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2017



PRODUCT CATALOGUE 2017

NEW:
aquatherm
Prefabrication
page 6



aquatherm

state of the pipe



NEW ARTICLES SINCE THE LAST VERSION

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aquatherm green pipe		
32	13606	aquatherm green pipe red.-T-piece, socket- & butt welding, SDR 7.4 160 mm
32	13607	aquatherm green pipe red.-T-piece, socket- & butt welding, SDR 11 160 mm
35	2513606	aquatherm blue pipe red.-T-piece socket- & butt welding
45	15012-15027	Flange adapter incl. flange PN6 32-125 mm
45	15026	Fitting 125mm with Flange adapter 110mm incl. flange PN6
45	15031-15039	Flange adapter incl. flange PN6 160-250 mm
69	41489-41499	Electrical drive for ball valve, 20-63mm, 230V
69	41589-41599	Electrical drive for ball valve, 20-63mm 24V
69	98900-98903	Extension for ball valve, 100mm
70	41603-41608	Electrical drive for ball valve, 90-160mm, 230V
70	41703-41708	Electrical drive for ball valve, 90-160mm, 24V
70	98904-98906	Extension for ball valve, 150mm
71	2041820-2541830	aquatherm blue pipe Shut-off valve with lever 75-160 mm
71	2041834-2541842	aquatherm blue pipe Shut-off valve with drive 200-315mm
72	2041920-2541942	aquatherm blue pipe Non-return valve 75-125mm
42	16175-16300	aquatherm green pipe aquatherm weld-on saddle 75/40 mm-400-630/63 mm

aquatherm Tools

98	50890	hot tapping tool for 40 + 63 mm
98	50891	Adapter for ball valve 40 mm
98	50892	Adapter for ball valve 63 mm
98	50893	PP-milling cutter 40 mm
98	50894	PP-milling cutter 63 mm
99	50760-50773	aquatherm weld-on saddle tool, 75x40mm - 400-630x63 mm

aquatherm Prefabrication

106	7270729-7270743	aquatherm green pipe two-sided with flange adapter and loose flange 5.8 m SDR 9 160-355mm
106	7310229-7310247	aquatherm green pipe two-sided with flange adapter and loose flange 5.8 m SDR 11 160-450 mm
106	8370129-8370147	aquatherm blue pipe two-sided with flange adapter and loose flange 5.8 m SDR 11 160-450 mm
106	8570129-8570137	aquatherm blue pipe ot two-sided with flange adapter and loose flange 5.8 m SDR 11 160-250 mm
106	8470129-8470153	aquatherm blue pipe two-sided with flange adapter and loose flange 5.8 m SDR 17,6 160-630 mm
106	7270730-7270744	aquatherm green pipe two-sided with flange adapter and loose flange 11.6 m SDR 9 160-355 mm
106	7310230-7310248	aquatherm green pipe two-sided with flange adapter and loose flange 11.6 m SDR 11 160-450 mm
106	8370130-8370148	aquatherm blue pipe two-sided with flange adapter and loose flange 11.6 m SDR 11 160-450 mm
106	8570130-8570138	aquatherm blue pipe ot two-sided with flange adapter and loose flange 11.6 m SDR 11 160-250 mm
106	8470130-8470154	aquatherm blue pipe two-sided with flange adapter and loose flange 11.6 m SDR 17,6 160-630 mm
106	7270829-7310343	aquatherm green pipe one-sided with flange adapter and loose flange 5.8 m SDR 9 160-355 mm
106	7310329-7310347	aquatherm green pipe one-sided with flange adapter and loose flange 5.8 m SDR 11 160-450 mm
106	8370329-8370347	aquatherm blue pipe one-sided with flange adapter and loose flange 5.8 m SDR 11 160-450 mm
106	8570329-8570337	aquatherm blue pipe ot one-sided with flange adapter and loose flange 5.8 m SDR 11 160-250 mm
106	8470329-8470353	aquatherm blue pipe one-sided with flange adapter and loose flange 5.8 m SDR 17,6 160-630 mm
107	7270830-7270844	aquatherm green pipe one-sided with flange adapter and loose flange 11.6 m SDR 9 160-355 mm
107	7310330-7310348	aquatherm green pipe one-sided with flange adapter and loose flange 11.6 m SDR 11 160-450 mm

DELETED & MODIFIED ARTICLES SINCE THE LAST VERSION

Page Article-No. Article

aquatherm green pipe		
45	20120	aquatherm green pipe sound isolation cover
aquatherm blue pipe		
36	2513830	aquatherm blue pipe Red.-T-piece 560/355 mm
36	2513848	aquatherm blue pipe Red.-T-piece 630/355mm

107	8370330-8370348	aquatherm blue pipe one-sided with flange adapter and loose flange 11.6 m SDR 11 160-450 mm
107	8570330-8570338	aquatherm blue pipe ot one-sided with flange adapter and loose flange 11.6 m SDR 11 160-250 mm
107	8470330-8470354	aquatherm blue pipe one-sided with flange adapter and loose flange 11.6 m SDR 17,6 160-630 mm
107	7212130-7212144	aquatherm green pipe elbow 90° SDR 9 160-355 mm
107	7312131-7312149	aquatherm green pipe elbow 90° SDR 11 160-450 mm
107	8312131-8312149	aquatherm blue pipe elbow 90° SDR 11 160-450 mm
107	8512131-8512139	aquatherm blue pipe ot elbow 90° SDR 11 160-250 mm
107	8412130-8412154	aquatherm blue pipe elbow 90° SDR 17,6 160-630 mm
108	7470729-7470743	aquatherm green pipe ti two-sided with flange adapter and loose flange 5.8 m SDR 9 160-355 mm
108	8770129-8770143	aquatherm blue pipe ti two-sided with flange adapter and loose flange 5.8 m SDR 11 160-355 mm
108	8970129-8970137	aquatherm blue pipe ot ti two-sided with flange adapter and loose flange 5.8 m SDR 11 160-250 mm
108	8870129-8870143	aquatherm blue pipe ti two-sided with flange adapter and loose flange 5.8 m SDR 11 160-355 mm
108	7470730-7470744	aquatherm green pipe ti two-sided with flange adapter and loose flange 11.6 m SDR 9 160-355 mm
108	8770130-8770144	aquatherm blue pipe ti two-sided with flange adapter and loose flange 11.6 m SDR 11 160-355 mm
108	8970130-8970138	aquatherm blue pipe ot ti two-sided with flange adapter and loose flange 11.6 m SDR 11 160-250 mm
108	8870130-8870144	aquatherm blue pipe ti two-sided with flange adapter and loose flange 11.6 m SDR 17,6 160-355 mm
108	7470829-7470843	aquatherm green pipe ti one-sided with flange adapter and loose flange 5.8 m SDR 9 160-355 mm
108	8770329-8770343	aquatherm blue pipe ti one-sided with flange adapter and loose flange 5.8 m SDR 11 160-355 mm
108	8970329-8970337	aquatherm blue pipe ot ti one-sided with flange adapter and loose flange 5.8 m SDR 11 160-250 mm
108	8870329-8870343	aquatherm blue pipe ti one-sided with flange adapter and loose flange 5.8 m SDR 17,6 160-355 mm
109	7470830-7470844	aquatherm green pipe ti one-sided with flange adapter and loose flange 11.6 m SDR 9 160-355 mm
109	8770330-8770344	aquatherm blue pipe ti one-sided with flange adapter and loose flange 11.6 m SDR 11 160-355 mm
109	8970330-8970338	aquatherm blue pipe ot ti one-sided with flange adapter and loose flange 11.6 m SDR 11 160-250 mm
109	8870330-8870344	aquatherm blue pipe ti one-sided with flange adapter and loose flange 11.6 m SDR 17,6 160-355 mm
109	7412130-7412144	aquatherm green pipe ti elbow 90° SDR 9 160-355mm
109	8712131-8712145	aquatherm blue pipe ti elbow 90° SDR 11 160-355mm
109	8912131-8912139	aquatherm blue pipe ot ti elbow 90° SDR 11 160-250mm
109	8812130-8812144	aquatherm blue pipe ti elbow 90° SDR 17,6 160-355mm

aquatherm ti

75	1370743	aquatherm green pipe MF ti SDR 9 355 mm (length á 5.8 m)
75	1370744	aquatherm green pipe MF ti SDR 9 355 mm (length á 11.6 m)
76	1312544	aquatherm green pipe ti elbow 45° SL 500 SDR 9 355 mm
76	2712526	aquatherm blue pipe ti elbow 45° SL 500 SDR 17,6 125 mm
77	1312144	aquatherm green pipe ti elbow 90° SL 1000 SDR 9 355 mm
77	2712126	aquatherm blue pipe ti elbow 90° SL 1000 SDR 17,6 125 mm
77	1313144	aquatherm green pipe ti branch SDR 9 355 mm
77	2713126	aquatherm blue pipe ti branch SDR 17,6 125 mm
78	1318144	aquatherm green pipe ti cross-over branch SDR 9 355 mm
78	2718126	aquatherm blue pipe ti cross-over branch SDR 17,6 125 mm
79	2713256-2713260	aquatherm blue pipe ti red.-branch SL 1000 SDR 17,6 125 mm
80	1313436-1313466	aquatherm green pipe ti red.-branch SL 1500 SDR 9 355 mm
81	2718256-2718260	aquatherm blue pipe ti red. cross-over branch SDR 11 125 mm
82	1318436-1318466	aquatherm green pipe ti red. cross-over branch SDR 9 355 mm
85	1311304-1311306	aquatherm green pipe ti red. socket SDR 9 355 mm
86	1311305-1311307	aquatherm green pipe ti insulation-red. socket-set SDR 9 355 mm

aquatherm black system

144	81286	aquatherm black system magnet holder
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aquatherm grey pipe

97	79008	aquatherm grey pipe sound isolation cover
110	779534	aquatherm grey pipe radiator-T-connecting set
110	779536	aquatherm grey pipe radiator-T-connecting set
96	77010	aquatherm grey pipe corrugated pipe 16mm
96	77012	aquatherm grey pipe corrugated pipe 20mm

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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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 is 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 is lost.

no.:	new branding structure					Material / Glas fibre content GF[%]/ fire class. Acc. ISO 11925	article-no.
	brand name		appendix				
	company	system	Standard Dimension Ratio	structure of pipe	special feature of pipe		
1	aquatherm	green pipe	SDR 11	S		PP-R/GF0/E	10208 ... 10248
2	aquatherm	green pipe	SDR 7.4	S		PP-R/GF0/E	10806 ... 10908
3	aquatherm	green pipe	SDR 6	S		PP-R/GF0/E	10006 ... 10110
4	aquatherm	green pipe	SDR 7.4	MS			70806 ... 70856
5	aquatherm	green pipe	SDR 7.4	MF		PP-R/GF7/E	70708 ... 70738
6	aquatherm	green pipe	SDR 7.4	MF	UV	inliner like 5 with black PE-coating	70758 ... 70788
7	aquatherm	green pipe	SDR 9	MF	TI	inliner like 5 with PU-Insulation and black PE-casing	1370711 ... 1370738
8	aquatherm	green pipe	SDR 9	MF	RP	PP-RP/GF7/E	370712 ... 370744
9	aquatherm	green pipe	SDR 9	MF	RP UV	inliner like 8 with black PE-coating	370762 ... 370794
10	aquatherm	blue pipe	SDR 11	S		PP-R/GF0/E	2010208 ... 2010312
11	aquatherm	blue pipe	SDR 7.4 / SDR 11 / SDR 17.6	MF		PP-R/GF7/E	2070708 ... 2570154
12	aquatherm	blue pipe	SDR 7.4 / SDR 11	MF	UV	inliner like 11 with black PE-coating	2070162 ... 2070762
13	aquatherm	blue pipe	SDR 7.4 / SDR 11	MF	OT	inliner like 11 with EVOH O2-barrier	2170114 ... 2170712
14	aquatherm	blue pipe	SDR 7.4 / SDR11	MF	TI	inliner like 11 with PU-Insulation and black PE-casing	2270111 ... 2270142
15	aquatherm	blue pipe	SDR 7.4 / SDR11	MF	OT-TI	inliner like 13 with PU-insulation and black PE-casing	2470711 ... 2470138
16	aquatherm	red pipe	SDR 7.4	MF	HI	PP-R/GF7/B-s1,d0	4170130 ... 4170726
17	aquatherm	lilac pipe	SDR 7.4 / SDR11	S		PP-R/GF0/E	9010212 ... 9010808
18	aquatherm	black system				OT	
19	aquatherm	orange system		S		OT	
20	aquatherm	grey pipe					

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

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

fields of application									
potable water	HVACR	swimming pool	chemical fluids	recycled & reclaimed water	fire protection	compressed air	district heating	geothermal	shipbuilding sector
●	○	●	●	○		○	●	●	●
●	○	●	●	○		○	●	●	●
●	○	●	●	○		○	●	●	●
●	○	●	●	○		○	●	●	●
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●	○	●	●	○		○	●	●	●
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	●	●	●	○		●	●	●	●
					●				
				●					
	●								
	●								
●	○								

System recommended due to its technical advantages: ●
 Application of the system is suitable: ○



AQUATHERM PREFABRICATION - CUSTOM MADE

Time is money – a maxim coming true every day especially in the building industry. The plumbing and heating installation of each construction project is always a temporal and logistical challenge - not only for the architect and planner.

The realization at site is often a problem for the site managers. Neither the external circumstances nor the temporal requirements allow them to concern detailed with the construction of a complicated manifold.

In addition there are high costs for the temporary expenses and diverse problems at site, which in most cases can only be solved by higher expenses.

Now, aquatherm offers an alternative to its customers.

Save time and money

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

You only have to send us the respective drawings and / or sketches with specifications. We return the offer including material list and drawing. A qualified team of experienced technicians likes to assist you.

For detailed information referring "prefabrication" please contact our technical hotline: **+49 (0) 2722 950-200**, ask for our catalogue, **order no. E18198** or visit our website **www.aquatherm.de**



Assembly in the ...



... aquatherm manifold construction.



Loading and ...



... delivery direct to the construction site.

Form: special manifold

Manifold inquiry Heating/Cold Dia. 20-630 mm:

The offer and respective drawing, as well as one revision are free of charge. As of the second revision, incurred expenses will be invoiced acc. to time and effort involved.



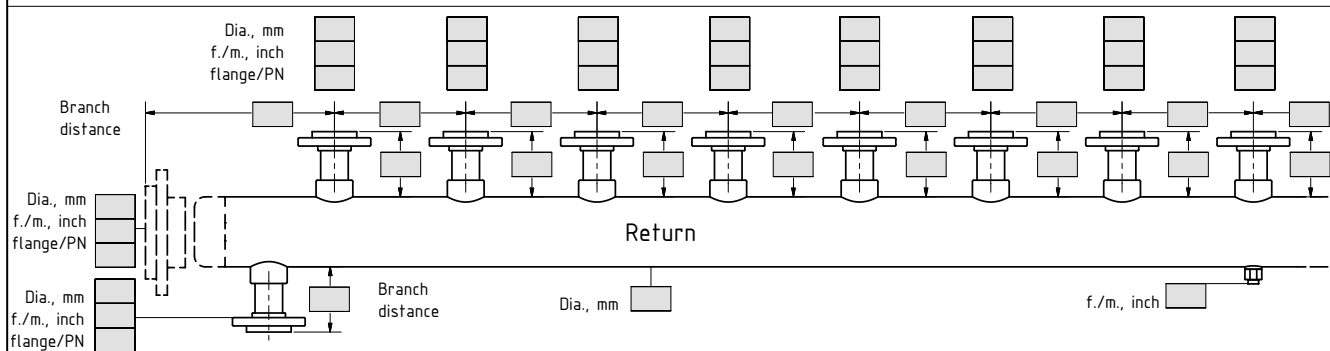
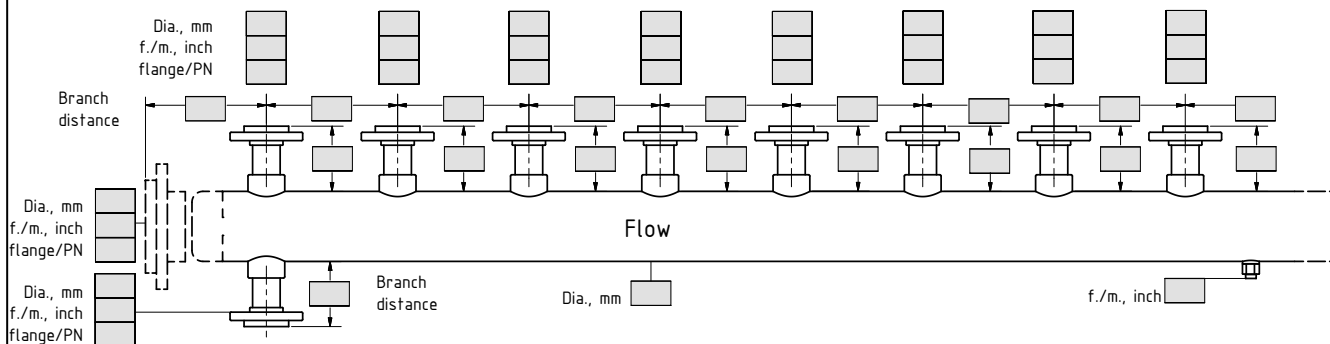
aquatherm
state of the pipe

Client: Date:

Project: Building owner:

Type of pipe/system: Total length of manifold,mm: Max. service overpressure:

Max. service temperature: Shut-off valves(type/brand): Remarks:.....



