250	135		
2770133	83	5228060	132	5240140	134	5260040	136		
2770134	83	5228070	132	5240160	134	5260050	136		
2770137	83	5228080	132	5240180	134	5260060	136		
2770138	83	5228090	132	5240200	134	5260070	136		
2770141	83	5228100	132	5240225	134	5260080	136		
2770142	83	5228120	132	5240250	134	5260090	136		
2770143	83	5228140	132	5248040	134	5260100	136		
2770144	83	5228160	132	5248050	134	5260120	136		
3570125	19	5228180	132	5248060	134	5260140	136		
3570130	19	5228200	132	5248070	134	5260160	136		
3570134	19	5228225	132	5248080	134	5260180	136		
3570138	19	5228250	132	5248090	134	5260200	136		
3570142	19	5232040	133	5248100	134	5260225	136		

WORKING PRESSURE

PERMISSIBLE WORKING PRESSURE – POTABLE WATER

Fluid transported: water acc. to DIN 2000

Temperature	Years of service	aquatherm green pipe SDR 11 S	aquatherm green pipe SDR 7.4 S	aquatherm green pipe SDR 6 S	aquatherm green pipe SDR 7.4 MF	aquatherm green pipe SDR 9 MF RP					
		Permissible working pressure in bar and (psi)									
		bar	(psi)	bar	(psi)	bar	(psi)	bar	(psi)	bar	(psi)
20 °C 68 °F	1	15,0	(218)	23,8	(345)	30,0	(435)	28,6	(415)	25,0	(363)
	5	14,1	(205)	22,3	(323)	28,1	(408)	26,8	(389)	24,2	(351)
	10	13,7	(199)	21,7	(315)	27,3	(396)	26,1	(379)	23,9	(347)
	25	13,3	(193)	21,1	(306)	26,5	(384)	25,3	(367)	23,5	(341)
	50	12,9	(187)	20,4	(296)	25,7	(373)	24,5	(355)	23,1	(335)
30 °C 86 °F	1	12,8	(186)	20,2	(293)	25,5	(370)	24,3	(352)	21,7	(315)
	5	12,0	(174)	19,0	(276)	23,9	(347)	22,8	(331)	21,0	(305)
	10	11,6	(168)	18,3	(265)	23,1	(335)	22,0	(319)	20,6	(299)
	25	11,2	(162)	17,7	(257)	22,3	(323)	21,3	(309)	20,2	(293)
	50	10,9	(158)	17,3	(251)	21,8	(316)	20,7	(300)	19,9	(289)
Potable water (cold) Potable water (warm)	40 °C 104 °F	1	17,1	(248)	21,5	(312)	20,5	(297)	18,7	(271)	
		5	16,0	(232)	20,2	(293)	19,2	(278)	18,0	(261)	
		10	15,6	(226)	19,6	(284)	18,7	(271)	17,7	(257)	
		25	15,0	(218)	18,8	(273)	18,0	(261)	17,3	(252)	
		50	14,5	(210)	18,3	(265)	17,5	(254)	17,1	(247)	
	50 °C 122 °F	1	14,5	(210)	18,3	(265)	17,5	(254)	15,9	(231)	
		5	13,5	(196)	17,0	(247)	16,2	(235)	15,3	(222)	
		10	13,1	(190)	16,5	(239)	15,7	(228)	15,1	(219)	
		25	12,6	(183)	15,9	(231)	15,2	(220)	14,7	(215)	
		50	12,2	(177)	15,4	(223)	14,7	(213)	14,5	(210)	
	60 °C 140 °F	1	12,2	(177)	15,4	(223)	14,7	(213)	13,5	(196)	
		5	11,4	(165)	14,3	(207)	13,7	(199)	13,0	(189)	
		10	11,0	(160)	13,8	(200)	13,2	(191)	12,7	(186)	
		25	10,5	(152)	13,3	(193)	12,6	(183)	12,4	(181)	
		50	10,1	(146)	12,7	(184)	12,1	(175)	12,2	(178)	
	65 °C 149 °F	1	11,6	(168)	14,6	(212)	13,9	(202)	12,4	(180)	
		5	10,8	(157)	13,6	(197)	12,9	(187)	11,9	(173)	
		10	10,4	(151)	13,1	(190)	12,5	(181)	11,7	(170)	
		25	10,0	(145)	12,6	(183)	12,0	(174)	11,4	(165)	
		50	8,8	(128)	11,1	(161)	10,6	(154)	11,2	(162)	
	70 °C 158 °F	1	10,3	(149)	13,0	(189)	12,4	(180)	11,4	(165)	
		5	9,5	(138)	11,9	(173)	11,4	(165)	10,9	(158)	
		10	9,3	(135)	11,7	(170)	11,1	(161)	10,7	(155)	
		25	8,0	(116)	10,1	(146)	9,6	(139)	10,4	(152)	
		30	7,0	(102)	8,8	(128)	9,3	(135)	10,3	(149)	
		50	6,7	(97)	8,5	(123)	8,1	(117)	10,2	(148)	
Faser composite pipe: high working stress at lower wall thickness and higher flow rate											

