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2020



PRODUCT CATALOGUE 2020



aquatherm

state of the pipe



NEW ARTICLES SINCE THE LAST VERSION

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aquatherm control components

140	94402	aquatherm heating circuit manifold with flow indicator 2-fold	140	94414	aquatherm ball valve set corner design
140	94403	aquatherm heating circuit manifold with flow indicator 3-fold	140	94415	aquatherm Strangregulierset für Verteiler
140	94404	aquatherm heating circuit manifold with flow indicator 4-fold	140	94416	aquatherm line control valve set for manifold
140	94405	aquatherm heating circuit manifold with flow indicator 5-fold	141	94417	aquatherm central radio unit
140	94406	aquatherm heating circuit manifold with flow indicator 6-fold	141	94418	aquatherm radio room thermostat
140	94407	aquatherm heating circuit manifold with flow indicator 7-fold	142	94419	aquatherm radio room thermostat (programmable)
140	94408	aquatherm heating circuit manifold with flow indicator 8-fold	142	94420	aquatherm radio room thermostat
140	94409	aquatherm heating circuit manifold with flow indicator 9-fold	143	94421	aquatherm management module
140	94410	aquatherm heating circuit manifold with flow indicator 10-fold	142	94422	aquatherm radio control distributor
140	94411	aquatherm heating circuit manifold with flow indicator 11-fold	142	94423	aquatherm radio control distributor 4-fold
140	94412	aquatherm heating circuit manifold with flow indicator 12-fold	143	94424	aquatherm single radio receiver
140	94413	aquatherm ball valve set	143	94425	aquatherm radio repeater
			143	94426	aquatherm dewpoint sensor

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aquatherm green pipe

14	10106	aquatherm green pipe SDR 6 pipe 16 mm; only on request
14	10108	aquatherm green pipe SDR 6 S pipe 20 mm; only on request
14	10110	aquatherm green pipe SDR 6 S pipe 25 mm; only on request
14	10906	aquatherm green pipe SDR 7.4 pipe 16 mm; only on request
14	10908	aquatherm green pipe SDR 7.4 pipe 20 mm; only on request
15	10244	aquatherm green pipe SDR 11 S pipe 355 mm
15	10246	aquatherm green pipe SDR 11 MF pipe 400 mm
15	10248	aquatherm green pipe SDR 11 MF pipe 450 mm
15	10308	aquatherm green pipe SDR 11 S pipe 20 mm; only on request
15	10310	aquatherm green pipe SDR 11 S pipe 25 mm; only on request
15	10312	aquatherm green pipe SDR 11 S pipe 32 mm; only on request
22	10186	aquatherm pipe support 10.4 mm
22	85110	aquatherm pipe support 11.4 mm
71	98904	aquatherm green pipe extension for ball valve; only on request
71	98905	aquatherm green pipe extension for ball valve; only on request
71	98906	aquatherm green pipe extension for ball valve; only on request

aquatherm blue pipe

17	2070712	aquatherm blue pipe SDR 7.4 MF 32 mm
17	2570152	aquatherm blue pipe SDR 17.6 MF 560 mm
18	2070762	aquatherm blue pipe SDR 7.4 MF UV 32 mm
18	2570194–2570204	aquatherm blue pipe SDR 17.6 355–630 mm
19	2010308	aquatherm blue pipe SDR 11 S pipe 20 mm; only on request
19	2010310	aquatherm blue pipe SDR 11 S pipe 25 mm; only on request
19	2010312	aquatherm blue pipe SDR 11 S pipe 32 mm; only on request
19	2170712	aquatherm blue pipe SDR 7.4 MF OT 32 mm
21	60788	aquatherm blue pipe pipe clamp 560 mm
26	2511211–2511212	aquatherm blue pipe SDR 17.6 red. socket 500 mm; only on request
26	2511213–2511215	aquatherm SDR 17.6 red. socket 560 mm
26	2511216–2511218	aquatherm blue pipe SDR 17.6 red. socket 630 mm; only on request
26	2511219	aquatherm blue pipe SDR 17.6 red. socket 630 mm
26	2512152	aquatherm blue pipe SDR 17.6 elbow 90° butt welding 560 mm
28	2512552	aquatherm blue pipe SDR 17.6 elbow 45° butt welding 560 mm
29	2513130	aquatherm blue pipe SDR 17.6 t-piece 160–250 mm
29	2513152	aquatherm blue pipe SDR 17.6 t-piece 560 mm
35	2513821	aquatherm blue pipe SDR 17.6 Red.-T-Stück 560 mm
35	2513823–2513833	aquatherm blue pipe SDR 17.6 red.-t-piece socket 560 mm
36	2513852	aquatherm blue pipe SDR 17.6 red.-t-piece 560 mm
38	2514152	aquatherm blue pipe SDR 17.6 end cap butt welding 560 mm
45	2515552	aquatherm blue pipe SDR 17.6 flange adapter butt welding 560 mm
45	2515554	aquatherm blue pipe SDR 17.6 flange adapter butt welding 630 mm; only on request
47	15752	aquatherm blue pipe SDR 17.6 plastic coated steel flange 560 mm
73	2041920–2041926	aquatherm blue pipe non-return valve 75–125 mm
73	2041930–2041942	aquatherm blue pipe SDR11 non-return valve 160–315 mm
73	2541930	aquatherm blue pipe SDR 17.6 non-return valve 160–315 mm

aquatherm lilac pipe

20	9010808	aquatherm lilac pipe SDR 7.4 20 mm
20	9010810	aquatherm lilac pipe SDR 7.4 25 mm
20	9010212	aquatherm lilac pipe SDR 11 32 mm
20	9010214	aquatherm lilac pipe SDR 11 40 mm
20	9010216	aquatherm lilac pipe SDR 11 50 mm
20	9010218	aquatherm lilac pipe SDR 11 63 mm
20	9010220	aquatherm lilac pipe SDR 11 75 mm
20	9010222	aquatherm lilac pipe SDR 11 90 mm
20	9010224	aquatherm lilac pipe SDR 11 110 mm
20	9010226	aquatherm lilac pipe SDR 11 125 mm

aquatherm ti

77	1370733	aquatherm green pipe ti SDR 9 5.8 m 200 mm
77	1370734	aquatherm green pipe ti SDR 9 11.6 m 200 mm
77	1370737	aquatherm green pipe ti SDR 9 5.8 m 250 mm
77	1370738	aquatherm green pipe ti SDR 9 11.6 m 250 mm
77	1370741	aquatherm green pipe ti SDR 9 5.8 m 315 mm
77	1370742	aquatherm green pipe ti SDR 9 11.6 m 315 mm
77	1370743	aquatherm green pipe ti SDR 9 5.8 m 355 mm
77	1370744	aquatherm green pipe ti SDR 9 11.6 m 355 mm
78	1312534	aquatherm green pipe ti SDR 9 elbow 45° 200 mm
78	1312538	aquatherm green pipe ti SDR 9 elbow 45° 250 mm
78	1312542	aquatherm green pipe ti SDR 9 elbow 45° 315 mm
78	1312544	aquatherm green pipe ti SDR 9 elbow 45° 355 mm
79	1312134	aquatherm green pipe ti SDR 9 elbow 90° 200 mm
79	1312138	aquatherm green pipe ti SDR 9 elbow 90° 250 mm
79	1312142	aquatherm green pipe ti SDR 9 elbow 90° 315 mm
79	1312144	aquatherm green pipe ti SDR 9 elbow 90° 355 mm
79	1313134	aquatherm green pipe ti SDR 9 branch 200 mm
79	1313138	aquatherm green pipe ti SDR 9 branch 250 mm
79	1313142	aquatherm green pipe ti SDR 9 branch 315 mm
79	1313144	aquatherm green pipe ti SDR 9 branch 355 mm
80	1318112	aquatherm green pipe ti SDR 9 cross-over branch 32 mm
80	1318114	aquatherm green pipe ti SDR 9 cross-over branch 40 mm
80	1318116	aquatherm green pipe ti SDR 9 cross-over branch 50 mm
80	1318118	aquatherm green pipe ti SDR 9 cross-over branch 63 mm
80	1318120	aquatherm green pipe ti SDR 9 cross-over branch 75 mm
80	1318122	aquatherm green pipe ti SDR 9 cross-over branch 90 mm
80	1318124	aquatherm green pipe ti SDR 9 cross-over branch 110 mm
80	1318126	aquatherm green pipe ti SDR 9 cross-over branch 125 mm
80	1318130	aquatherm green pipe ti SDR 9 cross-over branch 160 mm
80	1318134	aquatherm green pipe ti SDR 9 cross-over branch 200 mm
80	1318138	aquatherm green pipe ti SDR 9 cross-over branch 250 mm
80	1318142	aquatherm green pipe ti SDR 9 cross-over branch 315 mm
80	1318144	aquatherm green pipe ti SDR 9 cross-over branch 355 mm
81	1313202	aquatherm green pipe ti SDR 9 red.-branch 40 mm
81	1313206–1313208	aquatherm green pipe ti SDR 9 red.-branch 50 mm
81	1313212–1313216	aquatherm green pipe ti SDR 9 red.-branch 63 mm
81	1313220–1313226	aquatherm green pipe ti SDR 9 red.-branch 75 mm
81	1313230–1313238	aquatherm green pipe ti SDR 9 red.-branch 90 mm
81	1313242–1313252	aquatherm green pipe ti SDR 9 red.-branch 110 mm
81	1313256–1313268	aquatherm green pipe ti SDR 9 red.-branch 125 mm
81	1313290–1313304	aquatherm green pipe ti SDR 9 red.-branch 160 mm
82	1313332–1313350	aquatherm green pipe ti SDR 9 red.-branch 200 mm

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.

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82	1313382–1313402	aquatherm green pipe ti SDR 9 red.-branch 250 mm
82	1313432	aquatherm green pipe ti SDR 9 red.-branch 315 mm
82	1313436–1313466	aquatherm green pipe ti SDR 9 red.-branch 355 mm
83	1318202	aquatherm green pipe ti SDR 9 red. cross-over branch 40 mm
83	1318206–1318208	aquatherm green pipe ti SDR 9 red. cross-over branch 50 mm
83	1318212–1318216	aquatherm green pipe ti SDR 9 red. cross-over branch 63 mm
83	1318220–1318226	aquatherm green pipe ti SDR 9 red. cross-over branch 75 mm
83	1318230–1318238	aquatherm green pipe ti SDR 9 red. cross-over branch 90 mm
83	1318242–1318252	aquatherm green pipe ti SDR 9 red. cross-over branch 110 mm
83	1318256–1318268	aquatherm green pipe ti SDR 9 red. cross-over branch 125 mm
83	1318290–1318304	aquatherm green pipe ti SDR 9 red. cross-over branch 160 mm
84	1318332–1318350	aquatherm green pipe ti SDR red. cross-over branch 200 mm
84	1318382–1318402	aquatherm green pipe ti SDR red. cross-over branch 250 mm
84	1318406–1318432	aquatherm green pipe ti SDR red. cross-over branch 315 mm
84	1318436–1318466	aquatherm green pipe ti SDR red. cross-over branch 355 mm
88	1311275	aquatherm green pipe ti insulation-red.-socket-set 160/110 mm SDR9
88	1311277	aquatherm green pipe ti insulation-red.-socket-set 160/125 mm SDR9
88	1311283	aquatherm green pipe ti insulation-red.-socket-set 200/125 mm SDR9
88	1311285	aquatherm green pipe ti insulation-red.-socket-set 200/160 mm SDR9
88	1311289	aquatherm green pipe ti insulation-red.-socket-set 250/160 mm SDR9
88	1311291	aquatherm green pipe ti insulation-red.-socket-set 250/200 mm SDR9
88	1311297	aquatherm green pipe ti insulation-red.-socket-set 315/200 mm SDR9
88	1311299	aquatherm green pipe ti insulation-red.-socket-set 315/250 mm SDR9
88	1311305	aquatherm green pipe ti insulation-red.-socket-set 355/250 mm SDR9
88	1311307	aquatherm green pipe ti insulation-red.-socket-set ti 355/315 mm SDR9

aquatherm Prefabrication

108	7270729–7270743	aquatherm green pipe SDR 9 pipe two-sided 5.8m
108	7310229–7310247	aquatherm green pipe SDR 11 pipe two-sided 5.8m
108	8370129–8370147	aquatherm blue pipe SDR 11 pipe two-sided 5.8m
108	8570129–8570137	aquatherm blue pipe ot SDR 11 pipe two-sided 5.8m
108	8470129–8470153	aquatherm blue pipe SDR 17.6 pipe two-sided 5.8m
108	7270730–7270744	aquatherm green pipe SDR 9 pipe two-sided 11.6m
108	7310230–7310248	aquatherm green pipe SDR 11 pipe two-sided 11.6m
108	8370130–8370148	aquatherm blue pipe SDR 11 pipe two-sided 11.6m
108	8570130–8570138	aquatherm blue pipe ot SDR 11 pipe two-sided 11.6m
108	8470130–8470154	aquatherm blue pipe SDR 17.6 pipe two-sided 11.6m
108	7270829–7270843	aquatherm green pipe SDR 9 pipe one-sided 5.8m
108	7310329–7310347	aquatherm green pipe SDR 11 pipe one-sided 5.8m
108	8370329–8370347	aquatherm blue pipe SDR 11 pipe one-sided 5.8m
108	8570329–8570337	aquatherm blue pipe ot SDR 11 pipe one-sided 5.8m
108	8470329–8470353	aquatherm blue pipe ot SDR 17.6 pipe one-sided 5.8m
109	7270830–7270844	aquatherm green pipe SDR 9 pipe one-sided 11.6m
109	7310330–7310348	aquatherm green pipe SDR 11 pipe one-sided 11.6m
109	8370330–8370348	aquatherm blue pipe SDR 11 pipe one-sided 11.6m
109	8570330–8570338	aquatherm blue pipe ot SDR 11 pipe one-sided 11.6m
109	8470330–8470354	blue pipe SDR 17.6 pipe one-sided 11.6m
109	7212130–7212144	aquatherm green pipe SDR 9 elbow 90° two-sided
109	7312131–7312149	aquatherm green pipe SDR 11 elbow 90° two-sided
109	8312131–8312149	aquatherm blue pipe SDR 11 elbow 90° two-sided
109	8512131–8512139	aquatherm blue pipe ot SDR 11 elbow 90° two-sided
109	8412130–8412154	aquatherm blue pipe SDR 17.6 elbow 90° two-sided
110	7470729–7470743	aquatherm green pipe ti SDR 9 pipe two-sided 5.8m
110	8770129–8770143	aquatherm blue pipe ti SDR 11 pipe two-sided 5.8m
110	8970129–8970137	aquatherm blue pipe ot ti SDR 11 pipe two-sided 5.8m
110	8870129–8870143	aquatherm blue pipe ot ti SDR 17.6 pipe two-sided 5.8m
110	7470730–7470744	aquatherm green pipe ti SDR 9 pipe two-sided 11.6m
110	8770130–8770144	aquatherm green blue ti SDR 11 pipe two-sided 11.6m
110	8970130–8970138	aquatherm green blue ot ti SDR 11 pipe two-sided 11.6m
110	8870130–8870144	aquatherm green blue ti SDR 17.6 pipe two-sided 11.6m
110	7470829–7470843	aquatherm green pipe ti SDR 9 pipe one-sided 5.8m
110	8770329–8770343	aquatherm blue pipe ti SDR 11 pipe one-sided 5.8m
110	8970329–8970337	aquatherm blue pipe ot ti SDR 11 pipe one-sided 5.8m
110	8870329–8870343	aquatherm blue pipe ti SDR 17.6 pipe one-sided 5.8m
111	7470830–7470844	aquatherm green pipe ti SDR 9 pipe one-sided 11.6m
111	8770330–8770344	aquatherm blue pipe ti SDR 11 pipe one-sided 11.6m
111	8970330–8970338	aquatherm blue pipe ot ti SDR 11 pipe one-sided 11.6m
111	8870330–8870344	aquatherm blue pipe ti SDR 17.6 pipe one-sided 11.6m
111	7412130–7412144	aquatherm green pipe ti SDR 9 elbow 90° two-sided
111	8712131–8712145	aquatherm blue pipe ti SDR 11 elbow 90° two-sided
111	8912131–8912139	aquatherm blue pipe ot ti SDR 11 elbow 90°
111	8812130–8812144	aquatherm blue pipe ti SDR 17.6 elbow 90° two-sided

aquatherm Tools

98	50954	aquatherm drill 110 mm
98	50956	aquatherm drill 125 mm
98	50958	aquatherm drill 160 mm

aquatherm grey pipe

117	779110–779140	aquatherm grey pipe reducing tee
120	778050	aquatherm grey pipe universal manifold triple
120	778052	aquatherm grey pipe universal manifold fourfold
121	778054	aquatherm grey pipe universal manifold fivefold
121	778200–778206	aquatherm grey pipe distribution block
121	78220	Insulation for aquatherm grey pipe distribution block
121	78228	aquatherm grey pipe end piece
122	778308	aquatherm grey pipe adapter 32 mm green x 25 mm grey
122	778320	aquatherm grey pipe adapter 16 mm green x 16 mm grey
122	778404–778408	aquatherm grey pipe weld-in saddle adapter
124	50814	aquatherm grey pipe false jaws for expanding tool 10 mm
124	83306	aquatherm grey pipe radiator connection piece
125	50804	aquatherm grey pipe tool case für 16-20 mm
125	50824	aquatherm grey pipe tool insert 10 mm

aquatherm orange system

142	90024	aquatherm orange system surface heating and radiator connecting pipe 16x2 mm
142	90027	aquatherm orange system surface heating and radiator connecting pipe 17x2 mm
142	90034	aquatherm orange system surface heating and radiator connecting pipe (PE-RT) 14x2 mm
142	90306	aquatherm orange system surface heating and radiator connecting pipe (PB) 16x2 mm
142	90316	aquatherm orange system surface heating and radiator connecting pipe (PB) 16x2 mm
143	92104	aquatherm orange system euroconus connector 14x2 mm
144	78404	aquatherm orange system weld-in saddle adapter 40 x 20 mm
144	78408	aquatherm orange system weld-in saddle adapter 50 x 20 mm
148	92162	aquatherm orange system fixed command control
148	92163	aquatherm orange system flow indicator for fixed value setting

aquatherm black system

Connection type 52, only on request:

130	5224275	aquatherm black system heating and cooling grid 0,24 x 2,75 m
130	5224300	aquatherm black system heating and cooling grid 0,24 x 3,00 m
130	5224325	aquatherm black system heating and cooling grid 0,24 x 3,25 m
130	5224350	aquatherm black system heating and cooling grid 0,24 x 3,50 m
130	5224375	aquatherm black system heating and cooling grid 0,24 x 3,75 m
130	5224400	aquatherm black system heating and cooling grid 0,24 x 4,00 m
130	5224425	aquatherm black system heating and cooling grid 0,24 x 4,25 m
130	5224450	aquatherm black system heating and cooling grid 0,24 x 4,50 m
130	5224475	aquatherm black system heating and cooling grid 0,24 x 4,75 m
130	5224500	aquatherm black system heating and cooling grid 0,24 x 5,00 m
130	5228275	aquatherm black system heating and cooling grid 0,28 x 2,75 m
130	5228300	aquatherm black system heating and cooling grid 0,28 x 3,00 m
130	5228325	aquatherm black system heating and cooling grid 0,28 x 3,25 m
130	5228350	aquatherm black system heating and cooling grid 0,28 x 3,50 m
130	5228375	aquatherm black system heating and cooling grid 0,28 x 3,75 m
130	5228400	aquatherm black system heating and cooling grid 0,28 x 4,00 m
130	5228425	aquatherm black system heating and cooling grid 0,28 x 4,25 m
130	5228450	aquatherm black system heating and cooling grid 0,28 x 4,50 m
130	5228475	aquatherm black system heating and cooling grid 0,28 x 4,75 m
130	5228500	aquatherm black system heating and cooling grid 0,28 x 5,00 m
131	5232275	aquatherm black system heating and cooling grid 0,32 x 2,75 m
131	5232300	aquatherm black system heating and cooling grid 0,32 x 3,00 m
131	5232325	aquatherm black system heating and cooling grid 0,32 x 3,25 m
131	5232350	aquatherm black system heating and cooling grid 0,32 x 3,50 m
131	5232375	aquatherm black system heating and cooling grid 0,32 x 3,75 m
131	5232400	aquatherm black system heating and cooling grid 0,32 x 4,00 m
131	5232425	aquatherm black system heating and cooling grid 0,32 x 4,25 m
131	5232450	aquatherm black system heating and cooling grid 0,32 x 4,50 m
131	5232475	aquatherm black system heating and cooling grid 0,32 x 4,75 m
131	5232500	aquatherm black system heating and cooling grid 0,32 x 5,00 m
131	5236275	aquatherm black system heating and cooling grid 0,36 x 2,75 m
131	5236300	aquatherm black system heating and cooling grid 0,36 x 3,00 m
131	5236325	aquatherm black system heating and cooling grid 0,36 x 3,25 m
131	5236350	aquatherm black system heating and cooling grid 0,36 x 3,50 m
131	5236375	aquatherm black system heating and cooling grid 0,36 x 3,75 m
131	5236400	aquatherm black system heating and cooling grid 0,36 x 4,00 m
131	5236425	aquatherm black system heating and cooling grid 0,36 x 4,25 m
131	5236450	aquatherm black system heating and cooling grid 0,36 x 4,50 m
131	5236475	aquatherm black system heating and cooling grid 0,36 x 4,75 m
131	5236500	aquatherm black system heating and cooling grid 0,36 x 5,00 m
132	5240275	aquatherm black system heating and cooling grid 0,40 x 2,75 m
132	5240300	aquatherm black system heating and cooling grid 0,40 x 3,00 m
132	5240325	aquatherm black system heating and cooling grid 0,40 x 3,25 m
132	5240350	aquatherm black system heating and cooling grid 0,40 x 3,50 m
132	5240375	aquatherm black system heating and cooling grid 0,40 x 3,75 m
132	5240400	aquatherm black system heating and cooling grid 0,40 x 4,00 m

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REBRANDING

The desire to avoid stagnation and continuously improve our products, as well as to find new fields of application and create solutions quickly, has resulted in some of the well-known aquatherm product groups. This often led to systems being named as they emerged and has resulted in naming conventions that no longer accurately convey the suitable applications for the pipe.

Another issue was that many of our pipes and systems have names that

do not relate to each other, and in turn do not relate those products to their parent company, aquatherm. Furthermore, other companies from different industries around the globe use similar names, creating confusion between aquatherm products and their products. The desired uniqueness of our system identification was lost.

Thus, the next logical step for us was to introduce a naming system that matches and unifies our products.

no.	brand name	appendix			Material/Glasfibrecontent GF[%]/ fire class. acc. ISO 11925	article-no.
		Standard Dimension Ratio	structure of pipe	special feature of pipe		
1	aquatherm green pipe	SDR 11	S		PP-R/GF0/E	10208 ... 10242
2	aquatherm green pipe	SDR 7.4	S		PP-R/GF0/E	10806 ... 10818
3	aquatherm green pipe	SDR 6	S		PP-R/GF0/E	10006 ... 10024
4	aquatherm green pipe	SDR 7.4	MF		PP-R/GF7/E	70708 ... 70738
5	aquatherm green pipe	SDR 7.4	MF	UV	inliner like 4 with black PE-coating	70758 ... 70788
6	aquatherm green pipe	SDR 9	MF	TI	inliner like 4 with PU-Insulation and black PE-casing	1370711 ... 1370738
7	aquatherm green pipe	SDR 9	MF	RP	PP-RP/GF7/E	370712 ... 370744
8	aquatherm green pipe	SDR 9	MF	RP UV	inliner like 7 with black PE-coating	370762 ... 370794
9	aquatherm blue pipe	SDR 11	S		PP-R/GF0/E	2010208 ... 2010312
10	aquatherm blue pipe	SDR 7.4 / SDR 11 / SDR 17.6	MF		PP-R/GF7/E	2070708 ... 2570154
11	aquatherm blue pipe	SDR 7.4 / SDR 11	MF	UV	inliner like 10 with black PE-coating	2070162 ... 2070760
12	aquatherm blue pipe	SDR 7.4 / SDR 11	MF	OT	inliner like 10 with EVOH O2-barrier	2170114 ... 2170712
13	aquatherm blue pipe	SDR 7.4 / SDR11	MF	TI	inliner like 10 with PU-Insulation and black PE-casing	2270111 ... 2270142
14	aquatherm blue pipe	SDR 7.4 / SDR11	MF	OT-TI	inliner like 12 with PU-insulation and black PE-casing	2470711 ... 2470138
15	aquatherm red pipe	SDR 7.4	MF	HI	PP-R/GF7/B-s1,d0	4170130 ... 4170726
16	aquatherm black system			OT		
17	aquatherm orange system		S	OT		
18	aquatherm grey pipe					

LEGEND			
S	single layer	UV	ultraviolet protected
M	multilayer	TI	isolated with PUR and external PE pipe
MF	multilayer faser	RP	raised pressure (resistance)
OT	oxygen tight	HI	hardly inflammable

fields of application										
table water	HVACR	swimming pool	chemical fluids	recycled & reclaimed water	fire protection	compressed air	district heating	geothermal	shipbuilding sector	Refrigeration and air conditioning
●	○	●	●	○		○	●	●	●	○
●	○	●	●	○		○	●	●	●	○
●	○	●	●	○		○	●	●	●	○
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					●					
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System recommended due to its technical advantages: ●
 Application of the system is suitable: ○

PREFABRICATION MADE TO MEASURE AQUATHERM OFFERS CUSTOMIZED SOLUTIONS

Time is money! That piece of life wisdom proves itself daily, especially in the construction industry. The sanitary, heating, and air conditioning installations of every building object are often a temporal challenge, and not only for the architects and planners: the implementation on site also can present the executing site managers with significant challenges caused by tight schedules and difficult external conditions. To address such challenges, aquatherm prefabrication offers customized solutions.

aquatherm prefabrication takes place in a clean, controlled environment. Dirty, dusty, and cold installation conditions — which can be commonplace on construction sites — thus have no influence on the final product. Another advantage is the time savings of professional prefabrication. Direct access to all articles in stock enables a quick reaction to any special need and allows a solution to be implemented without time delay.

Prefabrication is also a way to counteract the skills shortage by shifting the complexity and effort from the construction site to the manufacturer, thus creating free space on site.

Due to the diversity of today's applications, there is hardly any way to cover the distribution of liquid media through a standardized or modular distribution design. Every building project has its own individual requirements. The type of medium, application areas, regulations and laws, and architectural conditions all affect the material and design of the piping system. That's why whether new building or renovation, heating and cooling, open or closed systems, drinking water or aggressive media, aquatherm offers customized solutions.

aquatherm prefabrication is equipped to handle the special components that are playing an increasingly important role in today's challenging and unusual construction projects. Ring-shaped installations in buildings with

cylindrical design or storage tanks, as well as pyramids with extreme angles have already been equipped with special components by aquatherm.

aquatherm plans and builds manifolds and 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.



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

HIGH QUALITY MEETS ECOLOGY AQUATHERM BLACK SYSTEM WAS AWARDED THE "PLUS X AWARD"

A product from aquatherm received a very special award: The aquatherm black system surface heating and cooling system was honored with the "Plus X Award 2019".

The system won the award in the sanitary and climate sector for a total of four outstanding features: high quality, design, ease of use and ecology. Among other things, the jury's statement states: "The aquatherm black system surface heating and cooling system creates a pleasant room climate without -disturbing drafts. Depending on the chosen water temperature, this technology can either be heated or cooled." For this purpose, the surface temperature of the black heating and cooling elements made of corrosion-resistant polypropylene is driven a few degrees above or below the desired room temperature as required. This ensures a rapid radiation exchange, which causes a pleasant warmth or coolness without raising dust.

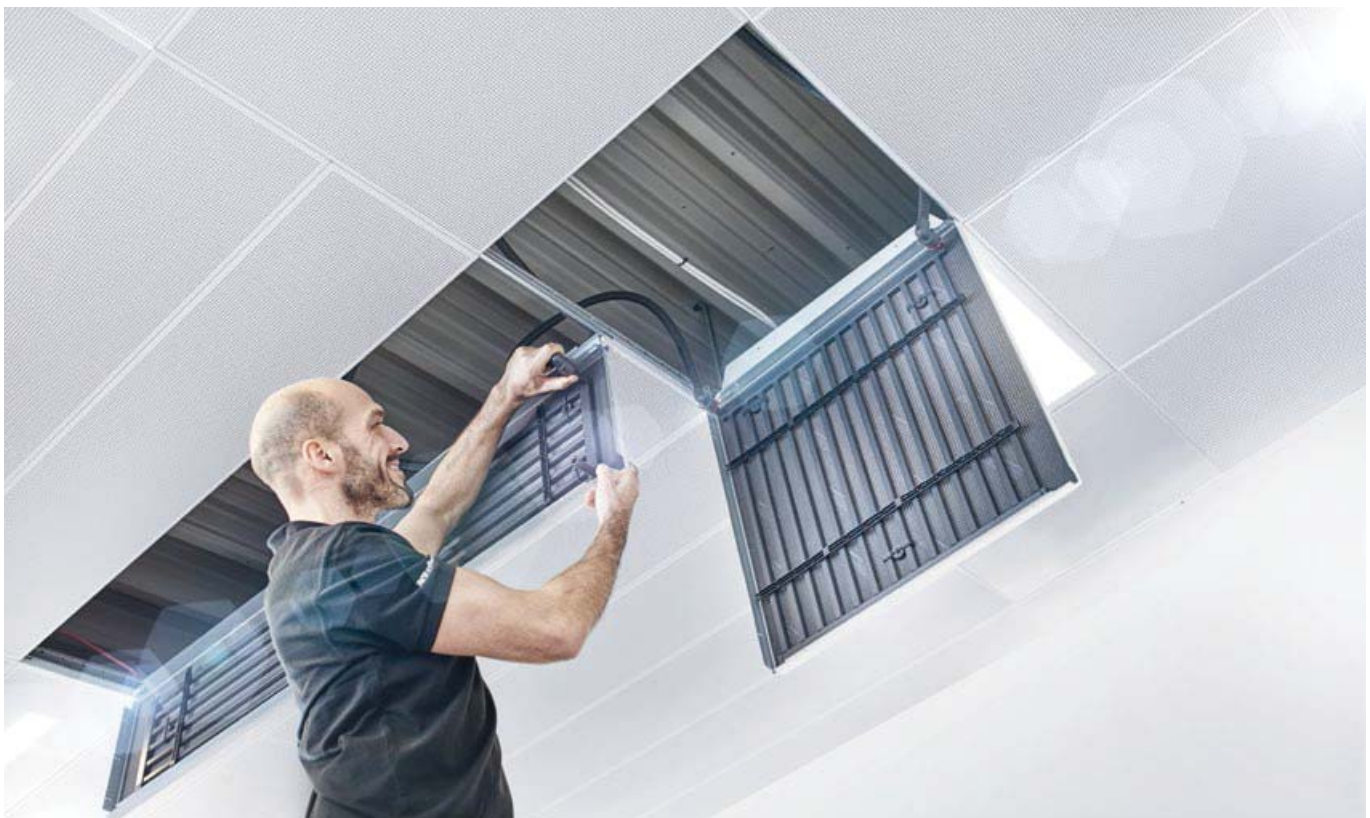
The flexibility of the system was another reason that convinced the jury: "The high-quality aquatherm black system can be easily installed in walls, floors and ceilings, even retrofitting is possible. In addition, the system is very energy efficient." In addition, the jury praised the automatic and silent switching from heating to cooling mode. Another important advantage of the system is that the register elements have a low weight of about 4.1 kg / m² including water filling and are already being produced object-specifically in the main plant of the aquatherm group of companies in Attendorn. This allowed a quick installation on site.

"We are very happy about the award for our aquatherm black system", explains Dirk Rosenberg, together with his -brothers Maik and Christof managing director of aquatherm. "It is an incentive for us to continue to focus our work on the development of innovative products."

With an international and independent panel of experts from 80 indus-




















tries, 23 strategic partners and more than 700 participating, international brands, the "Plus X Award" is today the world's largest innovation prize for technology, sport and lifestyle. He distinguishes brands for the quality and innovation advantage of their products. The innovation prize was initiated as a project to protect and strengthen the brand and trade, as well as to improve the orientation of the end consumer, and in 2019 will be in its 16th year of existence.

Further information on aquatherm black system is available at www.aquatherm.de.



In addition to the high-quality processing, the jury praised, among other things, the energy-saving effect of the aquatherm black system.

Fields of application

-  potable water application
-  heating system construction
-  connection heating and cooling
-  underfloor heating
-  wall heating
-  ceiling heating and cooling
-  industrial floor cooling
-  industrial floor heating
-  chilled water technology
-  agriculture
-  sports floor heating and cooling
-  swimming-pool technology
-  chemical transport
-  rainwater application
-  irrigation
-  fire protection sprinkler-systems
-  application in the field of ship building
-  district heating pipeline systems
-  geothermal

short cuts structure of pipe

S	single
M	multilayer
MF	multilayer faser
OT	oxygen tight
UV	UV resistant
TI	thermal insulation
HI	hardly inflammable

short cuts material

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

COLOUR SCHEMA

For the presentation of combinable products.

◆ = Only available on request.

Systems		<ul style="list-style-type: none"> • aquatherm green pipe • aquatherm blue pipe
•		Only applicable with aquatherm green pipe
	•	Only applicable with aquatherm blue pipe
•	•	Applicable with aquatherm green pipe and aquatherm blue pipe

aquatherm green pipe

The innovative all-rounder, which revolutionized the plastic pipe sector, made a name for itself within a very short time that stands for highest quality and outstanding ecological properties. The aquatherm system has proven its excellent technical suitability in more than 45 years of application worldwide, and among experts has long been one of the most extensive and at the same time best plastic pipe systems.

The system includes the different types of pipes SDR 6, SDR 7.4, SDR 9 and SDR 11. These are supplemented by the especially reinforced fiber composite pipe. More than 450 joining and connection elements as well as valves and ball valves complete the system. The products are available from 16 mm to 450 mm external diameter.

Pipe system made of polypropylene for potable water supply

article no.	brand name	Standard Dimension Ratio	structure of pipe	special feature of pipe	material
10208 ... 10242	aquatherm green pipe	SDR 11	S		PP-R
10806 ... 10818	aquatherm green pipe	SDR 7.4	S		PP-R
10006 ... 10024	aquatherm green pipe	SDR 6	S		PP-R
70708 ... 70738	aquatherm green pipe	SDR 7.4	MF		PP-R
70758 ... 70788	aquatherm green pipe	SDR 7.4	MF	UV	PP-R
1370711 ... 1370738	aquatherm green pipe	SDR 9	MF	TI	PP-R
370712 ... 370744	aquatherm green pipe	SDR 9	MF	RP	PP-RP
370762 ... 370794	aquatherm green pipe	SDR 9	MF	RP UV	PP-RP

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.

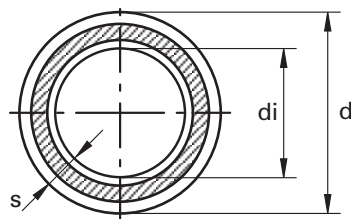
To start the process, only the corresponding planning data, 3D drawings and/or sketches with dimensions are required. We return the offer including material list and drawing. A qualified team of experienced technicians likes to assist you.

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



aquatherm green pipe SDR 9 MF RP


Structure of pipe:	MF = multilayer, with fibre reinforced
Special feature of pipe:	RP (raised pressure)
Material:	fusiole® PP-R
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
Form supplied:	ø 32 – 125 mm straight lengths 4 m ø 160 – 355 mm straight lengths 5.8 m
Packing Unit:	PU in meter
Application:	

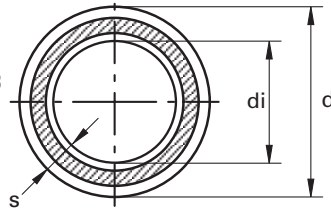


Mechanically stabilized through a fibre mix integrated in the middle layer of the fusiole® PP-R.

SDR	Art. no.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg]	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	
	370744	355	39,7	275,60	59,625	39,202	-	5.8		

aquatherm green pipe SDR 7.4 MF

Structure of pipe:	MF = multilayer, with 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
Form supplied:	straight lengths 4 m
Packing Unit:	PU in meter
Application:	

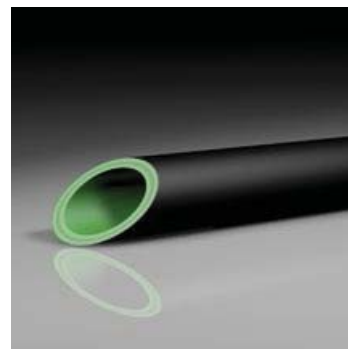
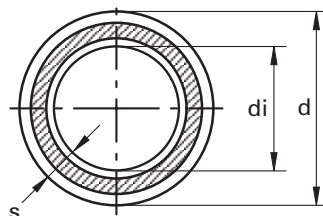


Mechanically stabilized through a fibre mix integrated in the middle layer of the fusiolen® PP-R.

SDR	Art. no.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg]	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	23,20	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


Structure of pipe:	MF = multilayer, with fibre reinforced
Special feature of pipe:	RP (raised pressure), UV resistant
Material:	fusiolen® PP-RP
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
Form supplied:	ø 32 – 125 mm straight lengths 4 m ø 160 – 355 mm straight lengths 5.8 m
Packing Unit:	PU in meter
Application:	

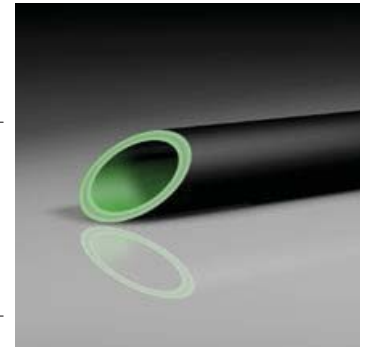
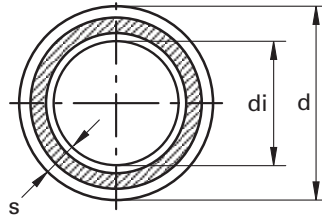


Resistant against UV-rays. Mechanically stabilized through a faser mix integrated in the middle layer of the fusiolen® PP-R.

SDR	Art. no.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg]	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	
		370788	250	27,9	194,20	29,605	19,741	200	5.8	
		370792	315	35,2	244,60	46,966	31,135	250	5.8	
		370794	355	39,7	275,60	59,625	39,415	-	5.8	

aquatherm green pipe SDR 7.4 MF UV

Structure of pipe:	MF = multilayer, with fibre reinforced
Special feature of pipe:	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:	outer layer: black inner layer: green
Form supplied:	straight lengths 4 m ø 160 – 250 mm straight lengths 5.8 m
Packing Unit:	PU in meter
Application:	

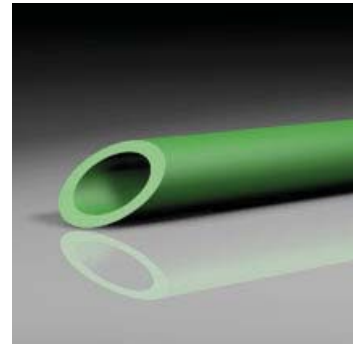
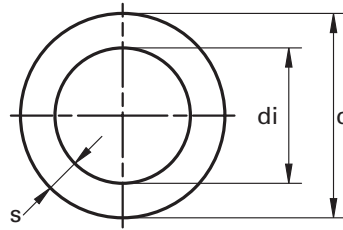


Resistant against UV-rays. Mechanically stabilized through a faser mix integrated in the middle layer of the fusiolen® PP-R.