Manifold inquiry Sanitary Dia. 20-630 mm:

The offer and respective drawing, as well as one revision are free of charge. As of the second revision, incurred expenses will be invoiced acc. to time and effort involved.



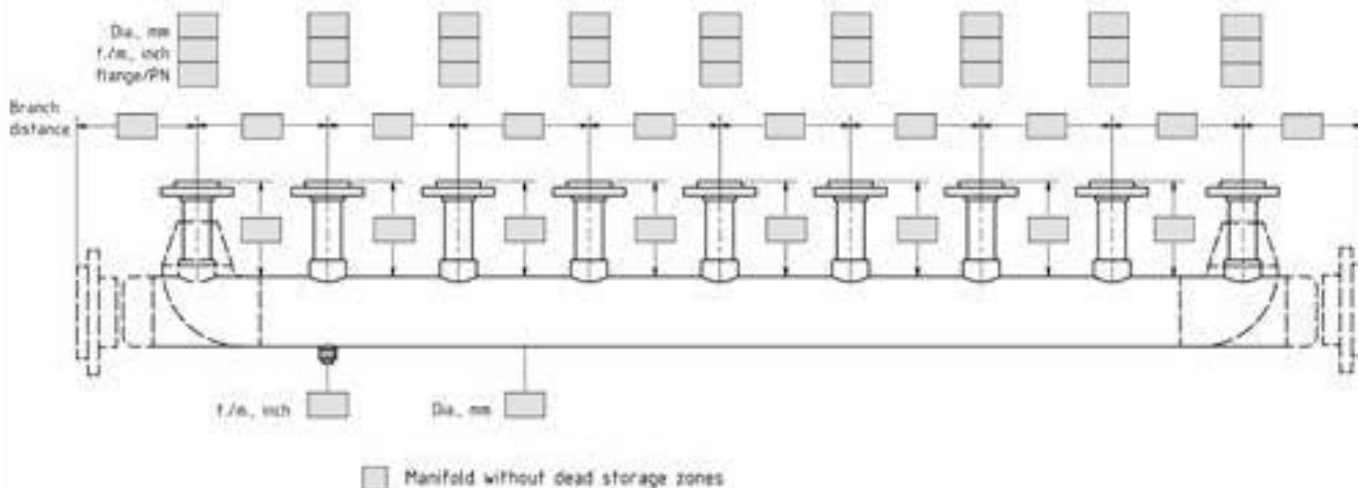
aquatherm
state of the pipe

Client: Date:




















Project: Building owner:

Type of pipe/system: Total length of manifold,mm: Max. service overpressure:

Max. service temperature: Shut-off valves(type/brand): Remarks:.....



Fields of application

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

short cuts structure of pipe

S	single
M	multilayer
MF	multilayer faser
MS	multilayer stabi
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
PB	polybutene
PE-RT	polyethylene with raised temperature resistance
PEX	cross-linked polyethylene
AL	aluminium

COLOUR SCHEMA

For the presentation of combinable products.

Systems			
•			Only applicable with aquatherm green pipe
•	•	•	Applicable with aquatherm green pipe , aquatherm blue pipe and aquatherm lilac pipe
	•		Only applicable with 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 system of aquatherm has proven its excellent technical suitability in more than 30 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. They are complemented by especially reinforced products: faser composite pipe SDR 7.4, aquatherm green pipe SDR 9 and stabi composite pipe SDR 7.4. 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

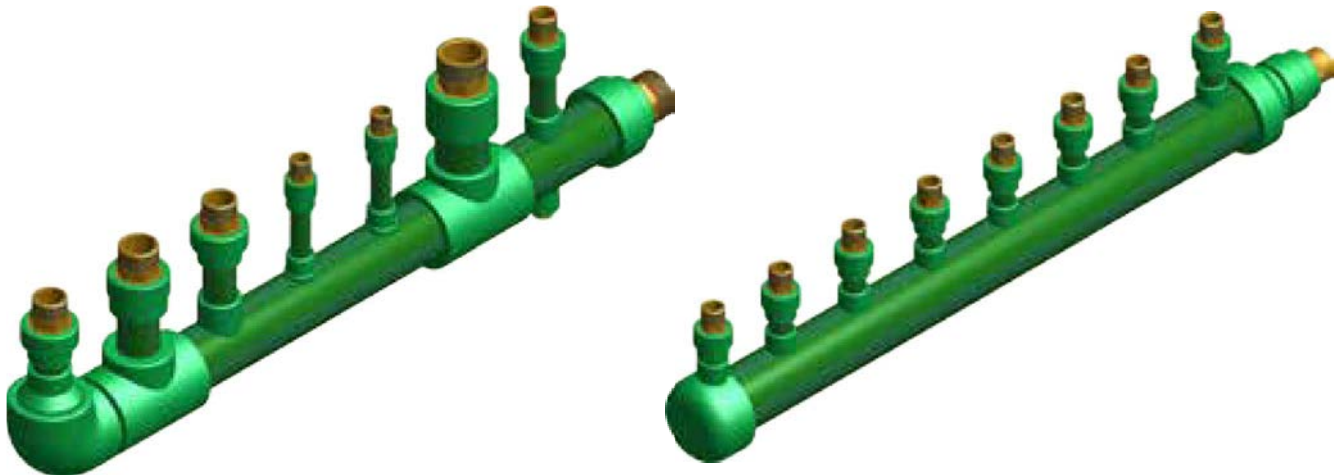
article-no.	old brand name	new brand name		Standard Dimension Ratio	structure of pipe	special feature of pipe	material
		company	system				
10208 . . . 10248	fusiotherm SDR11	aquatherm	green pipe	SDR 11	S		PP-R
10806 . . . 10818	fusiotherm SDR7.4	aquatherm	green pipe	SDR 7.4	S		PP-R
10006 . . . 10024	fusiotherm SDR6	aquatherm	green pipe	SDR 6	S		PP-R
70806 . . . 70824	fusiotherm stabi composite pipe	aquatherm	green pipe	SDR 7.4	MS		PP-R
70708 . . . 70738	fusiotherm faser composite pipe	aquatherm	green pipe	SDR 7.4	MF		PP-R
70758 . . . 70788	fusiotherm faser composite pipe UV	aquatherm	green pipe	SDR 7.4	MF	UV	PP-R
1370711 . . . 1370738	fusiotherm faser composite pipe ISO	aquatherm	green pipe	SDR 9	MF	TI	PP-R
370712 . . . 370744	aquatherm green pipe	aquatherm	green pipe	SDR 9	MF	RP	PP-RP
370762 . . . 370794	aquatherm green pipe	aquatherm	green pipe	SDR 9	MF	RP UV	PP-RP

MANIFOLD CONSTRUCTION - CUSTOM MADE

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

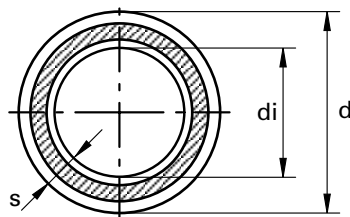
You only have to send us the respective drawings and / or sketches with specifications. We return the offer including material list and drawing. A qualified team of experienced technicians likes to assist you.

For detailed information referring "manifold construction" please contact our technical hotline: +49 (0) 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:	fusiolen 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

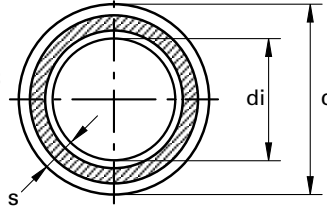


Mechanically stabilized through a fibre mix integrated in the middle layer of the fusiolen® PP-R.

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/pc	
9	<i>Socket welding</i>									
		370712	32	3,6	24,8	0,483	0,328	25	40	
		370714	40	4,5	31,0	0,754	0,511	32	40	
		370716	50	5,6	38,8	1,182	0,791	40	20	
		370718	63	7,1	48,8	1,869	1,261	50	20	
		370720	75	8,4	58,2	2,659	1,771	-	20	
		370722	90	10,1	69,8	3,825	2,553	65	12	
		370724	110	12,3	85,4	5,725	3,789	80	8	
		370726	125	14,0	97,0	7,386	4,886	100	4	
		<i>Butt welding</i>								
		370730	160	17,9	124,2	12,109	7,987	125	5.8	
		370734	200	22,4	155,2	18,908	12,488	150	5.8	
		370738	250	27,9	194,2	29,605	19,422	200	5.8	
		370742	315	35,2	244,6	46,966	30,876	250	5.8	
	370744	355	39,7	275,6	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
Packing Unit:	straight legths 4 m
Packing Unit:	PU in meter
Application:	

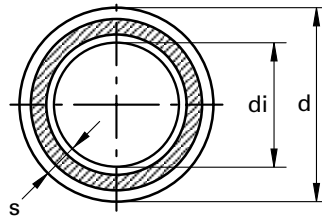


Mechanically stabilized through a fibre mix integrated in the middle layer of the fusiolen® PP-R.

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/pc
7.4	<i>Socket welding</i>								
	70708	20	2,8	14,4	0,163	0,157	15	100	
	70710	25	3,5	18,0	0,254	0,244	20	100	
	70712	32	4,4	23,2	0,423	0,391	25	40	
	70714	40	5,5	29,0	0,660	0,608	32	40	
	70716	50	6,9	36,2	1,029	0,948	40	20	
	70718	63	8,6	45,8	1,647	1,490	50	20	
	70720	75	10,3	54,4	2,323	2,120	-	20	
	70722	90	12,3	65,4	3,358	3,037	65	12	
	70724	110	15,1	79,8	4,999	4,546	80	8	
	70726	125	17,1	90,8	6,472	5,850	-	4	
	<i>Butt welding</i>								
	70730	160	21,9	116,2	10,599	9,559	125	5.8	
	70734	200	27,4	145,2	16,558	14,944	150	5.8	
	70738	250	34,2	181,6	25,901	23,312	175	5.8	
	315-355	<i>Dimensions 315 and 355 mm see aquatherm green pipe SDR 9 MF RP on page 10</i>							

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

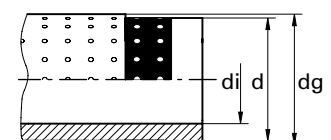
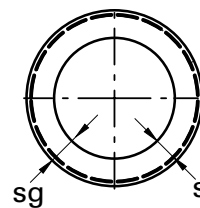


Resistant against UV-rays. Mechanically stabilized through a faser mix integrated in the middle layer of the fusiolen® PP-R.

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/pc
7.4	<i>Socket welding</i>								
	70758	20	2,8	14,4	0,163	0,210	15	100	
	70760	25	3,5	18,0	0,254	0,314	20	100	
	70762	32	4,4	23,2	0,423	0,485	25	40	
	70764	40	5,5	29,0	0,660	0,728	32	40	
	70766	50	6,9	36,2	1,029	1,101	40	20	
	70768	63	8,6	45,8	1,647	1,686	50	20	
	70770	75	10,3	54,4	2,323	2,347	-	20	
	70772	90	12,3	65,4	3,358	3,378	65	12	
	70774	110	15,1	79,8	4,999	5,054	80	8	
	70776	125	17,1	90,8	6,472	6,494	-	4	
	<i>Butt welding</i>								
	70780	160	21,9	116,2	10,599	9,859	100	5.8	
70784	200	27,4	145,2	16,550	15,273	150	5.8		
70788	250	34,2	181,6	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 11</i>							

aquatherm green pipe SDR 7.4 MS

- Structure of pipe:** MS = multilayer stabi
Material: fusiolen PP-R, aluminium
Pipe series: SDR 7.4/S 3.2
Standards: DIN 8077 / 78, DIN EN ISO 15874, ASTM F 2389, CSA B 137.11
Colour: green
Form supplied: 4 m straight lengths, also* in coils
Packing Unit: PU in meter

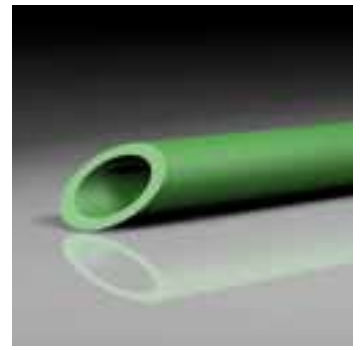
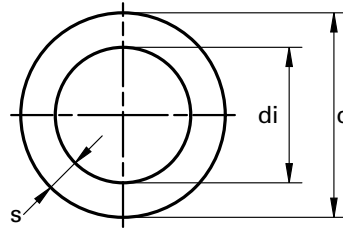


Mechanically stabilized through integrated aluminium-layer

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/pc
7.4	70806	16	2,2	11,6	0,106	0,144	12	100	
	70808	20	2,8	14,4	0,163	0,216	15	100	
	70810	25	3,5	18,0	0,254	0,296	20	100	
	70812	32	4,5	23,0	0,415	0,471	25	40	
	70814	40	5,6	28,8	0,651	0,670	32	40	
	70816	50	6,9	36,2	1,029	1,025	40	20	
	70818	63	8,7	45,6	1,632	1,530	50	20	
	70820	75	10,4	54,4	2,306	2,197	-	20	
	70822	90	12,5	65,4	3,317	3,226	65	12	
	70824	110	15,2	79,8	4,974	4,735	80	8	
	70856*	16	2,2	11,6	0,106	0,150	12	100	

aquatherm green pipe SDR 6 / 7.4 S

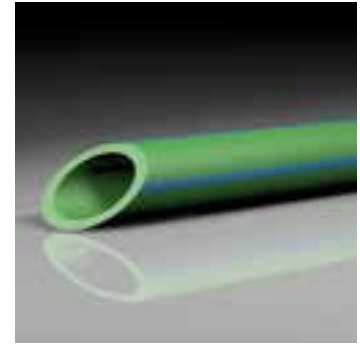
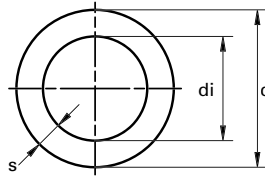
- Structure of pipe:** s (single)
- Material:** fusiolen PP-R
- Pipe series:** SDR 6/S 2.5 & SDR 7.4/S 3.2
- Standards:** DIN 8077, DIN 8078, DIN EN ISO 15874, ASTM F 2389, CSA B 137.11
- Colour:** green
- Form supplied:** 4 m straight lengths, also* in coils
- Packing Unit:** PU in meter
- Application:**



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

aquatherm green pipe SDR 11 S / MF

- Structure of pipe:** 20-355 mm = s (single)
400&450 mm = MF (multilayer faser)
- 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, also* in coils
ø 160-450 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/pc
					<i>Socket welding</i>				
	10208	20	1,9	16,2	0,206	0,108	15	100	
	10210	25	2,3	20,4	0,327	0,165	20	100	
	10212	32	2,9	26,2	0,539	0,261	25	40	
	10214	40	3,7	32,6	0,834	0,414	32	40	
	10216	50	4,6	40,8	1,307	0,641	40	20	
	10218	63	5,8	51,4	2,074	1,012	50	20	
	10220	75	6,8	61,4	2,959	1,411	65	20	
	10222	90	8,2	73,6	4,252	2,043	80	12	
	10224	110	10,0	90,0	6,359	3,026	-	8	
	10226	125	11,4	102,2	8,199	3,924	100	4	
11	10308*	20	1,9	16,2	0,206	0,108	15	100	
	10310*	25	2,3	20,4	0,327	0,165	20	100	
	10312*	32	2,9	26,2	0,539	0,261	25	50	
					<i>Butt welding</i>				
	10230	160	14,6	130,8	13,430	6,415	125	5,8	
	10234	200	18,2	163,6	21,010	9,992	150	5,8	
	10238	250	22,7	204,6	32,861	15,548	200	5,8	
	10242	315	28,6	257,8	52,172	24,664	250	5,8	
	10244	355	32,2	290,6	66,325	31,300	300	5,8	
	10246 ¹⁾	400	36,3	327,6	84,290	39,734	300	5,8	
	10248 ¹⁾	450	40,9	368,2	106,477	50,292	400	5,8	