SDR = Standard Dimension Ratio (diameter/wall thickness ratio)

S = single-layer

MF = multi-layer faser

MF RP = multi-layer faser – raised pressure resistance

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.

PERMISSIBLE WORKING PRESSURE

for general pressure pipe applications (no potable water) in permanent operation outside the application areas shown on the previous page.

Temperature	Years of service	aquatherm blue pipe SDR 17,6 MF RP		aquatherm blue pipe SDR 11 MF RP		aquatherm blue pipe SDR 11 S		aquatherm green pipe SDR 7.4 MF		aquatherm green pipe SDR 9 MF RP	
		Permissible working pressure in bar and (psi)									
		bar	(psi)	bar	(psi)	bar	(psi)	bar	(psi)	bar	(psi)
10 °C 50 °F	10	13,1	(190,0)	25,3	(366,9)	19,3	(279,9)	27,7	(402)	27,5	(399)
	25	12,9	(187,1)	24,7	(358,2)	18,7	(271,2)	26,9	(390)	27,1	(393)
	50	12,7	(184,2)	24,1	(349,5)	18,2	(264,0)	26,1	(379)	26,7	(387)
	100	12,6	(182,7)	23,5	(340,8)	17,8	(258,2)	25,2	(366)	26,3	(381)
15 °C 59 °F	10	12,3	(178,4)	23,4	(338,7)	17,8	(258,2)	26,9	(390)	25,7	(373)
	25	12,1	(175,5)	22,8	(330,7)	17,2	(249,5)	26,1	(379)	25,2	(366)
	50	11,9	(172,6)	22,2	(322,0)	16,8	(243,7)	25,3	(367)	24,9	(361)
	100	11,7	(169,7)	21,6	(313,3)	16,3	(236,4)	24,5	(355)	24,5	(355)
20 °C 68 °F	10	11,4	(165,3)	21,4	(310,4)	16,4	(237,9)	26,1	(379)	23,9	(347)
	25	11,2	(162,4)	21,0	(304,6)	15,9	(230,6)	25,3	(367)	23,5	(341)
	50	11,0	(159,5)	20,4	(295,9)	15,4	(223,4)	24,5	(355)	23,1	(335)
	100	10,9	(158,1)	19,9	(288,6)	15,0	(217,6)	23,7	(344)	22,8	(331)
30 °C 86 °F	10	9,8	(142,1)	18,3	(265,4)	13,9	(201,6)	22,0	(319)	20,6	(299)
	25	9,6	(139,2)	17,8	(258,2)	13,4	(194,4)	21,3	(309)	20,2	(293)
	50	9,5	(137,8)	17,3	(250,9)	13,0	(188,5)	20,7	(300)	19,9	(289)
	100	9,4	(136,3)	16,8	(243,7)	12,7	(184,2)	20,0	(290)	19,7	(286)
40 °C 104 °F	10	8,4	(121,8)	15,5	(224,8)	11,8	(171,1)	18,7	(271)	17,7	(257)
	25	8,3	(120,4)	15,0	(217,6)	11,3	(163,9)	18,0	(261)	17,3	(251)
	50	8,1	(117,5)	14,6	(211,8)	11,0	(159,5)	17,5	(254)	17,1	(248)
	100	8,0	(116,0)	14,1	(204,5)	10,7	(155,2)	16,8	(244)	16,8	(244)
50 °C 122 °F	10	7,2	(104,4)	13,0	(188,5)	9,9	(143,6)	15,7	(228)	15,1	(219)
	25	7,0	(101,5)	12,6	(182,7)	9,5	(137,8)	15,2	(220)	14,7	(213)