SDR	Art. no.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg]	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 16</i>						

aquatherm green pipe SDR 6 / 7.4 S

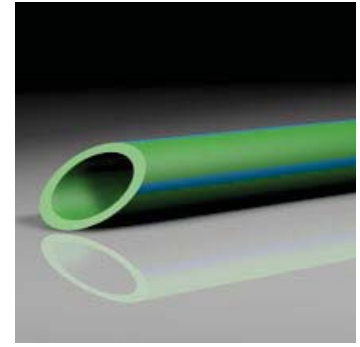
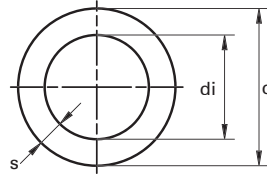
- Structure of pipe:** s (single)
- Material:** fusiolen® PP-R
- Pipe series:** SDR 6/S 2.5 & SDR 7.4/S 3.2
- Standards:** DIN 8077, DIN 8078, DIN EN ISO 15874, ASTM F 2389, CSA B 137.11
- Colour:** green
- Form supplied:** 4 m straight lengths,
- Packing Unit:** PU in meter
- Application:**



SDR	Art. no.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg]	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	
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	

aquatherm green pipe SDR 11 S

- Structure of pipe:** 20 – 315 mm = s (single)
- 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
- Form supplied:** ø 20 – 125 mm 4 m straight lengths
ø 160 – 315 mm straight lengths 5,8 m
- Packing Unit:** PU in meter



SDR	Art. no.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg]	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	
	<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

aquatherm blue pipe, our specialty for distributing cooling and heating in closed and open systems as well as in several industrial applications. It was developed in order to prevent corrosion in heating system pipes and in cooling and refrigeration systems and quickly expanded its range of application, with many positive features for other fields of piping installation. It has gone on to find success around the world in hotels, stadiums, schools, offices, and industrial applications. In addition to the general advantages of the PP-R-pipesystem aquatherm blue pipe in comparison with the aquatherm green pipe system it offers higher volumetric current values due to smaller wall thickness.

Pipe system made of polypropylene

for chilled, hot fluid and various industrial applications

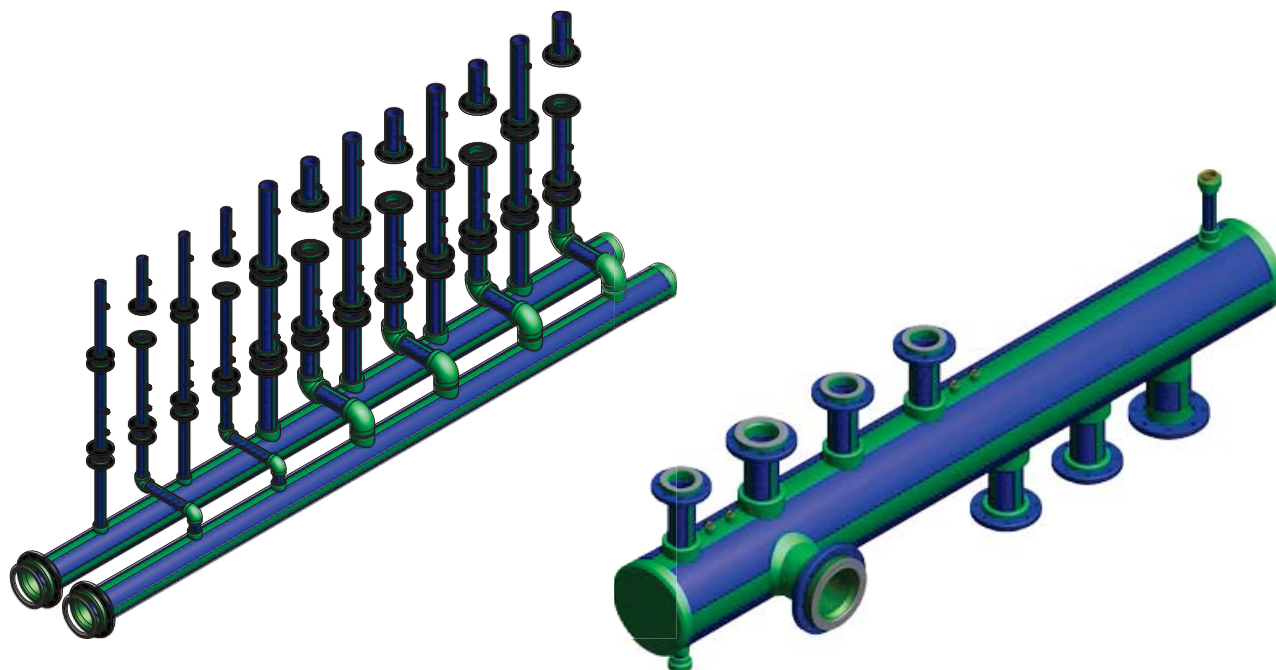
article no.	brand name	Standard Dimension Ratio	structure of pipe	special feature of pipe	material
2010208 . . . 2010212	aquatherm blue pipe	SDR 11	S		PP-R
2070112 . . . 2070710	aquatherm blue pipe	SDR 7.4/SDR 11	MF		PP-R
2070162 . . . 2070760	aquatherm blue pipe	SDR 7.4/SDR 11/SDR 17.6	MF	UV	PP-R
2170114 . . . 2170712	aquatherm blue pipe	SDR 7.4/SDR 11	MF	OT	PP-R
2570130 . . . 2570154	aquatherm blue pipe	SDR 17.6	MF		PP-R
2270111 . . . 2270142	aquatherm blue pipe	SDR 7.4/SDR 11	MF	TI	PP-R
2470711 . . . 2470126	aquatherm blue pipe	SDR 7.4/SDR 11	MF	OT-TI	PP-R

MANIFOLD CONSTRUCTION – CUSTOM MADE

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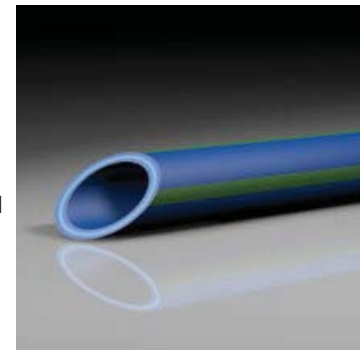
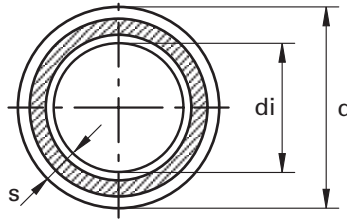
To start the process, only the corresponding planning data, 3D drawings and/or sketches with dimensions are required. We return the offer including material list and drawing. A qualified team of experienced technicians likes to assist you.

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



aquatherm blue pipe SDR 7.4 / 11 / 17.6 MF

Structure of pipe:	MF = multilayer, with fibre reinforced
Material:	fusiolen® PP-R
Pipe series:	SDR 7.4 / S 3.2 & SDR11 / S 5 & SDR 17.6 / S 8.3
Standards:	SKZ HR 3.28, ASTM F 2389, CSA B 137.11, ISO 21003
Colour:	blue with 4 wider green stripes
Form supplied:	ø 20 – 125 mm straight lengths 4 m ø 160 – 630 mm straight lengths 5.8 m
Packing Unit:	PU in meter
Application:	

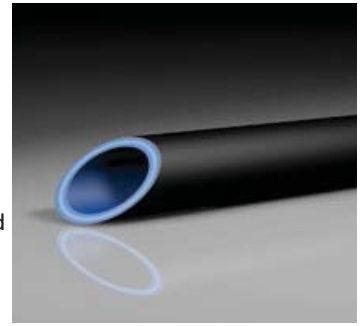
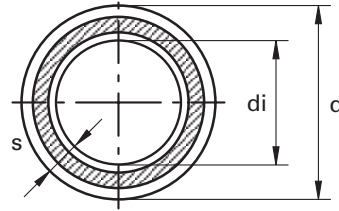


Mechanically stabilized through a fibre mix integrated in the middle layer of the fusiolen® PP-R.

SDR	Art. no.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg]	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		
11	2070112	32	2,9	26,20	0,539	0,275	25	40		
	2070114	40	3,7	32,60	0,834	0,435	32	40		
	2070116	50	4,6	40,80	1,307	0,674	40	20		
	2070118	63	5,8	51,40	2,074	1,065	50	20		
	2070120	75	6,8	61,40	2,959	1,485	65	20		
	2070122	90	8,2	73,60	4,252	2,150	80	12		
	2070124	110	10,0	90,00	6,359	3,185	-	8		
	2070126	125	11,4	102,20	8,199	4,130	100	4		
	<i>Butt welding</i>									
		2070130	160	14,6	130,80	13,430	6,751	125	5.8	
	2070134	200	18,2	163,60	21,010	10,515	150	5.8		
	2070138	250	22,7	204,60	32,861	16,363	200	5.8		
	2070142	315	28,6	257,80	52,172	25,958	250	5.8		
	2070144	355	32,2	290,60	66,29	32,941	300	5.8		
	2070146	400	36,3	327,60	84,290	41,818	300	5.8		
	2070148	450	40,9	368,20	106,477	52,930	400	5.8		
17.6	<i>Socket welding</i>									
		2570126	125	7,1	110,80	9,637	2,697	100	4	
	<i>Butt welding</i>									
		2570130	160	9,1	141,80	15,792	4,574	150	5.8	
		2570134	200	11,4	177,20	24,661	7,081	200	5.8	
		2570138	250	14,2	221,60	38,568	10,949	250	5.8	
		2570142	315	17,9	279,20	61,223	17,245	300	5.8	
		2570144	355	20,1	314,80	77,832	21,806	350	5.8	
		2570146	400	22,7	354,60	98,756	27,638	350	5.8	
		2570148	450	25,5	399,00	125,036	34,858	400	5.8	
	2570150	500	28,4	443,20	154,272	43,048	450	5.8		
	2570154	630	35,7	558,60	245,070	67,917	500	5.8		

aquatherm blue pipe SDR 7.4/11/17.6 MF UV

- Structure of pipe:** MF = multilayer, with fibre reinforced
- Special feature of pipe:** UV resistant
- Material:** fusiolen® PP-R
- Pipe series:** SDR 7.4/S 3.2 & SDR11/SDR 17.6 / S 8.3
- Standards:** SKZ HR 3.28, ASTM F 2389, CSA B 137.11, ISO 21003
- Colour:** outside: black, inside: blue
- Form supplied:** ø 20 – 125 mm straight lengths 4 m
ø 160 – 630 mm straight lengths 5.8 m
- Packing Unit:** PU in meter



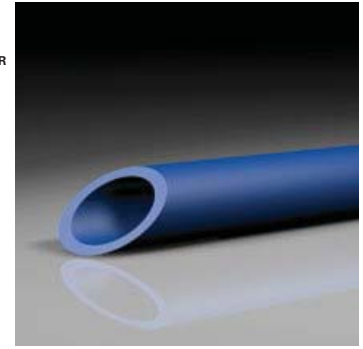
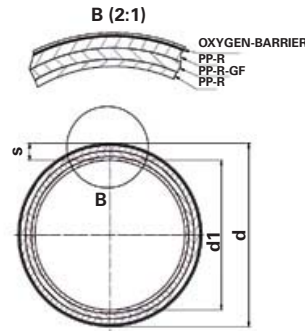
- Application:**
-

UV-resistant. Mechanically stabilized by a fibre mixture, integrated in the middle layer of fusiolen® PP-R.

SDR	Art. no.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg]	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		
11	2070162	32	2,9	26,20	0,539	0,368	25	40		
	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	2,491	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	7,051	125	5.8	
2070184		200	18,2	163,60	21,010	10,845	150	5.8		
2070188		250	22,7	204,60	32,861	16,681	200	5.8		
2070192		315	28,6	257,80	52,172	26,217	250	5.8		
2070194		355	32,2	290,60	66,292	33,153	300	5.8		
2070196 ◆		400	36,3	327,40	84,145	41,937	300	5.8		
2070198 ◆		450	40,9	368,20	106,423	52,997	400	5.8		
17.6	2570180	160	9,1	141,80	15,784	4,707	150	5.8		
	2570184	200	11,4	177,20	24,649	7,201	200	5.8		
	2570188	250	14,2	221,60	38,549	11,006	250	5.8		
	2570192	315	17,9	279,20	61,193	17,174	300	5.8		

aquatherm blue pipe SDR 7.4 / 11 MF OT

- Structure of pipe:** MF = multilayer, with fibre reinforced
Special feature of pipe: OT = oxygen tight
Material: fusiolen® PP-R
Pipe series: SDR 7.4/S 3.2 & SDR11 / S 5
Standards: DIN 8077 / 78, DIN EN ISO 15874, ASTM F 2389, CSA B 137.11, ISO 21003
Colour: blue
Form supplied: ø 20 – 125 mm straight lengths 4 m
 ø 160 – 250 mm straight lengths 5,8 m
Packing Unit: PU in meter
Application:

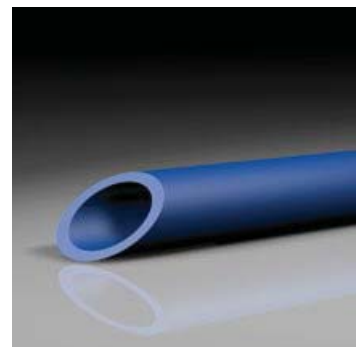
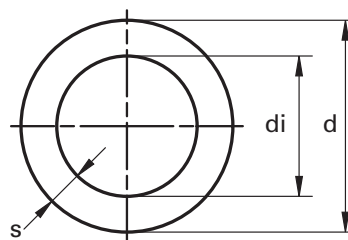


Oxygen tight by diffusion barrier. Mechanically stabilized through a fibre mix integrated in the middle layer of fusiolen® PP-R.

SDR	Art. no.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter d1 [mm]	Water content [l/m]	Weight [kg]	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	
	2170712	32	4,4	23,20	0,423	0,488	20	40	
11	2170114	40	3,7	32,60	0,834	0,562	32	40	
	2170116	50	4,6	40,80	1,307	0,838	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	
11	2170124	110	10,0	90,00	6,359	3,752	-	8	
	2170126	125	11,4	102,20	8,199	4,857	100	4	
<i>Butt welding</i>									
	2170130	160	14,6	130,80	13,430	6,888	125	5.8	
	2170134	200	18,2	163,60	21,010	10,687	150	5.8	
	2170138	250	22,7	204,60	32,861	16,578	200	5.8	

aquatherm blue pipe SDR 11 S

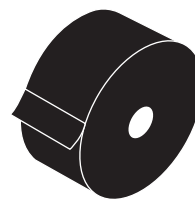
- Structure of pipe:** S (single)
Material: fusiolen® PP-R
Pipe series: SDR 11/S 5
Standards: DIN 8077 / 78, DIN EN ISO 15874, ASTM F 2389, CSA B 137.11, NSF 14, ISO 21003
Colour: blue
Form supplied: 4 m straight lengths
Packing Unit: PU in meter
Application:



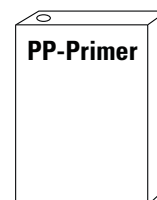
SDR	Art. no.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter d1 [mm]	Water content [l/m]	Weight [kg]	DN	PU [m]	Price € m/pc
11	2010208	20	1,9	16,20	0,206	0,108	15	100	
	2010210	25	2,3	20,40	0,327	0,165	20	100	
	2010212	32	2,9	26,20	0,539	0,261	25	40	

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		

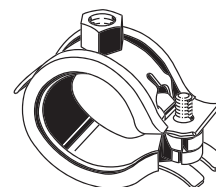
**AQUATHERM SPECIAL TOP COAT***for aquatherm PP-pipes*

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

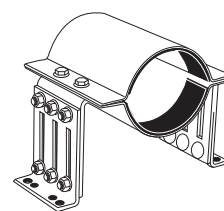
**PIPE CLAMPS***suitable for sliding and fixed point installation*

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	50	
60520	20	50	200	
60525	25	50	200	
60532	32	50	200	
60540	40	50	150	
60550	50	50	150	
60563	63	25	100	
60575	75	25	100	
60590	90	25	75	
60594	110	25	50	
60595	125	25	50	
60597	160	25	25	
60650	200	1	18	
60654	250	1	12	
60658	315	1	3	
60660	355	1	3	

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

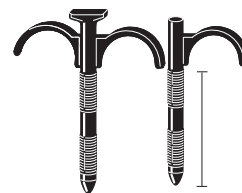
Art. no.	for pipe dimension [mm]	PU	Box unit	Price € pc
60768	160	1		
60770	200	1		
60774	250	1		
60778	315	1		
60780	355	1		
60782	400	1		
60784	450	1		
60786	500	1		
60790	630	1		



PIPE FASTENING BOW

suitable for \varnothing 16 – 32 mm pipes

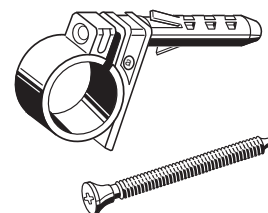
Art. no.	for pipe dimension	PU	Box unit	Price € pc
60604	1-fold - length = 45mm	50	4000	
60606	1-fold - length = 75mm	50	3000	
60608	2-fold - length = 45mm	50	2500	
60610	2-fold - length = 75 mm	50	1750	



PLASTIC PIPE CLAMPS

suitable for \varnothing 16 – 40 mm pipes

Art. no.	for pipe dimension [mm]	PU	Box unit	Price € pc
60616	16	50	3000	
60620	20	50	3000	
60625	25	30	1500	
60632	32	30	900	
60640	40	30		



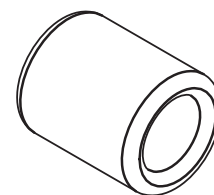
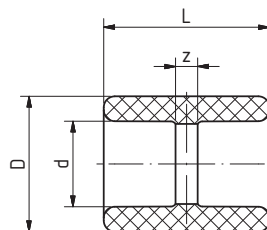
SOCKET

Systems: [aquatherm green pipe](#), [aquatherm blue pipe](#)

Material: fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

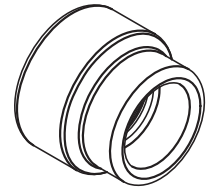
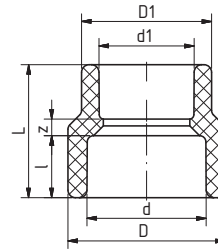
Colour: green



SDR	Art. no.	Dimension d [mm]	l [mm]	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>											
	11222	40	32	44,0	20,5	5,5	52,0	43,0	0,035	• •	1	40	
	11228	50	32	53,0	23,5	11,5	68,0	43,0	0,066	• •	1	25	
	11230	50	40	50,5	23,5	6,3	68,0	52,0	0,069	• •	1	100	
	11236	63	40	61,0	27,5	13,0	84,0	52,0	0,115	• •	1	100	
6	11238	63	50	56,0	27,5	5,0	84,0	68,0	0,120	• •	1	100	
7.4	11240	75	50	68,0	30,0	14,5	100,0	68,0	0,192	• •	1	80	
9	11242	75	63	62,5	30,0	5,0	100,0	84,0	0,185	• •	1	80	
11	11252	90	63	74,0	33,0	13,5	120,0	84,0	0,276	• •	1	50	
17.6	11253	90	75	69,0	33,0	6,0	120,0	100,0	0,297	• •	1	50	
	11257	110	75	85,0	37,0	18,0	147,0	100,0	0,516	• •	1	45	
	11259	110	90	77,3	37,0	7,3	147,0	120,0	0,520	• •	1	35	
	11263	125	90	91,0	40,0	18,0	167,0	120,0	0,749	• •	1	25	
	11265	125	110	87,0	40,0	10,0	167,0	147,0	0,726	• •	1	20	

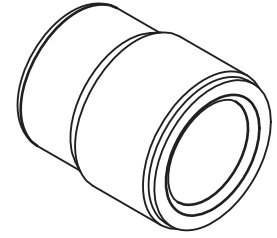
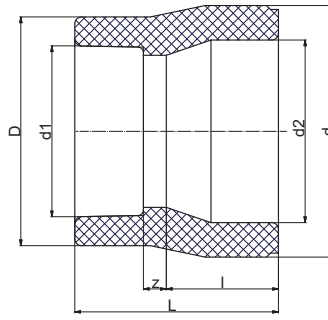
REDUCING SOCKET, SOCKET WELDING

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

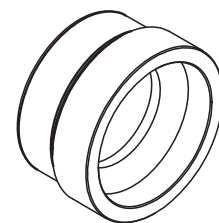
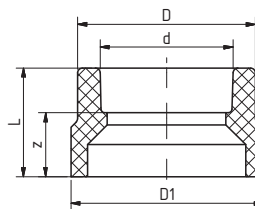
Colour: green



SDR	Art. no.	Dimension d [mm]	Dimension d1 [mm]	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>													
	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	21,00	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	
6	11134	63	32	42,00	27,5	62,0	16,5	43,0	0,080	• •	1	200	
7.4	11136	63	40	42,00	27,5	64,5	16,5	52,0	0,089	• •	1	200	
9	11138	63	50	42,00	27,5	63,5	12,5	68,0	0,107	• •	1	150	
11	11139	75	40	50,00	30,0	69,5	19,0	52,0	0,131	• •	1	150	
17.6	11140	75	50	50,00	30,0	63,0	9,5	68,0	0,141	• •	1	100	
	11142	75	63	50,00	30,0	71,0	13,5	84,0	0,170	• •	1	100	
	11143	75	20	50,00	30,0	65,5	21,0	34,5	0,113	• •	1	200	
	11144	75	25	50,00	30,0	65,5	19,5	34,5	0,111	• •	1	200	
	11145	75	32	50,00	30,0	69,5	21,5	52,0	0,140	• •	1	150	
	11151	90	50	60,00	33,0	75,0	18,5	68,0	0,193	• •	1	100	
	11152	90	63	60,00	33,0	78,0	17,5	84,0	0,224	• •	1	75	
	11153	90	75	60,00	33,0	81,5	18,5	100,0	0,273	• •	1	60	
	11155	110	63	73,50	37,0	86,0	21,5	84,0	0,356	• •	1	50	
	11157	110	75	73,50	37,0	89,0	22,0	100,0	0,383	• •	1	50	
	11159	110	90	73,50	37,0	99,0	29,0	120,0	0,500	• •	1	40	
	11161	125	75	84,00	40,0	101,0	31,0	100,0	0,518	• •	1	35	
	11163	125	90	84,00	40,0	99,0	26,0	120,0	0,588	• •	1	35	
	11165	125	110	84,00	40,0	112,0	35,0	147,0	0,832	• •	1	25	

REDUCING SOCKET, SOCKET & BUTT WELDING

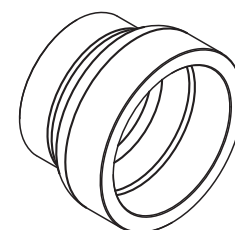
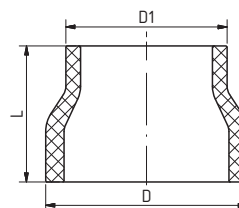
Systems: aquatherm green pipe,
aquatherm blue pipe
Material: fusiolen® PP-R & PP-RP
Standard: DIN 16962, DIN EN ISO 15874
Colour: green



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	25	
	11176	160	125	90,0	50,0	167,0	0,837	•	1	25	
	11182	200	125	135,0	95,0	167,0	1,644	•	1		
9	311174	160	110	90,0	53,0	147,0	0,730	•	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	0,655	• •	1	25	
	11177	160	125	90,0	50,0	167,0	0,636	• •	1	25	
	11183	200	125	135,0	95,0	167,0	1,341	• •	1		
17.6	2511174	160	110	90,0	53,0	147,0	0,618	•	1		
	2511176	160	125	90,0	50,0	167,0	0,628	•	1		
	2511182	200	125	135,0	95,0	167,0	1,055	•	1		

REDUCING SOCKET, BUTT WELDING

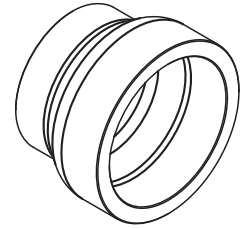
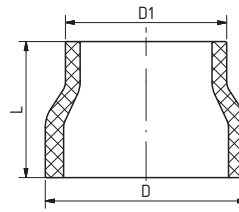
Systems: aquatherm green pipe,
aquatherm blue pipe
Material: fusiolen® PP-R & PP-RP
Standard: DIN 16962, DIN EN ISO 15874
Colour: green



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	1,638	•	1	12	
	11188	250	160	172,5	2,881	•	1	5	
	11190	250	200	172,5	3,250	•	1	5	
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		
11	311198	355	315	160,0	4,940	•	1		
	11185	200	160	135,0	1,206	• •	1	12	
	11189	250	160	172,5	2,313	• •	1	5	
	11191	250	200	172,5	2,389	• •	1	5	
	11193	315	200	225,0	4,389	• •	1		
	11195	315	250	225,0	4,690	• •	1	1	
	11197	355	250	170,0	4,510	• •	1		
	11199	355	315	160,0	4,635	• •	1	3	
	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

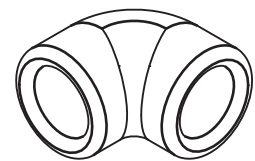
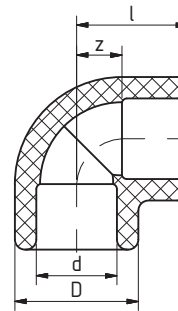
Systems: aquatherm blue pipe
Material: fusiolen® PP-R
Standard: DIN 16962, DIN EN ISO 15874
Colour: green



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	1,338	•	1		
	2511193	315	200	225,0	4,141	•	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		

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	15	
	12126	125	76,5	116,5	167,0	2,004	• •	1	10	

ELBOW 90° BUTT WELDING

Systems: aquatherm green pipe, aquatherm blue pipe

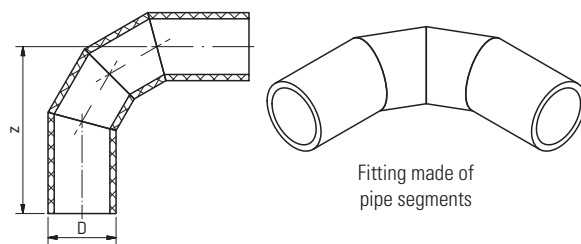
Material: fusiolen® PP-R & PP-RP

Standard: DIN 16962, DIN EN ISO 15874

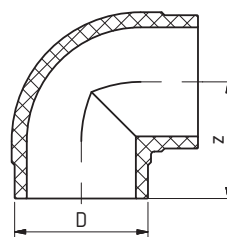
Notice: There is a gradual conversion of the XXL-fittings made of pipe segments to an injection molded design. The table shows which articles are already available in new design at the time of printing this catalogue. In the aquatherm technews we will inform you of further changes, but first the current 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	NEW		PU	Box unit	Price € pc
							injection molded* (green)				
<i>butt welding</i>											
7.4	12130	160	145,0	2,561	•		•		1	8	
	12134	200	450,0	11,685	•	•			1	16	
	12138	250	625,0	26,000	•	•			1	7	
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		
	312144	355	833,0	57,628	•	•			1		
11	12131	160	145,0	2,145	•	•	•		1	8	
	12135	200	209,0	4,653	•	•	•		1	12	
	12139	250	240,0	7,180	•	•	•		1	6	
	12143	315	773,0	37,850	•	•	•		1	2	
	12145	355	833,0	49,000	•	•	•		1		
	12147	400	900,0	62,800	•	•	•		1		
	12149	450	975,0	89,500	•	•	•		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	1	
	2012149 ¹⁾	450	975,0	89,080		•	•		1		
17.6	2512130	160	145,0	1,642		•	•		1		
	2512134	200	209,0	3,640		•	•		1		
	2512138	250	240,0	6,200		•	•		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 fusiolen® PP-R

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

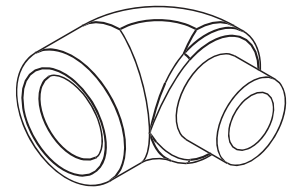
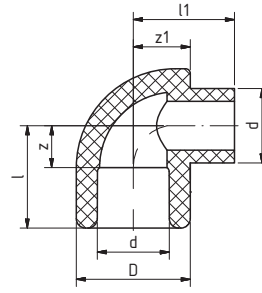
ELBOW 90° FEMALE/MALE

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]	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	

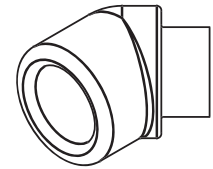
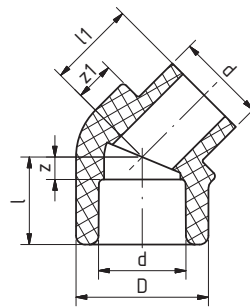
ELBOW 45° FEMALE/MALE

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® 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	

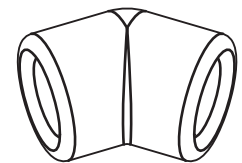
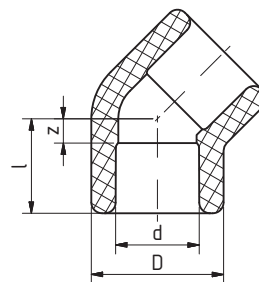
ELBOW 45° SOCKET WELDING

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

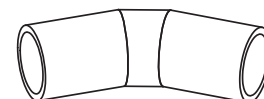
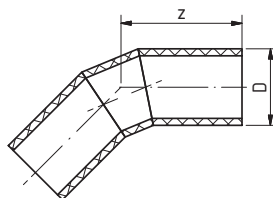
Colour: green



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	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	15	

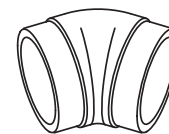
ELBOW 45° BUTT WELDING

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



Fitting made of pipe segments

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.



Injection molded fitting
Colour: green

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

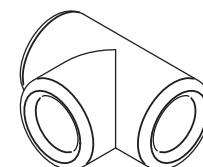
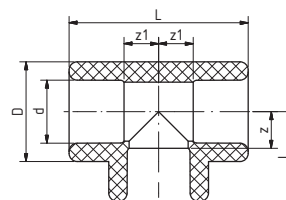
SDR	Art. no.	D [mm]	z [mm]	Weight [kg]	System	pipe segments	injection molded*	PU	Box unit	Price € pc
<i>butt welding</i>										
7.4	12530	160	95,0	1,903	•		•	1	10	
	12534	200	274,0	8,175	•		•	1	2	
	12538	250	412,0	20,500	•		•	1	10	
9	312530	160	95,0	4,230	•		•	1		
	312534	200	146,0	7,500	•		•	1		
	312538	250	182,0	17,000	•		•	1		
	312542	315	498,0	30,567	•	•		1		
	312544	355	520,0	40,771	•	•		1		
11	12531	160	95,0	1,393	•	•	•	1	10	
	12535	200	146,0	3,408	•	•	•	1	2	
	12539	250	182,0	13,500	•	•	•	1	10	
	12543	315	498,0	27,300	•	•	•	1	1	
	12545	355	520,0	26,650	•	•	•	1	1	
	12547 ¹⁾	400	548,0	44,900	•	•	•	1		
	12549 ¹⁾	450	580,0	60,500	•	•	•	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-R

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

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	
7.4	13112	32	15,5	17,0	33,5	70,0	43,0	0,054	•	5	300	
9	13114	40	20,0	20,0	40,5	81,0	52,0	0,099	•	5	175	
11	13116	50	26,0	26,0	49,5	99,0	68,0	0,177	•	5	100	
17.6	13118	63	32,5	32,5	60,0	120,0	84,0	0,368	•	1	50	
	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	8	

T-PIECE BUTT WELDING

Systems: aquatherm green pipe,
aquatherm blue pipe

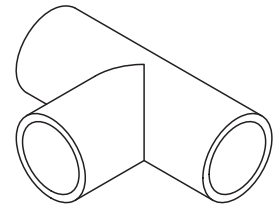
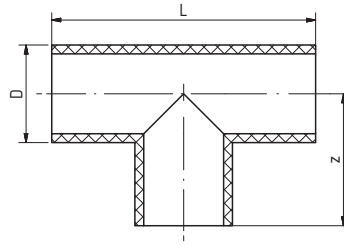
Material: fusiolen® PP-R & PP-RP

Standard: DIN 16962, DIN EN ISO 15874

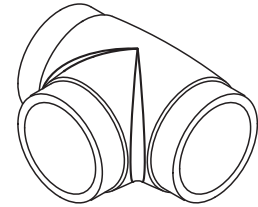
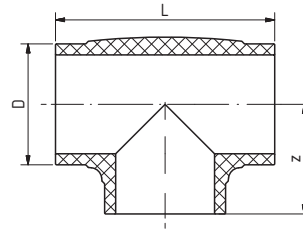
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Please note! Electrofusion sockets can not be processed directly with injection molded fittings. When using electrofusion sockets either segment welded special fittings must be used or pipe pieces must be welded to the injection molded fittings.



Fitting made of pipe segments



Injection molded fitting
Colour: green

SDR	Art. no.	D [mm]	L [mm]	z [mm]	Weight [kg]	System	pipe segments	NEW	PU	Box unit	Price € pc
								injection molded* (green)			
<i>butt welding</i>											
7.4	13130	160	290,0	145,0	3,600	•		•	1	5	
	13134	200	500,0	250,0	9,825	•	•		1	2	
	13138	250	750,0	375,0	24,000	•	•		1	8	
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		
	313144	355	960,0	480,0	56,452	•	•		1		
11	13131	160	290,0	145,0	3,005	•	•	•	1	5	
	13135	200	410,0	205,0	6,255	•	•	•	1	2	
	13139	250	486,0	243,0	10,710	•	•	•	1	8	
	13143	315	920,0	460,0	20,450	•	•		1	1	
	13145	355	960,0	480,0	45,072	•	•		1		
	13147 ¹⁾	400	1000,0	500,0	63,100	•	•		1		
	13149 ¹⁾	450	1050,0	525,0	83,300	•	•		1		
¹⁾ mechanically stabilized through a fibre mix integrated in the middle layer of the fusiolen® PP-R											
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	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		

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

aquatherm blue pipe Y-PIECES

Special fittings on demand

ATTENTION – PLEASE NOTE!

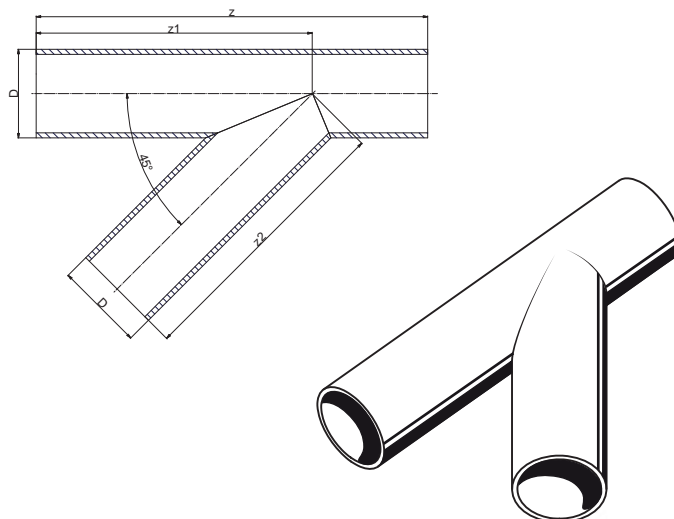
These branches are for special applications in the **unpressurized** areas, e.g. in vacuum dewatering in the ship building. **In no case** they may be exposed to the pressures, given in the working pressure tables on page 161 – 164.

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R

Standard: DIN16962-2

Color: blue/green



SDR	Art. no.	Dimension D [mm]	z [mm]	z1 [mm]	z2 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>Socket welding</i>										
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		
	<i>Butt welding</i>									
	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		
<i>Socket welding</i>										
	2513026 ◆	125	665,0	475,0	475,0	2,470	• •	1		
<i>Butt welding</i>										
17.6	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-R

RED.-T-PIECE, SOCKET WELDING

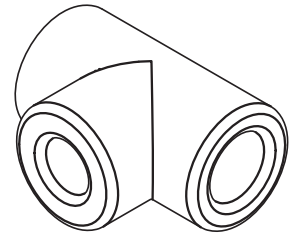
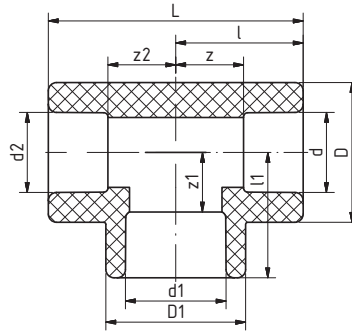
Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green

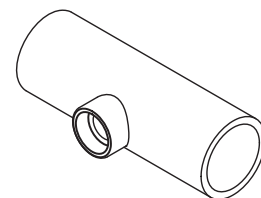
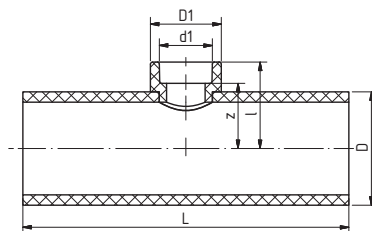
Form: injection moulded fittings



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>																		
	13506	20	16	16	51,0	25,5	25,3	11,0	12,3	12,5	29,5	29,5	0,025	•	10	1000		
	13508	20	16	20	51,0	25,5	25,3	11,0	12,3	11,0	29,5	29,5	0,024	•	10	1000		
	13510	20	20	16	51,0	25,5	25,3	11,0	10,8	12,5	29,5	29,5	0,023	•	10	1000		
	13511	20	25	20	62,0	31,0	30,5	16,5	14,5	16,5	34,0	34,0	0,040	• •	10	500		
	13512	25	16	16	62,0	31,0	30,5	15,0	17,5	18,0	34,0	34,0	0,043	•	10	500		
	13514	25	16	20	62,0	31,0	30,5	15,0	17,5	16,5	34,0	34,0	0,041	•	10	500		
	13516	25	16	25	62,0	31,0	30,5	15,0	17,5	15,0	34,0	34,0	0,038	•	10	500		
	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		
6	13550	50	32	50	99,0	49,5	44,5	26,0	26,5	26,0	68,0	43,0	0,160	• •	5	100		
7.4	13551	50	40	50	99,0	49,5	49,5	26,0	29,0	26,0	68,0	68,0	0,161	• •	5	100		
9	13552	63	20	63	120,0	60,0	48,5	32,5	34,0	32,5	84,0	34,0	0,335	• •	1	50		
11	13554	63	25	63	120,0	60,0	48,5	32,5	32,5	32,5	84,0	34,0	0,331	• •	1	50		
17.6	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	50		
	13561	75	20	75	137,0	68,5	54,5	38,5	40,0	38,5	100,0	34,0	0,501	• •	1	35		
	13562	75	25	75	137,0	68,5	54,5	38,5	38,5	38,5	100,0	34,0	0,497	• •	1	35		
	13564	75	32	75	137,0	68,5	59,0	38,5	41,0	38,5	100,0	52,0	0,505	• •	1	35		
	13566	75	40	75	137,0	68,5	59,0	38,5	38,5	38,5	100,0	52,0	0,497	• •	1	35		
	13568	75	50	75	137,0	68,5	66,0	38,5	42,5	38,5	100,0	84,0	0,550	• •	1	35		
	13570	75	63	75	137,0	68,5	66,0	38,5	38,5	38,5	100,0	84,0	0,515	• •	1	35		
	13576	90	32	90	158,0	79,0	64,0	46,0	46,0	46,0	120,0	43,0	0,880	• •	1	25		
	13578	90	40	90	158,0	79,0	66,5	46,0	46,0	46,0	120,0	52,0	0,862	• •	1	25		
	13580	90	50	90	158,0	79,0	69,5	46,0	46,0	46,0	120,0	68,0	0,905	• •	1	25		
	13582	90	63	90	158,0	79,0	73,5	46,0	46,0	46,0	120,0	84,0	0,876	• •	1	25		
	13584	90	75	90	158,0	79,0	76,0	46,0	46,0	46,0	120,0	100	0,991	• •	1	25		
	13586	110	63	110	186,0	93,0	83,5	56,0	56,0	56,0	147,0	84,0	1,534	• •	1	15		
	13588	110	75	110	186,0	93,0	86,0	56,0	56,0	56,0	147,0	100,0	1,517	• •	1	15		
	13590	110	90	110	186,0	93,0	89,0	56,0	56,0	56,0	147,0	120,0	1,548	• •	1	15		
	13592	125	75	125	233,0	116,5	106,5	76,5	76,5	76,5	167,0	100,0	2,427	• •	1	8		
	13594	125	90	125	233,0	116,5	109,5	76,5	76,5	76,5	167,0	120,0	2,509	• •	1	8		
	13596	125	110	125	233,0	116,5	113,5	76,5	76,5	76,5	167,0	147,0	2,563	• •	1	8		

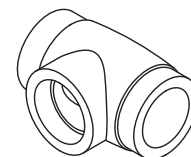
RED.-T-PIECE, SOCKET- & BUTT WELDING

Systems: aquatherm green pipe, aquatherm blue pipe
Standard: DIN 16962, DIN EN ISO 15874
Colour: green



Fitting made of pipe segments

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.