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

aquatherm blue pipe

aquatherm blue pipe, our specialty for distributing cooling and heating in closed systems as well as in several industrial applications. It was developed in order to prevent corrosion in heating system pipes 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

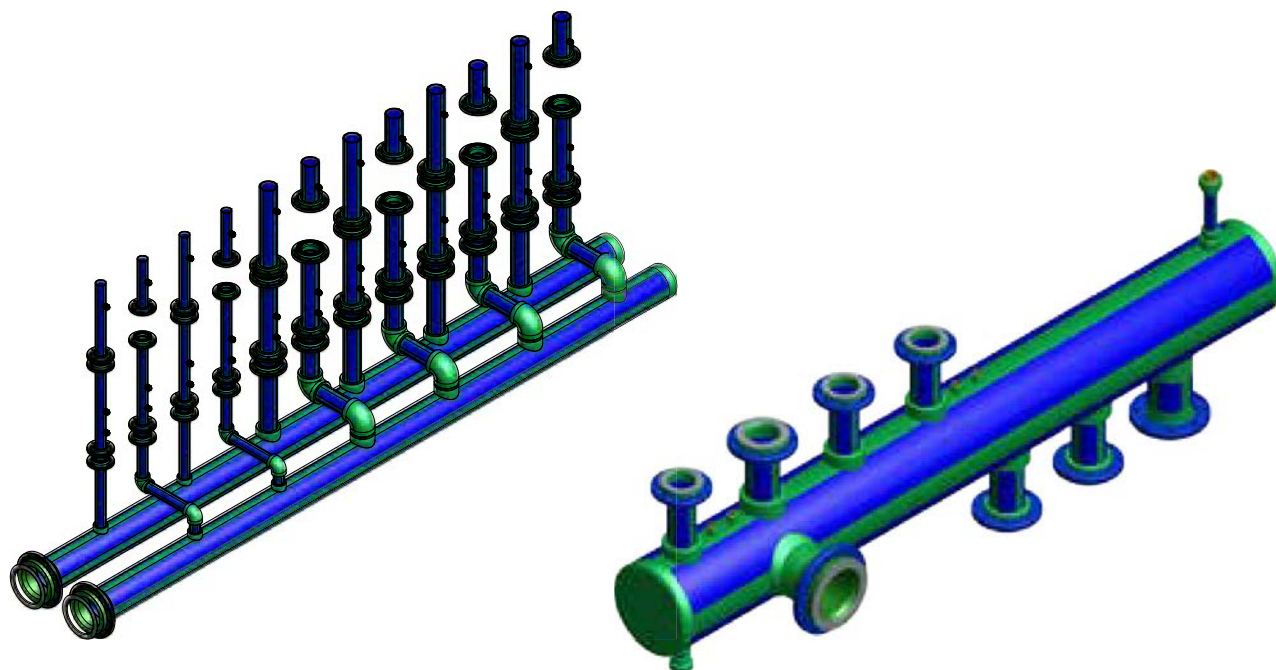
article-no.	old brand name	new brand name		Standard Dimension Ratio	structure of pipe	special feature of pipe	material
		company	system				
2010208 . . . 2010212	climatherm SDR11	aquatherm	blue pipe	SDR 11	S		PP-R
2070112 . . . 2070712	climatherm faser composite pipe SDR7.4/SDR11	aquatherm	blue pipe	SDR 7.4/SDR 11	MF		PP-R
2070162 . . . 2070762	climatherm faser composite pipe SDR7.4/SDR11/SDR 17.6 UV	aquatherm	blue pipe	SDR 7.4/SDR 11/SDR 17.6	MF	UV	PP-R
2170114 . . . 2170712	climatherm faser composite pipe SDR7.4/SDR11 OT	aquatherm	blue pipe	SDR 7.4/SDR 11	MF	OT	PP-R
2570130 . . . 2570154	climatherm faser composite pipe SDR17.6	aquatherm	blue pipe	SDR 17.6	MF		PP-R
2270111 . . . 2270142	climatherm faser composite pipe SDR7.4/SDR11 ISO	aquatherm	blue pipe	SDR 7.4/SDR 11	MF	TI	PP-R
2470711 . . . 2470126	climatherm faser composite pipe SDR7.4/SDR11 OT ISO	aquatherm	blue pipe	SDR 7.4/SDR 11	MF	OT-TI	PP-R

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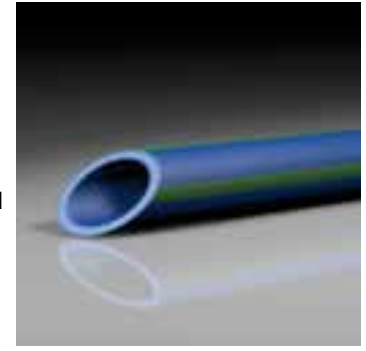
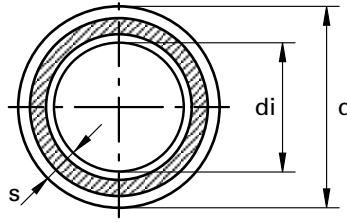
You only have to send us the respective drawings and / or sketches with specifications. We return the offer including material list and drawing. A qualified team of experienced technicians likes to assist you.

For detailed information referring "manifold construction" please contact our technical hotline: +49 (0) 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:	

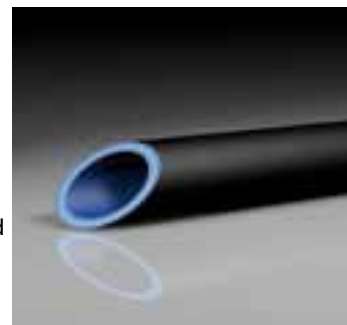
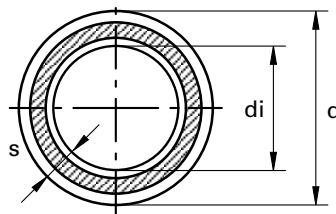


Mechanically stabilized through a fibre mix integrated in the middle layer of the fusiolen® PP-R.

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/pc	
<i>Socket welding</i>										
7,4	2070708	20	2,8	14,4	0,163	0,157	15	100		
	2070710	25	3,5	18,0	0,254	0,244	20	100		
	2070712	32	4,4	23,2	0,423	0,391	25	40		
11	2070112	32	2,9	26,2	0,539	0,275	25	40		
	2070114	40	3,7	32,6	0,834	0,435	32	40		
	2070116	50	4,6	40,8	1,307	0,674	40	20		
	2070118	63	5,8	51,4	2,074	1,065	50	20		
	2070120	75	6,8	61,4	2,959	1,485	65	20		
	2070122	90	8,2	73,6	4,252	2,150	80	12		
	2070124	110	10,0	90,0	6,359	3,185	-	8		
	2070126	125	11,4	102,2	8,199	4,130	100	4		
	<i>Butt welding</i>									
		2070130	160	14,6	130,8	13,430	6,751	125	5.8	
	2070134	200	18,2	163,6	21,010	10,515	150	5.8		
	2070138	250	22,7	204,6	32,861	16,363	200	5.8		
	2070142	315	28,6	257,8	52,172	25,958	250	5.8		
	2070144	355	32,2	290,6	66,29	32,941	300	5.8		
	2070146	400	36,3	327,6	84,290	41,818	300	5.8		
	2070148	450	40,9	368,2	106,477	52,930	400	5.8		
17,6	<i>Socket welding</i>									
	2570126	125	7,1	110,8	9,637	2,697	100	4		
	<i>Butt welding</i>									
	2570130	160	9,1	141,8	15,792	4,574	150	5.8		
	2570134	200	11,4	177,2	24,661	7,081	200	5.8		
	2570138	250	14,2	221,6	38,568	10,949	250	5.8		
	2570142	315	17,9	279,2	61,223	17,245	300	5.8		
	2570144	355	20,1	314,8	77,832	21,806	350	5.8		
	2570146	400	22,7	354,6	98,756	27,638	350	5.8		
	2570148	450	25,5	399,0	125,036	34,858	400	5.8		
	2570150	500	28,4	443,2	154,272	43,048	450	5.8		
	2570152	560	31,7	496,6	193,688	53,706	500	5.8		
	2570154	630	35,7	558,6	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

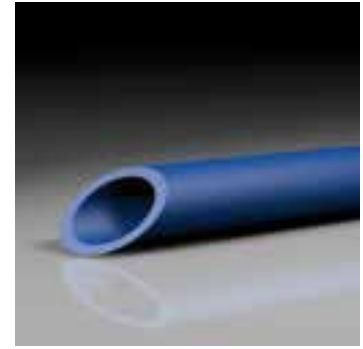
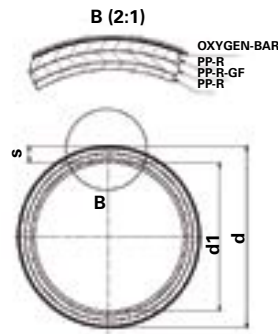
**Packing Unit:** PU in meter**Application:**

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/pc	
<i>Socket welding</i>										
7,4	2070758	20	2,8	14,4	0,163	0,210	15	100		
	2070760	25	3,5	18,0	0,254	0,314	20	100		
	2070762	32	4,4	23,2	0,423	0,484	20	40		
11	2070162	32	2,9	26,2	0,539	0,368	25	40		
	2070164	40	3,7	32,6	0,834	0,555	32	40		
	2070166	50	4,6	40,8	1,307	0,827	40	20		
	2070168	63	5,8	51,4	2,074	1,260	50	20		
	2070170	75	6,8	61,4	2,959	1,712	65	20		
	2070172	90	8,2	73,6	4,252	2,491	80	12		
	2070174	110	10,0	90,0	6,359	3,693	-	8		
	2070176	125	11,4	102,2	8,199	4,774	100	4		
	<i>Butt welding</i>									
		2070180	160	14,6	130,8	13,430	7,051	125	5.8	
	2070184	200	18,2	163,6	21,010	10,845	150	5.8		
	2070188	250	22,7	204,6	32,861	16,681	200	5.8		
	2070192	315	28,6	257,8	52,172	26,217	250	5.8		
	2070194	355	32,2	290,6	66,292	33,153	300	5.8		
	2070196	400	36,3	327,4	84,145	41,937	300	5.8		
	2070198	450	40,9	368,2	106,423	52,997	400	5.8		
17,6	2570180	160	9,1	141,8	15,784	4,707	150	5.8		
	2570184	200	11,4	177,2	24,649	7,201	200	5.8		
	2570188	250	14,2	221,6	38,549	11,006	250	5.8		
	2570192	315	17,9	279,2	61,193	17,174	300	5.8		
	2570194	355	20,1	314,8	77,793	21,647	350	5.8		
	2570196	400	22,7	354,6	98,707	27,339	350	5.8		
	2570198	450	25,5	399,0	124,973	34,454	400	5.8		
	2570200	500	28,4	443,2	154,195	42,525	450	5.8		
	2570202	560	31,7	496,6	193,590	52,994	500	5.8		
	2570204	630	35,7	558,6	244,947	66,976	500	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:

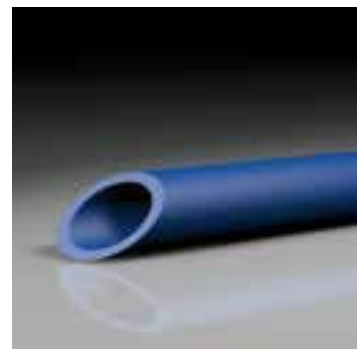
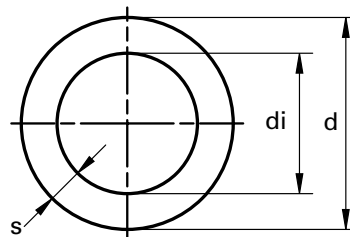


Oxygen tight by diffusion barrier. Mechanically stabilized through a fibre mix integrated in the middle layer of fusiolen® PP-R.

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/pc
<i>Socket welding</i>									
7,4	2170708	20	2,8	14,4	0,163	0,211	15	100	
	2170710	25	3,5	18,0	0,254	0,316	20	100	
	2170712	32	4,4	23,2	0,423	0,488	20	40	
11	2170114	40	3,7	32,6	0,834	0,562	32	40	
	2170116	50	4,6	40,8	1,307	0,838	40	20	
	2170118	63	5,8	51,4	2,074	1,279	50	20	
	2170120	75	6,8	61,4	2,959	1,739	65	20	
	2170122	90	8,2	73,6	4,252	2,533	80	12	
	2170124	110	10,0	90,0	6,359	3,752	-	8	
	2170126	125	11,4	102,2	8,199	4,857	100	4	
<i>Butt welding</i>									
	2170130	160	14,6	130,8	13,430	6,888	125	5.8	
	2170134	200	18,2	163,6	21,010	10,687	150	5.8	
	2170138	250	22,7	204,6	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, also* in coils
Packing Unit: PU in meter
Application:



SDR	Art.-No.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg]	DN	PU [m]	Price € m/pc
11	2010208	20	1,9	16,2	0,206	0,108	15	100	
	2010210	25	2,3	20,4	0,327	0,165	20	100	
	2010212	32	2,9	26,2	0,539	0,261	25	40	
	2010308*	20	1,9	16,2	0,206	0,108	15	100	
	2010310*	25	2,3	20,4	0,327	0,165	20	100	
	2010312*	32	2,9	26,2	0,539	0,261	25	0.5	

aquatherm lilac pipe


aquatherm lilac pipe was developed exclusively for the field of water recycling. In countries that are highly committed to the environment, like Australia and California, it is already standard to reduce daily water consumption by using recycled water when possible. Now lilac is also regarded in other countries as a standard colour for greywater pipes. For technical, commercial, agricultural or domestic applications, cost-effective process water is often required. In the private sector, water recycling-systems are increasingly used. Thanks to the long-lasting and corrosion-resistant material Polypropylene, the aquatherm lilac pipe is ideally suited for process water (grey/rainwater).

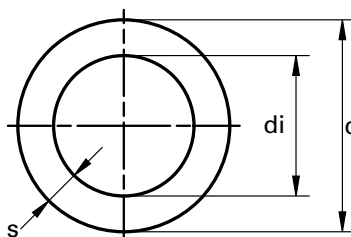
Pipe system made of polypropylene

for reclaimed

article-no.	old brand name	new brand name		Standard Dimension Ratio	structure of pipe	material
		company	system			
9010808 . . . 9010226	aquatherm lilac	aquatherm	lilac pipe	SDR 7,4/ SDR 11	S	PP-R

aquatherm lilac pipe SDR 7,4/11 S

Structure of pipe:	S (single)
Material:	fusiolen PP-R
Pipe series:	SDR 7.4 / S3.5 & SDR 11 / S 5
Standards:	DIN 8077/78, DIN EN ISO 15874, ASTM F 2389, CSA B 137.11, NSF 14
Colour:	lilac
Form supplied:	4 m straight lengths
Packing Unit:	PU in meter
Application:	

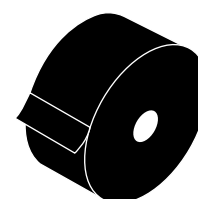


SDR	Art.-No.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg]	DN	PU [m]	Price € m/pc
7,4	9010808	20	2,8	14,4	0,163	0,149	15	100	
	9010810	25	3,5	18,0	0,254	0,232	20	100	
11	9010212	32	2,9	26,2	0,539	0,261	25	40	
	9010214	40	3,7	32,6	0,834	0,414	32	40	
	9010216	50	4,6	40,8	1,307	0,641	40	20	
	9010218	63	5,8	51,4	2,074	1,012	50	20	
	9010220	75	6,8	61,4	2,959	1,411	65	20	
	9010222	90	8,2	73,6	4,252	2,042	80	12	
	9010224	110	10,0	90,0	6,359	3,026	-	8	
	9010226	125	11,4	102,2	8,199	3,924	100	4	

ADHESIVE TAPE TO PROTECT AGAINST UV-RADIATION

for aquatherm MF UV pipes

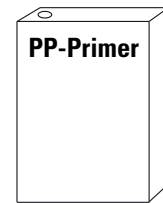
Art.-No.	Dimension	PU	Price € m/pkg
10871	50mm x 10m	1m/Pckg	



AQUATHERM PP-PRIMER

for aquatherm-PP pipes

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50230		1l		
50231		10l		



AQUATHERM SPECIAL TOP COAT

for aquatherm PP-pipes

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50232	black	2,5l		
50233	white	2,5l		

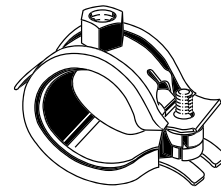


PIPE CLAMPS

suitable for sliding and fixed point installation

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

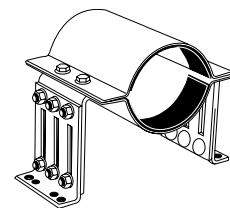
Art.-No.	for pipe dimension [mm]	PU	Box unit	Price € m/pc
60516	16	50		
60520	20	50		
60525	25	50		
60532	32	50		
60540	40	50		
60550	50	50		
60563	63	25		
60575	75	25		
60590	90	25		
60594	110	25		
60595	125	25		
60597	160	25		
60650	200	1		
60654	250	1		
60658	315	1		
60660	355	1		