	50	6,9	(100,1)	12,2	(176,9)	9,2	(133,4)	14,7	(213)	14,5	(210)
	100	6,8	(98,6)	11,9	(172,6)	9,0	(130,5)	14,1	(205)	14,3	(207)
60 °C 140 °F	10	6,1	(88,5)	10,9	(158,1)	8,3	(120,4)	13,2	(191)	12,7	(184)
	25	5,9	(85,6)	10,6	(153,7)	8,0	(116,0)	12,6	(183)	12,4	(180)
	50	5,8	(84,1)	10,3	(149,4)	7,7	(111,7)	12,1	(175)	12,2	(177)
70 °C 158 °F	10	5,1	(74,0)	8,5	(123,3)	7,0	(101,5)	11,1	(161)	10,7	(155)
	25	5,0	(72,5)	8,3	(120,4)	6,0	(87,0)	9,6	(139)	10,4	(151)
	50	4,9	(71,1)	8,1	(117,5)	5,1	(74,0)	8,1	(117)	10,2	(148)
75 °C 167 °F	10	4,6	(66,7)	7,7	(111,7)	6,0	(87,0)	10,0	(145)	9,7	(141)
	25	4,5	(65,3)	7,6	(110,2)	4,8	(69,6)	8,0	(116)	9,5	(138)
	50	4,4	(63,8)	7,3	(105,9)	4,0	(58,0)	6,7	(97)	9,3	(135)
80 °C 176 °F	5	4,3	(62,4)	7,2	(104,4)	5,7	(82,7)	9,2	(133)	9,0	(131)
	10	4,2	(60,9)	7,0	(101,5)	4,8	(69,6)	7,8	(113)	8,9	(129)
	25	4,1	(59,5)	6,8	(98,6)	3,9	(56,6)	6,2	(90)	8,6	(125)
90 °C 194 °F	5	3,5	(50,8)	5,9	(85,6)	3,7	(53,7)	6,0	(87)	7,4	(107)
	10	3,4	(49,3)	5,8	(84,1)	3,2	(46,4)	5,1	(74)	7,3	(106)

SDR = Standard Dimension Ratio (diameter/wall thickness ratio)

S = single-layer

MF = multi-layer faser

MF RP = multi-layer faser – raised pressure resistance

For fittings of butt-welded pipe segments a reduction factor of 0.75 (reduction of the table values by 25 %) is effective.

FURTHER INFORMATION

aquatherm green pipe

pipe system for potable water supply

Ord.-No.: E10101

aquatherm blue pipe

for chilled, hot fluid and various industrial applications

Ord.-No.: E10050

aquatherm red pipe

sprinkler pipe system

Ord.-No.: E40000

aquatherm orange system

underfloor heating systems

Ord.-No.: E90001

aquatherm black system

heating and cooling system for ceiling, floor and wall

Ord.-No.: E97060

aquatherm grey pipe

potable water and radiator connection system

Ord.-No.: E70001

aquatherm

article list

Ord.-No.: E54152

aquatherm

reference catalogue

Ord.-No.: E57002

aquatherm ti

district heating pipeline systems

Ord.-No.: E30000

aquatherm Prefabrication

planning and fabrication of manifolds and special components

Ord.-No.: E18198

For more information, please contact our information service at **+49 2722 950 0**
or simply visit the download area at our website **www.aquatherm.de**.