Injection molded fitting

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.

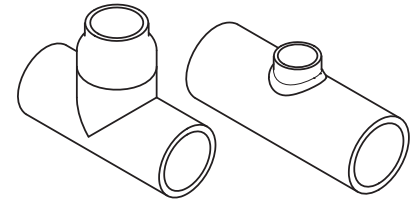
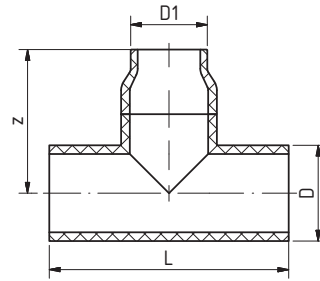
SDR	Art. no.	D [mm]	d1 [mm]	D1 [mm]	L [mm]	l [mm]	z [mm]	Weight [kg]	System	pipe segments	injection molded*	PU	Box unit	Price € pc	
<i>branch: socket welding</i>															
7.4	13600	160	75	100,0	460,0	122,0	92,0	4,414	•	•		1	4		
	13602	160	90	120,0	460,0	125,0	92,0	4,515	•	•		1	4		
	13606	160	125	167,0	290,0	120,0	80,0	3,441	•		•	1	6		
	13608	200	75	100,0	500,0	142,0	112,0	7,110	•	•		1	1		
	13610	200	90	120,0	500,0	145,0	112,0	7,540	•	•		1	1		
	13612	200	110	147,0	500,0	149,0	112,0	7,325	•	•		1	1		
	13614	200	125	167,0	500,0	155,0	115,0	7,645	•	•		1	1		
	13624	250	75	100,0	750,0	167,0	137,0	16,600	•	•		1	10		
	13626	250	90	120,0	750,0	170,0	137,0	16,800	•	•		1	10		
	13628	250	110	147,0	750,0	174,0	137,0	16,800	•	•		1	10		
13630	250	125	167,0	750,0	180,0	140,0	17,000	•	•		1	10			
9	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			
	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				
313916 ¹⁾	355	125	167,0	960,0	232,5	192,5	38,466	•	•		1				
11	13601	160	75	100,0	460,0	122,0	92,0	3,140	•	•		1	4		
	13603	160	90	120,0	460,0	125,0	92,0	3,176	•	•		1	4		
	13607	160	125	167,0	290,0	120,0	80,0	2,842	•		•	1	6		
	13609	200	75	100,0	500,0	142,0	112,0	5,284	•	•		1	1		
	13611	200	90	120,0	500,0	145,0	112,0	5,168	•	•		1	1		
	13613	200	110	147,0	500,0	149,0	112,0	5,648	•	•		1	1		
	13615	200	125	167,0	500,0	155,0	115,0	5,786	•	•		1	1		
	13625	250	75	100,0	750,0	167,0	137,0	12,000	•	•		1	10		
	13627	250	90	120,0	750,0	170,0	137,0	12,000	•	•		1	10		
	13629	250	110	147,0	750,0	174,0	137,0	13,000	•	•		1	10		
	13631	250	125	167,0	750,0	180,0	140,0	12,000	•	•		1	10		
	13651 ¹⁾	315	125	167,0	920,0	213,0	173,0	25,150	•	•		1	1		
	13663 ¹⁾	355	125	167,0	960,0	233,0	193,0	30,851	•	•		1			
	13676 ¹⁾	400	125	167,0	1000,0	255,0	215,0	42,169	•	•		1			
13690 ¹⁾	450	125	167,0	1050,0	280,0	240,0	55,794	•	•		1				

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

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

RED.-T-PIECE, BUTT WELDING

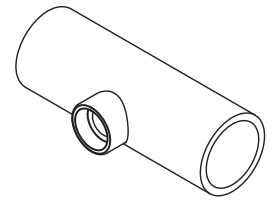
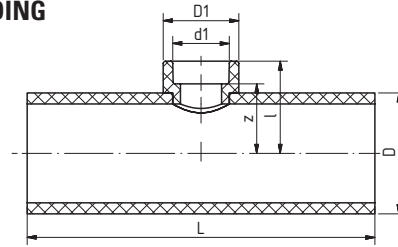
Systems: **aquatherm green pipe**
 Standard: DIN 16962, DIN EN ISO 15874
 Branch: butt welding



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	4	
	13640	250	200	750,0	375,0	27,000	•	•		1	4	
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		
	313918	355	160	960,0	258,0	38,479	•		•	1		
	313920	355	200	960,0	268,0	39,237	•		•	1		
	313922	355	250	960,0	480,0	52,683	•	•		1		
313924	355	315	960,0	480,0	55,511	•	•		1			
11	13619	200	160	500,0	300,0	7,445	•	•		1		
	13635	250	160	750,0	375,0	19,500	•	•		1	4	
	13641	250	200	750,0	375,0	18,500	•	•		1	4	
	13653	315	160	920,0	237,5	24,850	•		•	1	1	
	13655	315	200	920,0	460,0	29,400	•	•		1		
	13657	315	250	920,0	460,0	30,500	•	•		1	4	
	13665	355	160	960,0	257,5	30,893	•		•	1		
	13667	355	200	960,0	267,5	31,651	•		•	1		
	13669	355	250	960,0	480,0	39,220	•	•		1		
	13671	355	315	960,0	480,0	44,721	•	•		1		
	13678	400	160	1000,0	354,0	44,111	•		•	1		
	13680	400	200	1000,0	318,0	44,111	•		•	1		
	13682	400	250	1000,0	280,0	44,111	•		•	1		
	13684	400	315	1000,0	500,0	47,500	•	•		1		
	13685	400	355	1000,0	500,0	54,361	•	•		1		
	13692	450	160	1050,0	379,0	57,962	•		•	1		
	13694	450	200	1050,0	343,0	57,962	•		•	1		
	13696	450	250	1050,0	305,0	57,962	•		•	1		
13698	450	315	1050,0	315,0	58,818	•		•	1			
13699	450	355	1050,0	525,0	78,330	•	•		1			
13700	450	400	1050,0	525,0	78,330	•	•		1			

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

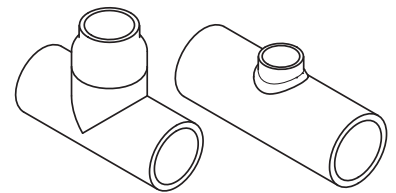
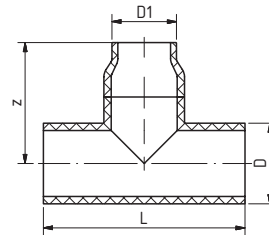
Systems: aquatherm blue pipe
Material: fusiolen® PP-R
Standard: DIN 16962, DIN EN ISO 15874
Colour: blue/green
Branch: socket welding
Form: pipes with weld-in saddle



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

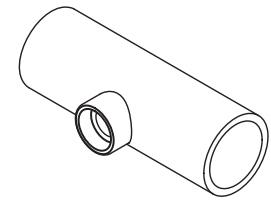
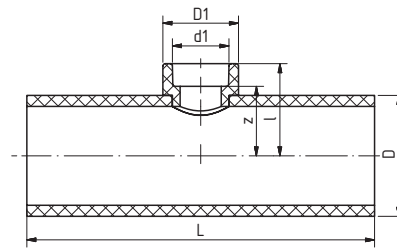
Systems: aquatherm blue pipe
Material: fusiolen® PP-R
Standard: DIN 16962, DIN EN ISO 15874
Colour: blue/green
Branch: butt welding



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

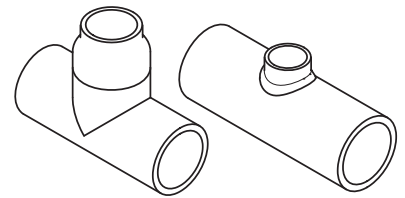
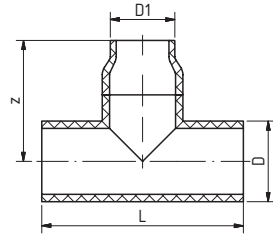


SDR	Art. no.	D [mm]	d1 [mm]	D1 [mm]	L [mm]	l [mm]	z [mm]	Weight [kg]	System	pipe segments	injection molded*	PU	Box unit	Price € pc
<i>branch: socket welding</i>														
17.6	2513600	160	75	100,0	460,0	122,0	92,0	2,227	•	•		1		
	2513602	160	90	120,0	460,0	125,0	92,0	2,364	•	•		1		
	2513606	160	125	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
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>												
	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	
17.6	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	

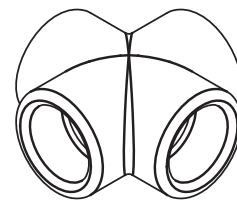
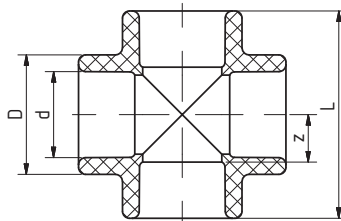
CROSS

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	500	
7.4	13710	25	34,0	59,0	13,5	0,035	• •	10	500	
9	13712	32	43,0	70,0	17,0	0,062	• •	5	250	
11	13714	40	52,0	83,0	21,0	0,099	• •	5	150	

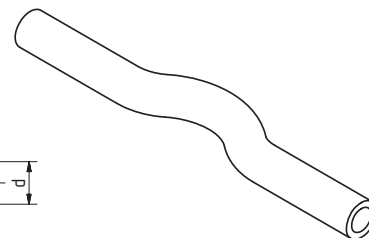
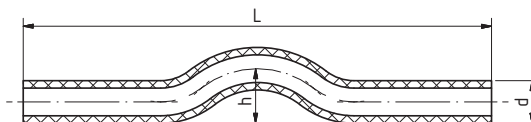
CROSS OVER FITTING

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
<i>socket welding</i>									
6	16106	16	25,0	352,0	0,038	•	10	600	
7.4	16108	20	32,0	352,0	0,060	• •	10	400	
9	16110	25	37,5	352,0	0,091	• •	10	250	
11	16112	32	48,0	352,0	0,154	• •	5	120	

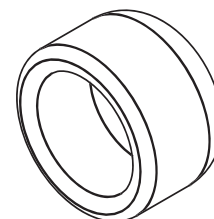
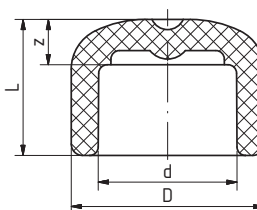
END CAP

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R & PP-RP

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>										
	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	
6	14114	40	52,0	17,5	38,0	0,042	• •	5	500	
7.4	14116	50	68,0	21,0	44,5	0,082	• •	5	300	
9	14118	63	84,0	24,5	52,0	0,146	• •	1	150	
11	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	30	

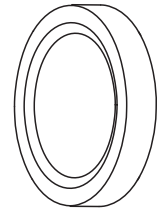
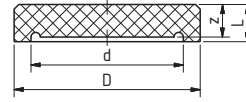
END CAP BUTT-WELDING

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R & PP-RP

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	30	
	14134	200	80,0	27,4	145,2	1,398	•	1	24	
	14138	250	90,0	34,2	181,6	2,530	•	1	10	
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	0,759	• •	1	30	
	14135	200	80,0	18,2	163,6	1,070	• •	1	24	
	14139	250	90,0	22,7	204,6	1,989	• •	1	10	
	14143	315	70,0	52,5	257,8	4,200	• •	1	5	
	14145	355	80,0	67,5	290,6	6,410	• •	1	2	
	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	2,109	•	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

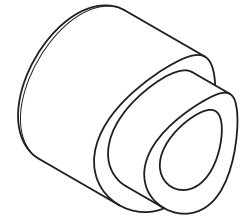
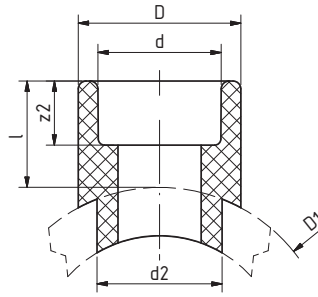
Systems: aquatherm green pipe,
aquatherm blue pipe

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>												
	15156*	40	20	25	27,0	14,5	29,5	0,016	• •	5	1000	
	15158*	40	25	25	28,5	16,0	34,0	0,017	• •	5	1000	
	15160	50	20	25	27,5	14,5	29,5	0,018	• •	5	1000	
	15162	50	25	25	28,5	16,0	34,0	0,019	• •	5	1000	
	15164	63	20	25	27,5	14,5	29,5	0,017	• •	5	1000	
	15166	63	25	25	28,5	16,0	34,0	0,019	• •	5	750	
	15168	63	32	32	30,0	18,0	43,0	0,028	• •	5	750	
	15170	75	20	25	27,5	14,5	29,5	0,018	• •	5	1000	
	15172	75	25	25	28,5	16,0	34,0	0,019	• •	5	750	
	15174	75	32	32	30,0	18,0	43,0	0,028	• •	5	750	
	15175	75	40	40	34,0	20,5	52,0	0,049	• •	5	400	
	15176	90	20	25	27,5	14,5	29,5	0,018	• •	5	1000	
	15178	90	25	25	28,5	16,0	34,0	0,019	• •	5	1000	
	15180	90	32	32	30,0	18,0	43,0	0,029	• •	5	700	
	15181	90	40	40	34,0	20,5	52,0	0,048	• •	5	400	
	15182	110	20	25	27,5	14,5	29,5	0,019	• •	5	1000	
	15184	110	25	25	28,5	16,0	34,0	0,020	• •	5	1000	
	15186	110	32	32	30,0	18,0	43,0	0,030	• •	5	750	
	15188	110	40	40	34,0	20,5	52,0	0,050	• •	5	400	
	15189	110	50	50	34,0	23,5	68,0	0,091	• •	5	200	
	15190	125	20	25	27,5	14,5	29,5	0,019	• •	5	1000	
	15192	125	25	25	28,5	16,0	34,0	0,020	• •	5	1000	
	15194	125	32	32	30,0	18,0	43,0	0,029	• •	5	650	
6	15196	125	40	40	34,0	20,5	52,0	0,050	• •	5	400	
7.4	15197	125	50	50	34,0	23,5	68,0	0,090	• •	5	200	
9	15198	125	63	63	38,0	27,5	84,0	0,149	• •	5	125	
11	15206	160	20	25	27,5	14,5	29,5	0,021	• •	5	700	
17.6	15208	160	25	25	28,5	16,0	34,0	0,023	• •	5	700	
	15210	160	32	32	30,0	18,0	43,0	0,034	• •	5	500	
	15212	160	40	40	34,0	20,5	52,0	0,054	• •	5	300	
	15214	160	50	50	34,0	23,5	68,0	0,094	• •	5	200	
	15216	160	63	63	38,0	27,5	84,0	0,157	• •	5	120	
	15218	160	75	75	42,0	30,0	100,0	0,238	• •	5	80	
	15220	160	90	90	45,0	33,0	120,0	0,360	• •	5	40	
	15228	200-250	20	25	27,5	14,5	29,5	0,020	• •	5	100	
	15229	200-250	25	25	28,5	16,0	34,0	0,021	• •	5	100	
	15230	200-250	32	32	30,0	18,0	43,0	0,031	• •	5	50	
	15231	200	40	40	34,0	20,5	52,0	0,049	• •	5	200	
	15232	200	50	50	34,0	23,5	68,0	0,087	• •	5	200	
	15233	200	63	63	37,5	27,5	84,0	0,146	• •	5	120	
	15234	200	75	75	42,0	30,0	100,0	0,225	• •	5	100	
	15235	200	90	90	45,0	33,0	120,0	0,356	• •	5	5	
	15236	200	110	110	49,0	37,0	147,0	0,638	• •	5	2	
	15237	200	125	125	55,0	40,0	167,0	0,862	• •	5	20	
	15251	250	40	40	34,0	20,5	52,0	0,053	• •	5	150	
	15252	250	50	50	34,0	23,5	68,0	0,090	• •	5	100	
	15253	250	63	63	37,5	27,5	84,0	0,152	• •	5	140	
	15254	250	75	75	42,0	30,0	100,0	0,222	• •	5	5	
	15255	250	90	90	45,0	33,0	120,0	0,348	• •	5	5	
	15256	250	110	110	49,0	37,0	147,0	0,602	• •	5	20	
	15257	250	125	125	55,0	40,0	167,0	0,820	• •	5	20	

WELD-IN SADDLE

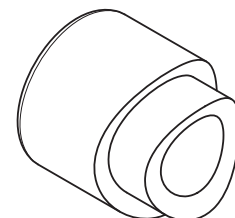
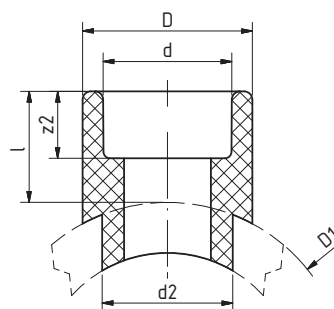
for pressureless installation

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



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	120	
	15261	315-355	75	75	42,0	30,0	100,0	0,230	• •	1	100	
	15262	315	90	90	45,0	33,0	120,0	0,363	• •	1	60	
	15263	315	110	110	49,0	37,0	147,0	0,592	• •	1	30	
	15264	315	125	125	55,0	40,0	167,0	0,830	• •	1	20	
	15268	355	90	90	45,0	33,0	120,0	0,355	• •	1	50	
	15269	355	110	110	49,0	37,0	147,0	0,586	• •	1	30	
	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 98 onwards.

WELD-IN SADDLE BUTT WELDING

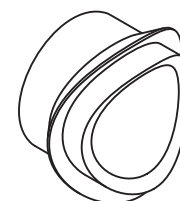
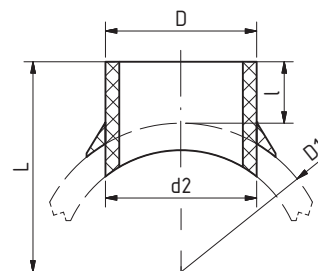
for pressureless installation

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R & PP-RP

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	0,868	• •	1	16	
	15271	355	160	160	80,0	257,5	0,867	• •	1	18	

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 98 onwards.

WELD-IN SADDLE WITH FEMALE THREAD

for pressureless installation

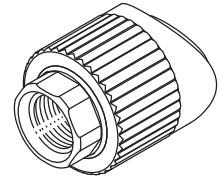
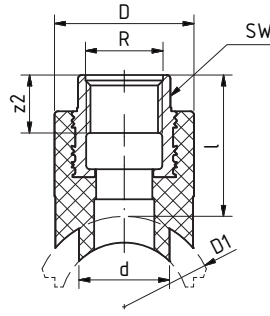
Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874
fusiolen® PP-R, 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>													
	28214*	40	25	39,0	16,0	38,5	1/2"	24	0,088	• •	5	300	
	28216	50	25	39,0	16,0	38,5	1/2"	24	0,090	• •	5	300	
	28218	63	25	39,0	16,0	38,5	1/2"	24	0,089	• •	5	300	
	28220	75	25	39,0	16,0	38,5	1/2"	24	0,083	• •	5	300	
	28222	90	25	39,0	16,0	38,5	1/2"	24	0,090	• •	5	300	
	28224	110	25	39,0	16,0	38,5	1/2"	24	0,089	• •	5	300	
	28226	125	25	39,0	16,0	38,0	1/2"	24	0,092	• •	5	250	
	28230	160	25	39,0	16,0	38,5	1/2"	24	0,092	• •	5	250	
	28232	200-250	25	39,0	16,0	38,5	1/2"	24	0,092	• •	5	50	
	28234	40	25	39,0	21,0	43,5	3/4"	31	0,107	• •	5	300	
6	28236	50	25	39,0	21,0	43,5	3/4"	31	0,110	• •	5	300	
7.4	28238	63	25	39,0	21,0	43,5	3/4"	31	0,109	• •	5	300	
9	28240	75	25	39,0	21,0	43,5	3/4"	31	0,109	• •	5	300	
11	28242	90	25	39,0	21,0	43,5	3/4"	31	0,110	• •	5	300	
17.6	28244	110	25	39,0	21,0	43,5	3/4"	31	0,110	• •	5	300	
	28246	125	25	39,0	21,0	43,5	3/4"	31	0,112	• •	5	300	
	28250	160	25	39,0	21,0	43,5	3/4"	31	0,112	• •	5	250	
	28254	200-250	25	39,0	21,0	43,5	3/4"	31	0,112	• •	5	250	
	28260	75	32	43,0	22,0	60,0	1"	39	0,223	• •	5	125	
	28262	90	32	43,0	22,0	60,0	1"	39	0,223	• •	5	125	
	28264	110	32	43,0	22,0	60,0	1"	39	0,223	• •	5	125	
	28266	125	32	43,0	22,0	60,0	1"	39	0,224	• •	5	125	
	28270	160	32	43,0	22,0	60,0	1"	39	0,226	• •	5	125	
	28274	200-250	32	43,0	22,0	60,0	1"	39	0,244	• •	5	25	

WELD-IN SADDLE WITH FEMALE THREAD

for pressureless installation

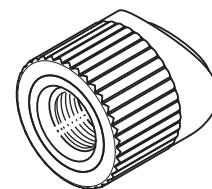
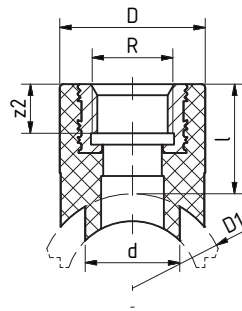
Systems: aquatherm green pipe,
aquatherm blue pipe

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	300	
	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	300	
	928220	75	25	39,0	16,0	38,5	1/2"	0,064	• •	5	300	
	928222	90	25	39,0	16,0	38,5	1/2"	0,064	• •	5	300	
	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	250	
	928230	160	25	39,0	16,0	38,5	1/2"	0,066	• •	5	250	
	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	300	
	928236	50	25	39,0	21,0	43,5	3/4"	0,074	• •	5	300	
	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	300	
	928242	90	25	39,0	21,0	43,5	3/4"	0,074	• •	5	300	
	928244	110	25	39,0	21,0	43,5	3/4"	0,083	• •	5	300	
	928246	125	25	39,0	21,0	43,5	3/4"	0,074	• •	5	300	
	928250	160	25	39,0	21,0	43,5	3/4"	0,076	• •	5	250	
928254	200-250	25	39,0	21,0	43,5	3/4"	0,084	• •	5	250		

WELD-IN SADDLE WITH FEMALE THREAD

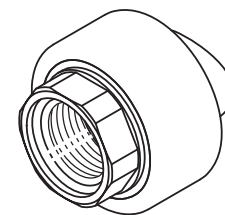
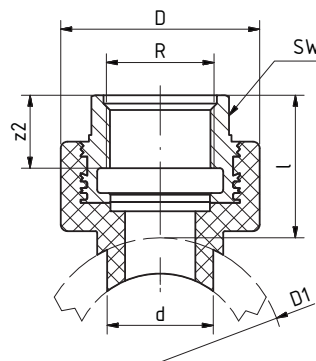
for pressureless installation

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



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

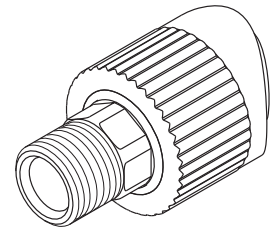
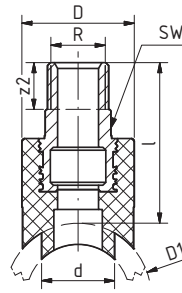
Systems: aquatherm green pipe,
aquatherm blue pipe

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	300	
	28316	50	25	55,0	16,0	38,5	1/2"	21	0,090	• •	5	300	
	28318	63	25	55,0	16,0	38,5	1/2"	21	0,089	• •	5	300	
	28320	75	25	55,0	16,0	38,5	1/2"	21	0,097	• •	5	300	
	28322	90	25	55,0	16,0	38,5	1/2"	21	0,090	• •	5	300	
	28324	110	25	55,0	16,0	38,5	1/2"	21	0,089	• •	5	300	
	28326	125	25	55,0	16,0	38,5	1/2"	21	0,092	• •	5	300	
	28330	160	25	55,0	16,0	38,5	1/2"	21	0,092	• •	5	250	
	28334*	40	25	56,0	17,0	43,5	3/4"	24	0,107	• •	5	250	
	28336	50	25	56,0	17,0	43,5	3/4"	24	0,110	• •	5	250	
	28338	63	25	56,0	17,0	43,5	3/4"	24	0,109	• •	5	250	
	28340	75	25	56,0	17,0	43,5	3/4"	24	0,109	• •	5	250	
	28342	90	25	56,0	17,0	43,5	3/4"	24	0,110	• •	5	250	
	28344	110	25	56,0	17,0	43,5	3/4"	24	0,110	• •	5	250	
	28346	125	25	56,0	17,0	43,5	3/4"	24	0,112	• •	5	250	
	28350	160	25	56,0	17,0	43,5	3/4"	24	0,112	• •	5	250	

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 98 onwards.

aquatherm WELD-ON SADDLE SET WITH BALL VALVE

for installation under pressure

in use with tapping tool page 102

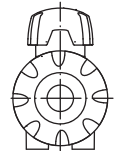
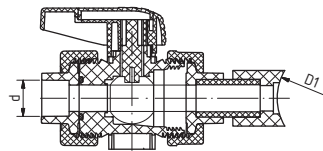
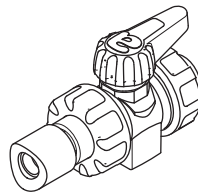
Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green

Notice: do not use with aquatherm blue pipe OT



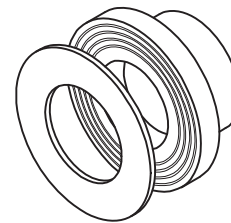
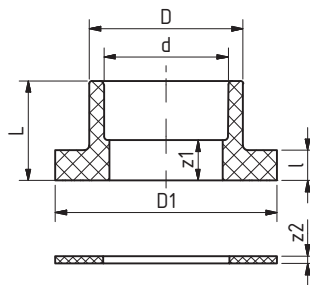
SDR	Art. no.	d [mm]	D1 [mm]	System	PU	Box unit	Price € pc
6 7.4 9 11 17.6	16175	40	75	• •	1		
	16181	40	90	• •	1		
	16188	40	110	• •	1		
	16196	40	125	• •	1		
	16198	63	125	• •	1		
	16212	40	160	• •	1		
	16216	63	160	• •	1		
	16231	40	200	• •	1		
	16233	63	200	• •	1		
	16251	40	250	• •	1		
	16253	63	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 103 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

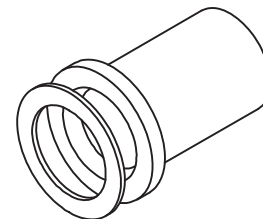
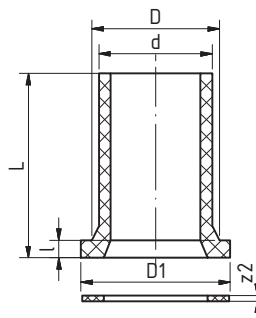


SDR	Art. no.	Dimension d [mm]	L [mm]	l [mm]	D [mm]	D1 [mm]	z1 [mm]	z2 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>													
6 7.4 9 11	15512	32	34,0	10,0	41,0	68,0	16,0	3	0,053	• •	1	500	
	15514	40	35,5	11,0	50,0	78,0	15,0	3	0,071	• •	1	250	
	15516	50	39,5	12,0	61,0	88,0	16,0	3	0,071	• •	1	200	
	15518	63	43,5	14,0	76,0	102,0	16,0	3	0,112	• •	1	100	
	15520	75	46,0	16,0	90,0	122,0	16,0	3	0,169	• •	1	80	
	15522	90	50,0	17,0	108,0	138,0	17,0	3	0,261	• •	1	50	
	15524	110	55,5	18,5	131,0	158,0	18,5	3	0,329	• •	1	40	
	15527	125	63,0	20,0	165,0	188,0	23,0	3	0,724	• •	1	25	

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]	l [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	16	

*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

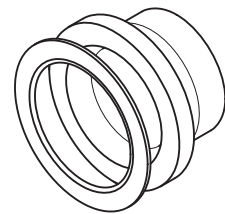
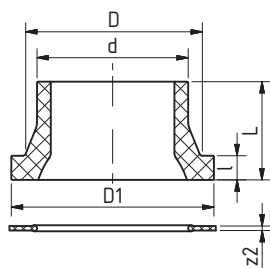
with gasket

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R & PP-RP

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art. no.	Dimension d [mm]	L [mm]	l [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	16	
	15534	200	130,0	32,0	232,0	268,0	6,00	2,292	•	1	6	
	15538	250	130,0	35,0	285,0	320,0	6,00	3,298	•	1	5	
	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		
315544	355	217,0	77,0	372,0	432,0	6	14,000	•	1			
11	15531	160	93,0	25,0	175,0	212,0	3	0,955	• •	1	16	
	15535	200	130,0	32,0	232,0	268,0	6	1,957	• •	1	6	
	15539	250	130,0	35,0	285,0	320,0	6	2,717	• •	1	5	
	15543	315	168,0	35,0	335,0	370,0	6	6,000	• •	1	3	
	15545	355	180,0	40,0	373,0	430,0	6	7,930	• •	1	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			

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

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

FLANGE ADAPTER INCL. FLANGE PN6

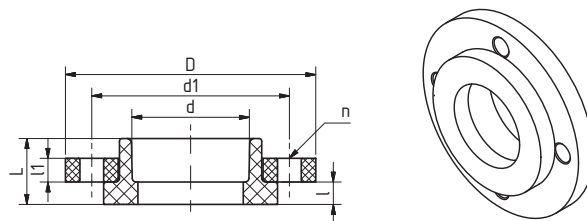
without gasket

Systems: aquatherm green pipe, aquatherm blue pipe

Material: Flange: Steel galvanized
Flange adapter: fusiolen® PP-R

Colour: Flange: black
Flange adapter: green

d = 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

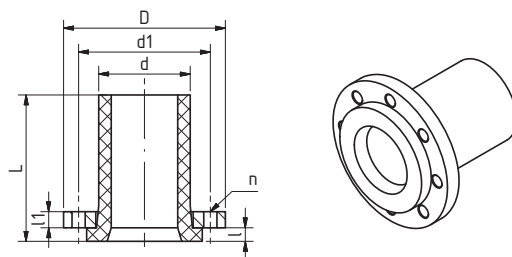
without gasket

Systems: aquatherm green pipe, aquatherm blue pipe

Material: Flange: Steel galvanized
Flange adapter: fusiolen® PP-R

Colour: Flange: black
Flange adapter: green

d = 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

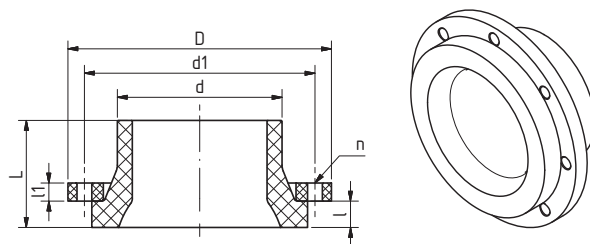
without gasket

Systems: aquatherm green pipe, aquatherm blue pipe

Material: Flange: Steel galvanized
Flange adapter: fusiolen® PP-R

Colour: Flange: black
Flange adapter: green

d = 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		

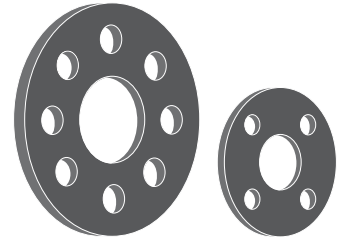
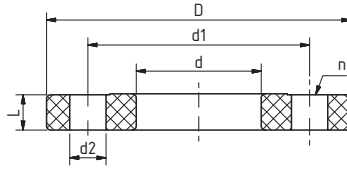
Delivery time: on request

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>															
	15712	15512	32	25	42,0	85,0	116,0	14,0	15,5	4	0,469	•	•	1	100
	15714	15514	40	32	51,0	100,0	141,0	18,0	17,5	4	0,722	•	•	1	80
	15716	15516	50	40	62,0	110,0	151,0	18,0	17,5	4	0,770	•	•	1	60
	15718	15518	63	50	78,0	125,0	166,0	18,0	19,0	4	0,911	•	•	1	40
	15720	15520	75	65	92,0	145,0	186,0	18,0	19,0	4	1,132	•	•	1	40
	15722	15522	90	80	110,0	160,0	201,0	18,0	21,0	8	1,356	•	•	1	30
	15724	15524/26	110	100	133,0	180,0	221,0	18,0	22,0	8	1,475	•	•	1	20
	15726	15527	125	125	167,0	210,0	251,0	18,0	26,0	8	2,082	•	•	1	15
	15730	15531 315530 2515530	160	150	178,0	240,0	286,0	22,0	27,0	8	3,671	•	•	1	16
6	15734*	15535	200	200	235,0	295,0	341,0	22,0	28,0	8	4,709	•	•	1	4
7.4		315534													
9		2515534													
11	15738*	15539	250	250	288,0	350,0	406,0	22,0	31,0	12	7,094	•	•	1	4
17.6		315538 2515538													
	15742*	15543 315542 2515542	315	300	340,0	400,0	460,0	22,0	33,5	12	9,500	•	•	1	1
	15744*	15545 315544 2515544	355	350	376,0	460,0	520,0	22,0	39,0	16	15,300	•	•	1	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

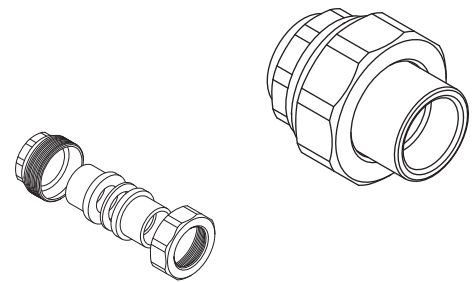
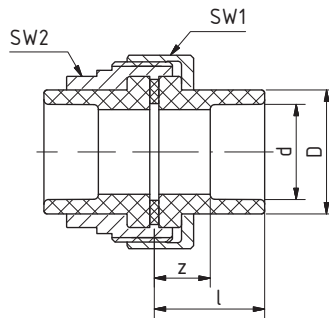
COUPLING SCREW JOINT

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass

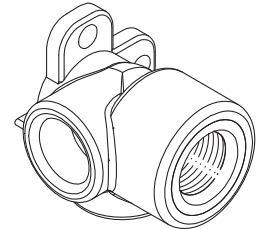
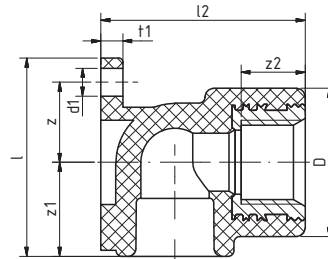
Standard: DIN 16962, DIN EN ISO 15874

Colour: green, brassy



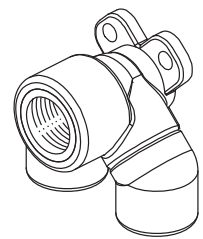
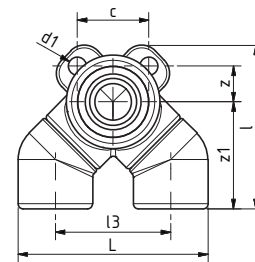
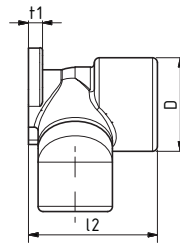
SDR	Art. no.	Dimension d [mm]	l [mm]	z [mm]	D [mm]	SW1 [mm]	SW2 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>												
	15812	32	36,5	18,5	41,0	64	50	0,479	•	•	1	100
6	15814	40	38,0	17,5	50,0	80	60	0,841	•	•	1	50
7.4	15816	50	41,0	17,5	61,0	86	70	0,821	•	•	1	50
9	15818	63	45,0	17,5	76,0	108	90	1,498	•	•	1	25
11	15820	75	31,0	17,5	90,0	128	104	1,998	•	•	1	15

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		

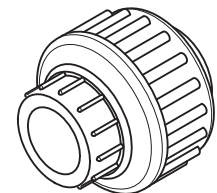
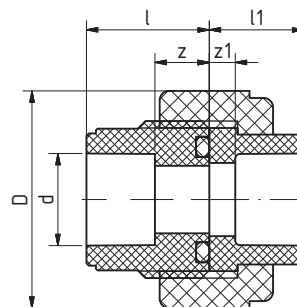


aquatherm green pipe FLOW-THROUGH BACK PLATE ELBOW, PARALLEL

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

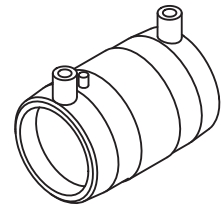
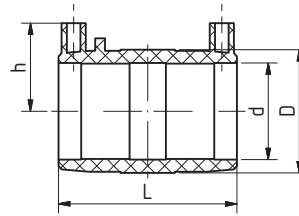
- Systems:** aquatherm green pipe,
aquatherm blue pipe
- Material:** fusiolen® PP-R
- Standard:** DIN 16962, DIN EN ISO 15874
- Colour:** green



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	400	
	15840	25	28,0	12,0	21,0	5,0	56,0	0,058	• •	10	300	
	15842	32	30,0	12,0	23,0	5,0	66,0	0,089	• •	5	200	
	15844	40	34,0	13,5	25,5	5,0	79,0	0,136	• •	5	150	
	15846	50	39,0	15,5	28,8	5,0	87,0	0,170	• •	5	100	
	15848	63	47,5	20,0	32,5	5,0	107,0	0,240	• •	1	60	
	15850	75	50,0	20,0	36,0	6,0	128,0	0,546	• •	1	40	

ELECTROFUSION SOCKET

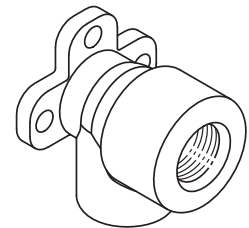
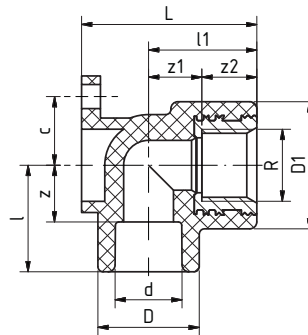
- Systems:** aquatherm green pipe,
aquatherm blue pipe
- Material:** fusiolen® PP-R
- Standard:** DIN 16962, DIN EN ISO 15874
- Colour:** green
- Notice:** do not use with 160 – 250 mm fittings
*do not use with aquatherm blue pipe MF OT