PIPE CLAMPS

suitable for fixed point installation

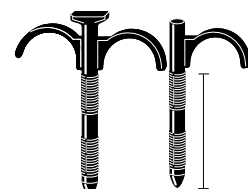
Art.-No.	for pipe dimension [mm]	PU	Box unit	Price € m/pc
60768	160	1		
60770	200	1		
60774	250	1		
60778	315	1		
60780	355	1		
60782	400	1		
60784	450	1		
60786	500	1		
60788	560	1		
60790	630	1		



PIPE FASTENING BOW

suitable for ø 16-32 mm pipes

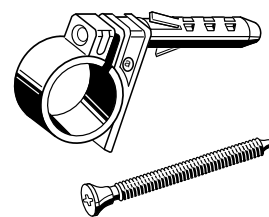
Art.-No.	for pipe dimension	PU	Box unit	Price € m/pc
60604	1-fold - length = 45mm	50		
60606	1-fold - length = 75mm	50		
60608	2-fold - length = 45mm	50		
60610	2-fold - length = 75 mm	50		



PLASTIC PIPE CLAMPS

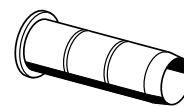
suitable for \varnothing 16-40 mm pipes

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



PIPE SUPPORT

Art.-No.	for pipe dimension	PU	Box unit	Price € m/pc
85110	\varnothing 16x2,2mm - \varnothing 11,4mm	10		
10186	\varnothing 16x2,7mm - \varnothing 10,4mm	10		



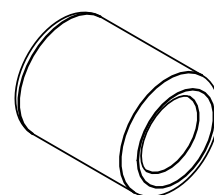
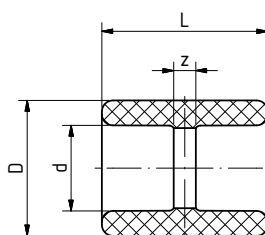
SOCKET

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

Material: Fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	Dimension d [mm]	l	z	D	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7.4 9 11 17.6	11006	16	30,00	4,00	24,50	0,008	•	10		
	11008	20	32,00	3,00	29,50	0,011	• • •	10	1500	
	11010	25	35,00	3,00	34,00	0,013	• • •	10	1000	
	11012	32	40,50	4,50	43,00	0,026	• • •	5	600	
	11014	40	47,50	6,50	52,00	0,044	• • •	5	400	
	11016	50	53,00	6,00	68,00	0,084	• • •	5	200	
	11018	63	60,50	5,50	84,00	0,139	• • •	1	100	
	11020	75	66,50	6,50	100,00	0,226	• • •	1	70	
	11022	90	72,50	6,50	120,00	0,343	• • •	1	50	
	11024	110	82,00	8,00	147,00	0,581	• • •	1	30	
	11026	125	92,00	12,00	167,00	0,845	• • •	1	25	

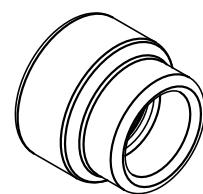
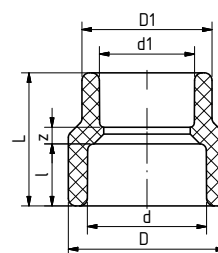
REDUCING SOCKET FEMALE/FEMALE

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

Material: Fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	Dimension d [mm]	Dimension d1 [mm]	L	l	z	D	D1	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>double-sided socket welding</i>													
6 7.4 9 11 17.6	11222	40	32	44,00	20,50	5,50	52,00	43,00	0,035	• • •	1		
	11228	50	32	53,00	23,50	11,50	68,00	43,00	0,066	• • •	1		
	11230	50	40	50,50	23,50	6,25	68,00	52,00	0,069	• • •	1		
	11236	63	40	61,00	27,50	13,00	84,00	52,00	0,115	• • •	1		
	11238	63	50	56,00	27,50	5,00	84,00	68,00	0,120	• • •	1		
	11240	75	50	60,00	30,00	6,50	100,00	68,00	0,178	• • •	1		
	11242	75	63	62,50	30,00	5,00	100,00	84,00	0,185	• • •	1		
	11252	90	63	74,00	33,00	13,50	120,00	84,00	0,276	• • •	1		
	11253	90	75	69,00	33,00	6,00	120,00	100,00	0,297	• • •	1		
	11257	110	75	85,00	37,00	18,00	147,00	100,00	0,516	• • •	1		
	11259	110	90	77,25	37,00	7,25	147,00	120,00	0,520	• • •	1		
	11263	125	90	91,00	40,00	18,00	167,00	120,00	0,749	• • •	1		
	11265	125	110	87,00	40,00	10,00	167,00	147,00	0,726	• • •	1		

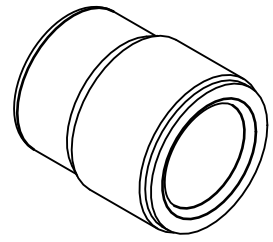
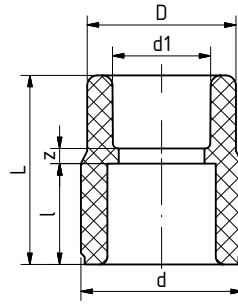
REDUCING SOCKET, SOCKET WELDING

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	Dimension d [mm]	Dimension d1 [mm]	l	L	z	D	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>double-sided socket welding</i>												
	11109	20	16	14,50	39,00	11,50	24,50	0,009	•	10	2000	
	11110	25	16	16,00	38,00	9,00	26,00	0,012	•	10	2000	
	11112	25	20	16,00	38,50	8,00	29,50	0,012	• • •	10	1500	
	11114	32	20	18,00	37,50	5,00	29,50	0,015	• • •	5	1000	
	11116	32	25	18,00	38,00	4,00	34,00	0,016	• • •	5	1000	
	11118	40	20	20,50	45,00	10,00	29,50	0,025	• • •	5	750	
	11120	40	25	20,50	50,00	13,50	34,00	0,028	• • •	5	600	
	11122	40	32	20,50	50,00	11,50	43,00	0,032	• • •	5	500	
	11124	50	20	23,50	55,00	17,00	29,50	0,045	• • •	5	500	
	11126	50	25	23,50	55,00	15,50	34,00	0,044	• • •	5	500	
	11128	50	32	23,50	54,00	12,50	43,00	0,048	• • •	5	350	
	11130	50	40	23,50	53,00	9,00	52,00	0,053	• • •	5	300	
	11131	63	20	27,50	65,00	23,00	29,50	0,073	• • •	1	200	
	11132	63	25	27,50	65,00	21,50	34,00	0,071	• • •	1	200	
6	11134	63	32	27,50	62,00	16,50	43,00	0,080	• • •	1	200	
7,4	11136	63	40	27,50	64,50	16,50	52,00	0,089	• • •	1	200	
9	11138	63	50	27,50	63,50	12,50	68,00	0,107	• • •	1	150	
11	11139	75	40	30,00	69,50	19,00	52,00	0,131	• • •	1		
17,6	11140	75	50	30,00	63,00	9,50	68,00	0,141	• • •	1		
	11142	75	63	30,00	71,00	13,50	84,00	0,170	• • •	1		
	11143	75	20	30,00	65,50	21,00	34,50	0,113	• • •	1		
	11144	75	25	30,00	65,50	19,50	34,50	0,111	• • •	1		
	11145	75	32	30,00	69,50	21,50	52,00	0,140	• • •	1		
	11151	90	50	33,00	75,00	18,50	68,00	0,193	• • •	1		
	11152	90	63	33,00	78,00	17,50	84,00	0,224	• • •	1		
	11153	90	75	33,00	81,50	18,50	100,00	0,273	• • •	1		
	11155	110	63	37,00	86,00	21,50	84,00	0,356	• • •	1		
	11157	110	75	37,00	89,00	22,00	100,00	0,383	• • •	1		
	11159	110	90	37,00	99,00	29,00	120,00	0,500	• • •	1		
	11161	125	75	40,00	101,00	31,00	100,00	0,518	• • •	1		
	11163	125	90	40,00	99,00	26,00	120,00	0,588	• • •	1		
	11165	125	110	40,00	112,00	35,00	147,00	0,832	• • •	1		

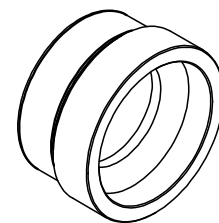
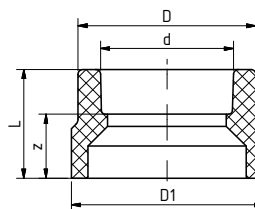
REDUCING SOCKET, SOCKET & BUTT WELDING

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	Dimension d [mm]	L	z	D	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>onesided socket welding, other side butt welding</i>											
7,4	11174	160	110	90,00	53,00	147,00	0,730	•	1		
	11176	160	125	90,00	50,00	167,00	0,837	•	1		
	11182	200	125	135,00	95,00	167,00	1,644	•	1		
9	311174	160	110	90,00	53,00	147,00	0,730	•	1		
	311176	160	125	90,00	50,00	167,00	0,868	•	1		
	311182	200	125	135,00	95,00	167,00	1,599	•	1		
11	11175	160	110	90,00	53,00	147,00	0,655	• •	1		
	11177	160	125	90,00	50,00	167,00	0,636	• •	1		
	11183	200	125	135,00	95,00	167,00	1,341	• •	1		
17,6	2511174	160	110	90,00	53,00	147,00	0,618	•	1		
	2511176	160	125	90,00	50,00	167,00	0,628	•	1		
	2511182	200	125	135,00	95,00	167,00	1,055	•	1		

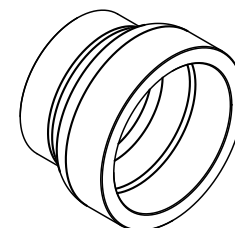
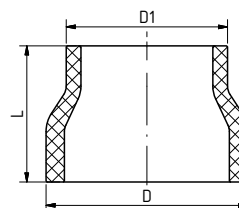
REDUCING SOCKET, BUTT WELDING

Systems: aquatherm green pipe,
aquatherm blue pipe

Material: Fusiolen® PP-R & PP-RP

Standard: DIN 16962, DIN EN ISO 15874

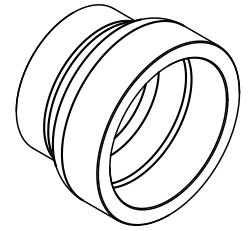
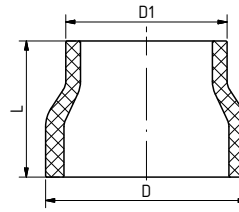
Colour: green



SDR	Art.-No.	D	D1	L	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>double-sided butt welding</i>									
7,4	11184	200	160	135,00	1,638	•	1		
	11188	250	160	172,50	2,881	•	1		
	11190	250	145,20	172,50	3,250	•	1		
9	311184	200	160	135,00	1,588	•	1		
	311188	250	160	172,50	2,900	•	1		
	311190	250	200	172,50	3,206	•	1		
	311192	315	200	225,00	6,350	•	1		
	311194	315	250	225,00	7,050	•	1		
	311196	355	250	170,00	5,640	•	1		
311198	355	315	160,00	4,940	•	1			
11	11185	200	160	135,00	1,206	• •	1		
	11189	250	160	172,50	2,313	• •	1		
	11191	250	200	172,50	2,389	• •	1		
	11193	315	200	225,00	4,389	• •	1		
	11195	315	250	225,00	4,786	• •	1		
	11197	355	250	170,00	4,431	• •	1		
	11199	355	315	160,00	4,532	• •	1		
	11201	400	250	152,00	7,475	• •	1		
	11203	400	315	122,00	6,095	• •	1		
	11204	400	355	110,00	5,520	• •	1		
11206	450	315	142,00	9,200	• •	1			
11207	450	355	132,00	7,590	• •	1			
11208	450	400	122,00	7,590	• •	1			

REDUCING SOCKET, BUTT WELDING

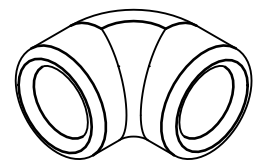
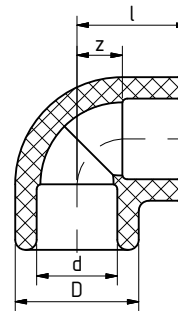
Systems: aquatherm blue pipe
Material: Fusiolen® PP-R
Standard: DIN 16962, DIN EN ISO 15874
Colour: green



SDR	Art.- No.	D	D1	L	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>double-sided butt welding</i>									
17,6	2511184	200	160	135,00	1,012	•	1		
	2511188	250	160	172,50	1,500	•	1		
	2511190	250	200	172,50	1,338	•	1		
	2511193	315	200	225,00	4,141	•	1		
	2511195	315	250	225,00	3,420	•	1		
	2511197	355	250	245,00	3,099	•	1		
	2511199	355	315	160,00	3,108	•	1		
	2511201	400	250	152,00	4,482	•	1		
	2511203	400	315	122,00	3,366	•	1		
	2511204	400	355	112,00	3,049	•	1		
	2511206	450	315	142,00	4,891	•	1		
	2511207	450	355	132,00	4,688	•	1		
	2511208	450	400	122,00	4,287	•	1		
	2511209	500	315	172,00	8,100	•	1		
	2511210	500	355	152,00	6,500	•	1		
	2511211	500	400	142,00	6,700	•	1		
	2511212	500	450	122,00	5,500	•	1		
	2511213	560	400	162,00	9,000	•	1		
	2511214	560	450	142,00	8,600	•	1		
2511215	560	500	132,00	7,600	•	1			
2511216	630	400	192,00	15,100	•	1			
2511217	630	450	172,00	13,700	•	1			
2511218	630	500	152,00	11,000	•	1			
2511219	630	560	132,00	9,000	•	1			

ELBOW 90°

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



SDR	Art.- No.	Dimension d [mm]	z	l	D	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>										
6 7,4 9 11 17,6	12106	16	9,00	22,00	24,50	0,010	•	10	2000	
	12108	20	11,00	25,50	27,00	0,018	• • •	10	1200	
	12110	25	13,50	29,50	34,00	0,023	• • •	10	800	
	12112	32	17,00	35,00	43,00	0,043	• • •	5	400	
	12114	40	21,00	41,50	52,00	0,077	• • •	5	250	
	12116	50	26,00	49,50	68,00	0,162	• • •	5	125	
	12118	63	32,50	60,00	84,00	0,293	• • •	1	75	
	12120	75	38,50	68,50	100,00	0,445	• • •	1	40	
	12122	90	46,00	79,00	120,00	0,729	• • •	1	25	
	12124	110	56,00	93,00	147,00	1,292	• • •	1		
	12126	125	76,50	116,50	167,00	2,004	• • •	1		

ELBOW 90° BUTT WELDING

Systems: aquatherm green pipe, aquatherm blue pipe

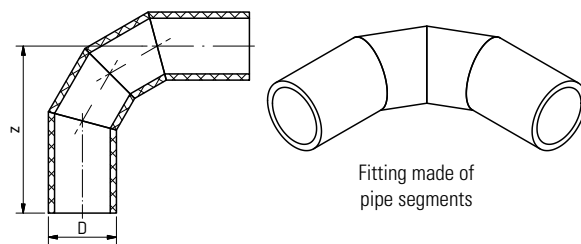
Material: Fusiolen® PP-R & PP-RP

Standard: DIN 16962, DIN EN ISO 15874

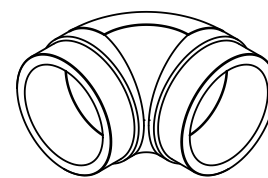
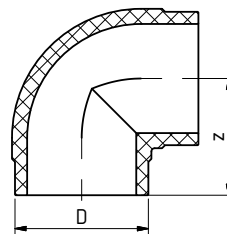
Notice There is a gradual conversion of the XXL-fittings made of pipe segments to an injection molded design. The table shows which articles are already available in new design at the time of printing this catalogue. In the aquatherm technews we will inform you of further changes, but first the current 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	z	Weight [kg]	System	pipe segments	NEW		PU	Box unit	Price € m/pc
							injection molded*	(green)			
<i>butt welding</i>											
7,4	12130	160	145,00	2,561	•				1		
	12134	200	450,00	11,685	•	•			1		
	12138	250	625,00	26,000	•	•			1		
9	312130	160	145,00	2,371	•		•		1		
	312134	200	175,00	4,311	•		•		1		
	312138	250	220,00	8,400	•		•		1		
	312142	315	773,00	42,300	•	•			1		
	312144	355	833,00	57,628	•	•			1		
11	12131	160	145,00	2,145	•	•		•	1		
	12135	200	175,00	4,056	•	•		•	1		
	12139	250	220,00	7,325	•	•		•	1		
	12143	315	773,00	37,850	•		•		1		
	12145	355	833,00	49,000	•		•		1		
	12147	400	900,00	62,800	•		•		1		
	12149	450	975,00	89,500	•		•		1		
<i>¹⁾ mechanically stabilized through a fibre mix integrated in the middle layer of the fusiolen® PP-R</i>											
11	2012143	315	773,00	37,300		•	•		1		
	2012145	355	833,00	57,074		•	•		1		
	2012147	400	900,00	74,500		•	•		1		
	2012149	450	975,00	89,080		•	•		1		
17,6	2512130	160	145,00	1,642		•		•	1		
	2512134	200	175,00	3,244		•		•	1		
	2512138	250	220,00	5,500		•		•	1		
	2512142	315	773,00	24,000		•	•		1		
	2512144	355	833,00	32,000		•	•		1		
	2512146	400	900,00	42,549		•	•		1		
	2512148	450	975,00	62,200		•	•		1		
	2512150	500	1100,00	91,000		•	•		1		
	2512152	560	1190,00	108,779		•	•		1		
	2512154	630	1295,00	164,600		•	•		1		

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

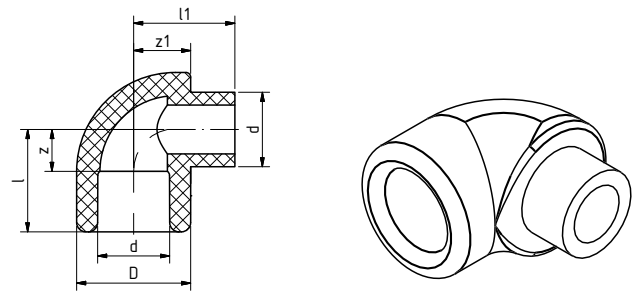
ELBOW 90° FEMALE/MALE

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	Dimension d [mm]	z	l	D	l1	z1	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>												
6 7.4 9 11	12306	16	9,00	22,00	24,50	21,75	12,25	0,010	•	10	2000	
	12308	20	11,00	25,50	29,50	25,50	14,75	0,017	• • •	10	1200	
	12310	25	13,50	29,50	34,00	29,50	17,00	0,023	• • •	10	800	
	12312	32	17,00	35,00	43,00	39,00	21,50	0,048	• • •	5	400	
	12314	40	21,00	41,50	52,00	45,50	26,00	0,080	• • •	5	300	

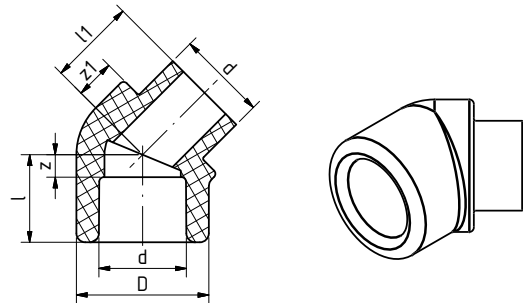
ELBOW 45° FEMALE/MALE

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	Dimension d [mm]	z	l	D	l1	z1	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>												
6 7.4 9 11	12708	20	5,00	19,50	29,50	19,50	9,00	0,013	• • •	10	1500	
	12710	25	6,00	22,00	34,00	22,00	8,50	0,017	• • •	10	1000	
	12712	32	7,50	25,50	43,00	28,50	11,50	0,036	• • •	5	500	
	12714	40	9,50	30,00	52,00	30,50	13,50	0,057	• • •	5	300	

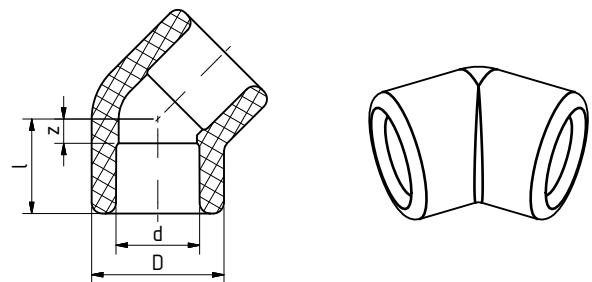
ELBOW 45° SOCKET WELDING

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

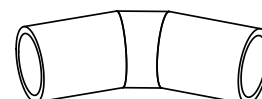
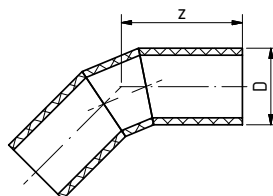
Colour: green



SDR	Art.-No.	Dimension d [mm]	z	l	D	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>										
6 7.4 9 11 17.6	12506	16	4,50	17,50	24,50	0,009	•	10	2000	
	12508	20	5,00	19,50	29,50	0,014	• • •	10	1500	
	12510	25	6,00	22,00	34,00	0,018	• • •	10	1000	
	12512	32	7,50	25,50	43,00	0,035	• • •	5	500	
	12514	40	9,50	30,00	52,00	0,053	• • •	5	300	
	12516	50	11,50	35,00	68,00	0,112	• • •	5	150	
	12518	63	14,00	41,50	84,00	0,227	• • •	1	75	
	12520	75	16,50	46,50	100,00	0,350	• • •	1	60	
	12522	90	19,50	52,50	120,00	0,568	• • •	1	30	
	12524	110	23,50	60,50	147,00	1,025	• • •	1	20	
	12526	125	27,00	67,00	167,00	1,329	• • •	1		

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



Injection molded fitting
Colour: green

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.

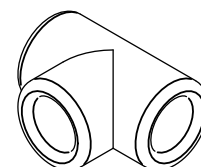
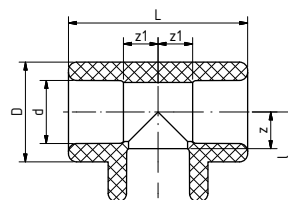
Please note! Electrofusion sockets can not be processed directly with injection molded fittings. When using electrofusion sockets either segment welded special fittings must be used or pipe pieces must be welded to the injection molded fittings.

SDR	Art.- No.	D	z	Weight [kg]	System	pipe segments	injection molded*	PU	Box unit	Price € m/pc
<i>butt welding</i>										
7,4	12530	160	95,00	1,903	•		•	1		
	12534	200	274,00	8,175	•			1		
	12538	250	412,00	20,500	•			1		
9	312530	160	95,00	4,230	•		•	1		
	312534	200	274,00	6,745	•	•		1		
	312538	250	412,00	15,928	•	•		1		
	312542	315	498,00	30,567	•	•		1		
	312544	355	520,00	40,771	•	•		1		
11	12531	160	95,00	1,393	•	•	•	1		
	12535	200	274,00	5,735	•	•		1		
	12539	250	412,00	13,000	•	•		1		
	12543	315	498,00	27,300	•	•		1		
	12545	355	520,00	26,650	•	•		1		
	12547 ¹⁾	400	548,00	44,900	•	•		1		
	12549 ¹⁾	450	580,00	60,500	•	•		1		
¹⁾ mechanically stabilized through a fibre mix integrated in the middle layer of the fusiolen® PP-R										
11	2012535	200	274,00	6,285		•		1		
	2012539	250	412,00	14,181		•		1		
	2012543	315	498,00	27,100		•		1		
	2012545	355	520,00	38,158		•		1		
	2012547	400	548,00	44,712		•		1		
	2012549	450	580,00	60,260		•		1		
17,6	2512530	160	95,00	1,080		•	•	1		
	2512534	200	274,00	3,672		•		1		
	2512538	250	412,00	9,400		•		1		
	2512542	315	498,00	18,000		•		1		
	2512544	355	520,00	22,058		•		1		
	2512546	400	548,00	30,800		•		1		
	2512548	450	580,00	39,123		•		1		
	2512550	500	665,00	55,112		•		1		
	2512552	560	698,00	72,519		•		1		
	2512554	630	741,00	97,148		•		1		

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

T-PIECE SOCKET WELDING

Systems: aquatherm green pipe, aquatherm blue pipe, aquatherm lilac 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	z1	l	L	D	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>												
6	13106	16	9,00	9,00	22,00	44,00	24,50	0,015	•	10	1500	
	13108	20	11,00	11,00	25,50	51,00	27,00	0,022	•	10	800	
	13110	25	14,50	15,00	30,50	62,00	34,00	0,033	•	10	500	
7,4	13112	32	15,50	17,00	33,50	70,00	43,00	0,054	•	5	300	
	13114	40	20,00	20,00	40,50	81,00	52,00	0,099	•	5	200	
9	13116	50	26,00	26,00	49,50	99,00	68,00	0,177	•	5	100	
11	13118	63	32,50	32,50	60,00	120,00	84,00	0,368	•	1	50	
17,6	13120	75	38,50	38,50	68,50	137,00	100,00	0,541	•	1	30	
	13122	90	47,00	46,00	80,00	158,00	120,00	0,920	•	1	25	
	13124	110	56,00	56,00	93,00	186,00	147,00	1,598	•	1	14	
	13126	125	76,50	76,50	116,50	233,00	167,00	2,673	•	1		

T-PIECE BUTT WELDING

Systems:

aquatherm green pipe,
aquatherm blue pipe

Material:

Fusiolen® PP-R & PP-RP

Standard:

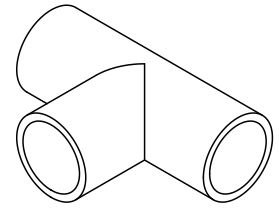
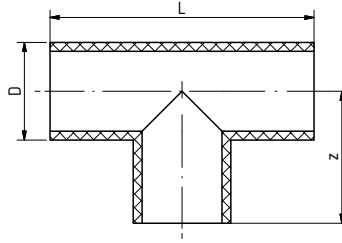
DIN 16962, DIN EN ISO 15874

Notice

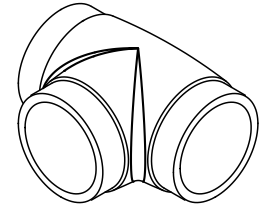
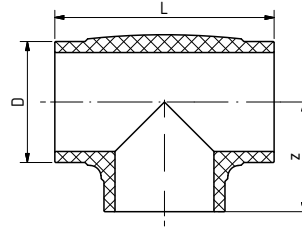
There is a gradual conversion of the XXL-fittings made of pipe segments to an injection molded design. The table shows which articles are already available in new design at the time of printing this catalogue. In the aquatherm technews we will inform you of further changes, but first the current stock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

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

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



Fitting made of pipe segments



Injection molded fitting
Colour: green

NEW

SDR	Art.- No.	D	L	z	Weight [kg]	System	pipe segments	injection molded* (green)	PU	Box unit	Price € m/pc
<i>butt welding</i>											
7,4	13130	160	290,00	145,00	3,600	•		•		1	
	13134	200	500,00	250,00	9,825	•	•			1	
	13138	250	750,00	375,00	24,000	•	•			1	
9	313130	160	290,00	145,00	3,290	•		•		1	
	313134	200	500,00	250,00	9,367	•	•			1	
	313138	250	750,00	375,00	21,949	•	•			1	
	313142	315	920,00	460,00	42,609	•	•			1	
	313144	355	960,00	480,00	56,452	•	•			1	
11	13131	160	290,00	145,00	3,005	•	•	•		1	
	13135	200	500,00	250,00	6,865	•	•			1	
	13139	250	750,00	375,00	16,000	•	•			1	
	13143	315	920,00	460,00	20,450	•	•			1	
	13145	355	960,00	480,00	45,072	•	•			1	
	13147 ¹⁾	400	1000,00	500,00	63,100	•	•			1	
	13149 ¹⁾	450	1050,00	525,00	83,300	•	•			1	
¹⁾ mechanically stabilized through a fibre mix integrated in the middle layer of the fusiolen® PP-R											
11	2013135	200	500,00	250,00	8,171		•			1	
	2013139	250	750,00	375,00	18,827		•			1	
	2013143	315	920,00	460,00	36,674		•			1	
	2013145	355	960,00	480,00	40,000		•			1	
	2013147	400	1000,00	500,00	62,100		•			1	
	2013149	450	1050,00	525,00	82,792		•			1	
17,6	2513130	160	290,00	145,00	2,348		•	•		1	
	2513134	200	500,00	250,00	4,660		•			1	
	2513138	250	750,00	375,00	11,500		•			1	
	2513142	315	920,00	460,00	19,800		•			1	
	2513144	355	960,00	480,00	27,500		•			1	
	2513146	400	1000,00	500,00	40,395		•			1	
	2513148	450	1050,00	525,00	45,400		•			1	
	2513150	500	1200,00	600,00	75,726		•			1	
	2513152	560	1260,00	630,00	99,320		•			1	
	2513154	630	1330,00	665,00	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!

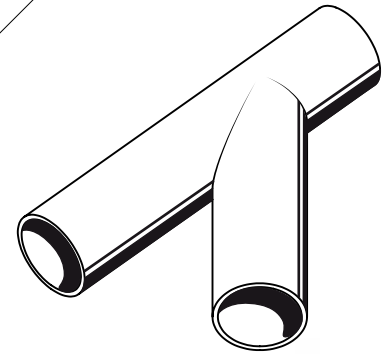
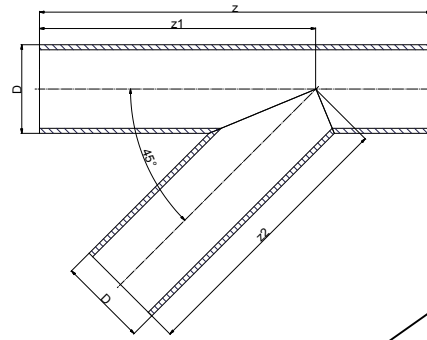
These branches are for special applications in the **unpressurized** areas, e.g. in vacuum dewatering in the ship building. **In no case** they may be exposed to the pressures, given in the operating pressure tables on page 179-181.

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R

Standard: DIN16962-2

Color: blue/green



SDR	Art.-No.	Dimension D [mm]	z	z1	z2	Weight [kg]	System	PU	Box unit	Price € m/pc	
<i>Socket welding</i>											
11	2013018	63	560,00	380,00	380,00	0,001	• • •	1			
	2013020	75	570,00	405,00	405,00	1,210	• • •	1			
	2013022	90	577,00	412,00	412,00	1,750	• • •	1			
	2013024	110	610,00	435,00	435,00	2,730	• • •	1			
	2013026	125	665,00	475,00	475,00	3,840	• • •	1			
	<i>Butt welding</i>										
	2013031	160	782,00	551,00	551,00	7,300	• •	1			
	2013035	200	925,00	650,00	650,00	13,360	• •	1			
	2013039	250	1105,00	780,00	780,00	24,780	• •	1			
<i>Socket welding</i>											
17.6	2513026	125	665,00	475,00	475,00	2,470	• •	1			
	<i>Butt welding</i>										
	2513030	160	782,00	551,00	551,00	4,700	• •	1			
	2513034	200	925,00	650,00	650,00	8,640	• •	1			
	2513038	250	1105,00	780,00	780,00	16,010	• •	1			

RED.- T-PIECE, SOCKET WELDING

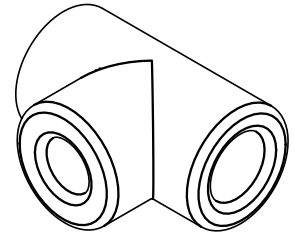
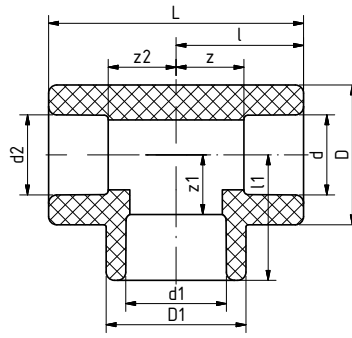
Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green

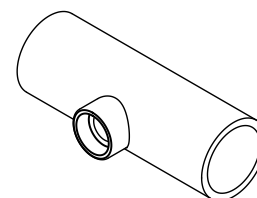
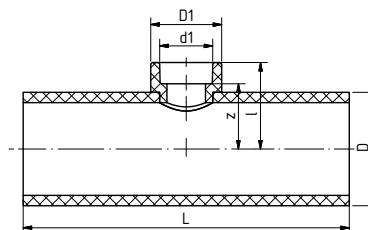
Form: injection moulded fittings