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	500	
	17210	25	78,0	38,5	36,5	0,057	• •	1	350	
	17212	32	80,0	42,5	45,0	0,077	• •	1	300	
	17214	40	92,0	47,0	54,0	0,103	• •	1	200	
	17216	50	103,0	52,0	65,0	0,142	• •	1	130	
	17218	63	118,0	58,0	81,5	0,239	• •	1	75	
	17220	75	130,0	64,5	96,0	0,347	• •	1	45	
	17222	90	145,0	72,0	113,5	0,501	• •	1	30	
	17224	110	160,0	82,5	139,0	0,821	• •	1	22	
	17226	125	172,0	90,0	156,0	1,097	• •	1	16	
	17230*	160	186,0	109,5	197,0	1,754	• •	1	10	
	17234*	200	210,0	134,0	243,0	3,625	• •	1	2	
	17238*	250	250,0	170,0	315,0	7,142	• •	1	2	

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

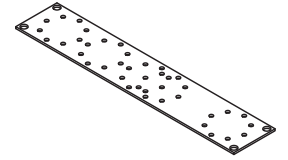
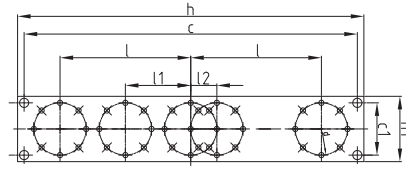


SDR	Art. no.	d [mm]	R	l [mm]	z [mm]	D [mm]	l1 [mm]	z1 [mm]	z2 [mm]	D1 [mm]	L [mm]	c [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>																	
brass																	
6 7.4 11	20106	16	1/2"	31,0	18,0	29,5	31,5	18,5	13,0	37,0	51,0	20,0	0,080	•		200	
	20108	20	1/2"	31,0	16,5	29,5	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	• •		150	
	20112	25	3/4"	37,0	21,0	34,0	37,0	24,0	13,0	44,0	54,0	-	0,105	• •		150	
	20113	25	1/2"	33,5	17,5	34,0	31,0	18,0	13,0	37,0	53,0	20,0	0,080	• •		200	
	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	•		200	
	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	• •		150	
	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



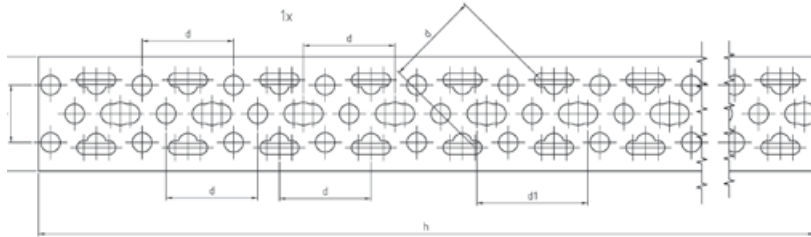
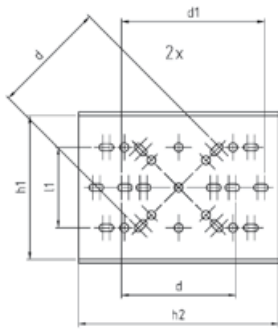
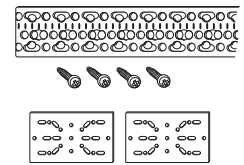
Art. no.	d [mm]	l [mm]	l1 [mm]	l2 [mm]	c [mm]	c1 [mm]	h [mm]	h1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
60010	40	100	50	20	255	40	265	50	0,221	• •	1	200	

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

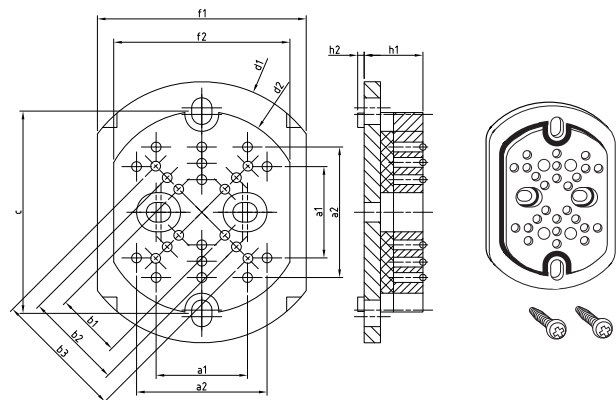


Art. no.	d [mm]	d1 [mm]	l [mm]	l1 [mm]	h [mm]	h1 [mm]	h2 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
79090	40	50	25	28	560	70	70	0,546	• •	1	100	

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



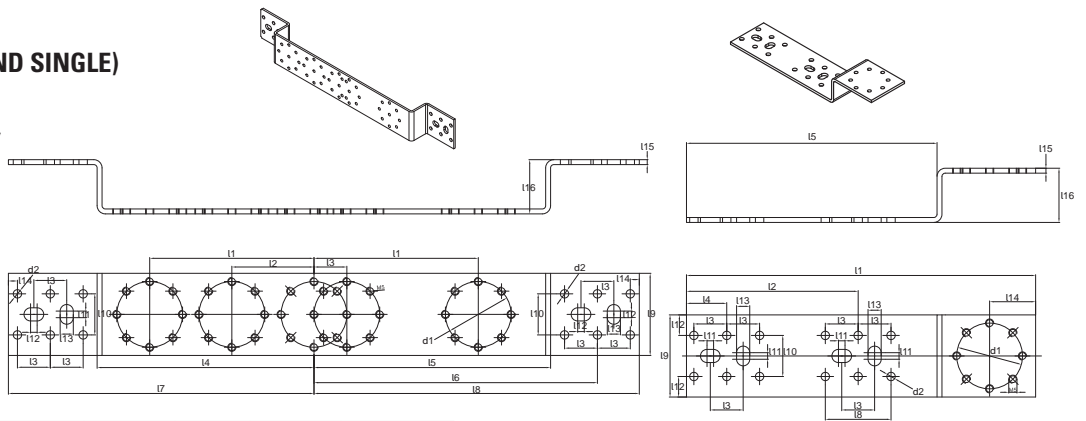
Art. no.	a1 [mm]	a2 [mm]	b1 [mm]	b2 [mm]	b3 [mm]	c [mm]	d1 [mm]	d2 [mm]	f1 [mm]	f2 [mm]	h1 [mm]	h2 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
79080	28	20	30	40	62	62	80	62	64	54	18	2	0,058	• •	2		

MOUNTING RAIL (DOUBLE AND SINGLE)

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: iron, galvanized

Colour: zinc

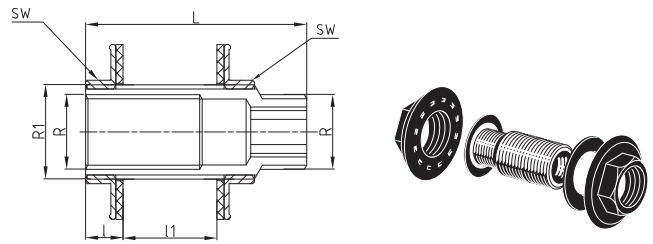


Art. no.	ø d1 [mm]	ø d2 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
79095	40	5,1	0,412	• •	2	20	
79096	40	5,1	0,235	• •	2	20	

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	300	

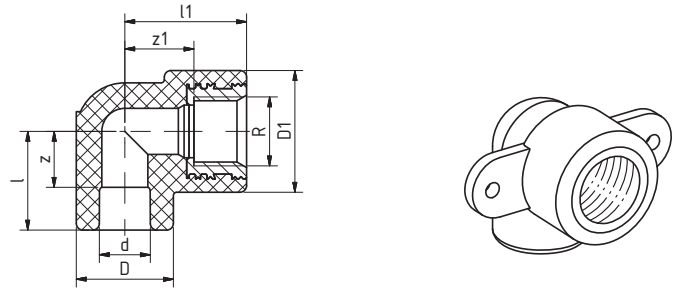
BACK PLATE ELBOW FOR DRY CONSTRUCTION

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	250	
7.4	20158	20	1/2"	30,0	15,5	29,5	37,0	24,0	37,0	0,079	• •	10	200	
stainless steel														
11	920158	20	1/2"	30,0	15,5	29,5	37,0	24,0	37,0	0,078	• •	10		

TRANSITION PIECE

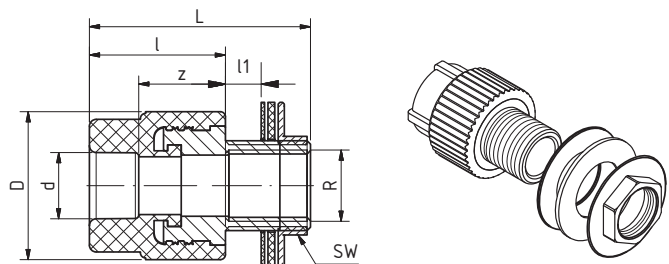
with counternut, gasket and tension washer

Systems: aquatherm green pipe aquatherm blue pipe

Material: fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



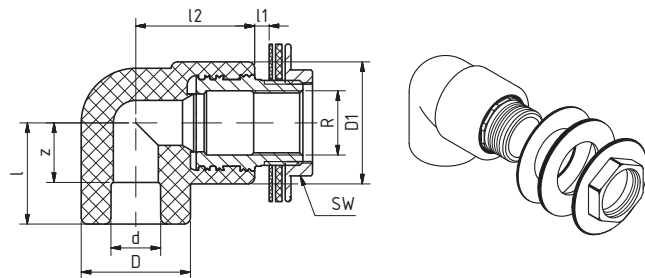
SDR	Art. no.	d [mm]	R	l [mm]	z [mm]	D [mm]	l1 [mm]	L [mm]	SW [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>														
6	20204	20	1/2"	40,0	25,5	43,5	13,5	65,0	29	0,204	• •	10	200	

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



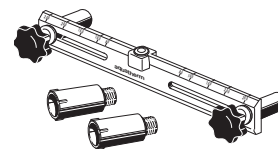
SDR	Art. no.	d [mm]	R	l [mm]	z [mm]	D [mm]	l1 [mm]	l2 [mm]	D1 [mm]	SW [mm]	Weight [kg]	System	PU	Box unit	Price € pc
<i>socket welding</i>															
6	20206	16	1/2"	37,0	24,0	29,5	3,5	35,0	44,0	29	0,201	•	10	200	
7.4	20208	20	1/2"	37,0	22,5	29,5	3,5	35,0	44,0	29	0,154	• •	10	200	
11	20209	25	1/2"	37,0	21,0	34,0	3,5	37,0	44,0	29	0,206	• •	10	150	

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

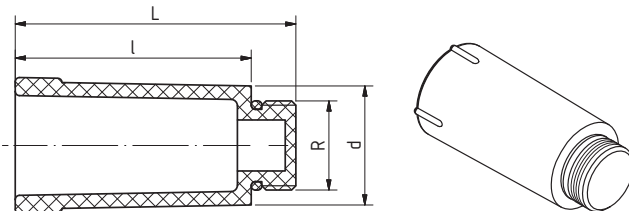


Art. no.	Weight [kg]	System	PU	Box unit	Price € pc
50700	0,252	• •	1		

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

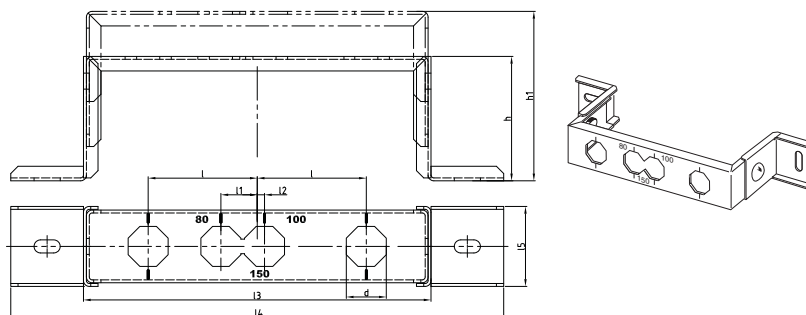


Art. no.	d [mm]	R	l [mm]	L [mm]	Weight [kg]	System	PU	Box unit	Price € pc
50708	28	1/2"	55,5	66,0	0,022	• •	10		
50710	34	3/4"	55,5	66,0	0,027	• •	10		

MOUNTING UNIT

double

- Systems:** aquatherm green pipe, aquatherm blue pipe
Material: iron/galvanized zinc
Colour: zinc

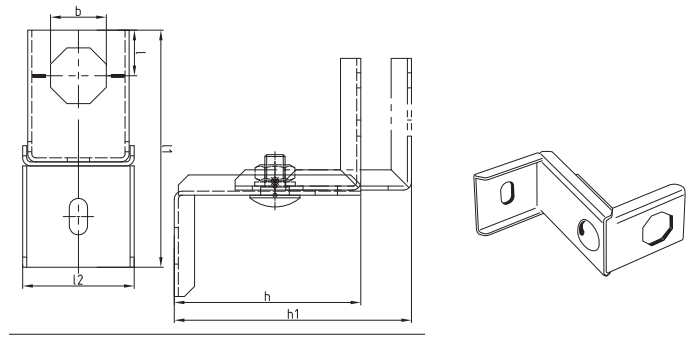


Art. no.	b [mm]	l [mm]	l1 [mm]	l2 [mm]	h [mm]	h1 [mm]	l3 [mm]	l4 [mm]	l5 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
60110	27,5	75	25	5	92,5	122,5	239	339	55	0,630	• •	1	25	

MOUNTING UNIT

single

Systems: aquatherm green pipe,
aquatherm blue pipe
Material: iron/galvanized
Colour: zinc

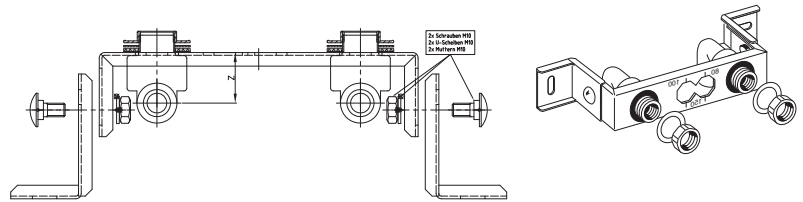


Art. no.	b [mm]	l [mm]	l1 [mm]	l2 [mm]	h [mm]	h1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
60115	27,5	118	22,5	55	92,5	122,5	0,278	• •	1	100	

MOUNTING UNIT

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

Systems: aquatherm green pipe,
aquatherm blue pipe
Material: fusiolen® PP-R, brass
iron/galvanized
Colour: green
zinc

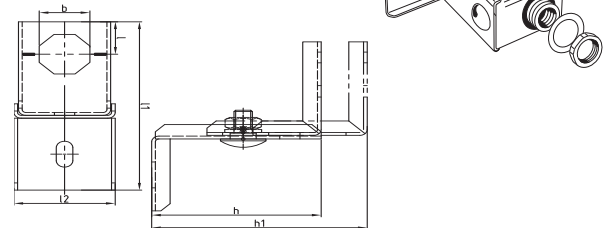


Art. no.	b [mm]	l [mm]	l1 [mm]	l2 [mm]	h [mm]	h1 [mm]	l3 [mm]	l4 [mm]	l5 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
60150	27,5	75	25	5	92,5	122,5	239	339	55	0,942	• •	1	25	

MOUNTING UNIT

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

Systems: aquatherm green pipe,
aquatherm blue pipe
Material: fusiolen® PP-R, brass
iron/galvanized
Colour: green
zinc

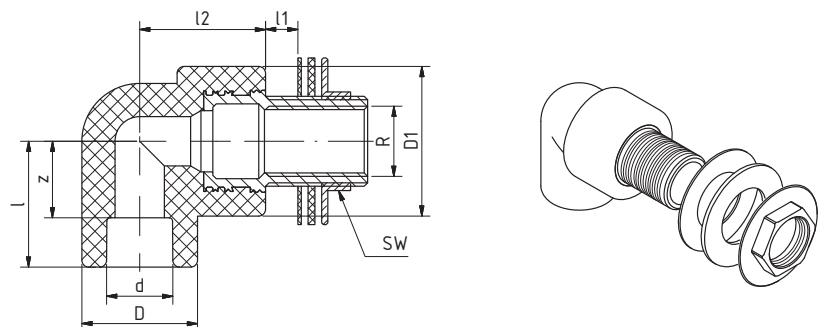


Art. no.	b [mm]	l [mm]	l1 [mm]	l2 [mm]	h [mm]	h1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
60155	27,5	22,5	118	55	92,5	122,5	0,434	• •	1	80	

TRANSITION ELBOW

for plasterboard

Systems: aquatherm green pipe,
aquatherm blue pipe
Material: fusiolen® PP-R, brass
Colour: green

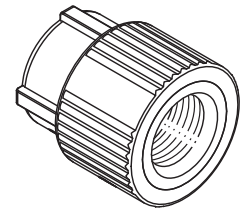
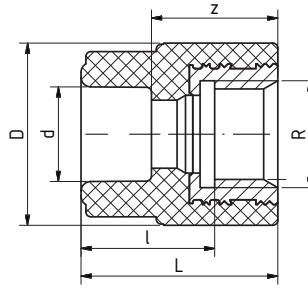


SDR	Art. no.	d [mm]	R	l [mm]	z [mm]	D [mm]	L [mm]	l1 [mm]	D1 [mm]	SW [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6	20210	20	1/2"	37,0	22,5	29,5	18,5	35,0	44,0	29	0,223	• •	10	200	
7.4															
11															

with 30 mm thread, conternut, 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												
	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	
6	21013	32	3/4"	30,5	25,5	43,5	43,5	0,092	• •	5	250	
7.4	stainless steel											
9	921008	20	1/2"	27,5	26,0	37,5	40,5	0,069	• •	10	400	
11	921010	20	3/4"	27,5	26,0	43,5	40,5	0,090	• •	10	300	
	921011	25	1/2"	29,5	26,5	38,5	42,5	0,069	• •	10	400	
	921012	25	3/4"	27,5	24,5	43,5	40,5	0,086	• •	10	300	
	921013	32	3/4"	30,5	25,5	43,5	43,5	0,092	• •	5	200	
	921014	32	1/2"	28,0	23,0	37,0	41,0	0,078	• •	5	200	

TRANSITION PIECE WITH FEMALE THREAD

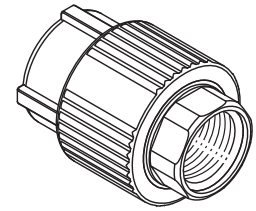
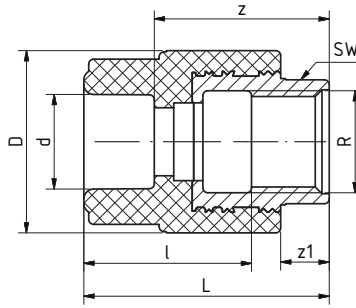
hex shaped threaded transition

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	400		
	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	125		
	21116	40	1 1/4"	40,0	42,5	15,0	74,0	63,0	50	0,385	• •	5	80		
	21117	50	1 1/4"	43,0	42,5	15,0	74,0	66,0	50	0,404	• •	5	75		
	21118	50	1 1/2"	45,0	43,5	15,0	84,0	67,0	55	0,418	• •	5	60		
	21119	63	1 1/2"	51,5	46,0	15,0	84,0	73,5	55	0,442	• •	1	50		
21120	63	2"	51,0	49,5	19,0	101,0	77,0	67	0,600	• •	1	35			
21122	75	2"	51,0	47,0	19,0	100,0	77,0	67	0,608	• •	1	25			
stainless steel															
	921114	32	1"	37,5	41,5	14,0	60,0	59,5	39	0,232	• •	5	150		
	921115	40	1"	40,0	41,5	14,0	60,0	62,0	39	0,219	• •	5	125		
	921116	40	1 1/4"	40,0	42,5	15,0	74,0	63,0	50	0,331	• •	5	80		
	921117	50	1 1/4"	43,0	42,5	15,0	74,0	66,0	50	0,351	• •	5	75		
	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	50		
	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	25		

TRANSITION PIECE WITH MALE THREAD

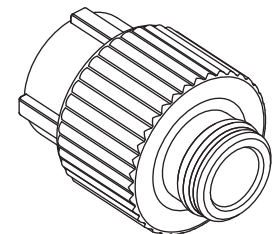
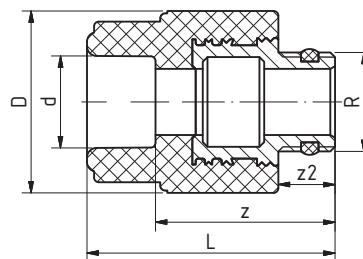
round, self sealing

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	400	
	21261	25	1/2"	54,0	38,0	12,0	38,5	0,078	• •	10	300	
	21262	25	3/4"	53,5	37,5	13,0	38,5	0,085	• •	10	350	

TRANSITION PIECE WITH MALE THREAD

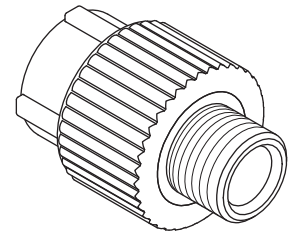
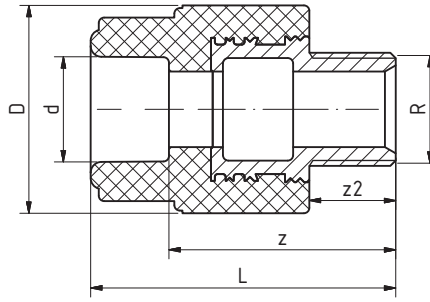
round

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	
brass													
6 7.4 9 11	21206	16	1/2"	56,5	43,5	16,0	38,5	0,097	•	10	400		
	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	400		
	921210	20	3/4"	57,5	43,0	17,0	38,5	0,108	• •	10	300		
	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	350		
921213	32	3/4"	59,5	41,5	17,0	38,5	0,115	• •	5	200			

TRANSITION PIECE WITH MALE THREAD

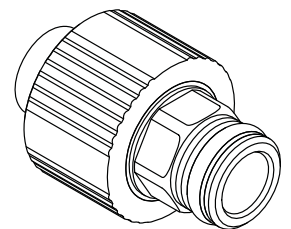
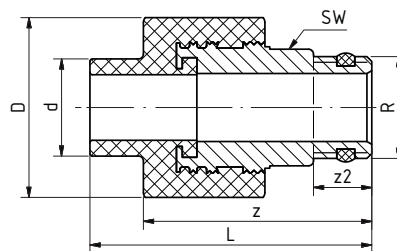
self-sealing, with hex shaped threaded transition
male/male

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	300	

TRANSITION PIECE WITH MALE THREAD

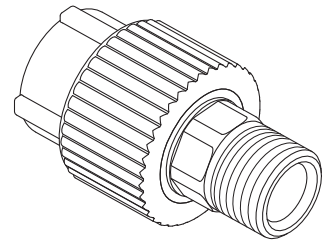
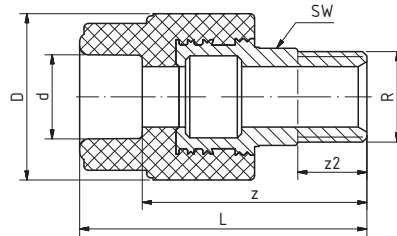
with hexagon or *octagon

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													
	21306	16	1/2"	22	66,5	53,5	16,0	38,5	0,119	•	10	300	
	21308	20	1/2"	22	66,5	52,0	16,0	38,5	0,104	• •	10	300	
	21310	20	3/4"	24	67,5	53,0	17,0	38,5	0,129	• •	10	300	
	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	75	
	21320	50	1 1/2"	46	88,5	65,0	22,0	74,0	0,425	• •	5	60	
	21321	63	1 1/2"	46	94,5	67,0	22,0	72,5	0,467	• •	1	40	
6	21322	63	2"	50	102,5	75,0	23,5	84,0	0,685	• •	1	35	
7.4	21323	75	2"	50	102,0	72,0	23,5	84,0	0,733	• •	1	25	
9	21324	75	2 1/2"	65	105,0	75,0	26,7	100,0	0,970	• •	1	25	
11	21325*	90	3"	85	121,0	88,0	30,0	120,0	1,326	• •	1	20	
	21327*	110	4"	105	148,0	111,0	39,0	147,0	2,730	• •	1	8	
stainless steel													
	921314	32	1"	32	78,5	60,5	20,0	53,0	0,204	• •	5	125	
	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	25	

TRANSITION PIECE WITH MALE THREAD

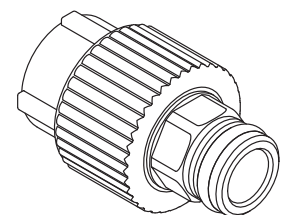
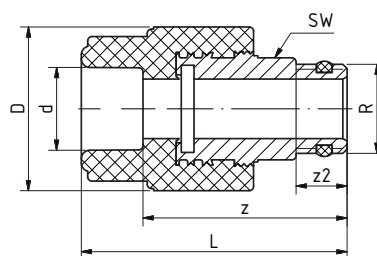
self-sealing, with hex shaped threaded transition female/male

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	300	
7.4	21358	20	1/2"	63,5	49,0	13,0	38,5	22	0,111	• •	10	300	

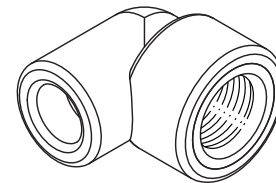
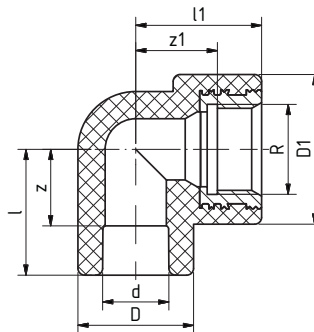
TRANSITION ELBOW WITH FEMALE THREAD

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	300	
	23008	20	3/4"	37,0	22,5	34,0	37,0	24,0	44,0	0,102	• •	10	250	
	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	150	
6	23018	32	1"	34,0	16,0	43,0	66,5	44,5	60,5	0,249	• •	5	100	
7.4	stainless steel													
9	923008	20	3/4"	37,0	22,5	29,5	37,0	24,0	37,0	0,095	• •	10	300	
	923010	20	1/2"	31,0	16,5	29,5	31,5	18,5	37,0	0,081	• •	10	300	
	923012	25	3/4"	37,0	21,0	34,0	37,0	24,0	44,0	0,101	• •	10	200	
	923014	25	1/2"	33,5	17,5	34,0	31,5	18,5	37,0	0,082	• •	10	250	
	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	150	
11	923018	32	1"	34,0	16,0	43,0	66,5	44,5	60,5	0,240	• •	5	100	

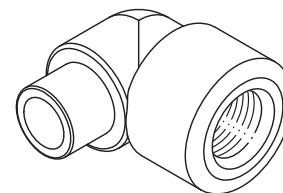
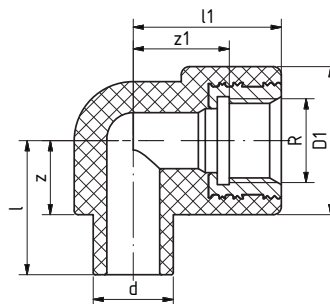
TRANSITION ELBOW WITH FEMALE THREAD

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													
7.4	23208	20	1/2"	33,5	18,5	37,0	24,0	37,0	0,076	• •	10	300	
11													

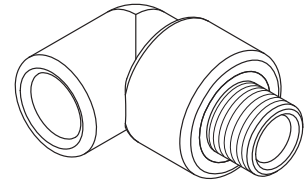
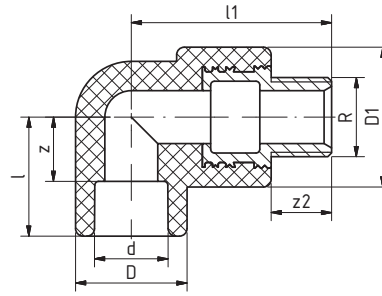
TRANSITION ELBOW WITH MALE THREAD

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	400		
	23506	20	1/2"	31,5	53,0	17,0	16,0	29,5	37,0	0,108	• •	10	250		
	23508	20	3/4"	31,5	54,0	17,0	17,0	34,0	38,0	0,128	• •	10	200		
	23510	25	3/4"	31,5	54,0	15,5	17,0	34,0	38,0	0,104	• •	10	250		
	23512	32	3/4"	27,5	68,0	9,5	17,0	43,0	38,0	0,112	• •	5	150		
	23514	32	1"	31,0	85,5	13,0	20,0	43,0	52,0	0,231	• •	5	100		
	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	200		
	923510	25	3/4"	31,5	54,0	15,5	17,0	34,0	38,0	0,121	• •	10	250		
	923512	32	3/4"	27,5	68,0	9,5	17,0	43,0	38,0	0,128	• •	5	150		

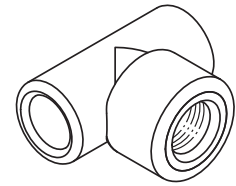
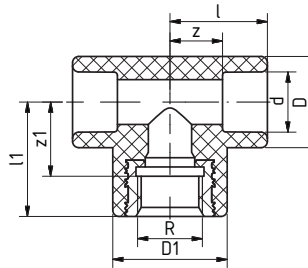
THREADED BRANCH TEE WITH FEMALE THREAD

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	250		
	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	125		
	25014	32	3/4"	27,5	9,5	43,0	51,0	38,0	44,0	0,111	• •	5	100		
	25016	32	1"	31,5	13,5	43,0	67,0	45,0	60,0	0,255	• •	5	80		
	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	80		
	25022	50	1"	49,5	26,0	68,0	63,5	41,5	60,0	0,385	• •	5	40		
	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	250		
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	200			
925012	25	3/4"	37,0	21,0	34,0	37,0	24,0	44,0	0,111	• •	10	150			
925013	32	1/2"	35,0	17,0	43,0	37,0	24,0	37,0	0,113	• •	5	125			
925014	32	3/4"	27,5	9,5	43,0	51,0	38,0	44,0	0,111	• •	5	100			
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

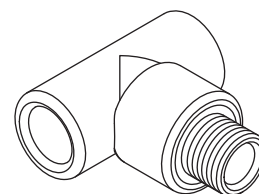
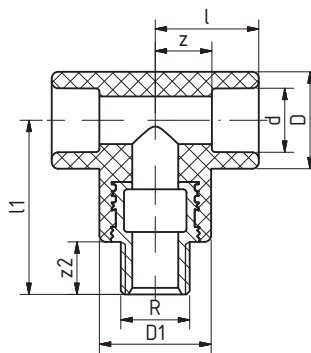
Systems: aquatherm green pipe,

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	25506	20	1/2"	31,5	17,0	29,5	16,0	37,0	0,102	• •	10	200	
11													

TRANSITION COUPLING WITH MALE THREAD

with union nut and welding socket

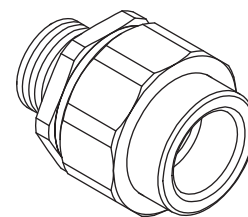
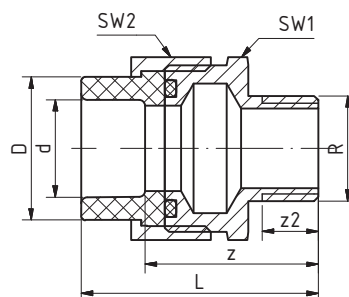
Systems: aquatherm green pipe,

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	26608	20	1/2"	52,5	38,0	13,5	27,5	34	36	0,145	• •	1	250	
7.4	26610	25	3/4"	59,5	43,5	14,5	36,0	42	46	0,243	• •	1	150	
9	26612	32	1"	64,5	46,5	16,8	41,5	48	52	0,336	• •	1	150	
11	26614	40	1 1/4"	70,0	49,5	19,1	53,0	60	64	0,517	• •	1	80	
	26616	50	1 1/2"	84,8	61,3	22,0	59,0	48	72	0,624	• •	1	60	
	26618	63	2"	95,5	68,0	25,0	74,0	62	89	1,045	• •	1	35	

TRANSITION COUPLING WITH FEMALE THREAD

with union nut and welding socket

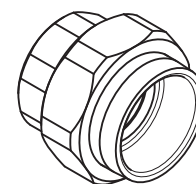
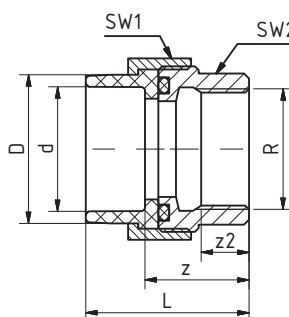
Systems: aquatherm green pipe,

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	26638	20	1/2"	30,5	15,0	27,5	45,0	36	24	0,112	• •	1	300	
7.4	26640	25	3/4"	33,0	15,5	36,0	49,0	46	32	0,193	• •	1	120	
9	26642	32	1"	36,0	15,0	41,5	54,0	52	40	0,291	• •	1	100	
11	26644	40	1 1/4"	36,0	20,0	53,0	56,5	64	47	0,423	• •	1	100	
	26646	50	1 1/2"	41,3	19,0	59,0	64,8	72	57	0,610	• •	1	60	
	26648	63	2"	47,0	18,0	74,0	74,5	89	68	0,924	• •	1	50	

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

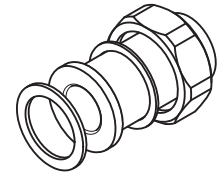
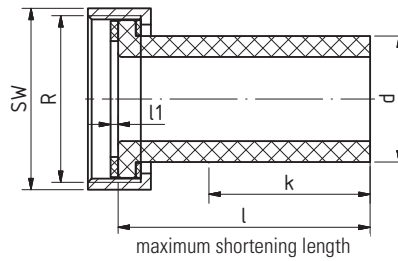
length: 100 mm, with gasket

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	150	
	26710	25	1 1/4"	100,0	3,0	62,0	46	0,104	• •	1	125	
	26712	32	1 1/2"	100,0	3,0	58,0	52	0,175	• •	1	100	
	26714	40	2"	100,0	3,0	53,0	64	0,258	• •	1	75	
	26716	50	2 1/4"	100,0	3,0	49,0	72	0,344	• •	1	60	
	26718	63	2 3/4"	100,0	3,0	43,0	89	0,583	• •	1	40	
	26720	75	3 1/2"	100,0	3,0	34,0	110	0,918	• •	1	30	
	26722	90	4"	100,0	3,0	26,0	120	1,238	• •	1	20	

WATER METER NUT ADAPTER

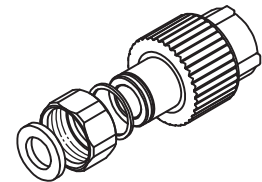
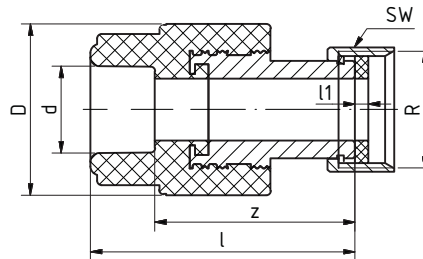
with gasket

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	250	
7,4	26810	25	61,0	3,0	45,0	38,5	3/4"	30	0,155	• •	1	250	
9	26812	32	62,0	3,0	44,0	43,5	3/4"	30	0,162	• •	1	200	
11													

NUT ADAPTER

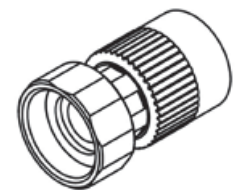
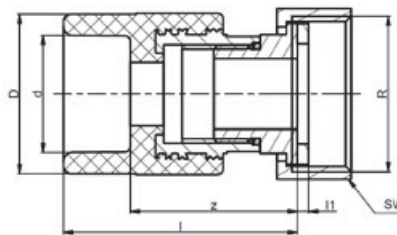
ISO-standard

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	300	
	27011	25	1"	60,0	3,0	44,0	38,5	36	0,186	• •	10	300	
	27012	25	1 1/4"	60,0	3,0	44,0	43,5	46	0,274	• •	10	250	
	27013	32	1 1/4"	63,0	3,0	45,0	43,5	46	0,279	• •	5	175	
	27014	32	1 1/2"	69,5	3,0	51,5	60,0	52	0,446	• •	5	125	
	27015	40	1 1/2"	72,0	3,0	51,5	60,0	52	0,421	• •	5	100	
	27016	40	2"	72,0	3,0	51,5	74,0	64	0,719	• •	5	70	
	27017	50	2"	75,0	3,0	51,5	74,0	64	0,736	• •	5	70	
	27018	50	2 1/4"	77,0	3,0	53,5	84,0	72	0,831	• •	5	50	
	27019	63	2 1/4"	83,5	3,0	56,0	84,0	72	0,889	• •	1	45	
	27020	63	2 3/4"	82,5	3,0	55,0	101,0	89	1,306	• •	1	30	
	27021	75	2 3/4"	85,0	3,0	55,0	100,0	89	1,275	• •	1	30	
	27022	75	3 1/2"	91,0	3,0	61,0	100,0	110	1,818	• •	1	30	

COUNTERPART

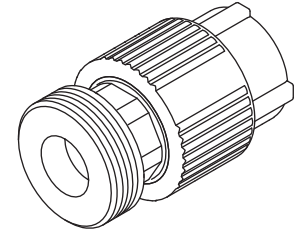
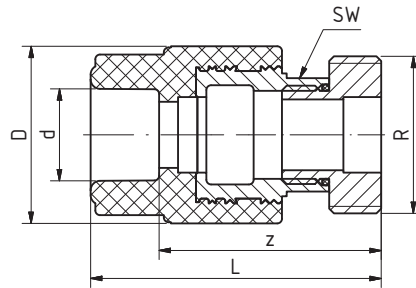
with welding socket and male thread for ISO-standard adapter

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



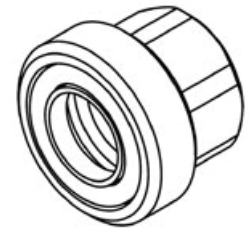
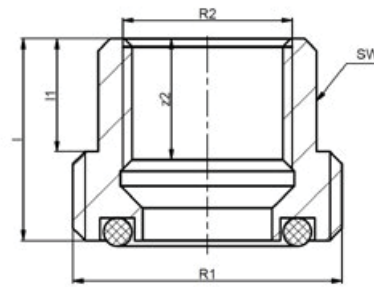
SDR	Art. no.	d [mm]	Thread R	L [mm]	z [mm]	D [mm]	SW [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11	27310	20	1"	61,5	47,0	37,5	24	0,151	• •	10	300	
	27311	25	1"	63,0	47,0	37,5	24	0,153	• •	10	300	
	27312	25	1 1/4"	63,0	47,0	43,5	31	0,221	• •	10	250	
	27313	32	1 1/4"	66,0	48,0	43,5	31	0,226	• •	5	175	
	27314	32	1 1/2"	76,5	58,5	60,0	39	0,408	• •	5	125	
	27315	40	1 1/2"	79,0	58,5	60,0	39	0,414	• •	5	125	
	27316	40	2"	79,0	58,5	74,0	50	0,650	• •	5	70	
	27317	50	2"	82,0	58,5	74,0	50	0,634	• •	5	70	
	27318	50	2 1/4"	83,0	59,5	84,0	55	0,750	• •	5	50	
	27319	63	2 1/4"	89,5	62,0	84,0	55	0,728	• •	1	45	
	27320	63	2 3/4"	95,0	65,5	101,0	67	1,093	• •	1	30	
	27321	75	2 3/4"	95,0	65,0	100,0	67	1,117	• •	1	30	
27322	75	3 1/2"	100,0	70,0	100,0	67	1,436	• •	1	30		

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	400	
	27512	1 1/4"	3/4"	26,0	12,5	14,0	32	0,119	• •	10	200	
	27514	1 1/2"	1"	31,0	15,0	17,0	40	0,175	• •	5	125	
	27516	2"	1 1/4"	33,0	17,0	22,0	47	0,263	• •	5	75	
	27518	2 1/4"	1 1/2"	36,0	20,0	19,0	57	0,333	• •	5	60	
	27520	2 3/4"	2"	42,0	24,0	24,0	68	0,517	• •	1	35	
	27522	3 1/2"	2 1/2"	46,0	24,0	27,0	84	0,801	• •	1	25	
	27524	4"	3"	46,0	27,0	27,0	97	0,943	• •	1	25	

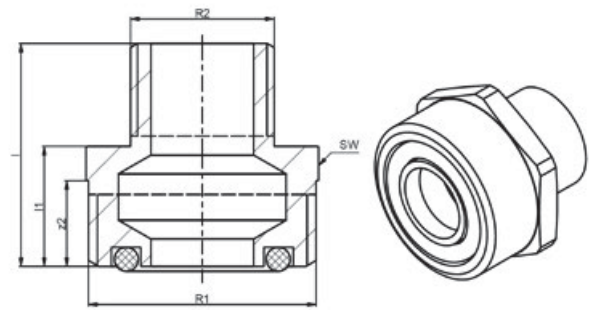
Notice: aquatherm green pipe metal compound fittings are manufactured from fusiolen® PP-R and brass. Metal inserts, without hex shaped spanner flat, with 1/2" and 3/4" f are also available in stainless steel.