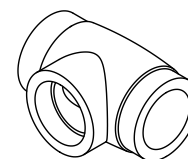
SDR	Art.- No.	d	d1	d2	L	l	l1	z	z1	z2	D	D1	Weight [kg]	System	PU	Box unit	Price € m/pc	
<i>socket welding</i>																		
6	13506	20	16	16	51,00	25,50	25,25	11,00	12,25	12,50	29,50	29,50	0,025	•		10		
7,4	13508	20	16	20	51,00	25,50	25,25	11,00	12,25	11,00	29,50	29,50	0,024	•		10		
9	13510	20	20	16	51,00	25,50	25,25	11,00	10,75	12,50	29,50	29,50	0,023	•		10		
11	13511	20	25	20	62,00	31,00	30,50	16,50	14,50	16,50	34,00	34,00	0,040	• • •		10		
11	13512	25	16	16	62,00	31,00	30,50	15,00	17,50	18,00	34,00	34,00	0,043	•		10		
11	13514	25	16	20	62,00	31,00	30,50	15,00	17,50	16,50	34,00	34,00	0,041	•		10		
11	13516	25	16	25	62,00	31,00	30,50	15,00	17,50	15,00	34,00	34,00	0,038	•		10		
11	13520	25	20	20	62,00	31,00	30,50	15,00	16,00	16,50	34,00	34,00	0,039	• • •	10	500		
11	13522	25	20	25	62,00	31,00	30,50	15,00	16,00	15,00	34,00	34,00	0,036	• • •	10	500		
11	13528	32	16	32	70,00	35,00	31,00	17,00	18,00	17,00	43,00	29,50	0,053	• • •	5	300		
11	13532	32	20	20	73,50	36,75	37,00	18,75	22,50	22,25	43,00	43,00	0,076	• • •	5	300		
11	13534	32	20	32	70,00	35,00	31,00	17,00	16,50	17,00	43,00	29,50	0,053	• • •	5	300		
11	13538	32	25	25	70,00	35,00	34,50	17,00	18,50	19,00	43,00	43,00	0,069	• • •	5			
11	13540	32	25	32	70,00	35,00	32,00	17,00	16,00	17,00	43,00	34,00	0,050	• • •	5	300		
11	13542	40	20	40	83,00	41,50	36,00	21,00	21,50	21,00	52,00	34,00	0,091	• • •	5	200		
11	13544	40	25	40	83,00	41,50	36,00	21,00	20,00	21,00	52,00	34,00	0,089	• • •	5	200		
11	13546	40	32	40	84,00	42,00	40,50	21,50	22,50	21,50	52,00	52,00	0,092	• • •	5	200		
11	13547	50	20	50	99,00	49,50	40,50	26,00	26,00	26,00	68,00	29,50	0,162	• • •	5	100		
11	13548	50	25	50	99,00	49,50	44,50	26,00	28,50	26,00	68,00	43,00	0,157	• • •	5	100		
11	13550	50	32	50	99,00	49,50	44,50	26,00	26,50	26,00	68,00	43,00	0,160	• • •	5	100		
11	13551	50	40	50	99,00	49,50	49,50	26,00	29,00	26,00	68,00	68,00	0,161	• • •	5	100		
11	13552	63	20	63	120,00	60,00	48,50	32,50	34,00	32,50	84,00	34,00	0,335	• • •	1	50		
11	13554	63	25	63	120,00	60,00	48,50	32,50	32,50	32,50	84,00	34,00	0,331	• • •	1	50		
11	13556	63	32	63	120,00	60,00	53,50	32,50	35,50	32,50	84,00	52,00	0,340	• • •	1	50		
11	13558	63	40	63	120,00	60,00	53,50	32,50	33,00	32,50	84,00	52,00	0,332	• • •	1	50		
11	13560	63	50	63	120,00	60,00	60,00	32,50	36,50	32,50	84,00	68,00	0,398	• • •	1			
11	13561	75	20	75	137,00	68,50	54,50	38,50	40,00	38,50	100,00	34,00	0,501	• • •	1			
11	13562	75	25	75	137,00	68,50	54,50	38,50	38,50	38,50	100,00	34,00	0,497	• • •	1			
11	13564	75	32	75	137,00	68,50	59,00	38,50	41,00	38,50	100,00	52,00	0,505	• • •	1			
11	13566	75	40	75	137,00	68,50	59,00	38,50	38,50	38,50	100,00	52,00	0,497	• • •	1			
11	13568	75	50	75	137,00	68,50	66,00	38,50	42,50	38,50	100,00	84,00	0,550	• • •	1			
11	13570	75	63	75	137,00	68,50	66,00	38,50	38,50	38,50	100,00	84,00	0,515	• • •	1			
11	13576	90	32	90	158,00	79,00	65,00	46,00	47,00	46,00	120,00	52,00	0,880	• • •	1			
11	13578	90	40	90	158,00	79,00	65,00	46,00	44,50	46,00	120,00	52,00	0,862	• • •	1			
11	13580	90	50	90	158,00	79,00	75,00	46,00	51,50	46,00	120,00	84,00	0,905	• • •	1			
11	13582	90	63	90	158,00	79,00	75,00	46,00	47,50	46,00	120,00	84,00	0,876	• • •	1			
11	13584	90	75	90	158,00	79,00	81,00	46,00	51,00	46,00	120,00	120,00	0,991	• • •	1			
11	13586	110	63	110	186,00	93,00	87,50	56,00	60,00	56,00	147,00	100,00	1,562	• • •	1			
11	13588	110	75	110	186,00	93,00	87,50	56,00	57,50	56,00	147,00	100,00	1,511	• • •	1			
11	13590	110	90	110	186,00	93,00	89,00	56,00	56,00	56,00	147,00	120,00	1,548	• • •	1			
11	13592	125	75	125	233,00	116,50	106,50	76,50	76,50	76,50	167,00	100,00	2,427	• • •	1			
11	13594	125	90	125	233,00	116,50	109,50	76,50	76,50	76,50	167,00	120,00	2,509	• • •	1			
11	13596	125	110	125	233,00	116,50	113,50	76,50	76,50	76,50	167,00	147,00	2,563	• • •	1			

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

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



Fitting made of pipe segments



Injection molded fitting

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

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

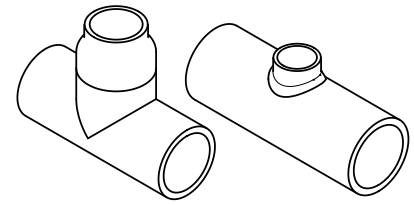
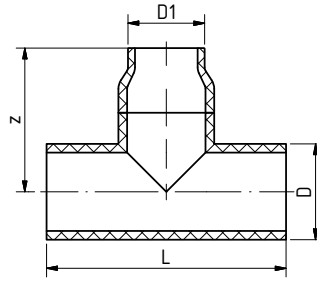
Please note! Electrofusion sockets can not be processed directly with injection molded fittings. When using electrofusion sockets either segment welded special fittings must be used or pipe pieces must be welded to the injection molded fittings.

SDR	Art.- No.	D	d1	D1	L	l	z	Weight [kg]	System	pipe segments	injection molded*	PU	Box unit	Price € m/pc
<i>branch: socket welding</i>														
7,4	13600	160	75	100,00	460,00	122,00	92,00	4,414	•	•			1	
	13602	160	90	120,00	460,00	125,00	92,00	4,515	•	•			1	
	NEW 13606	160	125	167,00	290,00	120,00	80,00	3,441	•		•		1	
	13608	200	75	100,00	500,00	142,00	112,00	7,110	•	•			1	
	13610	200	90	120,00	500,00	145,00	112,00	7,540	•	•			1	
	13612	200	110	147,00	500,00	149,00	112,00	7,325	•	•			1	
	13614	200	125	167,00	500,00	155,00	115,00	7,645	•	•			1	
	13624	250	75	100,00	750,00	167,00	137,00	16,600	•	•			1	
	13626	250	90	120,00	750,00	170,00	137,00	16,800	•	•			1	
	13628	250	110	147,00	750,00	174,00	137,00	16,800	•	•			1	
13630	250	125	167,00	750,00	180,00	140,00	17,000	•	•			1		
9	313600	160	75	100,00	460,00	122,00	92,00	3,903	•	•			1	
	313602	160	90	120,00	460,00	125,00	92,00	4,039	•	•			1	
	313608	200	75	100,00	500,00	142,00	112,00	6,476	•	•			1	
	313610	200	90	120,00	500,00	145,00	112,00	6,581	•	•			1	
	313612	200	110	147,00	500,00	149,00	112,00	6,863	•	•			1	
	313614	200	125	167,00	500,00	155,00	115,00	7,114	•	•			1	
	313624	250	75	100,00	750,00	167,00	137,00	14,802	•	•			1	
	313626	250	90	120,00	750,00	170,00	137,00	14,932	•	•			1	
	313628	250	110	147,00	750,00	174,00	137,00	15,178	•	•			1	
	313630	250	125	167,00	750,00	180,00	140,00	15,398	•	•			1	
313904	315	125	167,00	920,00	212,50	172,50	29,196	•	•			1		
313916	355	125	167,00	960,00	232,50	192,50	38,466	•	•			1		
11	13601	160	75	100,00	460,00	122,00	92,00	3,140	•	•			1	
	13603	160	90	120,00	460,00	125,00	92,00	3,176	•	•			1	
	NEW 13607	160	125	167,00	290,00	120,00	80,00	2,842	•		•		1	
	13609	200	75	100,00	500,00	142,00	112,00	5,284	•	•			1	
	13611	200	90	120,00	500,00	145,00	112,00	5,168	•	•			1	
	13613	200	110	147,00	500,00	149,00	112,00	5,648	•	•			1	
	13615	200	125	167,00	500,00	155,00	115,00	5,786	•	•			1	
	13625	250	75	100,00	750,00	167,00	137,00	12,000	•	•			1	
	13627	250	90	120,00	750,00	170,00	137,00	12,000	•	•			1	
	13629	250	110	147,00	750,00	174,00	137,00	13,000	•	•			1	
	13631	250	125	167,00	750,00	180,00	140,00	12,000	•	•			1	
	13651	315	125	167,00	920,00	213,00	173,00	25,150	•	•			1	
	13663	355	125	167,00	960,00	233,00	193,00	30,851	•	•			1	
13676	400	125	167,00	1000,00	255,00	215,00	42,169	•	•			1		
13690	450	125	167,00	1050,00	280,00	240,00	55,794	•	•			1		

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

RED.- T-PIECE, BUTT WELDING

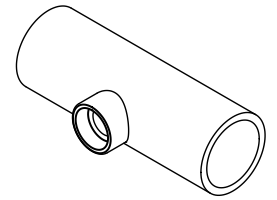
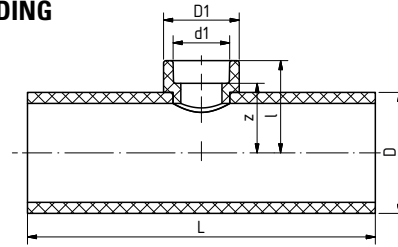
Systems: **aquatherm green pipe**
 Standard: DIN 16962, DIN EN ISO 15874
 Branch: butt welding
 Form: see table



SDR	Art.- No.	D	D1	L	z	Weight [kg]	System	Pipe with reducer	Pipe with weld-in saddle	PU	Box unit	Price € m/pc
<i>branch: butt welding</i>												
7,4	13618	200	160	500,00	300,00	10,891	•	•		1		
	13634	250	160	750,00	375,00	28,000	•	•		1		
	13640	250	200	750,00	375,00	27,000	•	•		1		
9	313618	200	160	500,00	300,00	9,332	•	•		1		
	313634	250	160	750,00	375,00	21,547	•	•		1		
	313640	250	200	750,00	376,00	21,853	•	•		1		
	313906	315	160	920,00	238,00	29,237	•		•	1		
	313908	315	200	920,00	460,00	42,166	•	•		1		
	313910	315	250	920,00	460,00	42,557	•	•		1		
	313918	355	160	960,00	258,00	38,479	•		•	1		
	313920	355	200	960,00	268,00	39,237	•		•	1		
	313922	355	250	960,00	480,00	52,683	•	•		1		
	313924	355	315	960,00	480,00	55,511	•	•		1		
11	13619	200	160	500,00	300,00	7,445	•	•		1		
	13635	250	160	750,00	375,00	19,500	•	•		1		
	13641	250	200	750,00	375,00	18,500	•	•		1		
	13653	315	160	920,00	237,50	24,850	•		•	1		
	13655	315	200	920,00	460,00	29,400	•	•		1		
	13657	315	250	920,00	460,00	30,250	•	•		1		
	13665	355	160	960,00	257,50	30,893	•		•	1		
	13667	355	200	960,00	267,50	31,651	•		•	1		
	13669	355	250	960,00	480,00	41,635	•	•		1		
	13671	355	315	960,00	480,00	44,721	•	•		1		
	13678	400	160	1000,00	354,00	44,111	•		•	1		
	13680	400	200	1000,00	318,00	44,111	•		•	1		
	13682	400	250	1000,00	280,00	44,111	•		•	1		
	13684	400	315	1000,00	500,00	46,162	•	•		1		
	13685	400	355	1000,00	500,00	54,361	•	•		1		
	13692	450	160	1050,00	379,00	57,962	•		•	1		
	13694	450	200	1050,00	343,00	57,962	•		•	1		
	13696	450	250	1050,00	305,00	57,962	•		•	1		
13698	450	315	1050,00	315,00	58,818	•		•	1			
13699	450	355	1050,00	525,00	78,330	•	•		1			
13700	450	400	1050,00	525,00	78,330	•	•		1			

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

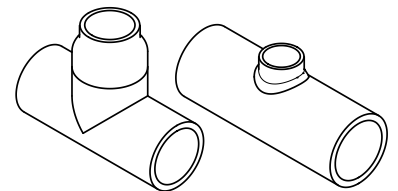
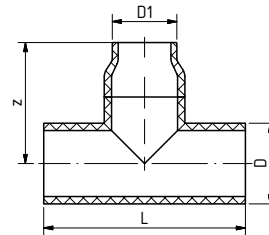
Systems: aquatherm blue pipe
Material: Fusiolen® PP-R
Standard: DIN 16962, DIN EN ISO 15874
Colour: blue/green
Branch: socket welding
Form: pipes with weld-in saddle



SDR	Art.- No.	D	d1	D1	L	l	z	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>branch: socket welding</i>												
11	2013609	200	75	100,00	500,00	142,00	112,00	5,460	•	1		
	2013611	200	90	120,00	500,00	145,00	112,00	5,580	•	1		
	2013613	200	110	147,00	500,00	149,00	112,00	5,810	•	1		
	2013615	200	125	167,00	500,00	155,00	115,00	6,100	•	1		
	2013625	250	75	100,00	750,00	167,00	137,00	12,440	•	1		
	2013627	250	90	120,00	750,00	170,00	137,00	12,420	•	1		
	2013629	250	110	147,00	750,00	174,00	137,00	12,760	•	1		
	2013631	250	125	167,00	750,00	180,00	140,00	13,030	•	1		
	2013651	315	125	167,00	920,00	213,00	173,00	25,000	•	1		
	2013663	355	125	167,00	960,00	233,00	193,00	32,500	•	1		
	2013676	400	125	167,00	1000,00	255,00	215,00	42,100	•	1		
2013690	450	125	167,00	1050,00	280,00	240,00	55,700	•	1			

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

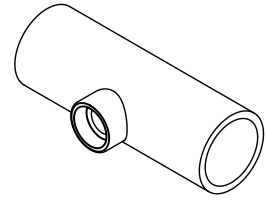
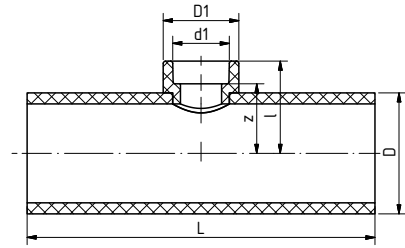
Systems: aquatherm blue pipe
Material: Fusiolen® PP-R
Standard: DIN 16962, DIN EN ISO 15874
Colour: blue/green
Branch: butt welding



SDR	Art.- No.	D	D1	L	z	Weight [kg]	System	Pipe with reducer	Pipe with weld-in saddle	PU	Box unit	Price € m/pc
<i>branch: butt welding</i>												
11	2013619	200	160	500,00	300,00	7,650	•	•		1		
	2013635	250	160	750,00	375,00	19,030	•	•		1		
	2013641	250	200	750,00	375,00	21,100	•	•		1		
	2013653	315	160	920,00	237,50	25,000	•		•	1		
	2013655	315	200	920,00	460,00	33,200	•	•		1		
	2013657	315	250	920,00	460,00	34,200	•	•		1		
	2013665	355	160	960,00	257,50	32,500	•		•	1		
	2013667	355	200	960,00	267,50	30,200	•		•	1		
	2013669	355	250	960,00	480,00	40,000	•	•		1		
	2013671	355	315	960,00	480,00	40,000	•	•		1		
	2013678	400	160	1000,00	354,00	44,100	•		•	1		
	2013680	400	200	1000,00	318,00	44,100	•		•	1		
	2013682	400	250	1000,00	280,00	46,000	•		•	1		
	2013684	400	315	1000,00	500,00	56,000	•	•		1		
	2013685	400	355	1000,00	500,00	54,300	•	•		1		
	2013692	450	160	1050,00	379,00	57,900	•		•	1		
	2013694	450	200	1050,00	343,00	57,900	•		•	1		
	2013696	450	250	1050,00	305,00	57,900	•		•	1		
2013698	450	315	1050,00	315,00	58,400	•		•	1			
2013699	450	355	1050,00	525,00	75,000	•	•		1			
2013700	450	400	1050,00	525,00	76,000	•	•		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