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	250	
	27712	1 1/4"	3/4"	38,5	21,0	12,5	42	0,188	• •	10	140	
	27714	1 1/2"	1"	41,5	22,5	13,5	48	0,211	• •	5	100	
	27716	2"	1 1/4"	44,5	22,5	13,0	60	0,363	• •	5	60	
	27718	2 1/4"	1 1/2"	56,0	34,0	16,0	48	0,472	• •	5	50	
	27720	2 3/4"	2"	63,0	38,0	16,0	62	0,803	• •	1	25	
	27722	3 1/2"	2 1/2"	70,0	42,0	22,0	82	1,189	• •	1	15	
	27724	4"	3"	74,0	42,0	22,0	97	1,398	• •	1	10	

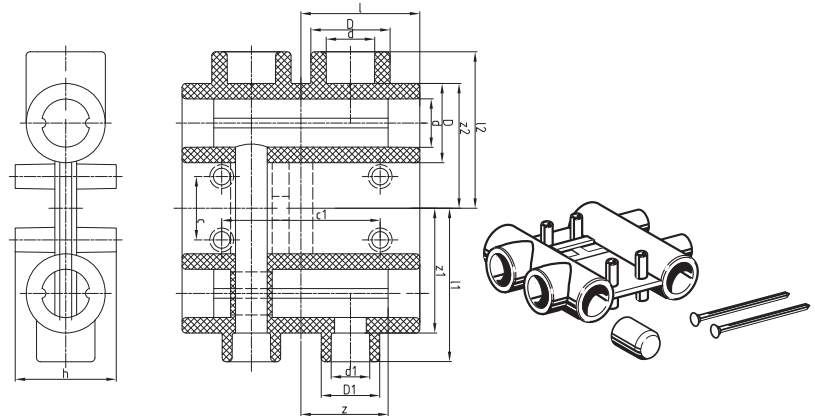
DISTRIBUTION BLOCK PLUMBING

including 1 plug and 2 fastenings

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	50	

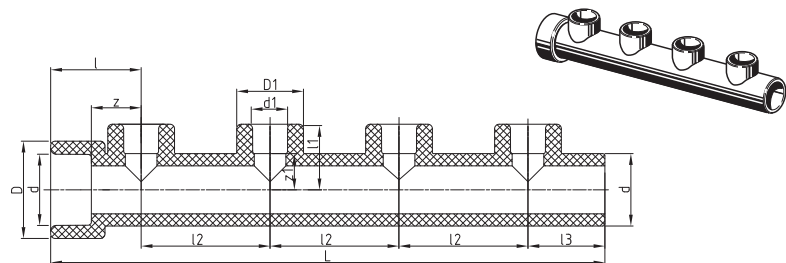
FOUR-PORT MANIFOLD

length: 246 mm, with 4 branches

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R

Colour: green

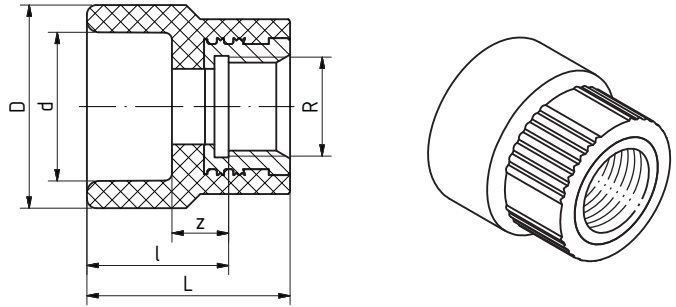


SDR	Art. no.	d [mm]	d1 [mm]	l [mm]	z [mm]	D [mm]	l1 [mm]	z1 [mm]	D1 [mm]	l2 [mm]	l3 [mm]	L [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4	30602	32	16	40	22	43	29	16	29,5	57	36	245	0,148	•	1	100	
9 11	30604	32	20	40	22	43	29	14,5	29,5	57	36	245	0,134	• •	1	100	

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



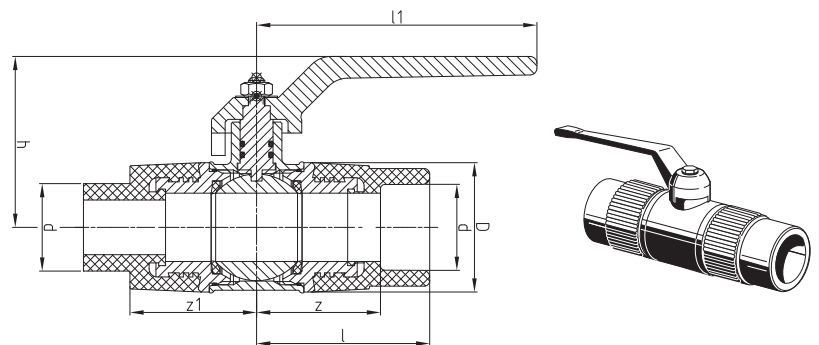
SDR	Art. no.	d [mm]	R	l [mm]	z [mm]	D [mm]	L [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11	30804	32	1/2"	30,0	12,0	43,0	43,0	0,073	• •	1	200	

* 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

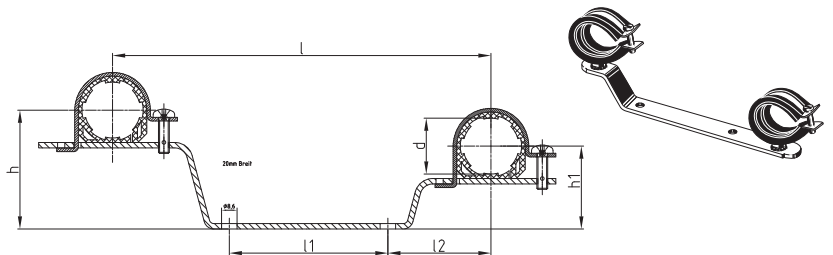


SDR	Art. no.	d [mm]	l [mm]	z [mm]	D [mm]	z1 [mm]	h [mm]	l1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11	78000	32	63,0	45,0	47,5	46,5	78,0	108,0	0,575	• •	2	50	

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	100	

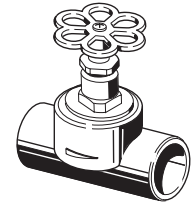
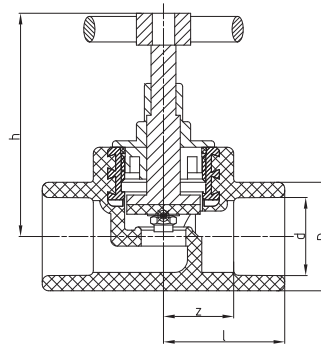
GLOBE VALVE

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	35	

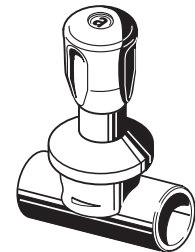
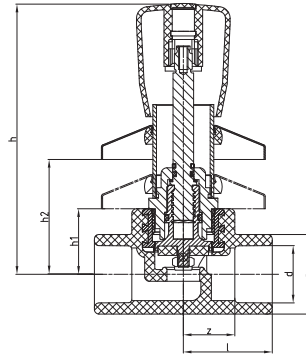
CONCEALED VALVE

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	40	
7.4	40860	25	38,0	22,0	34,0	116,0	28,0	59,0	0,330	• •	1	40	
9	40862	32	49,0	31,0	43,0	121,0	34,0	59,0	0,416	• •	1	30	

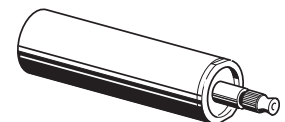
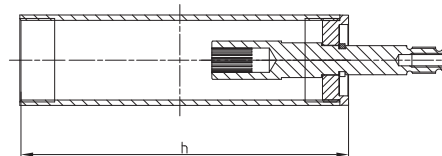
EXTENSION FOR CONCEALED VALVE

chromium-plated for Art. no. 40858 – 40862

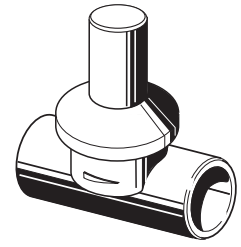
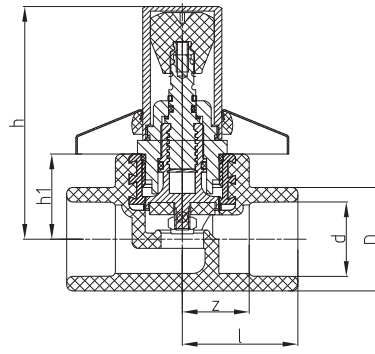
Systems: aquatherm green pipe,
aquatherm blue pipe

Material: brass

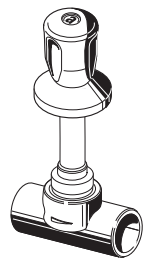
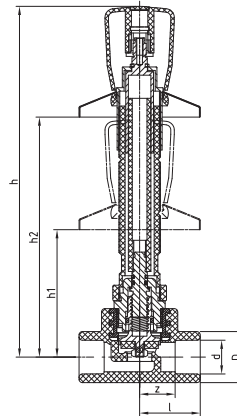
Colour: chrom



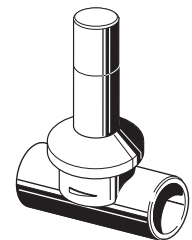
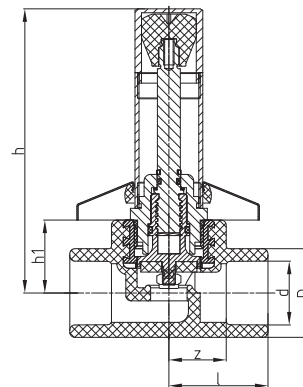
Art. no.	h [mm]	Weight [kg]	System	PU	Box unit	Price € pc
40900	92,0	0,148	• •	1	200	
40902	132,0	0,209	• •	1	200	

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	50	
9												
11	40872	32	49,0	31,0	43,0	82,5	34,0	0,376	• •	1	30	

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

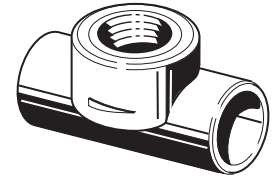
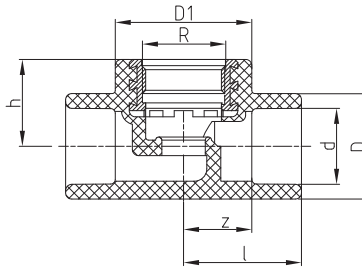
SDR	Art. no.	d [mm]	l [mm]	z [mm]	D [mm]	h [mm]	h1 [mm]	h2 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6	40878	20	35,0	20,5	29,5	213,0	59,0	147,0	0,357	• •	1	40	
7.4	40880	25	38,0	22,0	34,0	213,0	59,0	147,0	0,369	• •	1	40	
9													
11	40882	32	49,0	31,0	43,0	219,0	65,0	153,0	0,455	• •	1	20	

CONCEALED VALVE*tamper proof, chromium-plated***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	50	
7.4	40890	25	38,0	22,0	34,0	109,0	28,0	0,350	• •	1	50	
9												
11	40892	32	49,0	31,0	43,0	115,0	34,0	0,432	• •	1	40	

STOP VALVE BODY

Systems: aquatherm green pipe,
aquatherm blue pipe
Material: fusiolen® PP-R, brass
Colour: green

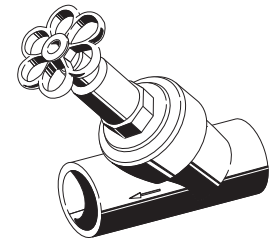
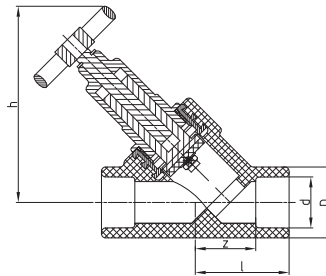


SDR	Art. no.	d [mm]	R	l [mm]	z [mm]	D [mm]	h [mm]	D1 [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6	40908	20	3/4"	35,0	20,0	29,5	28,0	44,0	0,082	• •	1	150	
7.4	40910	25	3/4"	38,0	22,0	34,0	28,0	44,0	0,101	• •	1	150	
9	40912	32	1"	49,0	31,0	43,0	34,0	52,0	0,146	• •	1	100	
11	40914	40	1 1/4"	60,0	39,5	52,0	41,0	69,0	0,313	• •	1	50	

INCLINED VALVE

without drain

Systems: aquatherm green pipe,
aquatherm blue pipe
Material: fusiolen® PP-R, brass
Colour: green

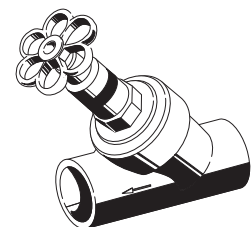
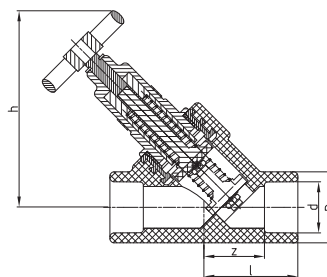


SDR	Art. no.	d [mm]	l [mm]	z [mm]	D [mm]	h [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6	41108	20	45,0	30,5	34,0	95,5	0,294	• •	1	100	
7.4	41110	25	45,0	29,0	34,0	95,5	0,283	• •	1	80	
9	41112	32	56,0	38,0	43,0	111,5	0,421	• •	1	50	
11	41114	40	65,0	44,5	52,0	135,0	0,834	• •	1	25	

NON-RETURN VALVE

without drain

Systems: aquatherm green pipe,
aquatherm blue pipe
Material: fusiolen® PP-R, brass
Colour: green



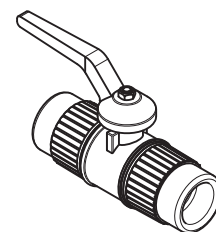
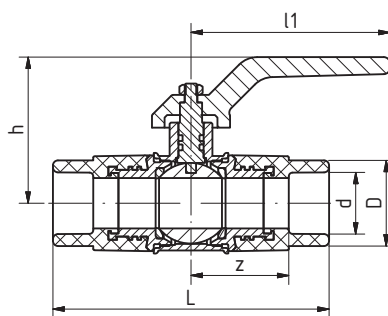
SDR	Art. no.	d [mm]	l [mm]	z [mm]	D [mm]	h [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6	41208	20	45,0	30,5	34,0	95,5	0,297	• •	1	80	
7.4	41210	25	45,0	29,0	34,0	95,5	0,292	• •	1	80	
9	41212	32	56,0	38,0	43,0	111,5	0,432	• •	1	50	
11	41214	40	65,0	44,5	52,0	135,0	0,840	• •	1	25	

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	100	
	41310	25	110,00	39,00	34,00	58,00	79,00	0,375	• •	1	100	
	41312	32	127,00	45,50	43,00	66,00	103,00	0,592	• •	1	60	
	41314	40	145,00	52,00	52,00	71,00	104,00	1,015	• •	1	40	
	41316	50	167,00	60,00	68,00	79,00	140,00	1,689	• •	1	25	
	41318	63	205,00	75,00	84,00	88,00	140,00	2,874	• •	1	15	

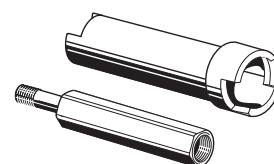
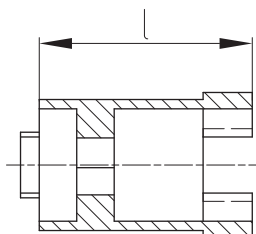
EXTENSION FOR AQUATHERM GREEN PIPE BALL VALVE

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	100	
41382	35,0	41312-41314	0,120	• •	1	100	
41386	46,0	41316-41318	0,273	• •	1	75	

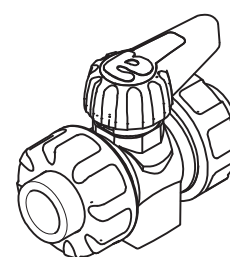
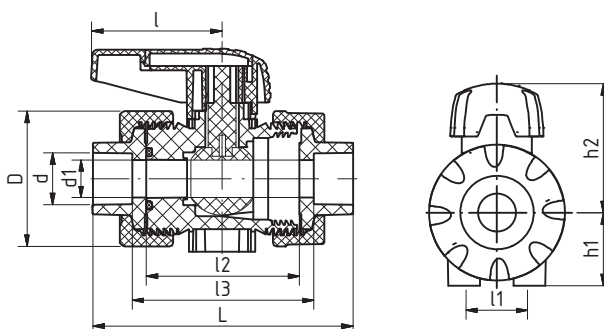
PP-BALL VALVE

with union nut and welding socket

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R

Colour: green

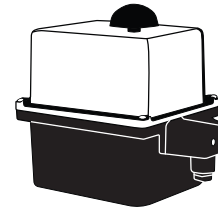


SDR	Art. no.	d [mm]	d1 [mm]	D [mm]	h1 [mm]	h2 [mm]	l1 [mm]	l2 [mm]	l3 [mm]	L [mm]	l [mm]	Weight [kg]	System	PU	Box unit	Price € pc
6 7.4 9 11	41488	20	13,5	50,3	27,0	48,0	25,0	56,5	68,0	97,0	48,0	0,118	• •	1		
	41490	25	18,5	59,0	30,0	56,5	25,0	65,5	78,0	110,0	59,0	0,184	• •	1		
	41492	32	23,9	70,3	40,0	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		

Also suitable for vacuum pipes.

ELECTRICAL DRIVE FOR BALL VALVE ◆

incl. fixtures
For Art. no. 41488 – 41498



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>							
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		
<i>24 Volt</i>							
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		

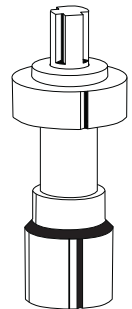
EXTENSION FOR BALL VALVE

For Art. no. 41488 – 41498

Systems: aquatherm green pipe,
aquatherm 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

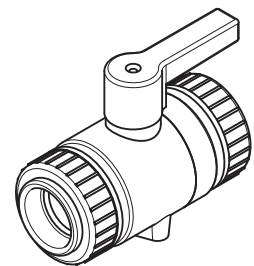
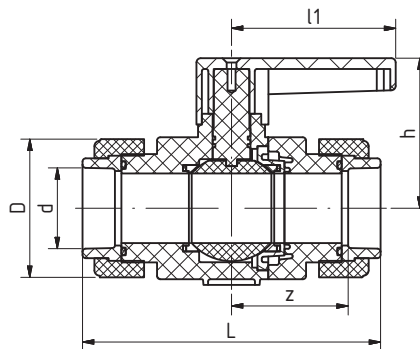
PP-BALL VALVE

with union nut and welding socket

Systems: aquatherm green pipe,
aquatherm 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	10	

Also suitable for vacuum pipes.

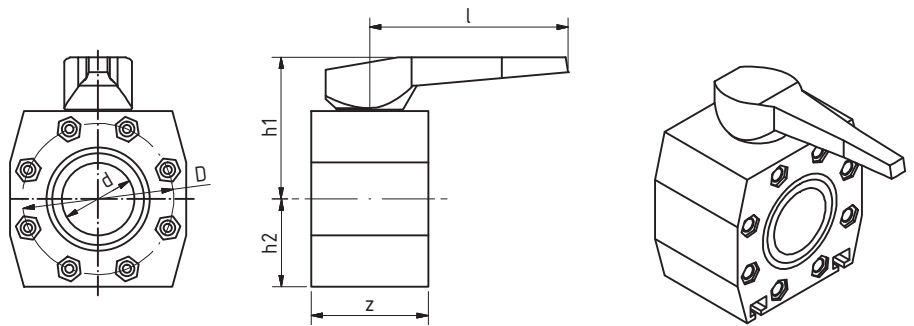
PP-BALL VALVE

with flange connection on both sides

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: fusiolen® PP-R

Colour: green



SDR	Art. no.	for ϕ [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	4	
7.4 9	41604	110	94,0	260,0	145,0	180,0	165,0	103,0	5,612	• •	1	2	
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

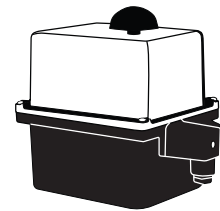
corresponding flat washer M 16

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		

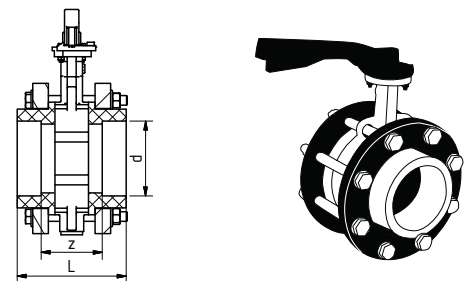
aquatherm blue pipe SHUT-OFF VALVE WITH LEVER ◆

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

Systems: aquatherm blue pipe

Material: fusiolen® PP-R, 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 17.6	2041824	110	89	163	10,400	•	1		
	2041826	125	104	184	15,600	•	1		

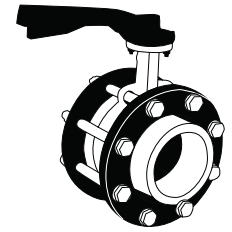
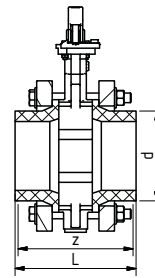
aquatherm blue pipe SHUT-OFF VALVE WITH LEVER

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

Systems: aquatherm blue pipe

Material: fusiolen® PP-R, 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		

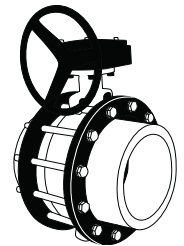
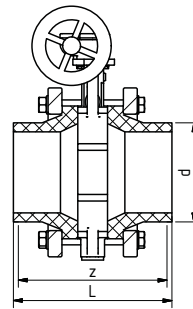
aquatherm blue pipe SHUT-OFF VALVE WITH DRIVE ◆

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

Systems: aquatherm blue pipe

Material: fusiolen® PP-R, 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		

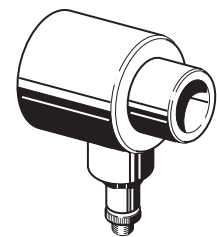
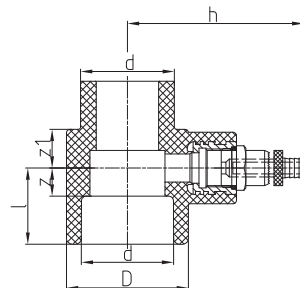
DRAINING BRANCH

to weld in aquatherm green pipe valves

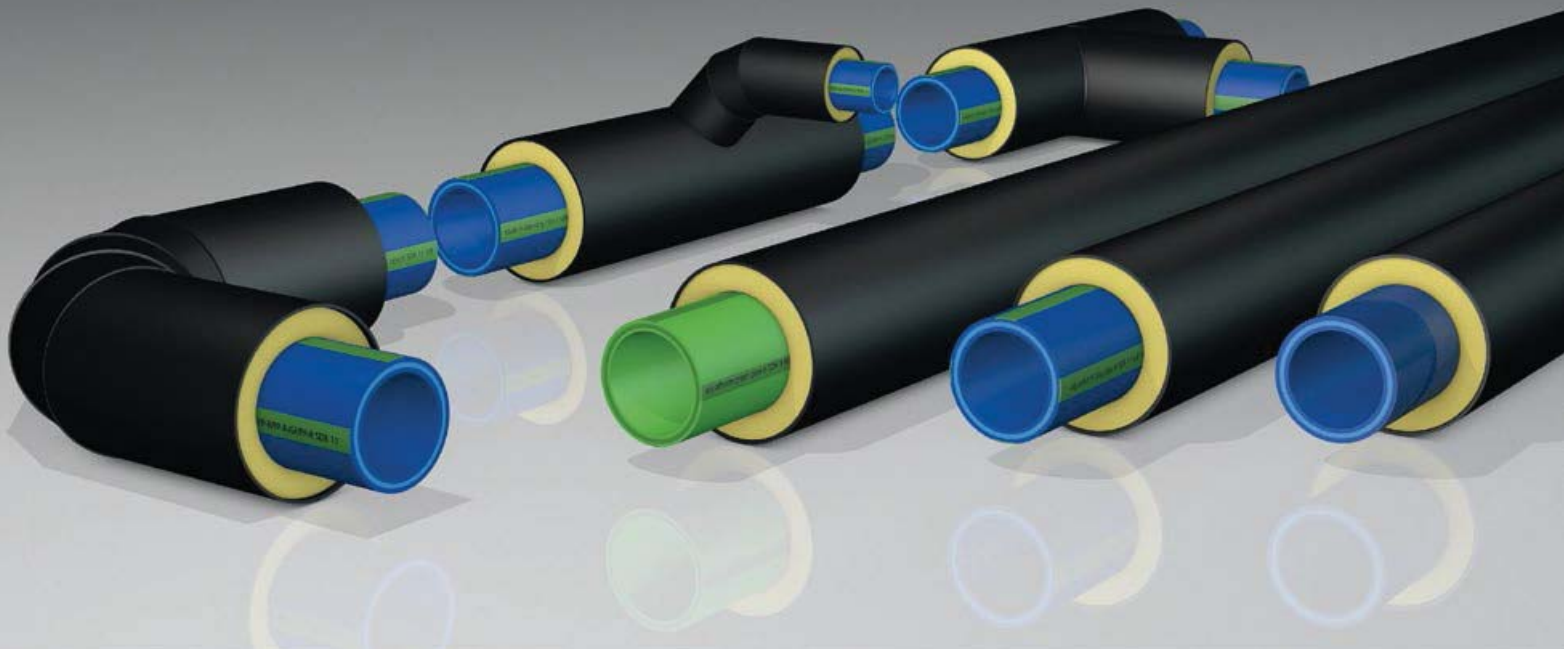
Systems: aquatherm green pipe,
aquatherm blue pipe

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	200	
	41410	25	10,0	26,0	34,0	16,5	71,0	0,096	• •	1	200	
	41412	32	14,0	32,0	43,0	17,0	74,5	0,118	• •	1	150	
	41414	40	12,0	32,5	52,0	16,5	80,5	0,140	• •	1	100	
	41416	50	15,5	39,0	68,0	17,0	88,0	0,202	• •	1	40	
	41418	63	16,5	44,0	84,0	16,5	96,0	0,288	• •	1	25	



aquatherm ti

PRE-INSULATED PIPE SYSTEMS FOR DISTRICT HEATING

One of the most energy-efficient methods of transporting hot potable water as well as heating or cooling water covering long distances is the application of underground piping. To achieve the necessary insulating characteristics for this type of application, aquatherm offers the factory-made pre-insulated aquatherm ti pipe system with different medium pipes.

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 32 – 315 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

faser composite pipe system SDR 7.4/11 in dimensions 32 – 250 mm oxygen-tight pipe system for heating- and industrial water

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 application	●		
Heating system construction	○	●	●
Climate technology	○	●	●
Chilled water technology	○	●	●
Swimming pool technology	●	●	
Rainwater application	●	●	
Irrigation	●	●	
Compressed air systems	○	●	
Geothermal	○	●	○
Industrial liquids <small>considering the material resistance</small>	●	●	●

- 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.

MEDIUMPIPE

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

aquatherm green pipe *faser composite pipe SDR9*

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 with 4 wide green stripes

aquatherm blue pipe ot *faser composite pipe SDR 7.4/SDR11*

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 $\lambda_{\text{PUR}}=0,0275$ 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 $\lambda_{\text{PE80}} = 0,38$ 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 , length á 5.8 m with PUR rigid foam and coated with a casing pipe made of PEHD

Outside diameter		aquatherm green pipe ti SDR 9		aquatherm blue pipe ti SDR 11		aquatherm blue pipe ot ti SDR 11 / *SDR 7.4		aquatherm blue pipe ti SDR 17.6		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	6
40	110	1370713		2270113		2470113				5.8	6
50	110	1370715		2270115		2470115				5.8	6
63	125	1370717		2270117		2470117				5.8	6
75	140	1370719		2270119		2470119				5.8	6
90	160	1370721		2270121		2470121				5.8	6
110	200	1370723		2270123		2470123				5.8	6
125	225	1370725		2270125		2470125		2770125		5.8	6
160	250	1370729		2270129		2470129		2770129		5.8	6
200	315			2270133		2470133		2770133		5.8	6
250	400			2270137		2470137		2770137		5.8	6
315	450			2270141				2770141		5.8	6
355	500			2270143				2770143		5.8	

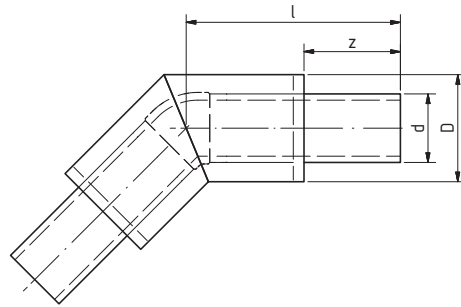
aquatherm green pipe ti SDR 9 in dimensions from 200 mm available on request.

aquatherm ti FASER COMPOSITE PIPES

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

Outside diameter		aquatherm green pipe ti SDR 9		aquatherm blue pipe ti SDR 11		aquatherm blue pipe ot ti SDR 11 / *SDR 7.4		aquatherm blue pipe ti SDR 17.6		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	12
63	125	1370718		2270118		2470118				11.6	
75	140	1370720		2270120		2470120				11.6	
90	160	1370722		2270122		2470122				11.6	12
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	12
315	450			2270142				2770142		11.6	12
355	500			2270144				2770144		11.6	

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



aquatherm ti ELBOW 45° SL 500

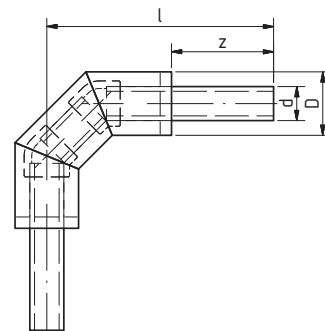
with PUR rigid foam and coated with a casing pipe made of PEHD

Outside diameter				aquatherm green pipe ti SDR 9	aquatherm blue pipe ti SDR 11	aquatherm blue pipe ot ti SDR 11	aquatherm blue pipe ti SDR 17.6	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	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	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	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 available on request.

aquatherm ti



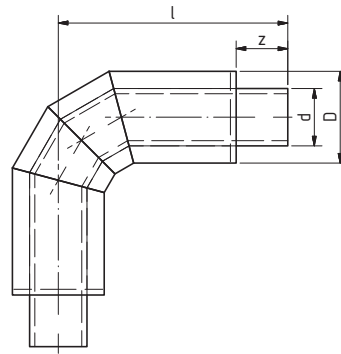
aquatherm ti ELBOW 90° SL 500

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

Outside diameter				aquatherm green pipe ti SDR 9	aquatherm blue pipe ti SDR 11	aquatherm blue pipe ot ti SDR 11	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	20
75	140	225	500	1312220		2212220		2412220		1	

Also available in design 60° and 75°.

aquatherm green pipe ti SDR 9 available on request.



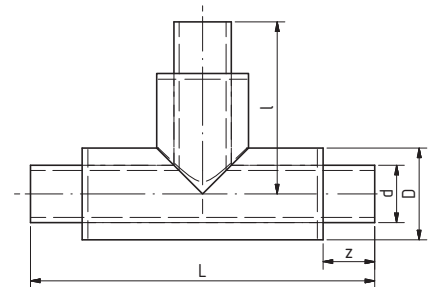
aquatherm ti ELBOW 90° SL 1000

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

Outside diameter				aquatherm green pipe ti SDR 9		aquatherm blue pipe ti SDR 11		aquatherm blue pipe ot ti SDR 11		aquatherm blue pipe ti SDR 17.6		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	1
40	110	225	1000	1312114		2212114		2412114				1	1
50	110	225	1000	1312116		2212116		2412116				1	
63	125	225	1000	1312118		2212118		2412118				1	1
75	140	225	1000	1312120		2212120		2412120				1	6
90	160	225	1000	1312122		2212122		2412122				1	6
110	200	225	1000	1312124		2212124		2412124				1	1
125	225	225	1000	1312126		2212126		2412126		2712126		1	
160	250	225	1000	1312130		2212131		2412131		2712130		1	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 available on request.

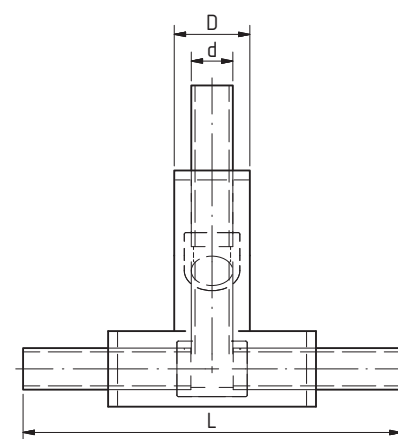
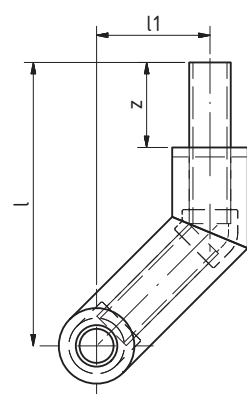
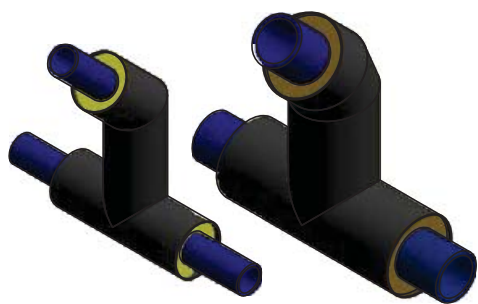


aquatherm ti BRANCH

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

Outside diameter					aquatherm green pipe ti SDR 9		aquatherm blue pipe ti SDR 11		aquatherm blue pipe ot ti SDR 11		aquatherm blue pipe ti SDR 17.6		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	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	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	

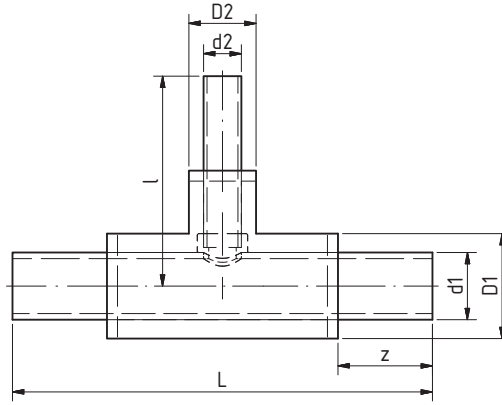
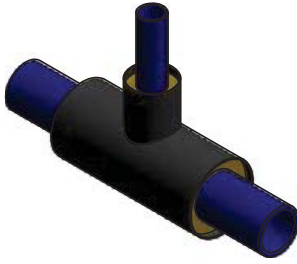
aquatherm green pipe ti SDR 9 in dimensions from 200 mm available on request.



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	aquatherm blue pipe ot ti SDR 11 / *SDR 7.4	aquatherm blue pipe ti SDR 17.6	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	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	

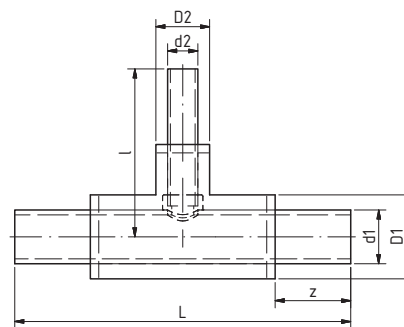


aquatherm ti RED-BRANCH

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

Outside diameter							aquatherm blue pipe ti SDR 11	aquatherm blue pipe ot ti SDR 11 / SDR 7.4	aquatherm blue pipe ti SDR 17.6 / SDR 11	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	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	250	200	225	750	1500	2213303		2413303		2713302**		1	
160	125	250	225	225	750	1500	2213305		2413305		2713304		1	

* Branch d2 SDR 7.4 | ** Branch d2 SDR 11



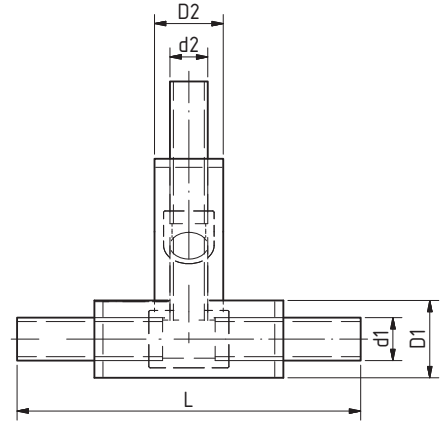
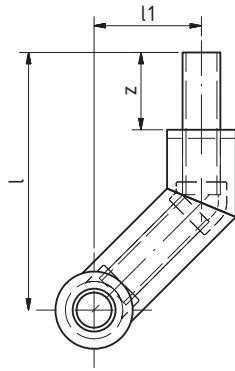
aquatherm ti RED.-BRANCH

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

aquatherm ti

Outside diameter							aquatherm blue pipe ti SDR 11	aquatherm blue pipe ot ti SDR 11 / SDR 7.4	aquatherm blue pipe ti SDR 17.6 / SDR 11	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 7.4 | ** Branch d2 SDR 11



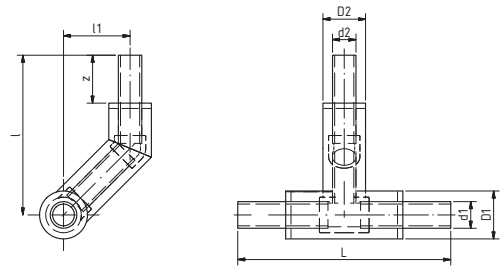
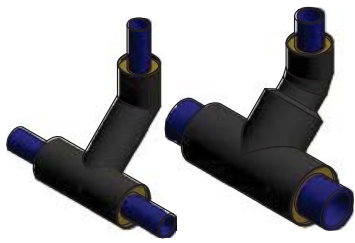
aquatherm ti RED. CROSS-OVER BRANCH

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

Outside diameter								aquatherm blue pipe ti SDR 11	aquatherm blue pipe ot ti SDR 11 / SDR 7.4	aquatherm blue pipe ti SDR 17.6 / SDR 11	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 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 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 7.4 | ** Branch d2 SDR 11

aquatherm ti



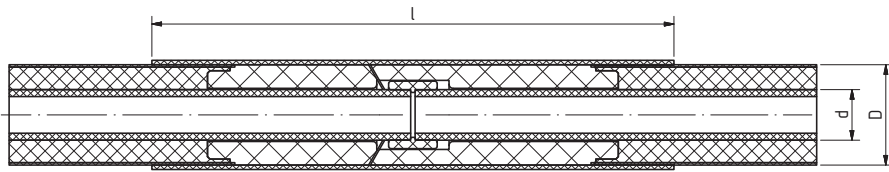
aquatherm ti RED. CROSS-OVER BRANCH

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

aquatherm ti

Outside diameter								aquatherm blue pipe ti SDR 11	aquatherm blue pipe ot ti SDR 11 / SDR 7.4	aquatherm blue pipe ti SDR 17.6 / SDR 11	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

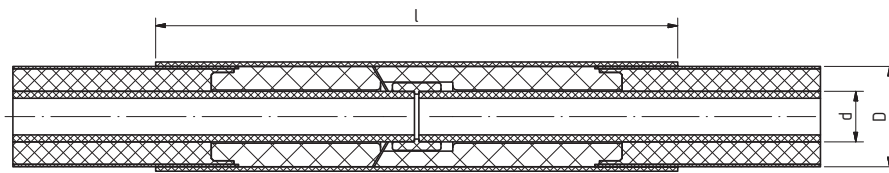
* Branch d2 SDR 7.4 | ** Branch d2 SDR 11



aquatherm ti SOCKET PLA

Shrink sleeve ready for use, including locking tie with PUR rigid foam elements and accessories for later coating of welded joints
Colour: black, standard width: 650 mm.

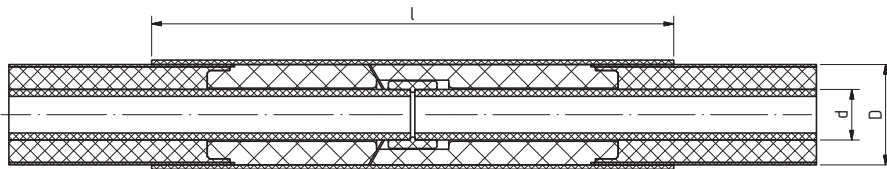
Outside diameter			aquatherm ti			
Medium pipe d [mm]	Casing pipe D [mm]	l [mm]	Art. no.	PU	Box unit	Price € pc
<i>Socket welding: the fitting for the connection of the medium pipes is included in delivery.</i>						
32	90	650	2211012	1		
40	110	650	2211014	1		
50	110	650	2211016	1		
63	125	650	2211018	1		
75	140	650	2211020	1		
90	160	650	2211022	1		
110	200	650	2211024	1		
125	225	650	2211026	1		
<i>Butt welding: no fitting is required for the connection of the medium pipes</i>						
160	250	650	2211030	1		
200	315	650	2211034	1		
250	400	650	2211038	1		



aquatherm ti SOCKET CSC-X

consists of shrink sleeve with PUR-rigid foam insulation elements and accessories, 750 mm total lengths
Without hot-melt adhesive. Melting adhesive strips and casing melting film (enclosed) have to be applied in a separate step.

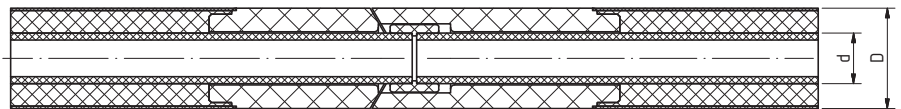
Outside diameter			aquatherm ti			
Medium pipe d [mm]	Casing pipe D [mm]	l [mm]	Art. no.	PU	Box unit	Price € pc
<i>Socket welding: the fitting for the connection of the medium pipes is included in delivery.</i>						
32	90	750	1211012	1	1	
40	110	750	1211014	1	1	
50	110	750	1211016	1	1	
63	125	750	1211018	1	20	
75	140	750	1211020	1	1	
90	160	750	1211022	1	16	
110	200	750	1211024	1	10	
125	225	750	1211026	1	1	
<i>Butt welding: no fitting is required for the connection of the medium pipes</i>						
160	250	750	1211030	1	1	
200	315	750	1211034	1	6	
250	400	750	1211038	1	4	
315	450	750	1211042	1		
355	500	750	1211044	1		



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.

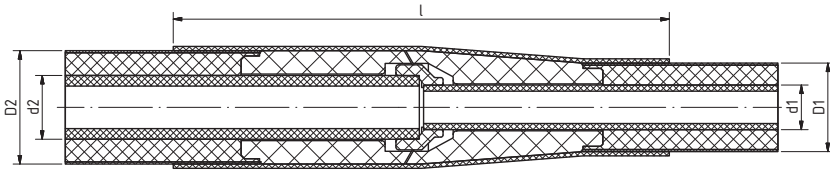
Outside diameter		aquatherm ti				
Medium pipe d [mm]	Casing pipe D [mm]	l [mm]	Art. no.	PU	Box unit	Price € pc
<i>Socket welding: the fitting for the connection of the medium pipes is included in delivery.</i>						
32	90	600	2211011	1		
40	110	600	2211013	1		
50	110	600	2211015	1		
63	125	600	2211017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



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. 91)

Outside diameter		aquatherm ti				
Medium pipe d [mm]	Casing pipe D [mm]	Art. no.	PU	Box unit	Price € pc	
<i>Socket welding: the fitting for the connection of the medium pipes is included in delivery.</i>						
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			
<i>Butt welding: no fitting is required for the connection of the medium pipes</i>						
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

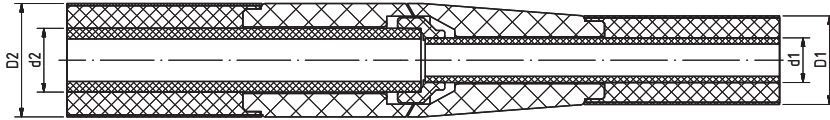
Outside diameter					aquatherm green pipe ti		PU	Box unit
d2 Medium pipe [mm]	d1 Medium pipe [mm]	D1 Casing pipe [mm]	D2 Casing pipe [mm]	l [mm]	Art. no.	Price € pc		
40	32	90	110	900	1211222		1	
50	32	90	110	900	1211228		1	
50	40	110	110	900	1211230		1	
63	40	110	125	900	1211236		1	
63	50	110	125	900	1211238		1	
75	50	110	140	900	1211240		1	
75	63	125	140	900	1211242		1	15
90	63	125	160	900	1211252		1	15
90	75	140	160	900	1211253		1	15
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	
355	250	400	500	900	1311304		2211305		2711304		1	
355	315	450	500	900	1311306		2211307		2711306		1	



aquatherm ti INSULATION-REDUCING SOCKET-SET

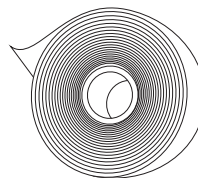
consists of PUR-rigid foam elements and fitting. Required accessories: Mono Top 40 insulating tape and primer

Outside diameter				aquatherm ti		PU	Box unit		
d2 [mm]	d1 [mm]	D1 [mm]	D2 [mm]	Art. no.	Price € pc				
<i>Socket welding: up to 125 x 110 mm, than one-sided socket- and one-sided butt welding</i>									
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

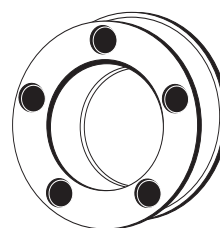
Outside diameter		aquatherm ti			
Medium pipe [mm]	Casing pipe [mm]	Art. no.	PU	Box unit	Price € pc
32	90	1214112	1	6	
40 – 50	110	1214114	1	4	
63 – 75	125 – 140	1214118	1	2	
90	160	1214122	1	5	
110	200	1214124	1	6	
125	225	1214126	1	5	
160	250	1214130	1	4	
200	315	1214134	1	4	
250	400	1214138	1	2	
315/355	450/500	1214142	1	1	



aquatherm ti COMPACT SEALS

Pipe collar for wall duct.

Outside diameter			aquatherm ti			
Core drill hole [mm]	Medium pipe [mm]	Casing pipe [mm]	Art. no.	PU	Box unit	Price € pc
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		

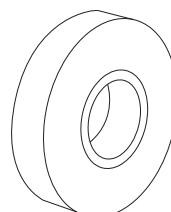


aquatherm ti WARNING TAPE

Art. no.	Width [mm]	PU	Box unit	Price € pc
50191	40	250 m	18	

Colour: yellow

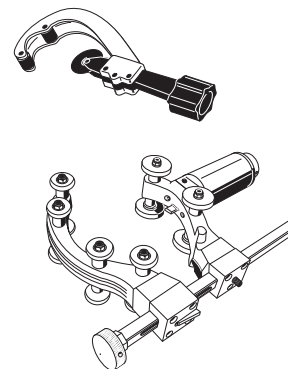
Printing in black: "Attention district heating pipeline"



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.

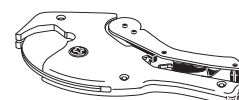
PIPE CUTTER

Art. no.	for pipe dimensions	PU	Box unit	Price € pc
50102	16-40mm	1	34	
50105	50-125mm	1	1	
50106	63-200mm	1	1	



PIPE CUTTER

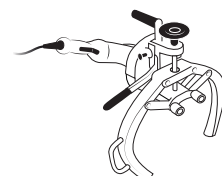
Art. no.	for pipe dimensions	PU	Box unit	Price € pc
50104	16-40mm	1		



ORBITAL CIRCULAR SAW

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

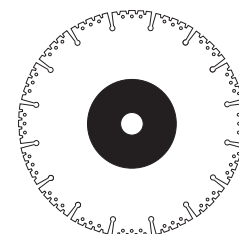
This orbital circular saw can be ordered directly from Rothenberger with Art. no. 55620 (www.rothenberger.com).
High-performance orbital circular saw for fast, precise, perfectly aligned and right-angled cutting of plastic pipes 160 – 355 mm at the building site or in the workshop.



CUTTING DISC FOR PLASTIC

Art. no.	Dimension	borehole	PU	Box unit	Price € pc
50107	ø 125mm	22,2 mm	1	30	
50109	ø 230mm	22,2 mm	1	10	

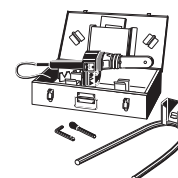
Application: for each angle grinder
Design: diamant galvanized cutting disc



MANUAL WELDING DEVICE (500 W)

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

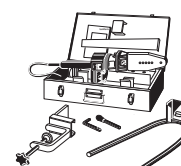
for one tool, with base and case for tools
Also available: 110 V (Art. no. 450336)



MANUAL WELDING DEVICE (800 W)

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

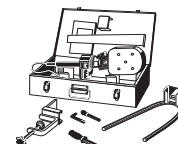
Also available: 110 V (Art. no. 450337)



MANUAL WELDING DEVICE (1400 W)

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

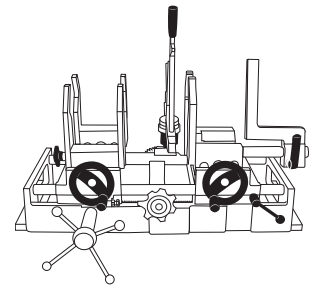
Also available: 110 V (Art. no. 450341)



WELDING MACHINE (1400 W)

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

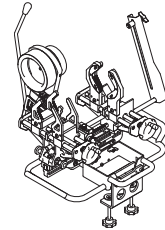
including welding tools 50 – 125 mm, roll stand and wooden transport case
Also available: 110 V (Art. no. 450148)



WELDING MACHINE (1400 W) LIGHT

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

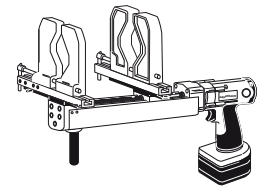
including manual welding device (1400 W) and wooden transport case
Also available: 110 V (Art. no. 450145)



ELECTRIC WELDING JIG

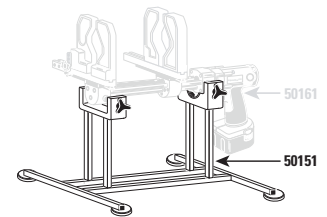
Art. no.	for pipe dimensions	Weight [kg]	PU	Box unit	Price € pc
50161	63-125mm	24,000	1		

including standby accumulator, charging station and metal case
Also available: 110 V (Art. no. 450159)



BASE FOR ART. NO. 50159

Art. no.	Dimension	PU	Box unit	Price € pc
50151		1	3	



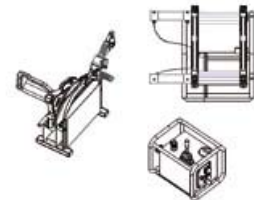
BUTT-WELDING MACHINE-TWO-RING-MACHINE WIDOS

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)



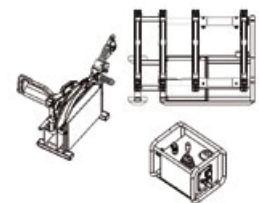
BUTT WELDING MACHINE WIDOS

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)

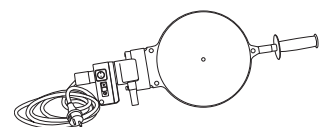
* Also available in design with 110 volt (Art. no. 450352 = ø 160 – 250 mm / 450353 = ø 160 – 315 mm / 450354 = ø 160 – 355 mm / 450355 = ø 200 – 450 mm)

** special voltage on demand



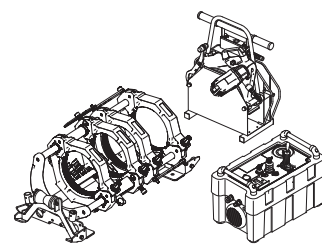
MANUAL WELDING DEVICE (1500 W) FOR SADDLE WELDING Ø 50 – 160 MM

Art. no.	for pipe dimensions	PU	Box unit	Price € pc
50330	ø 50-160mm	1	2	



BUTT WELDING MACHINE RITMO

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



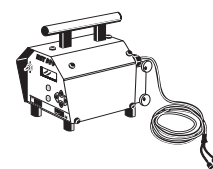
including wooden transport box. The butt welding machine can be obtained directly from Ritmo (www.ritmo.it)

* 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	1	

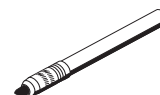


For processing with electro-fusion-sockets Art. no. 17208 – 17238.

Special calibration-tools – obtainable on request – are required

TEMPERATURE PENCIL

Art. no.	Dimension	PU	Box unit	Price € pc
50190		1	140	



to check the correct welding temperature

SURFACE THERMOMETER

Art. no.	Dimension	PU	Box unit	Price € pc
50188		1	10	



to check the correct welding temperature

TEMPERATURE PREDECTIVE GLOVE

for tool change

Art. no.	Dimension	PU	Box unit	Price € pc
50195		2	15	



CLEANING WIPES

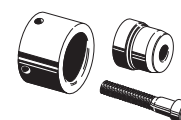
Art. no.	Dimension	PU	Box unit	Price € pc
50193	Box/100 towels	1	20	



for electrofusion sockets

WELDING TOOLS

Art. no.	Dimension [mm]	PU	Box unit	Price € pc
50206	16	1	3	
50208	20	1	3	
50210	25	1	100	
50212	32	1	80	
50214	40	1	50	
50216	50	1	40	
50218	63	1	25	
50220	75	1	20	
50222	90	1	15	
50224	110	1	10	
50226	125	1	6	



REPAIR SET

Art. no.	Dimension	PU	Box unit	Price € pc
50307	7mm	1	50	
50311	11mm	1	50	

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	2500	



aquatherm UNIVERSAL PEELING TOOLS

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

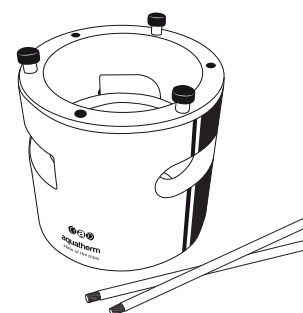


Required for the socket welding

(in combination with socket welding fittings from page 25 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		



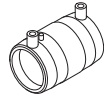
incl. bolts
for manual peeling

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

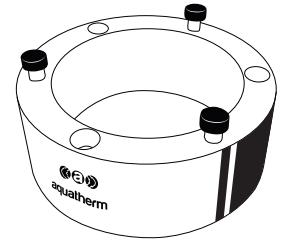
S = single, **MF** = multilayer fibre, **OT** = oxygen tight, **UV** = ultraviolet protected, **TI** = thermal insulation, **RP** = raised pressure

aquatherm EXTENSION FOR UNIVERSAL PEELING TOOL

Required for the electrofusion socket welding (aquatherm electrofusion sockets on page 53)



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)

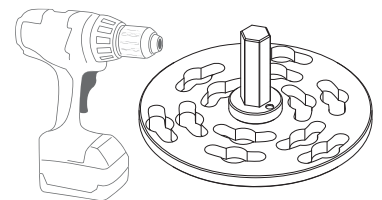


Art. no.	Dimension	PU	Box unit	Price € pc
50489	for peeling tool 20 mm Art. no. 50479	1		
50490	for peeling tool 25 mm Art. no. 50480	1		
50491	for peeling tool 32 mm Art. no. 50481	1		
50492	for peeling tool 40 mm Art. no. 50482	1		
50493	for peeling tool 50 mm Art. no. 50483	1		
50494	for peeling tool 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:

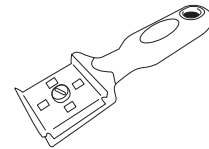
- 1 x case
- Each 1x 50485 – 50488 peeling tool 75 – 125 mm
- 1x 50500 attachment plate for universal peeling tool 50485 – 50488
- 1x 50503 1 toggle-set
- 1x 50504 torx wrench
- 1x 50505 hexagon Allen key size 4
- 6x 99794 6 fixing screws for Art. no. 50495 – 50498 M5x35



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.



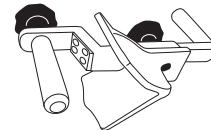
SPARE BLADE SET FOR ART. NO. 50509

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

CHAMFERING TOOL FOR aquatherm blue pipe OT UND UV PIPES

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

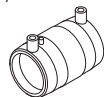
For removal of oxid coating before butt-welding.



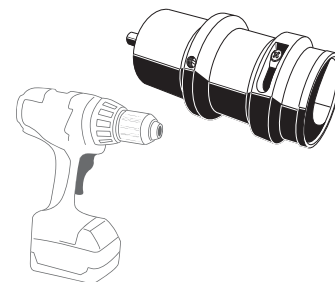
aquatherm PEELING TOOLS FOR ELECTROFUSION SOCKET WELDING (ART. NO.17208 – 17238)

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

Required to remove the **oxid coating**
(aquatherm electrofusion sockets on page 53)



Art. no.	Dimension [mm]	PU	Box unit	Price € pc
<i>In combination with a drilling machine</i>				
50558	20	1	30	
50560	25	1	20	
50562	32	1	15	
50564	40	1	14	
50566	50	1	8	
50568	63	1	4	
50570	75	1	3	
50572	90	1	2	



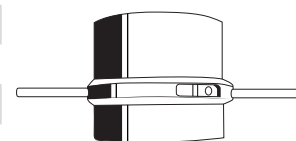
Art. no. 50558 – 50572

In combination with a drilling machine (not included!)

50440	spare blade	1	1	
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For manual peeling

50574	110	1	1	
50576	125	1	1	
50580	160	1	5	



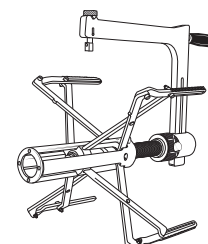
Art. no. 50574 – 50580

50441	spare blade	1		
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For manual peeling

50592	200 + 250	1	1	
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99739	spare blade	1		
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Art. no. 50592

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

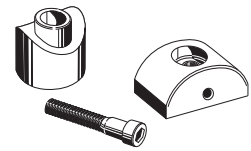
S = single, **MF** = multilayer fibre, **OT** = oxygen tight, **UV** = ultraviolet protected, **TI** = thermal insulation, **RP** = raised pressure

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

SADDLE WELDING TOOLS

for welding saddles

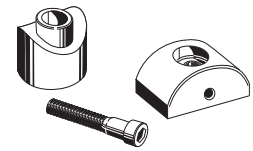
Art. no.	Dimension	PU	Box unit	Price € pc
50614	40x20/25mm	1	40	
50616	50x20/25mm	1	35	
50619	63x20/25mm	1	35	
50620	63x32mm	1	35	
50623	75x20/25mm	1	30	
50624	75x32mm	1	30	
50625	75x40mm	1	20	
50627	90x20/25mm	1	30	
50628	90x32mm	1	30	
50629	90x40mm	1	20	
50631	110x20/25mm	1	30	
50632	110x32mm	1	30	
50634	110x40mm	1	20	
50635	110x50mm	1	12	
50636	125x20/25mm	1	30	
50638	125x32mm	1	30	
50640	125x40mm	1	20	
50642	125x50mm	1	12	
50644	125x63mm	1	6	
50648	160x20/25mm	1	20	
50650	160x32mm	1	20	
50652	160x40mm	1	15	
50654	160x50mm	1	10	
50656	160x63mm	1	8	
50657	160x75mm	1	6	
50658	160x90mm	1	4	
50660	200x20/25mm	1	35	
50662	200x32mm	1	35	
50664	200x40mm	1	20	
50666	200x50mm	1	12	
50667	200x75mm	1	6	
50668	200x63mm	1	8	
50669	200x90mm	1	4	
50670	200x110mm	1	2	
50671	200x125mm	1	1	
50672	250x20/25mm	1	35	
50674	250x32mm	1	35	
50676	250x40mm	1	20	
50678	250x50mm	1	12	
50680	250x63mm	1	8	
50682	250x75mm	1	6	



SADDLE WELDING TOOLS

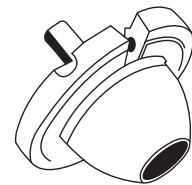
for welding saddles

Art. no.	Dimension	PU	Box unit	Price € pc
50684	250x90mm	1	4	
50686	250x110mm	1	2	
50688	250x125mm	1	1	
50690	315x63mm	1	10	
50692	315x75mm	1	5	
50694	315x90mm	1	3	
50696	315x110mm	1	2	
50698	315x125mm	1	1	
50699	315x160mm	1	2	
50712	355x63mm	1	75	
50714	355x75mm	1	1000	
50716	355x90mm	1	700	
50718	355x110mm	1	5	
50720	355x125mm	1	3	
50722	355x160mm	1	2	
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		



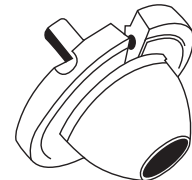
SADDLE PEELING TOOLS FOR OT UND UV PIPES Ø 50 – 125 mm

Art. no.	Dimension	PU	Box unit	Price € pc
50921	for welding saddles 20 & 25 mm	1	25	
50922	for ø 32 mm	1	25	
50924	for ø 40 mm	1	20	
50926	for ø 50 mm	1	15	
50928	for ø 63 mm	1	10	



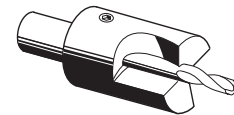
SADDLE PEELING TOOLS FOR OT UND UV PIPES Ø 160 – 250 mm

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

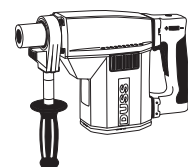
Art. no.	Dimension	PU	Box unit	Price € m/pc
50940	20&25mm (40-160mm)	1	50	
50941	20&25mm (63-250mm)	1	50	
50942	32mm	1	45	
50944	40mm	1	40	
50946*	50mm	1	25	
50948*	63mm	1	15	



* may only be used in fixed drilling machines!

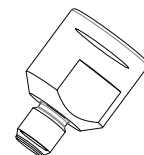
DRILL DUSS DIA303

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		



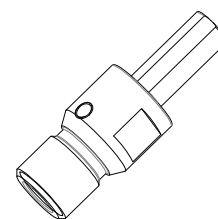
KEYLESS CHUCK clamping range 1,5 – 13mm

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



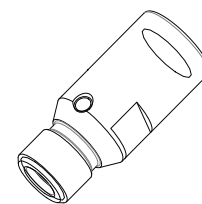
HOLE SAW HOLDER LSA3

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		



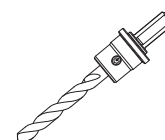
SADDLE-HOLE SAW FOR BRANCH *for assembly of weld-in saddles*

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		



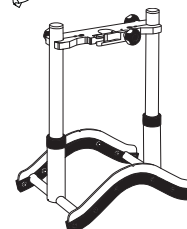
CENTER DRILL LSZ 1

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



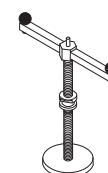
DRILL RIG FOR DUSS-DRILL

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

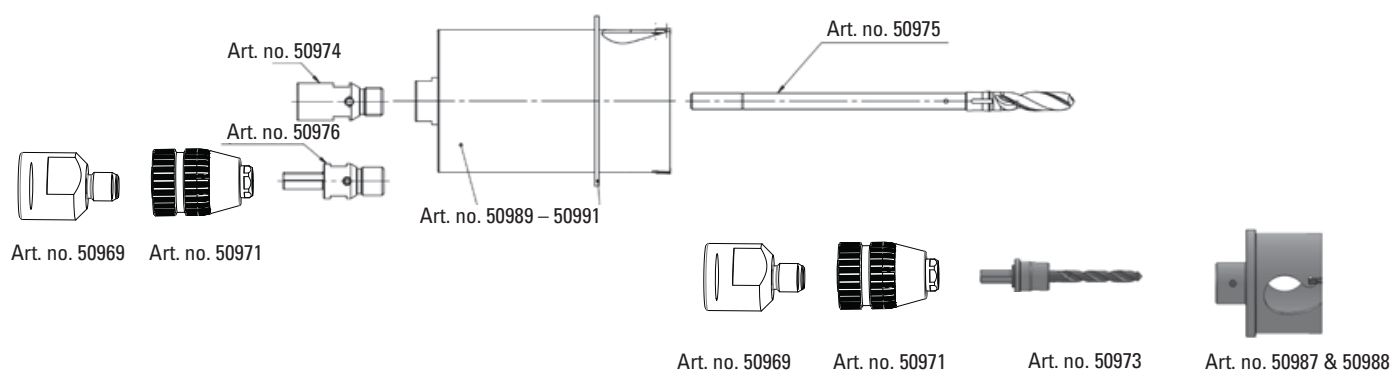


WELDING FIXTURE FOR DRILL RIG 50977

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**.

HOT TAPPING TOOL

for weld-on saddle set with ball valve

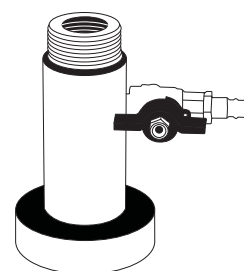
Art. no.	Dimension	PU	Box unit	Price € pc
50890	for dimension 40 + 63mm	1		



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

for installation under pressure

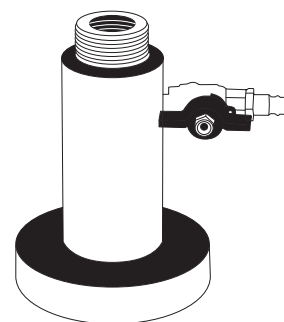
Art. no.	Dimension [mm]	PU	Box unit	Price € pc
50891	40	1		



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		

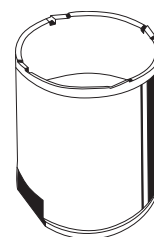


PP-MILLING CUTTER FOR WELD-ON SADDLE SET WITH BALL VALVE 40 MM

for installation under pressure

for Art. no. 50891

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

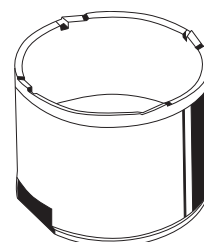


PP-MILLING CUTTER FOR WELD-ON SADDLE SET WITH BALL VALVE 63 MM

for installation under pressure

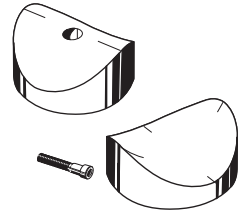
for Art. no. 50892

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



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		

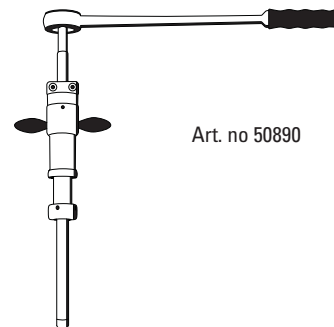
HOT TAPPING TOOL

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. 102)	Art. no. 16175 – 16300



Art. no 50890

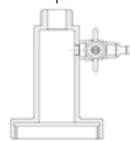
Art. no 50893



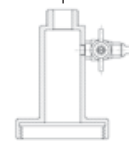
Art. no 50894



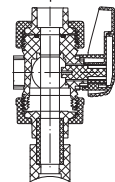
Art. no 50891



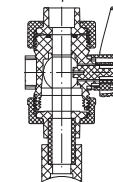
Art. no 50892



Art. no
16175
16181
16188
16196
16212
16231
16251

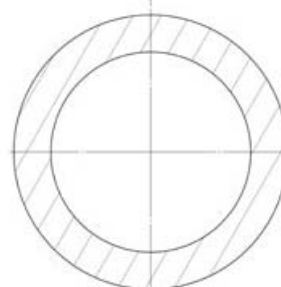


Art. no
16198
16216
16233
16253
16260
16300



In combination with
weld-on saddle tool

Art. no
50760
50761
50762
50763
50765
50767
50769



In combination with
weld-on saddle tool

Art. no
50764
50766
50768
50770
50771
50772
50773

WELDING PROCESS TOOLS AND EQUIPMENT

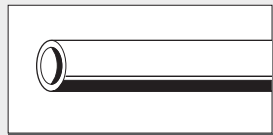
for pipes with additional outer layer/protection layer

aquatherm green pipe SDR 7.4/9 MF UV

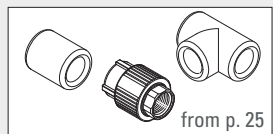
aquatherm blue pipe SDR 7.4/11/17.6 MF UV & SDR 7.4/11 MF OT

PIPES & FITTINGS CUTTING PEELING DRILLING SADDLE PEELING / CHAMFERING

1. SOCKET WELDING 16 – 125 mm

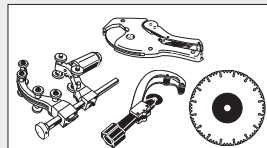


Pipes specified above



Socket welding fittings

from p. 25



Pipe cutter p.92,118

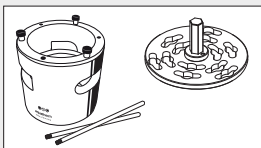
50104 \varnothing 16 – 40 mm

Pipe cutter p. 92

50102/50105/50106 \varnothing 16 – 200 mm

Cutting disc p. 92

50107 \varnothing 125 mm/50109 \varnothing 230 mm



Universal peeling tool p. 95

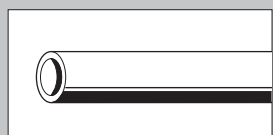
50479 – 50488

20 – 125 mm (16 mm on request)

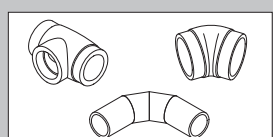
+ (opt.) Attachment plate* p. 96

50499/50500

2. BUTT WELDING 160 – 630 mm

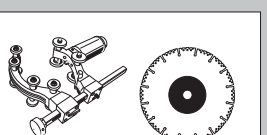


Pipes specified above



Butt welding fittings

from p. 29



Pipe cutter p. 92

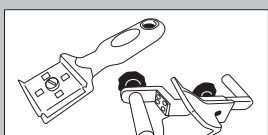
50106 \varnothing 110 – 200 mm

Orbital circular saw p. 92

50108 \varnothing 160 – 355 mm

Cutting disc p. 92

50107 \varnothing 125 mm/50109 \varnothing 230 mm



Scraper/Chamfering tool for OT pipes p. 97

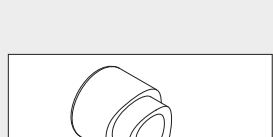
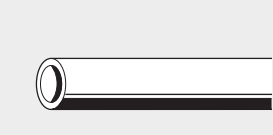
50509

99909

Cutter for UV-pipes

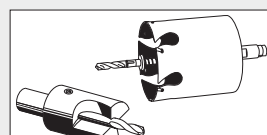
not available with aquatherm!

3. SADDLE WELDING 20 – 160 mm



Weld-in saddles

from p. 43



for OT pipes

p. 100

Saddle welding tools *

50921 – 50928 for \varnothing 50 – 125 mm

50421 – 50428 for \varnothing 160 – 250 mm

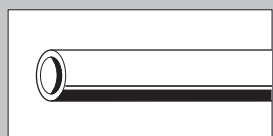
Drill p. 100

50940 – 50948 50987 – 50991

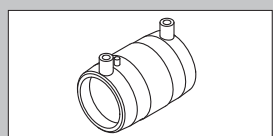
20 – 63 mm 75 – 315mm

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

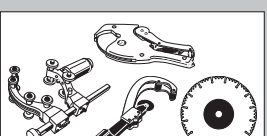
4. ELECTROFUSION SOCKET WELDING 20 – 125 mm



Pipes specified above



Electrofusion sockets p. 53



Pipe cutter p. 92,118

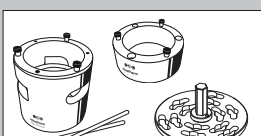
50104 \varnothing 16 – 40 mm

Pipe cutter p. 92

50102/50105/50106 \varnothing 16 – 200 mm

Cutting disc p. 92

50107 \varnothing 125mm/50109 \varnothing 230mm



Universal peeling tool p. 95

50479 – 50488 for \varnothing 20 – 125 mm

+ Extension p. 96

50489 – 50498

+ (opt.) Attachment plate* p. 96

50499/50500

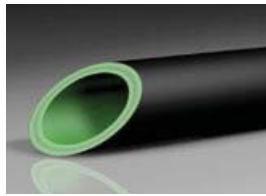
PIPES & FITTINGS

CUTTING

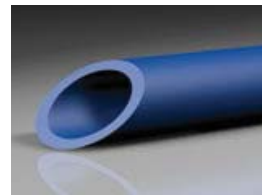
PEELING

DRILLING

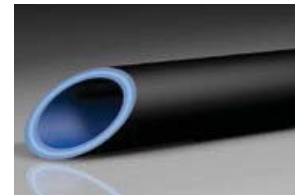
SADDLE PEELING / CHAMFERING



aquaTherm green pipe
SDR 7.4/9 MF UV
Page 17



aquaTherm blue pipe
SDR 7.4/11 MF OT
Page 23



aquaTherm blue pipe
SDR 7.4/11/17.6 MF UV
Page 22

CLEANING

MEASUREMENT
OF TEMPERATURE

WELDING TOOLS

MANUAL WELDING DEVICES OR

WELDING MACHINES



Cleaning wipes p. 94
50193



Surface thermometer p. 94

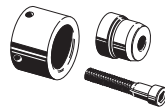
50188

OR



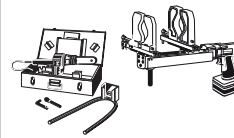
Temperature pencil p. 94

50190



Welding tools p. 94

50206 – 50226



Manual welding device p. 92

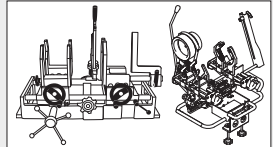
50336 \varnothing 16 – 32 mm

50337 \varnothing 16 – 63 mm

50341 \varnothing 50 – 125 mm

(opt.) Electric welding jig p. 93

50161 for \varnothing 63 – 125 mm



Welding machine p. 93

50148 for \varnothing 50 – 125 mm

Welding machine Light p. 93

50145 for \varnothing 63 – 125 mm



Cleaning wipes p. 94
50193



Surface thermometer p. 94

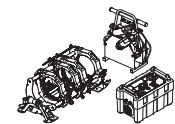
50188

OR



Temperature pencil p. 94

50190



Butt-welding
two-ring machine p. 93

50350 – 50351 \varnothing 160 – 315 mm

Butt welding machine
p. 93 / 94

50352 – 50357 \varnothing 160 – 630 mm

50165 – 50177 \varnothing 160 – 630 mm



Cleaning wipes p. 94
50193



Surface thermometer p. 94

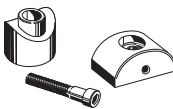
50188

OR



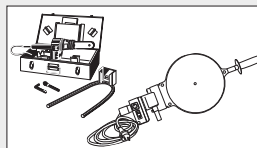
Temperature pencil p. 94

50190



Saddle welding tools p. 98

50614 – 50746



Manual welding device p. 92

50336 \varnothing 16 – 32 mm

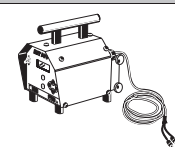
50337 \varnothing 16 – 63 mm

50341 \varnothing 50 – 125 mm

50330 \varnothing 50 – 160 mm



Cleaning wipes p. 94
50193



Electrofusion device p. 94

50175 \varnothing 20 – 250 mm

CLEANING

MEASUREMENT
OF TEMPERATURE

WELDING TOOLS

MANUAL WELDING DEVICES OR

WELDING MACHINES

WELDING PROCESS TOOLS AND EQUIPMENT

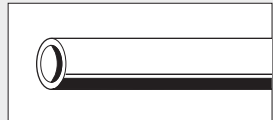
for pipes without additional outer layer/protection layer

aquatherm green pipe SDR 6/7.4/11 S & SDR 7.4 MF & SDR 9 MF RP

aquatherm blue pipe SDR 11 S & SDR 7.4/11/17.6 MF

PIPES & FITTINGS CUTTING PEELING DRILLING SADDLE PEELING / CHAMFERING

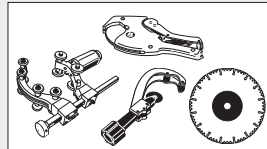
1. SOCKET WELDING 16 – 125 mm



Pipes specified above



Socket welding fittings



Pipe cutter p.92,118

50104 \varnothing 16 – 40 mm

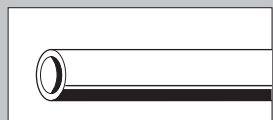
Pipe cutter p. 92

50102/50105/50106 \varnothing 16 – 200 mm

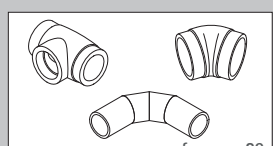
Cutting disc p. 92

50107 \varnothing 125 mm/50109 \varnothing 230 mm

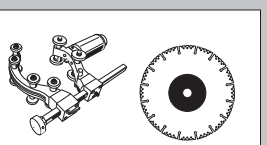
2. BUTT WELDING 160 – 630 mm



Pipes specified above



Butt welding fittings



Pipe cutter p. 92

50106 \varnothing 110 – 200 mm

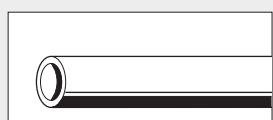
Orbital circular saw p. 92

50108 \varnothing 160 – 355 mm

Cutting disc p. 92

50107 \varnothing 125 mm/50109 \varnothing 230 mm

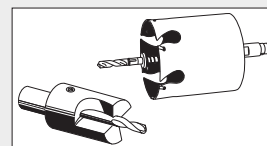
3. SADDLE WELDING 20 – 160 mm



Pipes specified above



Weld-in saddles



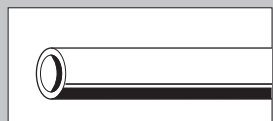
Drill p. 100

50940 – 50948 50987 – 50991

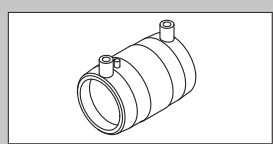
20 – 63mm 75 – 315mm

From 50 mm we recommend the application of drill presses.