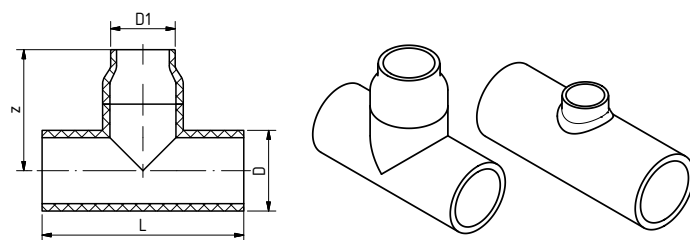


SDR	Art.- No.	D	d1	D1	L	l	z	Weight [kg]	System	pipe segments	injection molded*	PU	Box unit	Price € m/pc
<i>branch: socket welding</i>														
	2513600	160	75	100,00	460,00	122,00	92,00	2,227	•	•		1		
	2513602	160	90	120,00	460,00	125,00	92,00	2,364	•	•		1		
NEW	2513606	160	125	167,00	290,00	120,00	80,00	2,309			•	1		
	2513608	200	75	100,00	500,00	142,00	112,00	3,620	•	•		1		
	2513610	200	90	120,00	500,00	145,00	112,00	3,742	•	•		1		
	2513612	200	110	147,00	500,00	149,00	112,00	3,976	•	•		1		
	2513614	200	125	167,00	500,00	155,00	115,00	4,269	•	•		1		
	2513624	250	75	100,00	750,00	167,00	137,00	8,149	•	•		1		
	2513626	250	90	120,00	750,00	170,00	137,00	8,274	•	•		1		
17,6	2513628	250	110	147,00	750,00	174,00	137,00	8,504	•	•		1		
	2513630	250	125	167,00	750,00	180,00	140,00	9,000	•	•		1		
	2513651	315	125	167,00	920,00	213,00	173,00	17,570	•	•		1		
	2513663	355	125	167,00	960,00	233,00	193,00	21,500	•	•		1		
	2513676	400	125	167,00	1000,00	255,00	215,00	27,690	•	•		1		
	2513690	450	125	167,00	1050,00	280,00	240,00	36,470	•	•		1		
	2513804	500	125	167,00	1200,00	305,00	265,00	51,250	•	•		1		
	2513821	560	125	167,00	1260,00	335,00	295,00	66,900	•	•		1		
	2513839	630	125	167,00	1330,00	370,00	330,00	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
Form: see table



SDR	Art.- No.	D	D1	L	z	Weight [kg]	System	Pipe with reducer	Pipe with weld-in saddle	PU	Box unit	Price € m/pc
<i>butt welding</i>												
	2513618	200	160	500,00	250,00	5,000	•	•			1	
	2513634	250	160	750,00	375,00	11,600	•	•			1	
	2513640	250	200	750,00	375,00	11,500	•	•			1	
	2513653	315	160	920,00	237,50	16,500	•		•		1	
	2513655	315	200	920,00	460,00	23,600	•	•			1	
	2513657	315	250	920,00	460,00	22,600	•	•			1	
	2513665	355	160	960,00	257,50	21,500	•		•		1	
	2513667	355	200	960,00	267,50	21,900	•		•		1	
	2513669	355	250	960,00	480,00	28,300	•	•			1	
	2513671	355	315	960,00	480,00	30,500	•	•			1	
	2513678	400	160	1000,00	354,00	29,700	•		•		1	
	2513680	400	200	1000,00	318,00	29,700	•		•		1	
	2513682	400	250	1000,00	280,00	29,000	•		•		1	
	2513684	400	315	1000,00	500,00	35,800	•	•			1	
	2513685	400	355	1000,00	500,00	39,700	•	•			1	
	2513692	450	160	1050,00	379,00	37,000	•		•		1	
	2513694	450	200	1050,00	343,00	37,000	•		•		1	
	2513696	450	250	1050,00	305,00	37,000	•		•		1	
	2513698	450	315	1050,00	315,00	37,000	•		•		1	
	2513699	450	355	1050,00	525,00	50,500	•	•			1	
	2513700	450	400	1050,00	525,00	50,100	•	•			1	
17,6	2513806	500	160	1200,00	404,00	53,400	•		•		1	
	2513808	500	200	1200,00	368,00	53,500	•		•		1	
	2513810	500	250	1200,00	330,00	53,500	•		•		1	
	2513812	500	315	1200,00	340,00	54,000	•		•		1	
	2513813	500	355	1200,00	600,00	72,500	•	•			1	
	2513814	500	400	1200,00	600,00	72,700	•	•			1	
	2513815	500	450	1200,00	600,00	71,500	•	•			1	
	2513823	560	160	1260,00	434,00	69,000	•		•		1	
	2513825	560	200	1260,00	398,00	69,000	•		•		1	
	2513827	560	250	1260,00	360,00	69,000	•		•		1	
	2513829	560	315	1260,00	370,00	66,700	•		•		1	
	2513831	560	400	1260,00	630,00	96,200	•	•			1	
	2513832	560	450	1260,00	630,00	97,400	•	•			1	
	2513833	560	500	1260,00	630,00	96,400	•	•			1	
	2513841	630	160	1330,00	474,00	91,530	•		•		1	
	2513843	630	200	1330,00	438,00	91,500	•		•		1	
	2513845	630	250	1330,00	400,00	91,500	•		•		1	
	2513847	630	315	1330,00	405,00	92,350	•		•		1	
	2513849	630	400	1330,00	665,00	133,800	•	•			1	
	2513850	630	450	1330,00	665,00	133,400	•	•			1	
	2513851	630	500	1330,00	665,00	130,700	•	•			1	
	2513852	630	560	1330,00	665,00	128,700	•	•			1	

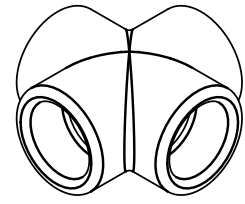
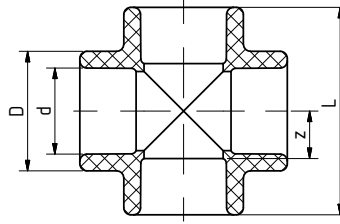
CROSS

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.- No.	Dimension d [mm]	D	L	z	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>										
6	13708	20	29,50	51,50	11,25	0,025	• • •	10		
7,4	13710	25	34,00	59,00	13,50	0,035	• • •	10		
9	13712	32	43,00	70,00	17,00	0,062	• • •	5		
11	13714	40	52,00	83,00	21,00	0,099	• • •	5		

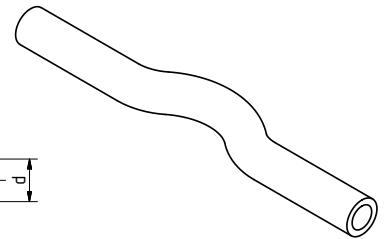
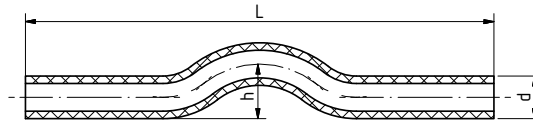
CROSS OVER FITTING

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.- No.	Dimension d [mm]	h	L	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>									
6	16106	16	17,00	352,00	0,038	•	10		
7,4	16108	20	22,00	352,00	0,060	• • •	10		
9	16110	25	25,00	352,00	0,091	• • •	10		
11	16112	32	32,00	352,00	0,154	• • •	5		

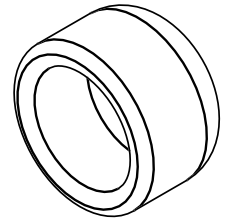
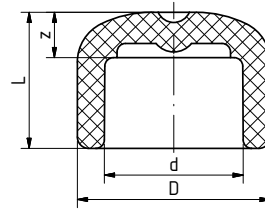
END CAP

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R & PP-RP

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.- No.	Dimension d [mm]	D	z	L	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>										
6 7,4 9 11	14106	16	26,00	13,50	26,50	0,008	•	10	2000	
	14108	20	29,50	9,50	24,00	0,009	• • •	10	2000	
	14110	25	34,00	8,00	24,00	0,011	• • •	10	1500	
	14112	32	43,00	11,00	29,00	0,023	• • •	5	1000	
	14114	40	52,00	17,50	38,00	0,042	• • •	5	500	
	14116	50	68,00	21,00	44,50	0,082	• • •	5	300	
	14118	63	84,00	24,50	52,00	0,146	• • •	1	150	
	14120	75	100,00	28,50	58,50	0,243	• • •	1	90	
	14122	90	120,00	34,50	67,50	0,365	• • •	1	60	
	14124	110	147,00	28,00	65,00	0,635	• • •	1	40	
	14126	125	167,00	42,00	82,00	0,872	• • •	1		

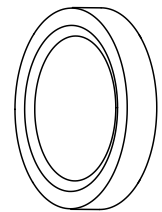
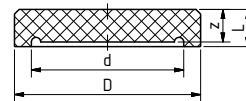
END CAP BUTT-WELDING

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R & PP-RP

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.- No.	Dimension D [mm]	L	z	d	Weight [kg]	System	PU	Box unit	Price € m/pc
7,4	14130	160	70,00	21,90	116,20	0,876	•	1		
	14134	200	80,00	27,40	145,20	1,398	•	1		
	14138	250	90,00	34,20	181,60	2,530	•	1		
9	314130	160	70,00	17,90	124,20	0,847	•	1		
	314134	200	80,00	22,40	155,20	1,373	•	1		
	314138	250	90,00	34,20	194,20	2,856	•	1		
	314142	315	70,00	52,50	244,60	5,080	•	1		
	314144	355	80,00	66,50	275,60	7,050	•	1		
11	14131	160	70,00	14,60	130,80	0,759	• •	1		
	14135	200	80,00	18,20	163,60	1,070	• •	1		
	14139	250	90,00	22,70	204,60	1,989	• •	1		
	14143	315	270,00	28,70	257,80	6,200	• •	1		
	14145	355	80,00	67,50	290,60	9,500	• •	1		
	14147	400	80,00	70,00	327,40	8,500	• •	1		
	14149	450	80,00	70,00	368,20	12,200	• •	1		
17,6	2514130	160	70,00	14,60	141,80	0,679	•	1		
	2514134	200	80,00	11,40	177,20	0,925	•	1		
	2514138	250	90,00	14,20	221,60	2,109	•	1		
	2514142	315	50,00	40,00	279,20	2,961	•	1		
	2514144	355	52,00	42,00	314,80	3,930	•	1		
	2514146	400	60,00	50,00	354,60	5,821	•	1		
	2514148	450	70,00	56,00	399,00	8,520	•	1		
	2514150	500	75,00	62,00	443,20	12,500	•	1		
	2514152	560	80,00	69,50	496,60	16,000	•	1		
	2514154	630	90,00	78,00	558,60	23,500	•	1		

WELD-IN SADDLE

for pressureless installation

Systems:

aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material:

Fusiolen® PP-R

Standard:

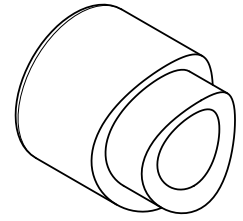
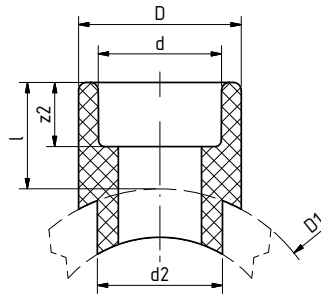
DIN 16962, DIN EN ISO 15874

Colour:

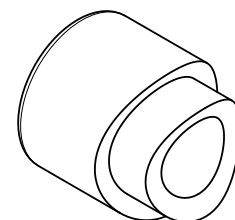
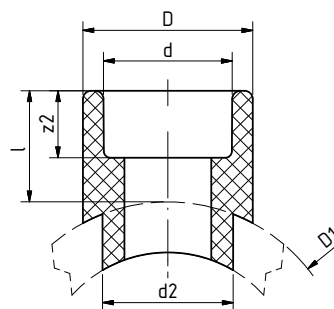
green

Notice

*do not use with aquatherm blue pipe OT



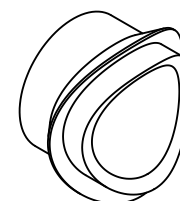
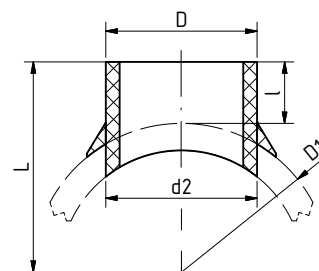
SDR	Art.- No.	D1	d	d2	l	z2	D	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>												
6	15156*	40	20	25	27,00	14,50	29,50	0,016	• • •	5		
7,4	15158*	40	25	25	28,50	16,00	34,00	0,017	• • •	5		
9	15160	50	20	25	27,50	14,50	29,50	0,018	• • •	5		
11	15162	50	25	25	28,50	16,00	34,00	0,019	• • •	5		
17,6	15164	63	20	25	27,50	14,50	29,50	0,017	• • •	5		
	15166	63	25	25	28,50	16,00	34,00	0,019	• • •	5		
	15168	63	32	32	30,00	18,00	43,00	0,028	• • •	5		
	15170	75	20	25	27,50	14,50	29,50	0,018	• • •	5		
	15172	75	25	25	28,50	16,00	34,00	0,019	• • •	5		
	15174	75	32	32	30,00	18,00	43,00	0,028	• • •	5		
	15175	75	40	40	34,00	20,5	52,00	0,049	• • •	5		
	15176	90	20	25	27,50	14,50	29,50	0,018	• • •	5		
	15178	90	25	25	28,50	16,00	34,00	0,019	• • •	5		
	15180	90	32	32	30,00	18,00	43,00	0,029	• • •	5		
	15181	90	40	40	34,00	20,50	52,00	0,048	• • •	5		
	15182	110	20	25	27,50	14,50	29,50	0,019	• • •	5		
	15184	110	25	25	28,50	16,00	34,00	0,020	• • •	5		
	15186	110	32	32	30,00	18,00	43,00	0,030	• • •	5		
	15188	110	40	40	34,00	20,50	52,00	0,050	• • •	5		
	15189	110	50	50	34,00	23,50	68,00	0,091	• • •	5		
	15190	125	20	25	27,50	14,50	29,50	0,019	• • •	5		
	15192	125	25	25	28,50	16,00	34,00	0,020	• • •	5		
	15194	125	32	32	30,00	18,00	43,00	0,029	• • •	5		
	15196	125	40	40	34,00	20,50	52,00	0,050	• • •	5		
	15197	125	50	50	34,00	23,50	68,00	0,090	• • •	5		
	15198	125	63	63	38,00	27,50	84,00	0,149	• • •	5		
	15206	160	20	25	27,50	14,50	29,50	0,021	• • •	5		
	15208	160	25	25	28,50	16,00	34,00	0,023	• • •	5		
	15210	160	32	32	30,00	18,00	43,00	0,034	• • •	5		
	15212	160	40	40	34,00	20,50	52,00	0,054	• • •	5		
	15214	160	50	50	34,00	23,50	68,00	0,094	• • •	5		
	15216	160	63	63	38,00	27,50	84,00	0,157	• • •	5		
	15218	160	75	75	42,00	30,00	100,00	0,238	• • •	5		
	15220	160	90	90	45,00	33,00	120,00	0,360	• • •	5		
	15228	200-250	20	25	27,50	14,50	29,50	0,020	• • •	5		
	15229	200-250	25	25	28,50	16,00	34,00	0,021	• • •	5		
	15230	200-250	32	32	30,00	18,00	43,00	0,031	• • •	5		
	15231	200	40	40	34,00	20,50	52,00	0,049	• • •	5		
	15232	200	50	50	34,00	23,50	68,00	0,087	• • •	5		
	15233	200	63	63	37,50	27,50	84,00	0,146	• • •	5		
	15234	200	75	75	42,00	30,00	100,00	0,225	• • •	5		
	15235	200	90	90	45,00	33,00	120,00	0,356	• • •	5		
	15236	200	110	110	49,00	37,00	147,00	0,638	• • •	5		
	15237	200	125	125	55,00	40,00	167,00	0,862	• • •	5		
	15251	250	40	40	34,00	20,50	52,00	0,053	• • •	5		
	15252	250	50	50	34,00	23,50	68,00	0,090	• • •	5		
	15253	250	63	63	37,50	27,50	84,00	0,152	• • •	5		
	15254	250	75	75	42,00	30,00	100,00	0,222	• • •	5		
	15255	250	90	90	45,00	33,00	120,00	0,348	• • •	5		
	15256	250	110	110	49,00	37,00	147,00	0,602	• • •	5		
	15257	250	125	125	55,00	40,00	167,00	0,820	• • •	5		