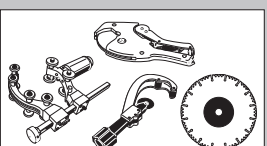
4. ELECTROFUSION SOCKET WELDING 20 – 250 mm



Pipes specified above



Electrofusion sockets p. 53



Pipe cutter p.92,118

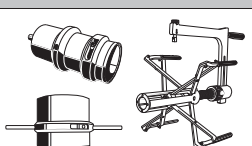
50104 \varnothing 16 – 40 mm

Pipe cutter p. 92

50102/50105/50106 \varnothing 16 – 200 mm

Cutting disc p. 92

50107 \varnothing 125 mm/50109 \varnothing 230 mm



Peeling tools * p. 97

50558 – 50572

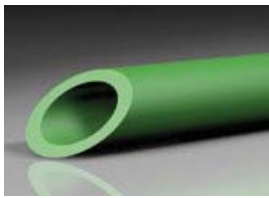
20 – 90 mm

Manual peeling tools p. 97

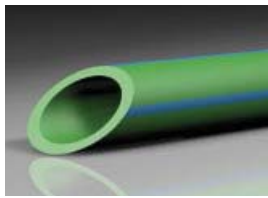
50574 – 50592

110 – 250 mm

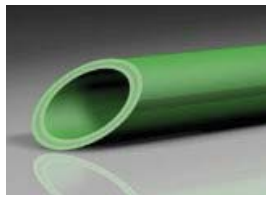
PIPES & FITTINGS CUTTING PEELING DRILLING SADDLE PEELING / CHAMFERING



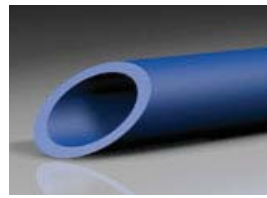
aquaTherm green pipe
SDR 6/7,4 S
Page 18



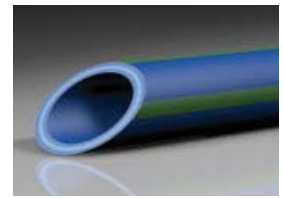
aquaTherm green pipe
SDR 11 S
Page 19



aquaTherm green pipe
SDR 7,4 MF / SDR 9 MF RP
Page 15



aquaTherm blue pipe
SDR 11 S
Page 23



aquaTherm blue pipe
SDR 7,4/11/17,6 MF
Page 21

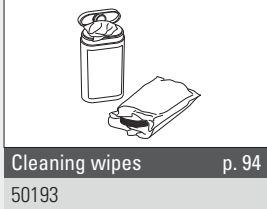
CLEANING

MEASUREMENT
OF TEMPERATURE

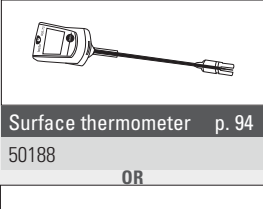
WELDING TOOLS

MANUAL WELDING DEVICES OR

WELDING MACHINES

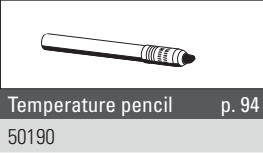


Cleaning wipes p. 94
50193



Surface thermometer p. 94
50188

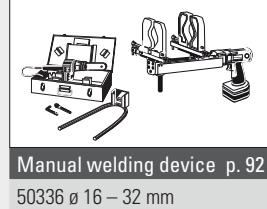
OR



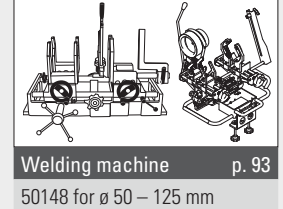
Temperature pencil p. 94
50190



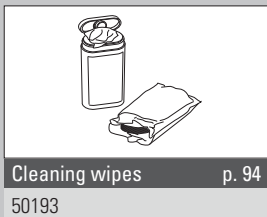
Welding tools p. 94
50206 – 50226



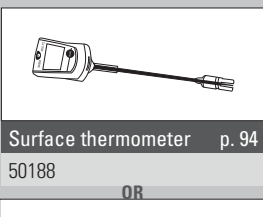
Manual welding device p. 92
50336 \varnothing 16 – 32 mm
50337 \varnothing 16 – 63 mm
50341 \varnothing 50 – 125 mm
(opt.) Electric welding jig p. 91
50161 for \varnothing 63 – 125 mm



Welding machine p. 93
50148 for \varnothing 50 – 125 mm
Welding machine Light p. 93
50145 for \varnothing 63 – 125 mm

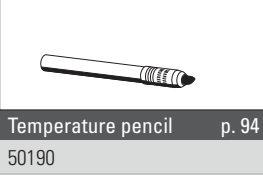


Cleaning wipes p. 94
50193

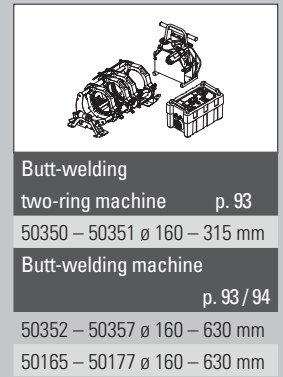


Surface thermometer p. 94
50188

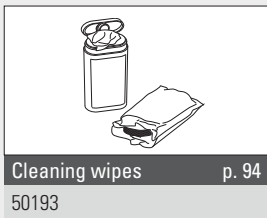
OR



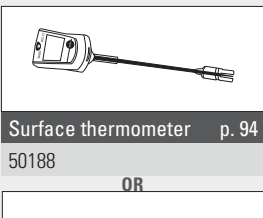
Temperature pencil p. 94
50190



Butt-welding
two-ring machine p. 93
50350 – 50351 \varnothing 160 – 315 mm
Butt-welding machine
p. 93 / 94
50352 – 50357 \varnothing 160 – 630 mm
50165 – 50177 \varnothing 160 – 630 mm

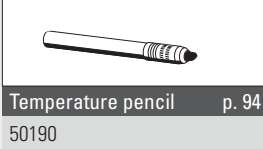


Cleaning wipes p. 94
50193



Surface thermometer p. 94
50188

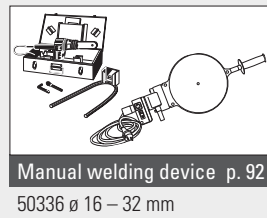
OR



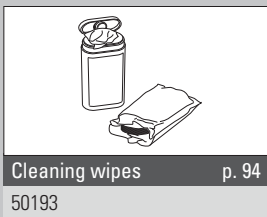
Temperature pencil p. 94
50190



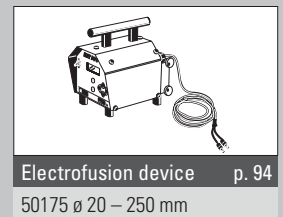
Saddle welding tools p. 98
50614 – 50746



Manual welding device p. 92
50336 \varnothing 16 – 32 mm
50337 \varnothing 16 – 63 mm
50341 \varnothing 50 – 125 mm
50330 \varnothing 50 – 160 mm



Cleaning wipes p. 94
50193



Electrofusion device p. 94
50175 \varnothing 20 – 250 mm

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

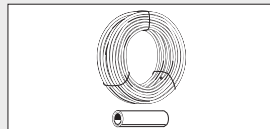
FALSE JAWS

EXPANDING

TOOL INSERTS

MOUNTING

1. MANUAL ASSEMBLY MULTI-LAYER METAL COMPOSITE PIPE 16 – 40 mm

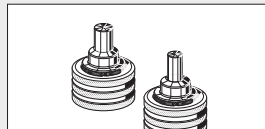


Pipes specified above



from p. 112

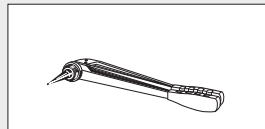
Fittings with sliding sleeves



False jaws p. 119

50857 – 50862

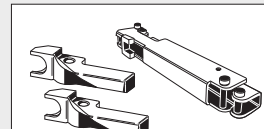
ø 16 – 32 mm



Expanding tool p. 118

50800

ø 10 – 40 mm

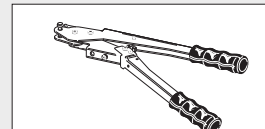


Tool insert p. 119

50825 – 50832 for ø 14 – 32 mm

+(opt.) Angle attachment p.119

50803



Mounting tool p. 119

50802

ø 10 – 40 mm

2. MACHINE ASSEMBLY MULTI-LAYER METAL COMPOSITE PIPE 16 – 40 mm

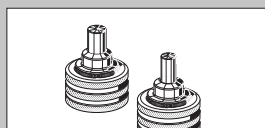


Pipes specified above



from p. 112

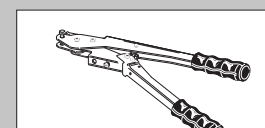
Fittings with sliding sleeves



False jaws p. 119

50857 – 50862

ø 16 – 32 mm



Mounting tool p. 119

50802

ø 10 – 40 mm

PIPES & FITTINGS

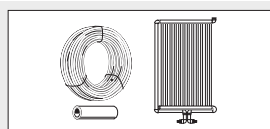
FALSE JAWS

EXPANDING

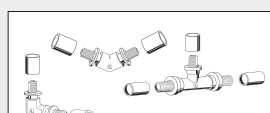
TOOL INSERTS

MOUNTING

3. MANUAL ASSEMBLY PE-RT-PIPE 10 – 25 mm, DRY WALL HEATING ELEMENT sliding sleeve connection

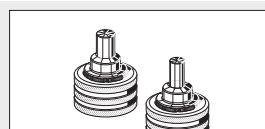


Pipes specified above



from p. 112

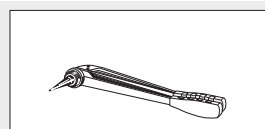
Fittings with sliding sleeves



False jaws p. 99

50815 – 50820

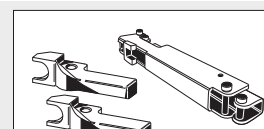
ø 14 – 25 mm



Expanding tool p. 118

50800

ø 10 – 40 mm

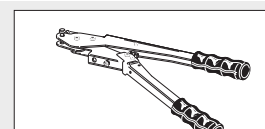


Tool insert p. 119

50825 – 50832 for ø 14 – 42 mm

+(opt.) Angle attachment p.119

50803

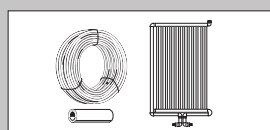


Mounting tool p. 119

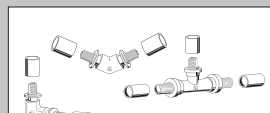
50802

ø 10 – 40 mm

4. MACHINE ASSEMBLY PE-RT PIPE 10 – 25 mm, DRY WALL HEATING ELEMENT sliding sleeve connection

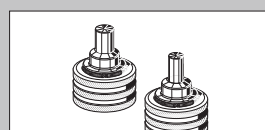


Pipes specified above



from p. 112

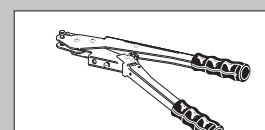
Fittings with sliding sleeves



False jaws p. 119

50815 – 50820

ø 14 – 25 mm



Mounting tool p. 119

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 multilayer 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 the potable water installation or the 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

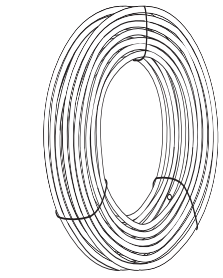


aquatherm grey pipe MULTILAYER-METAL COMPOSITE PIPE

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
 Color: white Operating temperature: 70 °C
 Form supplied: ring/straight length DVGW-Registr.-No.: DW-8216 BT0628
 DW-8217 AT2505
 According to: DIN 4726 oxygen-tight



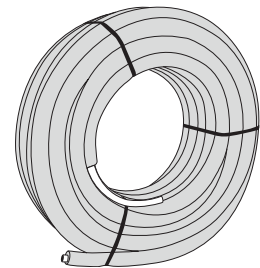
Please use only the suitable expansion tools Art. no. 50857, 50860, 50862 for the multilayer-metal composite pipe.

aquatherm grey pipe MULTILAYER-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
 Color: white DVGW-Registr.-No.: DW-8216 BT0628
 DW-8217 AT2505
 Form supplied: ring According to: DIN 4726 oxygen-tight
 Operating temperature: 70 °C Thermal conductivity of insulation: 0,040 W/mK
 Insulation thickness: 10 mm



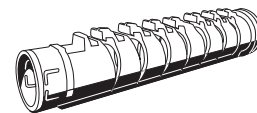
Please use only the suitable expansion tools Art. no. 50857, 50860, 50862 for the multilayer-metal composite pipe.

aquatherm grey pipe

aquatherm grey pipe SNAP IN RADIUS SUPPORT

Art. no.	for pipe dimensions	PU	Box unit	Price € pc
79566	16 & 17mm	25	325	

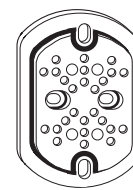
Material: PE
 Colour: black



aquatherm grey pipe SOUND INSULATION PLATE

for aquatherm green pipe and aquatherm grey pipe back plate elbow

Art. no.	Dimension	PU	Box unit	Price € pc
79080		2	50	

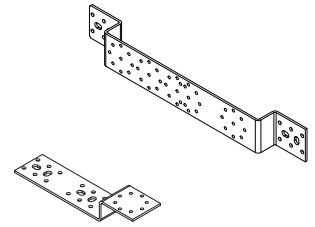


See Z-measures, page 54.

MOUNTING RAIL (TWIN)

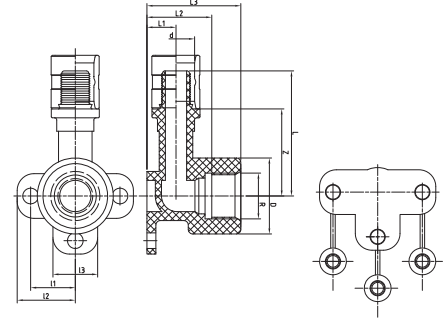
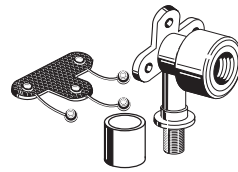
Art. no.	Dimension	PU	Box unit	Price € pc
79095	twin	2	20	

galvanized, for fixing of back plate
See Z-measures, page 55.



aquatherm grey pipe BACK PLATE ELBOW

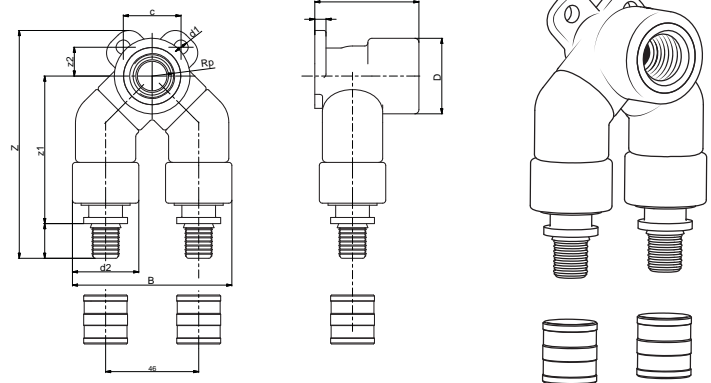
including sliding sleeve – for aquatherm grey pipe Art. no. 777050 ... 777072



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

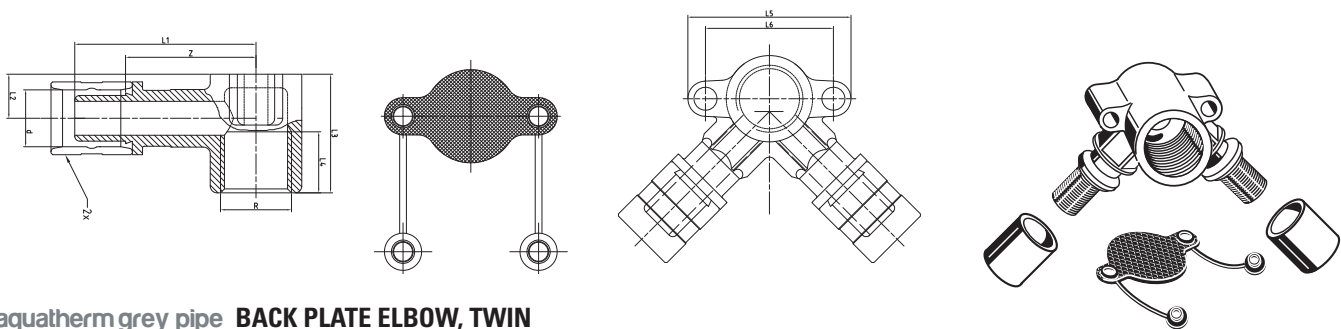
PRINCIPLE OF FLOW-THROUGH BACK PLATE ELBOW



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

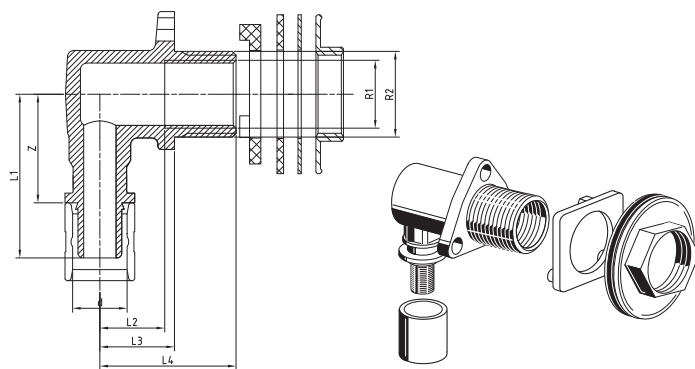
including sliding sleeves

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)



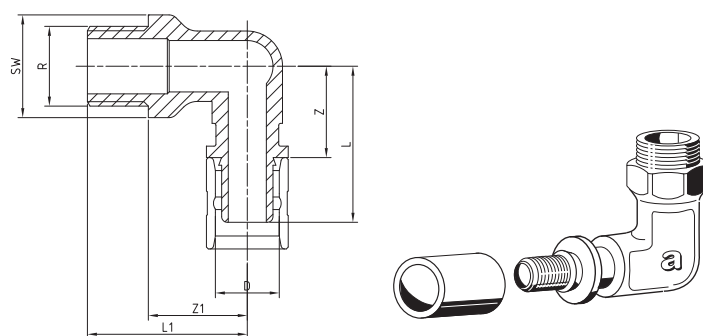
aquatherm grey pipe CONNECTING ELBOW FOR CONCEALED CISTERN

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

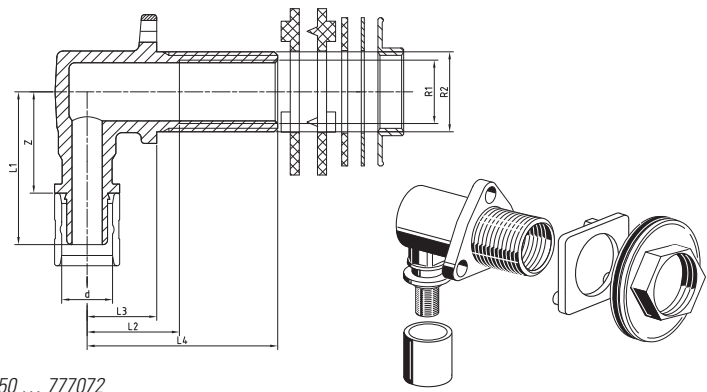


aquatherm grey pipe TRANSITION ELBOW

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

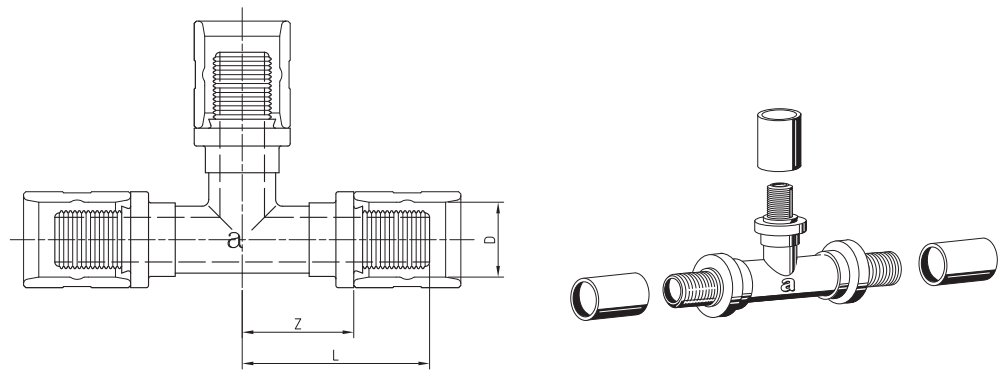


aquatherm grey pipe **CONNECTING ELBOW**

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

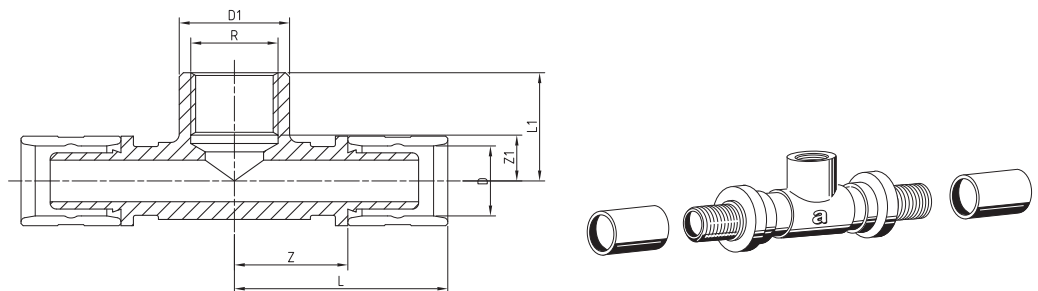


aquatherm grey pipe **TEE**

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

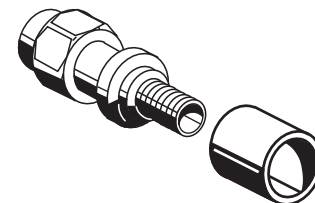
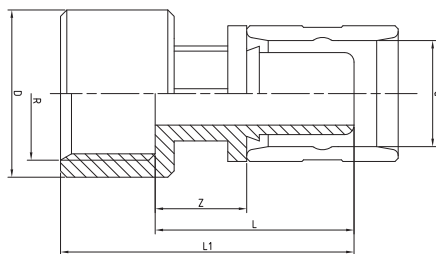


aquatherm grey pipe **TEE WITH FEMALE THREAD**

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

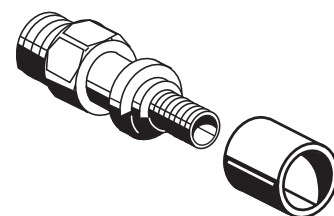
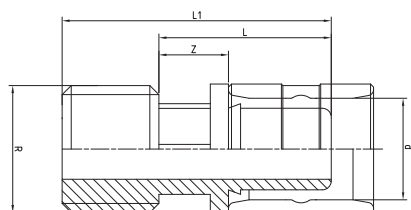


aquatherm grey pipe TRANSITION PIECE

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

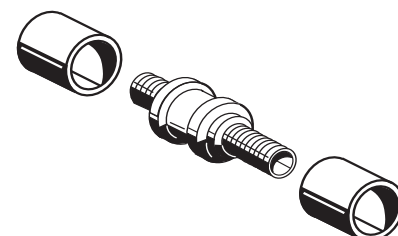
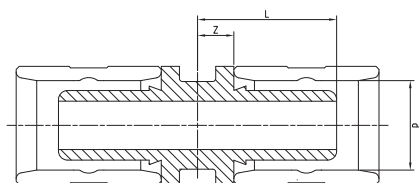


aquatherm grey pipe TRANSITION PIECE

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

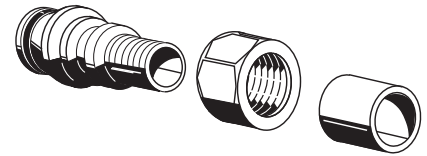
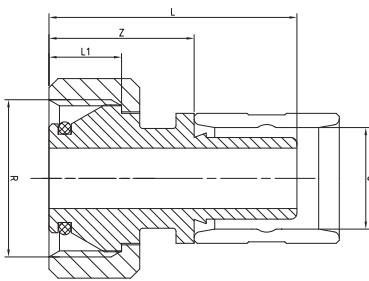


aquatherm grey pipe COUPLING

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

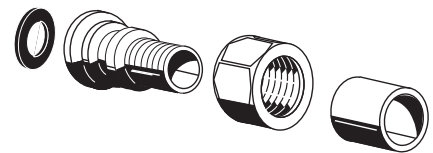
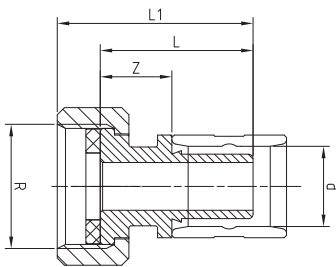


aquatherm grey pipe EUROCONUS ADAPTER

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

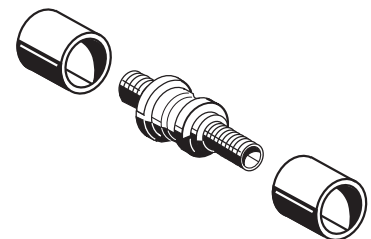
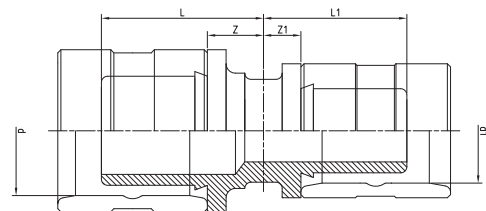


aquatherm grey pipe TRANSITION SCREW JOINT

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

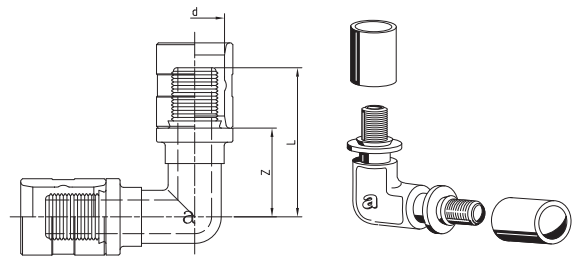


aquatherm grey pipe REDUCING COUPLING

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

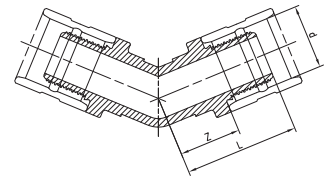
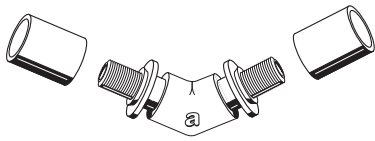


aquatherm grey pipe ELBOW 90°

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

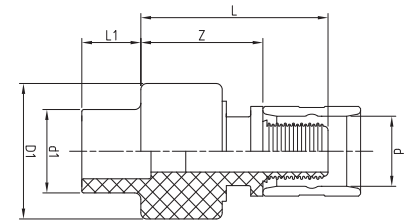
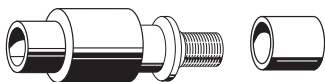
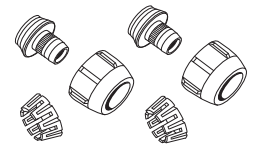
Art. no.	d [mm]	Z [mm]	L [mm]	PU	Price € m/pc
779322	20	20,0	37,0	2	
779324	25	22,0	40,0	2	
779326	32	26,3	47,3	2	

Material: PPSU/brass

aquatherm grey pipe COMPRESSION FITTING

Art. no.	Dimension	PU	Box unit	Price € pc
79610	for ø 16 mm	2	80	

Material: brass



aquatherm grey pipe ADAPTER

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

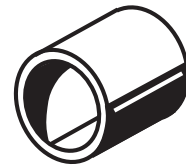
Art. no.	Dimension	d1 [mm]	d [mm]	D1 [mm]	Z [mm]	L [mm]	L1 [mm]	PU	Price € m/pc
778300	aquatherm green pipe 20 mm x aquatherm grey pipe 16 mm	20	16	32,5	30,0	46,0	14,5	2	
778302	aquatherm green pipe 20 mm x aquatherm grey pipe 20 mm	20	20	34,5	30,0	47,0	11,0	2	
778304	aquatherm green pipe 25 mm x aquatherm 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	Box unit	Price € pc
83006	16 mm with screw nut G 3/4"	1	25	

consisting of:

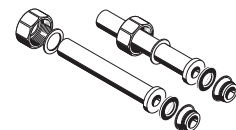
2 connection pieces (L: 120 mm) made of PP-R, Colour: white

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

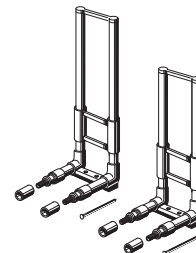
Art. no.	Dimension	PU	Price € pc
779502	aquatherm grey pipe pipe connection and radiator connection 16 x 2,0 mm height= 340 mm length = 45 mm	1	
779512	aquatherm grey pipe pipe connection and radiator connection 16 x 2,0 mm height= 200 mm length = 45 mm	1	

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

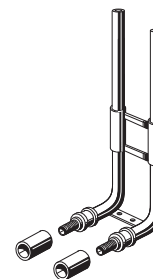
for aquatherm grey pipe Art. no. 777050 ... 777072

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 DOUBLE ROSETTE, RETRACTABLE

Art. no.	Dimension	PU	Box unit	Price € pc
79550	for Ø up to 17,5 mm	5	400	

to cover connection pipes coming out of the floor covering

Material: PA, Pipe spacing: 50 mm, Colour: white



ATTENTION

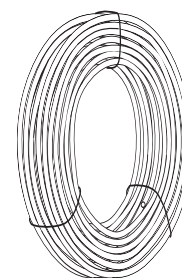
When processing the aquatherm grey pipe potable water connection pipe Art. no. 77020 – 77024, the sliding sleeves of Art. no. 79990 – 79994 have to be used necessarily.

aquatherm grey pipe POTABLE WATER AND RADIATOR CONNECTION PIPE

with oxygen barrier

Art. no.	Dimension	PU	Price € m
77020	16x2,0mm	100	
77022	20x2,0mm	100	
77024	25x2,3mm	50	

Material: PB Application field: Potable water/heating
 Colour: grey Operating temperature: 70 °C
 Form supplied: ring/straight lengths DVGW-Registr.-No.: DW-8501 AU2075 (incl. fittings)
 according to: DIN 4726/4727/16968
 with oxygen barrier by EVOH-coating



aquatherm grey pipe SPARE SLIDING SLEEVE

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

Art. no.	Dimension [mm]	PU	Box unit	Price € pc
79990	16	10	400	
79992	20	10	300	
79994	25	10	200	

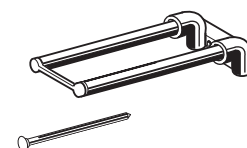
Material: brass



aquatherm grey pipe CONNECTING BEND

Art. no.	Dimension	PU	Box unit	Price € pc
85121	16x2,0mm	1	100	

Length: 200 mm
 Including 1 fastening plug
 Material: PP-R
 Colour: white
 Suitable distances for fixing at the welding device (Art. no. 50337) are available

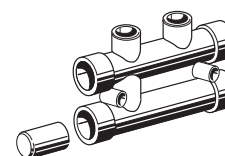


aquatherm grey pipe DISTRIBUTION BLOCK

for skirting or floor installation

Art. no.	Dimension	PU	Box unit	Price € pc
85123	20/16mm	1	15	

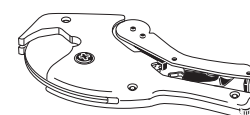
Passage 20 mm, 2 branches, including 1 plug 20 mm
 Material: PP-R
 Colour: green
 Double welding with welding-device (Art. no. 50337) in connection with two 16 mm and two 20 mm tools is possible.



aquatherm grey pipe PIPE CUTTER

Art. no.	Dimension	PU	Box unit	Price € pc
50103	up to Ø 25 mm	1	10	
50104	for pipes Ø 16 - 40 mm	1	30	

for aquatherm grey pipe and aquatherm surface heating pipes



aquatherm grey pipe EXPANDING TOOL

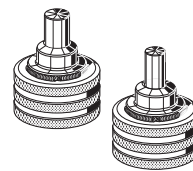
Art. no.	Dimension	PU	Box unit	Price € pc
50800	for Ø 10-40mm	1	10	



FALSE JAWS FOR THE AQUATHERM GREY PIPE EXPANDING TOOL

for aquatherm grey pipe PB-pipes

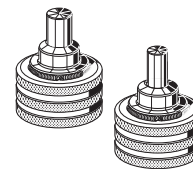
Art. no.	Dimension	PU	Box unit	Price € pc
50815	14 mm	1	30	
50817	16 & 20mm	1	30	
50820	25 mm	1	30	



FALSE JAWS FOR THE AQUATHERM GREY PIPE EXPANDING TOOL

for aquatherm grey pipe multi-layer metal composite pipes

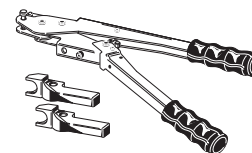
Art. no.	Dimension	PU	Box unit	Price € pc
50857	16 & 20mm	1	30	
50860	25 mm	1	30	
50862	32 mm	1	30	



aquatherm grey pipe MOUNTING TOOL

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

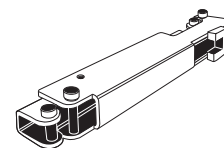
with tools for ø 16 and 20 mm, for the mechanical sliding sleeve connection



aquatherm grey pipe ANGLE ATTACHMENT

for aquatherm grey pipe mounting tool Art. no. 50802

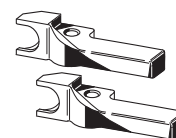
Art. no.	Dimension	PU	Box unit	Price € pc
50803		1	14	



aquatherm grey pipe TOOL INSERT

for aquatherm grey pipe mounting tool Art. no. 50802

Art. no.	Dimension	PU	Box unit	Price € pc
50825	14 mm	1	50	
50826	16/17mm	1	40	
50828	20mm	1	30	
50830	25mm	1	25	
50832	32 mm	1	20	



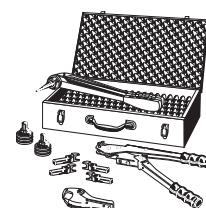
aquatherm grey pipe TOOL CASE

multi-layer metal composite pipe

Art. no.	Dimension	PU	Box unit	Price € pc
50805	for ø 16-20 mm	1	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 108



aquatherm black system

HEATING AND COOLING SYSTEM FOR CEILING, WALL AND FURTHER APPLICATIONS

An individual's satisfaction and efficiency directly depends on the climatic conditions of its surroundings. The working efficiency decreases with increasing temperature and the costs rise with each 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, but also increasingly in housing construction, aquatherm pipe grids have become increasingly more popular for heating and cooling of ceilings and walls. The ingenious aquatherm black system delivers pleasant room conditions without noise and draughts.

aquatherm black system – due to its slim construction- fits tight below the plaster layer or behind 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*
- *Noiseless*
- *Dust reduction*
- *Simple control technique*
- *Thermal properties of the building are enhanced*
- *System extendable*
- *Quick installation thanks to high degree of prefabrication*
- *Even temperature distribution*
- *Safe connection techniques by thermal fusion/Pushfit connection for ceiling elements*
- *Oxygen barrier*
- *Minimal construction thickness*
- *Greater architectural design freedom*
- *Energy saving*
- *Suitable as plaster base for ceiling suspension*

The effect of the aquatherm black system is to heat or cool the surface of wall or ceiling where it is installed behind by a few degrees below or above the ambient temperature. By radiation exchange with the surfaces, the temperatures of the room and furnishings change. The total power is achieved by 2/3 radiation and 1/3 convection. The heat transfer rate is determined by the difference between ambient temperature and average surface temperature – high difference – high heat transfer. As the size of the aquatherm black system matches exactly the size of the metal panels, any inactive ceiling surfaces can be combined.

Further information regarding the aquatherm black system can be found in our aquatherm black system catalog (Order No. E978060) or in our brochure (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 /super-structures 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

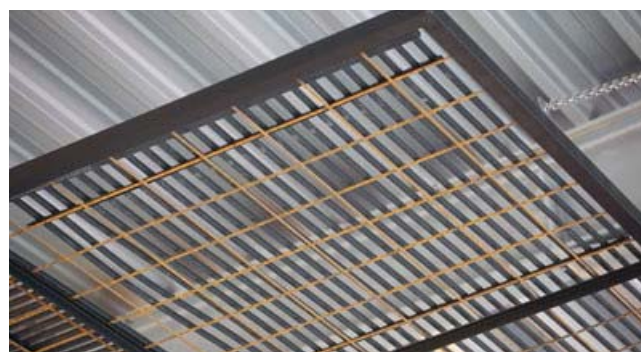
Description

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*



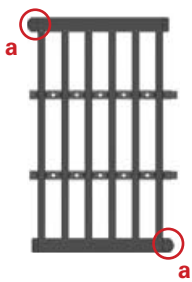

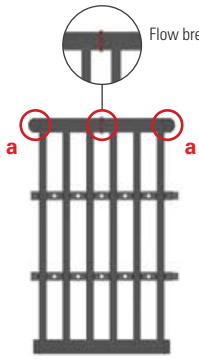

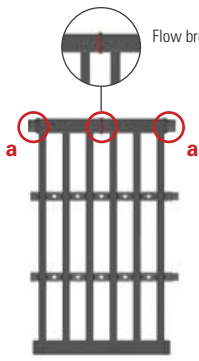




aquatherm black system HEATING AND COOLING GRIDS

oxygen-tight (incl. proportionate number of 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.	Wide/ 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	
			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	
			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 28040	0,28	0,40
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	
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.

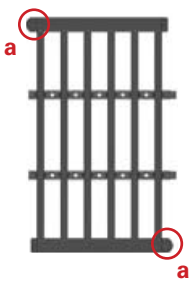


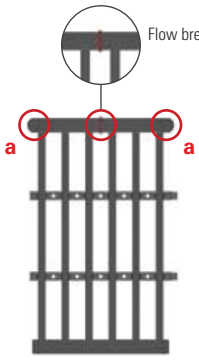


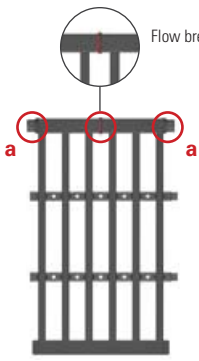


aquatherm black system HEATING AND COOLING GRIDS

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

Attention:

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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.

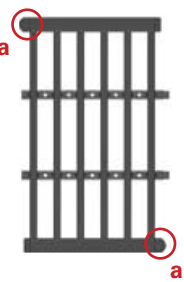


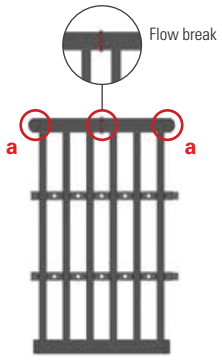


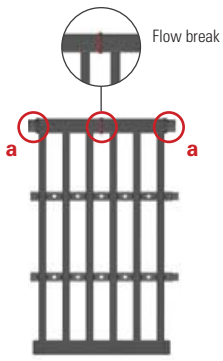


aquatherm black system HEATING AND COOLING GRIDS

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

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			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	
			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				

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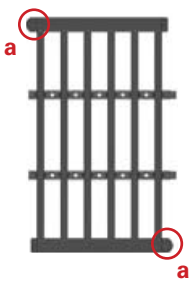


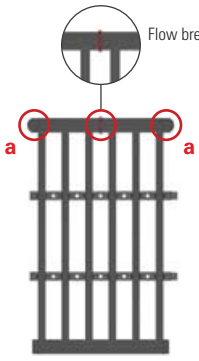


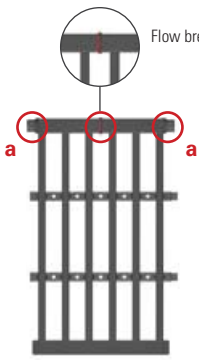


aquatherm black system HEATING AND COOLING GRIDS

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			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.

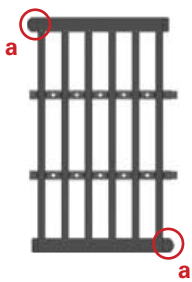


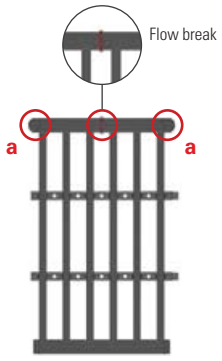


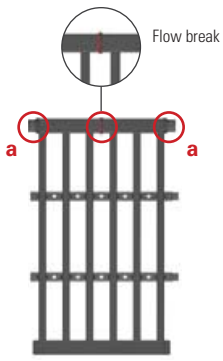


aquatherm black system HEATING AND COOLING GRIDS

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			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	
			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.

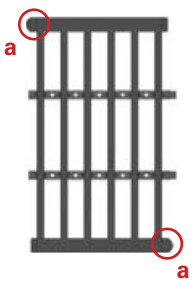
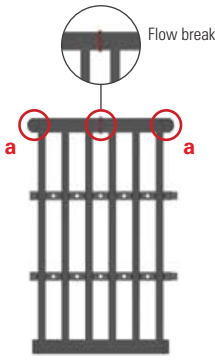
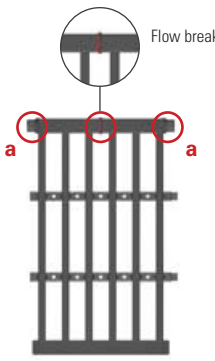






aquatherm black system HEATING AND COOLING GRIDS

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

Attention:

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Connection types of the grids			Art. no.	Wide/ m	Length/ m	Area/ m ²	PU	Price € pc
52	62	64						
			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				
								
								
								
<p>Detail of connection a</p>								
<p>Detail of connection a</p>								
<p>Detail of connection a</p>								
<p>Connection type 52 = Plug connection 90° top left, lower right</p>			<p>Connection type 62 = Plug connection 90° left, right</p>			<p>Connection type 64 = welded connection left, right</p>		
<p>a Plug socket 16 mm</p>			<p>a Plug socket 16 mm</p>			<p>a Welding socket 16 mm</p>		
								
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.

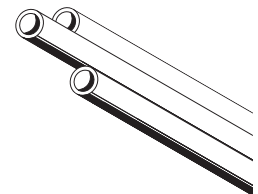
Special size on request!



aquatherm black system PP-GRID CONNECTION PIPE

with oxygen barrier

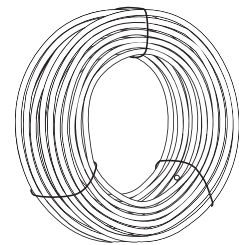
Art. no.	Dimension [mm]	Length [m]	PU	Box unit	Price € m
81006	16	4	100	8000	
81008	20	2,5	50	3500	



aquatherm black system PP-GRID CONNECTION PIPE

with oxygen barrier, in ring

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



aquatherm black system CORRUGATED CONNECTING PIPE

with oxygen barrier, in ring

Art. no.	Dimension	PU	Box unit	Price € m
81039		50	50	

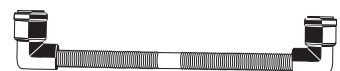


Connectable by welding with Art. 81288, 81290, 81291 separable every 50 cm

aquatherm black system CORRUGATED CONNECTING PIPE

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

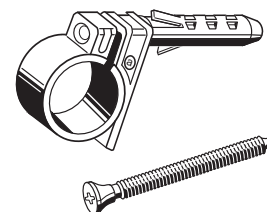
Art. no.	Dimension	PU	Box unit	Price € pc
81031	50 cm 1 x plug elbow 90° and welding socket 16 mm	1		
81032	50 cm with 2 x plug elbow 90°	1		
81035	150 cm with 2 x plug elbow 90°	1		
81038	100 cm with 2 x plug elbow 90°	1		
81044	50 cm with 2 x welding elbow 90°	1	25	
81047	100 cm with 2 x welding elbow 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	

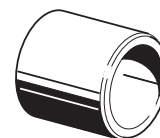
Colour: anthracite



aquatherm black system SOCKET

for heating and cooling grids

Art. no.	Dimension [mm]	PU	Box unit	Price € pc
81050	16	10	300	



aquatherm black system ELBOW 90°

for heating and cooling grids

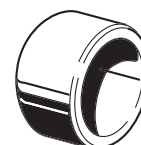
Art. no.	Dimension [mm]	PU	Box unit	Price € pc
81060	16	10	300	



aquatherm black system END CAP

for heating and cooling grids

Art. no.	Dimension [mm]	PU	Box unit	Price € pc
81080	16	10	400	



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	Box unit	Price € pc
81065	16	10	250	



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

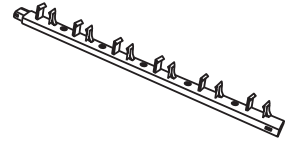
Article description solvent: Löser 31



aquatherm black system **FIXING RAIL**

for heating and cooling grids

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



aquatherm black system **WALL BRACKET**

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

Art. no.	Dimension	PU	Box unit	Price € pc
81296		10	250	

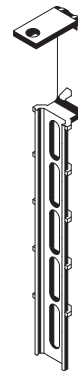


aquatherm black system **FIXING RAIL FOR DRY WALL**

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.

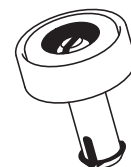
In connection with Art. no. 81304 (perforated tape) for fixing the heating-cooling grids in case of wall systems with metal substructure.



aquatherm black system **MAGNET CLIP**

Art. no.	PU	Price € pc
81302	50	

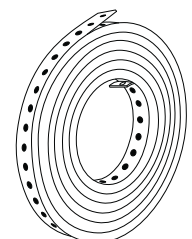
In connection with art. no. 81506 for fixing the heating-cooling grids in case of ceiling systems with metal substructure.



aquatherm black system **PERFORATED TAPE**

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

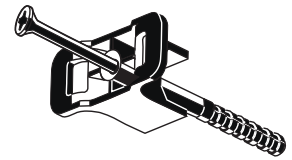
In connection with art. no. 81301 for fixing the heating-cooling grids in case of wall systems with metal substructure.



aquatherm black system **FIXING CLAMP WITH WALL PLUG**

for wall and ceiling installation

Art. no.	Dimension	PU	Box unit	Price € pc
81298		10	600	



aquatherm black system **THERMOGRAPHY FILM**

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

Art. no.	Dimension	PU	Price € pc
50186	160x70mm	1	

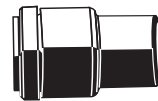


aquatherm black system **CONNECTOR**

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

Art. no.	Dimension [mm]	PU	Box unit	Price € pc
81288	16	20	100	

with safety pin

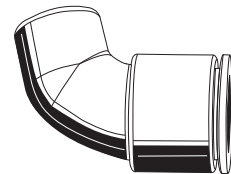


aquatherm black system **90° ELBOW-ADAPTER**

onesided plugable/onesided PP-R 16 mm weldable

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

with safety pin

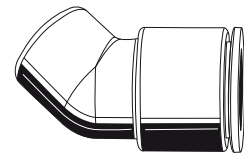


aquatherm black system **45° ELBOW-ADAPTER**

onesided plugable/onesided PP-R 16 mm weldable

Art. no.	Dimension [mm]	PU	Box unit	Price € pc
81291	16	10	100	

with safety pin

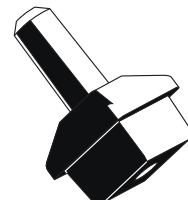


aquatherm black system **SEALING PLUG**

for wall and ceiling grids

Art. no.	Dimension [mm]	PU	Box unit	Price € pc
81091	12	10	1200	

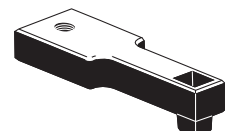
welding tool for sealing plug Art. no. 50285 see tools



aquatherm black system **WELDING TOOL**

Art. no.	Dimension	PU	Box unit	Price € pc
50285	12x12 mm	1	50	

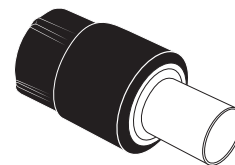
for sealing plug Art. no. 81091



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 orange system

SURFACE HEATING AND COOLING SYSTEMS

aquatherm has reached a very successful market position in the field of surface heating just after its foundation.

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.

Combining **aquatherm orange system** underfloor heating systems with **aquatherm green pipe** or **aquatherm blue pipe** complete solutions are available for:

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



FIELDS OF APPLICATION



Flexible sports floor



Open space heating



Industrial floor heating



Chilled area, ice stadium



Undersoil pitch heating

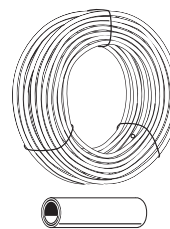
aquatherm orange system SURFACE HEATING AND RADIATOR CONNECTING PIPE (PE-RT)

with oxygen barrier according to DIN 4726/16833

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

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

Colour: red

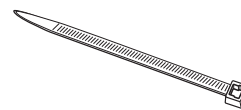


aquatherm orange system CABLE TIE

for industrial surface heating

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

Please note: Packung Unit = 100

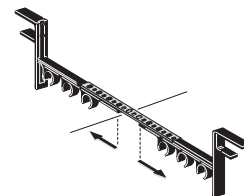


aquatherm orange system PIPE GUIDING RAIL

for surface flexible sports floor, adjustable in length and height

Art. no.	Dimension	PU	Box unit	Price € pc
90510	Ø 20 mm	150	100	

Material: Polyamid

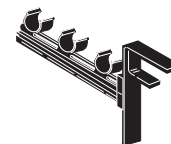


aquatherm orange system END RAIL

for surface flexible sports floor, adjustable in height

Art. no.	Dimension	PU	Box unit	Price € pc
90511	Ø 20 mm	20	300	

Material: Polyamid

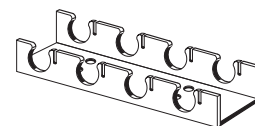


aquatherm orange system PROFILE RAIL

for industrial heating

Art. no.	Dimension	PU	Box unit	Price € m
90518	Ø 20 mm	2	32	

Material: Polyamid

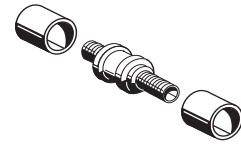


aquatherm orange system COUPLING

for PE-RT pipes, including sliding sleeve

Art. no.	Dimension [mm]	PU	Box unit	Price € pc
79210	16	2	100	
79212	20	2	80	

Material: brass

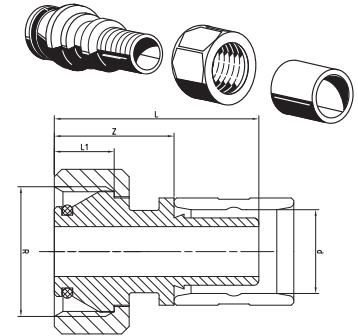


aquatherm grey pipe EUROCONUS ADAPTER

including sliding sleeve

Art. no.	d [mm]	R	Z [mm]	L [mm]	L1 [mm]	PU	Box unit	Price € pc
79220	16	G3/4	24,00	41,00	12,00	2	50	
79222	20	G3/4	30,00	47,00	15,00	2	50	

Material: brass
for customary manifolds/joints

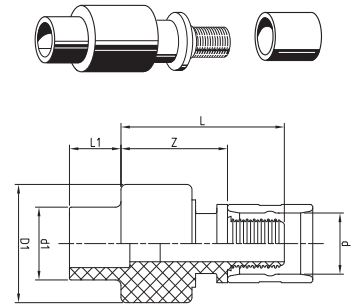


aquatherm orange system ADAPTER

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	Box unit	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	80	
78302	aquatherm green pipe 20 mm x aquatherm orange system 20 mm	20	20	34,5	30,0	47,0	11,0	2	60	

Material: PP-R/brass

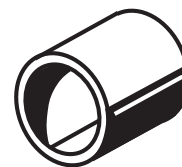


aquatherm grey pipe SPARE SLIDING SLEEVE

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	Box unit	Price € pc
90504	ø 14-20 mm tacker	500	5000	

for aquatherm orange system underfloor heating pipes

Material: Polyamid



aquatherm TACKER

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

Art. no.	Dimension	PU	Box unit	Price € pc
96003		1	1	

Note: Applicable with Art. no. 90504

for fixing of heating pipe with pipe clips on the aquatherm orange system system elements

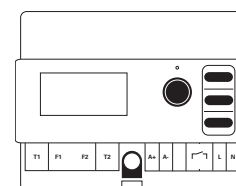


AUTOMATIC CONTROL FOR KEEPING AREAS SNOW-AND ICE-FREE

aquatherm orange system DIGITAL ICE- AND SNOW DETECTOR

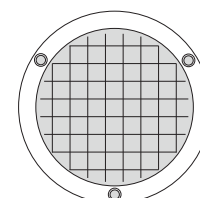
for activating open space heating systems if required

Art. no.	Dimension	PU	Price € pc
99258		1	



aquatherm orange system OPEN SPACE SENSOR

Art. no.	Dimension	PU	Price € pc
99259	diameter 68 mm	1	





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 thermostates 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 hygrosat 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



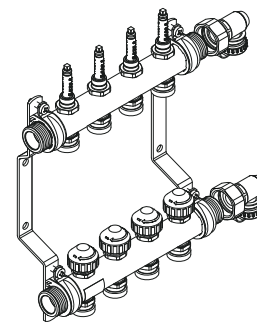
Control distributor

NEW 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	



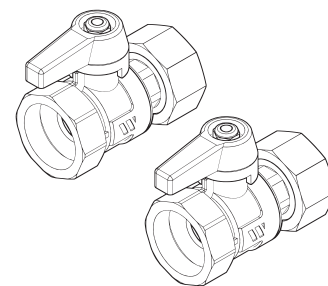
Stainless steel manifold with the following properties:

- 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

NEW aquatherm BALL VALVE SET

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

Art. no.	Dimension	PU	Price € pc
94413	1" x 1"	1	

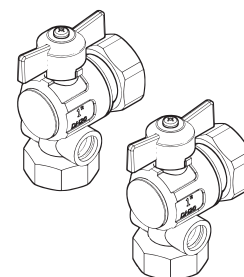


NEW aquatherm BALL VALVE SET

Corner design

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

Art. no.	Dimension	PU	Price € pc
94414	1" x 1"	1	

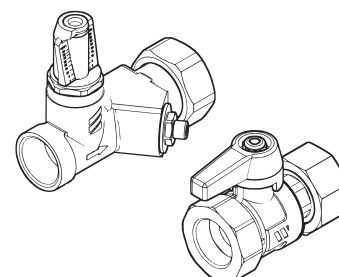


NEW aquatherm LINE CONTROL VALVE SET FOR MANIFOLD

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

Art. no.	Dimension	PU	Price € pc
94415	1"AG	1	

For restriction of flow rate respectively for hydraulic balancing of manifolds

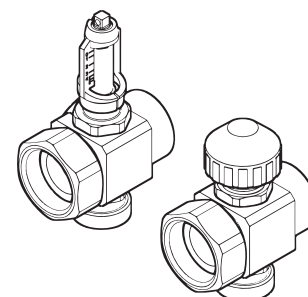


NEW aquatherm HEATING CIRCUIT MANIFOLD EXTENSION SET

for Art. no. 94402 – 94412

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

Art. no.	Dimension	PU	Price € pc
94416		1	



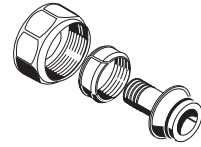
aquatherm EUROCONUS CONNECTOR

for heating circuit manifold

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

Art. no.	Dimension	PU	Price € pc
92106	6x2,0mm	2	
92107	17x2,0mm	2	
92108	20x2,0mm	2	

cap nut nickel-plated

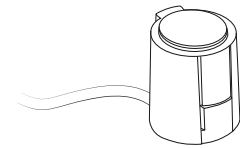


aquatherm ACTUATOR

for heating circuit manifolds and heating circuit control valves – flow

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

Art. no.	Dimension	PU	Box unit	Price € m/pc
94102	230V	1	21	
94103	24V	1		

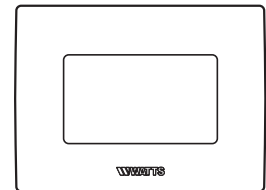


NEW aquatherm CENTRAL RADIO UNIT

with 4,3" touchscreen

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

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



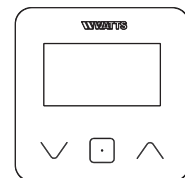
- remote access via app or web
- intuitive operation: plug & play
- wall mounting with power supply 85-265 VA (50-60Hz) or via mini USB cable
- table installation with stand
- heating-cooling units controllable

NEW aquatherm RADIO ROOM THERMOSTAT

with glass touchscreen

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

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



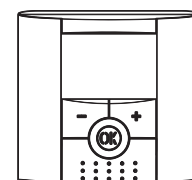
- heating or heating/cooling
- setting of different temperature modes
- antifreeze protection function
- pincode and anti-theft protection
- wall or table installation
- "open window" detection

NEW aquatherm RADIO ROOM THERMOSTAT

digital, with LCD-display, programmable

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

Art. no.	Dimension	PU	Price € pc
94419		1	

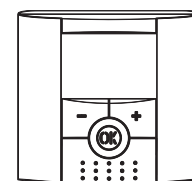


NEW aquatherm RADIO ROOM THERMOSTAT

digital, with LCD-display, programmable, with hygrostat

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

Art. no.	Dimension	PU	Price € pc
94420		1	

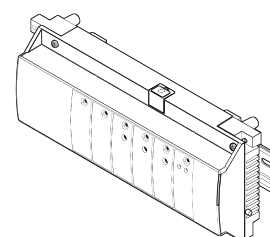


NEW aquatherm RADIO CONTROL DISTRIBUTOR

Master, for 6 zones

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

Art. no.	Dimension	PU	Price € pc
94422		1	



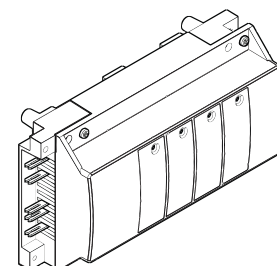
- Zone control for water-bearing surface heating/cooling
- up to 10 zones (room sensor)
- Switching output for pump and heat generator by radio or cable (potential free)

NEW 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	

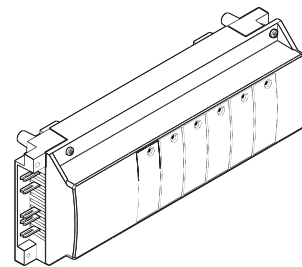


NEW aquatherm MANAGEMENT MODULE

for heating/cooling

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

Art. no.	Dimension	PU	Price € pc
94421		1	



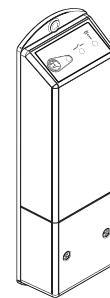
- Control and management for water-bearing surface heating/cooling in conjunction with control distributor
- signal for central heating/cooling changeover via floating switching output

NEW 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	

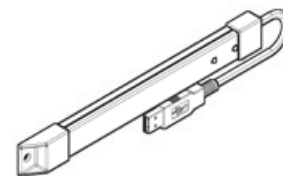


NEW aquatherm RADIO REPEATER

to expand the radio transmission area

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

Art. no.	Dimension	PU	Price € pc
94425		1	

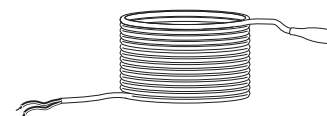


NEW aquatherm DEWPOINT SENSOR

3 metres

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

Art. no.	Dimension	PU	Price € pc
94426		1	



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aquatherm green pipe

aquatherm blue pipe

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50166	94	50478	96	50631	98	50722	99	50924	100
50169	94	50479	95	50632	98	50726	99	50926	100
50175	94	50480	95	50634	98	50728	99	50928	100
50177	94	50481	95	50635	98	50730	99	50940	100
50186	133	50482	95	50636	98	50732	99	50941	100
50188	94	50483	95	50638	98	50734	99	50942	100
50190	94	50484	95	50640	98	50736	99	50944	100
50191	91	50485	95	50642	98	50738	99	50946	100
50193	94	50486	95	50644	98	50740	99	50948	100
50195	94	50487	95	50648	98	50742	99	50969	100
50206	94	50488	95	50650	98	50744	99	50971	100
50208	94	50489	96	50652	98	50746	99	50973	101
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2514144	42	2711305	90	2713388	84	2718300	85	2770130	79
2514146	42	2711306	89	2713390	84	2718302	85	2770133	79
2514148	42	2711307	90	2713392	84	2718304	85	2770134	79
2514150	42	2712126	81	2713394	84	2718332	86	2770137	79
2514154	42	2712130	81	2713396	84	2718334	86	2770138	79
2515530	49	2712134	81	2713400	84	2718336	86	2770141	79
2515534	49	2712138	81	2713402	84	2718338	86	2770142	79
2515538	49	2712142	81	2713406	84	2718340	86	2770143	79
2515542	49	2712144	81	2713408	84	2718342	86	2770144	79
2515544	49	2712526	80	2713410	84	2718344	86	5200040	129
2515546	49	2712530	80	2713412	84	2718346	86	5200050	129
2515548	49	2712534	80	2713414	84	2718350	86	5200060	129
2515550	49	2712538	80	2713416	84	2718382	86	5200070	129
2541830	75	2712542	80	2713418	84	2718384	86	5200080	129
2541834	75	2712544	80	2713420	84	2718386	86	5200090	129
2541838	75	2713126	81	2713424	84	2718388	86	5200100	129
2541842	75	2713130	81	2713428	84	2718390	86	5200120	129
2570126	21	2713134	81	2713432	84	2718392	86	5200140	129

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5200180	129	5236060	125	5252140	127	5280040	129	6228100	124
5200200	129	5236070	125	5252160	127	5280050	129	6228120	124
5200225	129	5236080	125	5252180	127	5280060	129	6228140	124
5200250	129	5236090	125	5252200	127	5280070	129	6228160	124
5224040	124	5236100	125	5252225	127	5280080	129	6228180	124
5224050	124	5236120	125	5252250	127	5280090	129	6228200	124
5224060	124	5236140	125	5256040	127	5280100	129	6228225	124
5224070	124	5236160	125	5256050	127	5280120	129	6228250	124
5224080	124	5236180	125	5256060	127	5280140	129	6232040	125
5224090	124	5236200	125	5256070	127	5280160	129	6232050	125
5224100	124	5236225	125	5256080	127	5280180	129	6232060	125
5224120	124	5236250	125	5256090	127	5280200	129	6232070	125
5224140	124	5240040	126	5256100	127	5280225	129	6232080	125
5224160	124	5240050	126	5256120	127	5280250	129	6232090	125
5224180	124	5240060	126	5256140	127	6200040	129	6232100	125
5224200	124	5240070	126	5256160	127	6200050	129	6232120	125
5224225	124	5240080	126	5256180	127	6200060	129	6232140	125
5224250	124	5240090	126	5256200	127	6200070	129	6232160	125
5228040	124	5240100	126	5256225	127	6200080	129	6232180	125
5228050	124	5240120	126	5256250	127	6200090	129	6232200	125
5228060	124	5240140	126	5260040	128	6200100	129	6232225	125
5228070	124	5240160	126	5260050	128	6200120	129	6232250	125
5228080	124	5240180	126	5260060	128	6200140	129	6236040	125
5228090	124	5240200	126	5260070	128	6200160	129	6236050	125
5228100	124	5240225	126	5260080	128	6200180	129	6236060	125
5228120	124	5240250	126	5260090	128	6200200	129	6236070	125
5228140	124	5248040	126	5260100	128	6200225	129	6236080	125
5228160	124	5248050	126	5260120	128	6200250	129	6236090	125
5228180	124	5248060	126	5260140	128	6224040	124	6236100	125
5228200	124	5248070	126	5260160	128	6224050	124	6236120	125
5228225	124	5248080	126	5260180	128	6224060	124	6236140	125
5228250	124	5248090	126	5260200	128	6224070	124	6236160	125
5232040	125	5248100	126	5260225	128	6224080	124	6236180	125
5232050	125	5248120	126	5260250	128	6224090	124	6236200	125
5232060	125	5248140	126	5268040	128	6224100	124	6236225	125
5232070	125	5248160	126	5268050	128	6224120	124	6236250	125
5232080	125	5248180	126	5268060	128	6224140	124	6240040	126
5232090	125	5248200	126	5268070	128	6224160	124	6240050	126
5232100	125	5248225	126	5268080	128	6224180	124	6240060	126
5232120	125	5248250	126	5268090	128	6224200	124	6240070	126
5232140	125	5252040	127	5268100	128	6224225	124	6240080	126
5232160	125	5252050	127	5268120	128	6224250	124	6240090	126
5232180	125	5252060	127	5268140	128	6228040	124	6240100	126
5232200	125	5252070	127	5268160	128	6228050	124	6240120	126
5232225	125	5252080	127	5268180	128	6228060	124	6240140	126
5232250	125	5252090	127	5268200	128	6228070	124	6240160	126
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6240250	126	6260070	128	6400160	129	6436050	125	6452120	127
6248040	126	6260080	128	6400180	129	6436060	125	6452140	127
6248050	126	6260090	128	6400200	129	6436070	125	6452160	127
6248060	126	6260100	128	6400225	129	6436080	125	6452180	127
6248070	126	6260120	128	6400250	129	6436090	125	6452200	127
6248080	126	6260140	128	6424040	124	6436100	125	6452225	127
6248090	126	6260160	128	6424050	124	6436120	125	6452250	127
6248100	126	6260180	128	6424060	124	6436140	125	6456040	127
6248120	126	6260200	128	6424070	124	6436160	125	6456050	127
6248140	126	6260225	128	6424080	124	6436180	125	6456060	127
6248160	126	6260250	128	6424090	124	6436200	125	6456070	127
6248180	126	6268040	128	6424100	124	6436225	125	6456080	127
6248200	126	6268050	128	6424120	124	6436250	125	6456090	127
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6248250	126	6268070	128	6424160	124	6440050	126	6456120	127
6252040	127	6268080	128	6424180	124	6440060	126	6456140	127
6252050	127	6268090	128	6424200	124	6440070	126	6456160	127
6252060	127	6268100	128	6424225	124	6440080	126	6456180	127
6252070	127	6268120	128	6424250	124	6440090	126	6456200	127
6252080	127	6268140	128	6428040	124	6440100	126	6456225	127
6252090	127	6268160	128	6428050	124	6440120	126	6456250	127
6252100	127	6268180	128	6428060	124	6440140	126	6460040	128
6252120	127	6268200	128	6428070	124	6440160	126	6460050	128
6252140	127	6268225	128	6428080	124	6440180	126	6460060	128
6252160	127	6268250	128	6428090	124	6440200	126	6460070	128
6252180	127	6280040	129	6428100	124	6440225	126	6460080	128
6252200	127	6280050	129	6428120	124	6440250	126	6460090	128
6252225	127	6280060	129	6428140	124	6448040	126	6460100	128
6252250	127	6280070	129	6428160	124	6448050	126	6460120	128
6256040	127	6280080	129	6428180	124	6448060	126	6460140	128
6256050	127	6280090	129	6428200	124	6448070	126	6460160	128
6256060	130	6280100	129	6428225	124	6448080	126	6460180	128
6256060	127	6280120	129	6428250	124	6448090	126	6460200	128
6256070	127	6280140	129	6432040	125	6448100	126	6460225	128
6256080	127	6280160	129	6432050	125	6448120	126	6460250	128
6256090	127	6280180	129	6432060	125	6448140	126	6468040	128
6256100	127	6280200	129	6432070	125	6448160	126	6468050	128
6256118	130	6280225	129	6432080	125	6448180	126	6468060	128
6256120	127	6280250	129	6432090	125	6448200	126	6468070	128
6256140	127	6400040	129	6432100	125	6448225	126	6468080	128
6256160	127	6400050	129	6432120	125	6448250	126	6468090	128
6256180	127	6400060	129	6432140	125	6452040	127	6468100	128
6256200	127	6400070	129	6432160	125	6452050	127	6468120	128
6256225	127	6400080	129	6432180	125	6452060	127	6468140	128
6256250	127	6400090	129	6432200	125	6452070	127	6468160	128
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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)	20,0	(290)
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)	17,4	(252)	
		50	14,5	(210)	18,3	(265)	17,5	(254)	17,0	(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)	14,8	(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)	12,8	(186)	
		25	10,5	(152)	13,3	(193)	12,6	(183)	12,5	(181)	
		50	10,1	(146)	12,7	(184)	12,1	(175)	12,3	(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)	10,5	(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 = multilayer faser

MF RP = multilayer 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 heating systems or closed systems considering the seasonal periods of operation – non potable water application

Heating period	Temperature	Years of service	aquatherm blue pipe SDR 11 MF, OT & S		aquatherm blue pipe SDR 17.6 MF		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)
constant operating temperature 70 °C / 158 °F incl. 30 days per year at	75 °C 167 °F	5	9,38	(136)	5,38	(78)	14,27	(207)	12,90	(187)
		10	9,08	(132)	5,21	(76)	13,79	(200)	12,60	(183)
		25	7,82	(113)	4,48	(65)	11,74	(170)	12,20	(177)
		45	6,77	(98)	3,89	(56)	10,18	(148)	12,00	(174)
	80 °C 176 °F	5	8,88	(129)	5,09	(74)	13,50	(196)	11,70	(170)
		10	8,46	(123)	4,86	(70)	12,80	(186)	11,40	(165)
		25	7,38	(107)	4,24	(61)	11,14	(162)	11,10	(161)
		42,5	6,49	(94)	3,72	(54)	9,79	(142)	10,90	(158)
	85 °C 185 °F	5	8,17	(118)	4,69	(68)	12,42	(180)	10,70	(155)
		10	7,82	(113)	4,49	(65)	11,87	(172)	10,40	(151)
		25	6,70	(97)	3,85	(56)	10,14	(147)	10,10	(146)
		37,5	6,07	(88)	3,49	(51)	9,18	(133)	10,00	(145)
	90 °C 194 °F	5	7,50	(109)	4,30	(62)	11,39	(165)	9,80	(142)
		10	7,19	(104)	4,13	(60)	10,94	(159)	9,50	(138)
		25	5,85	(85)	3,36	(49)	8,86	(129)	9,20	(133)
		35	5,39	(78)	3,09	(45)	8,16	(118)	9,10	(132)
constant operating temperature 70 °C / 158 °F incl. 60 days per year at	75 °C 167 °F	5	9,26	(134)	5,31	(77)	14,11	(205)	12,30	(178)
		10	8,90	(129)	5,11	(74)	13,57	(197)	12,10	(175)
		25	7,62	(111)	4,37	(63)	11,58	(168)	11,70	(170)
		45	6,60	(96)	3,79	(55)	10,05	(146)	11,50	(167)
	80 °C 176 °F	5	8,61	(125)	4,94	(72)	13,12	(190)	11,40	(165)
		10	8,24	(120)	4,73	(69)	12,54	(182)	11,20	(162)
		25	6,93	(101)	3,98	(58)	10,56	(153)	10,80	(157)
		40	6,18	(90)	3,55	(51)	9,41	(136)	10,70	(155)
	85 °C 185 °F	5	7,91	(115)	4,54	(66)	12,03	(174)	10,40	(151)
		10	7,56	(110)	4,34	(63)	11,52	(167)	10,20	(148)
		25	6,05	(88)	3,47	(50)	9,22	(134)	9,90	(144)
		35	5,57	(81)	3,20	(46)	8,48	(123)	9,80	(142)
	90 °C 194 °F	5	7,25	(105)	4,16	(60)	11,04	(160)	9,50	(138)
		10	6,40	(93)	3,67	(53)	9,76	(142)	9,30	(135)
		25	5,12	(74)	2,94	(43)	7,81	(113)	9,10	(132)
		30	4,90	(71)	2,81	(41)	7,46	(108)	9,00	(131)
constant operating temperature 70 °C / 158 °F incl. 90 days per year at	75 °C 167 °F	5	9,17	(133)	5,26	(76)	14,02	(203)	12,20	(177)
		10	8,79	(127)	5,04	(73)	13,38	(194)	12,00	(174)
		25	7,45	(108)	4,27	(62)	11,33	(164)	11,60	(168)
		45	6,45	(94)	3,70	(54)	9,82	(142)	11,40	(165)
	80 °C 176 °F	5	8,46	(123)	4,85	(70)	12,90	(187)	11,30	(164)
		10	8,11	(118)	4,65	(67)	12,35	(179)	11,00	(160)
		25	6,60	(96)	3,78	(55)	10,05	(146)	10,70	(155)
		37,5	5,98	(87)	3,43	(50)	9,09	(132)	10,60	(154)
	85 °C 185 °F	5	7,76	(113)	4,45	(65)	11,81	(171)	10,30	(149)
		10	7,03	(102)	4,04	(59)	10,72	(155)	10,10	(146)
		25	5,63	(82)	3,23	(47)	8,58	(124)	9,80	(142)
		32,5	5,28	(77)	3,03	(44)	8,03	(116)	9,70	(141)
	90 °C 194 °F	5	6,96	(101)	3,99	(58)	10,59	(154)	9,40	(136)
		10	5,88	(85)	3,37	(49)	8,96	(130)	9,20	(133)
		25	4,70	(68)	2,70	(39)	7,17	(104)	8,90	(129)

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

SDR = 2 x S + 1 ≈ d/s (S = Pipe series index from ISO 4065)

PERMISSIBLE WORKING PRESSURE

for general pressure pipe applications in permanent operation
 charted application ranges on page 162 and 163

Temperature	Years of service	aquatherm blue pipe SDR 17.6 MF		aquatherm blue pipe SDR 11 MF & MF OT		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)
10 °C 50 °F	1	12,8	(186)	27,8	(403)	30,2	(438)	28,8	(418)
	5	12,0	(174)	26,2	(380)	28,2	(409)	27,9	(405)
	10	11,7	(170)	25,6	(371)	27,7	(402)	27,5	(399)
	25	11,4	(165)	24,7	(358)	26,9	(390)	27,1	(393)
	50	11,1	(161)	24,1	(350)	26,1	(379)	26,7	(387)
15 °C 59 °F	100	10,8	(157)	23,5	(341)	25,2	(366)	26,3	(381)
	1	11,8	(171)	25,7	(373)	29,4	(426)	26,9	(390)
	5	11,1	(161)	24,2	(351)	27,4	(397)	26,0	(377)
	10	10,8	(157)	23,6	(342)	26,9	(390)	25,7	(373)
	25	10,5	(152)	22,8	(331)	26,1	(379)	25,2	(366)
20 °C 68 °F	50	10,2	(148)	22,2	(322)	25,3	(367)	24,9	(361)
	100	9,9	(144)	21,6	(313)	24,5	(355)	24,5	(355)
	1	10,9	(158)	23,8	(345)	28,6	(415)	25,0	(363)
	5	10,3	(149)	22,3	(323)	26,8	(389)	24,2	(351)
	10	10,0	(145)	21,7	(315)	26,1	(379)	23,9	(347)
30 °C 86 °F	25	9,6	(139)	21,0	(305)	25,3	(367)	23,5	(341)
	50	9,4	(136)	20,4	(296)	24,5	(355)	23,1	(335)
	100	9,1	(132)	19,9	(289)	23,7	(344)	22,8	(331)
	1	9,3	(135)	20,2	(293)	24,3	(352)	21,7	(315)
	5	8,7	(126)	18,9	(274)	22,8	(331)	20,9	(303)
40 °C 104 °F	10	8,5	(123)	18,4	(267)	22,0	(319)	20,6	(299)
	25	8,2	(119)	17,8	(258)	21,3	(309)	20,2	(293)
	50	7,9	(115)	17,3	(251)	20,7	(300)	19,9	(289)
	100	7,7	(112)	16,8	(244)	20,0	(290)	19,7	(286)
	1	7,9	(115)	17,1	(248)	20,5	(297)	18,6	(270)
50 °C 122 °F	5	7,4	(107)	16,0	(232)	19,2	(278)	18,0	(261)
	10	7,2	(104)	15,6	(226)	18,7	(271)	17,7	(257)
	25	6,9	(100)	15,0	(218)	18,0	(261)	17,3	(251)
	50	6,7	(97)	14,6	(212)	17,5	(254)	17,1	(248)
	100	6,5	(94)	14,1	(205)	16,8	(244)	16,8	(244)
60 °C 140 °F	1	6,7	(97)	14,5	(210)	17,5	(254)	15,9	(231)
	5	6,2	(90)	13,5	(196)	16,2	(235)	15,3	(222)
	10	6,0	(87)	13,1	(190)	15,7	(228)	15,1	(219)
	25	5,8	(84)	12,6	(183)	15,2	(220)	14,7	(213)
	50	5,6	(81)	12,2	(177)	14,7	(213)	14,5	(210)
70 °C 158 °F	100	5,5	(80)	11,9	(173)	14,1	(205)	14,3	(207)
	1	5,6	(81)	12,2	(177)	14,7	(213)	13,5	(196)
	5	5,2	(75)	11,4	(165)	13,7	(199)	13,0	(189)
	10	5,1	(74)	11,0	(160)	13,2	(191)	12,7	(184)
	25	4,9	(71)	10,6	(154)	12,6	(183)	12,4	(180)
75 °C 167 °F	50	4,7	(68)	10,3	(149)	12,1	(175)	12,2	(177)
	1	4,7	(68)	10,3	(149)	12,4	(180)	11,3	(164)
	5	4,4	(64)	9,6	(139)	11,4	(165)	10,9	(158)
	10	4,2	(61)	9,2	(133)	11,1	(161)	10,7	(155)
	25	3,7	(54)	8,0	(116)	9,6	(139)	10,4	(151)
80 °C 176 °F	50	3,1	(45)	6,8	(99)	8,1	(117)	10,2	(148)
	1	4,3	(62)	9,4	(136)	11,7	(170)	10,4	(151)
	5	4,0	(58)	8,7	(126)	10,8	(157)	9,9	(144)
	10	3,7	(54)	8,0	(116)	10,0	(145)	9,7	(141)
	25	3,0	(44)	6,4	(93)	8,0	(116)	9,5	(138)
90 °C 194 °F	50	2,5	(36)	5,4	(78)	6,7	(97)	9,3	(135)
	1	4,0	(58)	8,6	(125)	10,4	(151)	9,5	(138)
	5	3,5	(51)	7,7	(112)	9,2	(133)	9,0	(131)
	10	3,0	(44)	6,5	(94)	7,8	(113)	8,9	(129)
	25	2,4	(35)	5,2	(75)	6,2	(90)	8,6	(125)
90 °C 194 °F	1	3,3	(48)	7,2	(104)	8,7	(126)	7,8	(113)
	5	2,3	(33)	5,1	(74)	6,0	(87)	7,4	(107)
	10	2,0	(29)	4,3	(62)	5,1	(74)	7,3	(106)

SDR = Standard Dimension Ratio (diameter/wall thickness ratio)
 S = single layer
 MF = multilayer faser
 MF RP = multilayer 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 & aquatherm blue pipe pipe systems for the application in potable water and heating	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 an fabrication of manifolds and special components	Ord.-No.: E18198

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