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	d	d2	l	z2	D	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>												
6 7,4 9 11 17,6	15260	315-355	63	63	37,50	27,50	84,00	0,153	• •	1		
	15261	315-355	75	75	42,00	30,00	100,00	0,230	• •	1		
	15262	315	90	90	45,00	33,00	120,00	0,363	• •	1		
	15263	315	110	110	49,00	37,00	147,00	0,592	• •	1		
	15264	315	125	125	55,00	40,00	167,00	0,830	• •	1		
	15268	355	90	90	45,00	33,00	120,00	0,355	• •	1		
	15269	355	110	110	49,00	37,00	147,00	0,586	• •	1		
	15270	355	125	125	55,00	40,00	167,00	0,813	• •	1		
	15275	400-500	75	75	42,00	30,00	100,00	0,216	• •	1		
	15277	400-450	110	110	49,00	37,00	147,00	0,535	• •	1		
	15278	400	125	125	55,00	40,00	167,00	0,693	• •	1		
	15288	400-500	90	90	45,00	33,00	120,00	0,330	• •	1		
	15290	450-500	125	125	55,00	40,00	167,00	0,671	• •	1		
	15300	400-630	63	63	37,50	27,50	84,00	0,498	• •	1		
	15303	500-560	110	110	49,00	37,50	147,00	0,533	• •	1		
	15315	560-630	75	75	42,00	30,00	100,00	0,260	• •	1		
	15316	560-630	90	90	45,00	33,00	120,00	0,350	• •	1		
15318	560-630	125	125	55,00	40,00	167,00	0,689	• •	1			
15331	630	110	110	49,00	37,00	147,00	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 94 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	D	d2	l	L	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>butt welding</i>											
9	315265	315	160	160	80,00	237,50	0,831	• •	1		
	315271	355	160	160	80,00	257,50	0,845	• •	1		
11	15265	315	160	160	80,00	237,50	0,868	• •	1		
	15271	355	160	160	80,00	257,50	0,867	• •	1		

With weld-on surface and additional weld-in socket for the fusion with the inner pipe wall.

The necessary tools for the fusion of aquatherm green pipe weld-in saddles are listed from page 94 onwards.

WELD-IN SADDLE WITH FEMALE THREAD

for pressureless installation

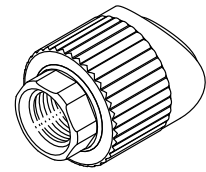
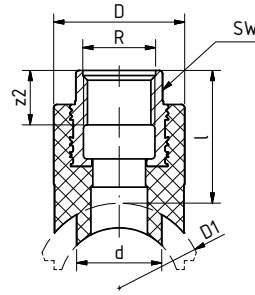
Systems: aquatherm green pipe, aquatherm blue pipe, aquatherm lilac pipe

Material: Fusiolen® PP-R

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

Colour: green

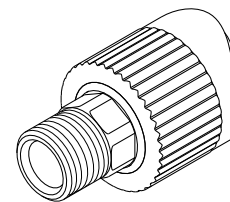
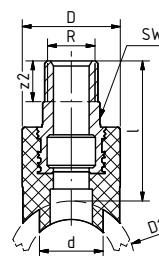
Notice *do not use with aquatherm blue pipe OT



SDR	Art.-No.	D1	d	l	z2	D	R	SW	Weight [kg]	System	PU	Box unit	Price € m/pc	
<i>socket welding</i>														
brass														
	28214*	40	25	39,00	15,50	38,50	1/2"	24	0,088	• • •	5			
	28216	50	25	39,00	15,50	38,50	1/2"	24	0,090	• • •	5			
	28218	63	25	39,00	15,50	38,50	1/2"	24	0,089	• • •	5			
	28220	75	25	39,00	15,50	38,50	1/2"	24	0,083	• • •	5			
	28222	90	25	39,00	15,50	38,50	1/2"	24	0,090	• • •	5			
	28224	110	25	39,00	15,50	38,50	1/2"	24	0,089	• • •	5			
	28226	125	25	39,00	15,50	38,50	1/2"	24	0,092	• • •	5			
	28230	160	25	39,00	15,50	38,50	1/2"	24	0,092	• •	5			
	28232	200-250	25	39,00	15,50	38,50	1/2"	24	0,092	• •	5			
	28234	40	25	39,00	20,50	43,50	3/4"	31	0,107	• • •	5			
	28236	50	25	39,00	20,50	43,50	3/4"	31	0,110	• • •	5			
	28238	63	25	39,00	20,50	43,50	3/4"	31	0,109	• • •	5			
	28240	75	25	39,00	20,50	43,50	3/4"	31	0,109	• • •	5			
	28242	90	25	39,00	20,50	43,50	3/4"	31	0,110	• • •	5			
	28244	110	25	39,00	20,50	43,50	3/4"	31	0,110	• • •	5			
	28246	125	25	39,00	20,50	43,50	3/4"	31	0,112	• • •	5			
	28250	160	25	39,00	20,50	43,50	3/4"	31	0,112	• •	5			
	28254	200-250	25	39,00	20,50	43,50	3/4"	31	0,112	• •	5			
	28260	75	32	43,00	22,00	60,00	1"	39	0,223	• • •	5			
	28262	90	32	43,00	22,00	60,00	1"	39	0,223	• • •	5			
	28264	110	32	43,00	22,00	60,00	1"	39	0,223	• • •	5			
	28266	125	32	43,00	22,00	60,00	1"	39	0,224	• • •	5			
6	28270	160	32	43,00	22,00	60,00	1"	39	0,226	• •	5			
7,4	28274	200-250	32	43,00	22,00	60,00	1"	39	0,244	• •	5			
9	stainless steel													
11	928214*	40	25	39,00	15,50	38,50	1/2"	24	0,088	• • •	5			
17,6	928216	50	25	39,00	15,50	38,50	1/2"	24	0,090	• • •	5			
	928218	63	25	39,00	15,50	38,50	1/2"	24	0,067	• • •	5			
	928220	75	25	39,00	15,50	38,50	1/2"	24	0,067	• • •	5			
	928222	90	25	39,00	15,50	38,50	1/2"	24	0,069	• • •	5			
	928224	110	25	39,00	15,50	38,50	1/2"	24	0,089	• • •	5			
	928226	125	25	39,00	15,50	38,50	1/2"	24	0,069	• • •	5			
	928230	160	25	39,00	15,50	38,50	1/2"	24	0,071	• •	5			
	928232	200-250	25	39,00	15,50	38,50	1/2"	24	0,000	• •	5			
	928234	40	25	39,00	20,50	43,50	3/4"	31	0,080	• • •	5			
	928236	50	25	39,00	20,50	43,50	3/4"	31	0,083	• • •	5			
	928238	63	25	39,00	20,50	43,50	3/4"	31	0,109	• • •	5			
	928240	75	25	39,00	20,50	43,50	3/4"	31	0,109	• • •	5			
	928242	90	25	39,00	20,50	43,50	3/4"	31	0,084	• • •	5			
	928244	110	25	39,00	20,50	43,50	3/4"	31	0,082	• • •	5			
	928246	125	25	39,00	20,50	43,50	3/4"	31	0,084	• • •	5			
	928250	160	25	39,00	20,50	43,50	3/4"	31	0,085	• •	5			
	928254	200-250	25	39,00	20,50	43,50	3/4"	31	0,083	• •	5			
	928260	75	32	43,00	22,00	60,00	1"	39	0,217	• • •	5			
	928262	90	32	43,00	22,00	60,00	1"	39	0,088	• • •	5			
	928264	110	32	43,00	22,00	60,00	1"	39	0,088	• • •	5			
	928266	125	32	43,00	22,00	60,00	1"	39	0,056	• • •	5			
	928270	160	32	43,00	22,00	60,00	1"	39	0,057	• •	5			
	928274	200-250	32	43,00	22,00	60,00	1"	39	0,057	• •	5			

WELD-IN SADDLE WITH MALE THREAD

for pressureless installation

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

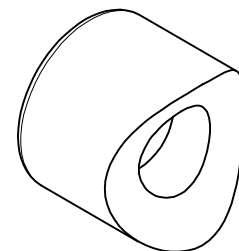
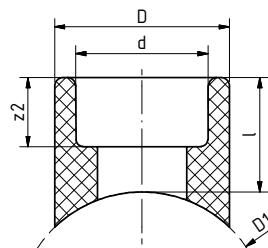
SDR	Art.-No.	D1	d	l	z2	D	R	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>													
	28314*	40	25	55,00	16,00	38,50	1/2"	21	0,088	• • •	5		
	28316	50	25	55,00	16,00	38,50	1/2"	21	0,090	• • •	5		
	28318	63	25	55,00	16,00	38,50	1/2"	21	0,089	• • •	5		
	28320	75	25	55,00	16,00	38,50	1/2"	21	0,097	• • •	5		
	28322	90	25	55,00	16,00	38,50	1/2"	21	0,090	• • •	5		
	28324	110	25	55,00	16,00	38,50	1/2"	21	0,089	• • •	5		
6	28326	125	25	55,00	16,00	38,50	1/2"	21	0,092	• • •	5		
7,4	28330	160	25	55,00	16,00	38,50	1/2"	21	0,092	• • •	5		
9	28334	40	25	56,00	17,00	43,50	3/4"	24	0,107	• • •	5		
11	28336	50	25	56,00	17,00	43,50	3/4"	24	0,110	• • •	5		
17,6	28338	63	25	56,00	17,00	43,50	3/4"	24	0,109	• • •	5		
	28340	75	25	56,00	17,00	43,50	3/4"	24	0,109	• • •	5		
	28342	90	25	56,00	17,00	43,50	3/4"	24	0,110	• • •	5		
	28344	110	25	56,00	17,00	43,50	3/4"	24	0,110	• • •	5		
	28346	125	25	56,00	17,00	43,50	3/4"	24	0,112	• • •	5		
	28350	160	25	56,00	17,00	43,50	3/4"	24	0,112	• • •	5		

With hex shaped male thread, weld-in surface and weld-in socket for fusion with the inner wall of the pipe. The necessary tools for the fusion of aquatherm green pipe weld-in saddles are listed from page 94 onwards.

NEW aquatherm WELD-ON SADDLE

for installation under pressure

in use with tapping tool page 96

Systems: aquatherm green pipe, aquatherm blue pipe, aquatherm lilac 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	D1	l	z2	D	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>											
	16175	40	75	34,00	20,5	52,00	0,040	• • •	5		
	16181	40	90	34,00	20,5	52,00	0,040	• • •	5		
	16188	40	110	34,00	20,5	52,00	0,039	• • •	5		
	16196	40	125	34,00	20,5	52,00	0,038	• • •	5		
6	16198	63	125	38,00	27,5	84,00	0,119	• • •	5		
7,4	16212	40	160	34,00	20,5	52,00	0,038	• • •	5		
9	16216	63	160	38,00	27,5	84,00	0,993	• • •	5		
11	16231	40	200	34,00	20,5	52,00	0,036	• • •	5		
17,6	16233	63	200	37,50	27,5	84,00	0,108	• • •	5		
	16251	40	250	34,00	20,5	52,00	0,036	• • •	5		
	16253	63	250	37,50	27,5	84,00	0,108	• • •	5		
	16260	63	315-355	37,50	27,5	84,00	0,106	• • •	5		
	16300	63	400-630	37,50	27,5	84,00	0,103	• • •	5		

The necessary tools for the fusion of aquatherm green pipe weld-in saddles are listed from page 99 onwards.

FLANGE ADAPTER SOCKET WELDING

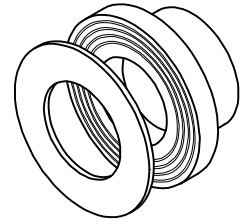
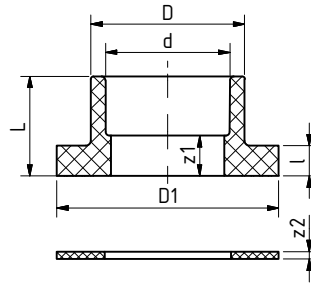
with gasket

Systems: aquatherm green pipe, aquatherm blue pipe, aquatherm lilac pipe

Material: Fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	Dimension d [mm]	L	I	D	D1	z1	z2	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>													
6 7,4 9 11	15512	32	34,00	10,00	41,00	68,00	16,00	3	0,053	• • •	1		
	15514	40	35,50	11,00	50,00	78,00	15,00	3	0,071	• • •	1		
	15516	50	39,50	12,00	61,00	88,00	16,00	3	0,071	• • •	1		
	15518	63	43,50	14,00	76,00	102,00	16,00	3	0,112	• • •	1		
	15520	75	46,00	16,00	90,00	122,00	16,00	3	0,169	• • •	1		
	15522	90	50,00	17,00	108,00	138,00	17,00	3	0,261	• • •	1		
	15524	110	55,50	18,50	131,00	158,00	18,50	3	0,329	• • •	1		
	15527	125	63,00	20,00	165,00	188,00	23,00	3	0,724	• • •	1		

FLANGE ADAPTER SOCKET WELDING

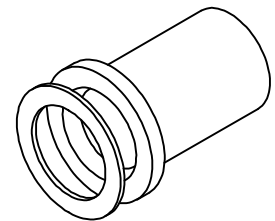
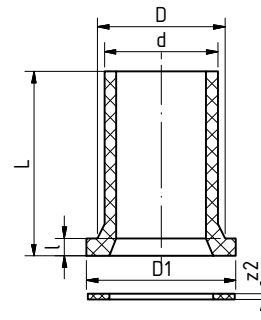
with gasket

Systems: aquatherm green pipe, aquatherm blue pipe, aquatherm lilac pipe

Material: Fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



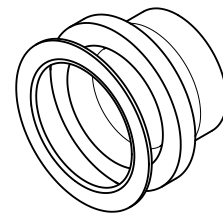
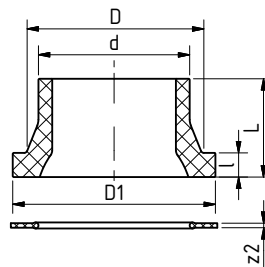
SDR	Art.-No.	Dimension d [mm]	L	I	D	D1	z2	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7,4 9 11	15526	125	195,00	18,50	131,00	158,00	3	1,180	• • •	1		

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

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

FLANGE ADAPTER BUTT WELDING

with gasket

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

SDR	Art.-No.	Dimension d [mm]	L	l	D	D1	z2	Weight [kg]	System	PU	Box unit	Price € m/pc	
<i>butt welding</i>													
9	15530	160	93,00	25,00	175,00	212,00	3,00	1,163	•	1			
	15534	200	130,00	32,00	232,00	268,00	6,00	2,292	•	1			
	15538	250	130,00	35,00	285,00	320,00	6,00	3,298	•	1			
	315530	160	93,00	25,00	175,00	212,00	3	1,150	•	1			
	315534	200	130,00	32,00	232,00	268,00	6	2,292	•	1			
	315538	250	130,00	35,00	285,00	320,00	6	3,313	•	1			
	315542	315	172,50	52,00	337,00	370,00	6	5,640	•	1			
	315544	355	185,00	42,00	372,00	432,00	6	14,318	•	1			
	11	15531	160	93,00	25,00	175,00	212,00	3	0,955	• •	1		
		15535	200	130,00	32,00	232,00	268,00	6	1,957	• •	1		
15539		250	130,00	35,00	285,00	320,00	6	2,717	• •	1			
15543		315	170,00	35,00	335,00	370,00	6	5,650	• •	1			
15545		355	185,00	42,00	372,00	432,00	6	9,000	• •	1			
15547		400	195,00	50,00	425,00	484,00	6	12,000	• •	1			
15549		450	220,00	75,00	512,00	586,00	7	16,500	• •	1			
17,6	2515530	160	93,00	25,00	175,00	212,00	3	0,821	•	1			
	2515534	200	130,00	32,00	232,00	268,00	6	1,849	•	1			
	2515538	250	130,00	35,00	285,00	320,00	6	2,736	•	1			
	2515542	315	170,00	35,00	335,00	370,00	6	4,500	•	1			
	2515544	355	185,00	42,00	372,00	432,00	6	6,500	•	1			
	2515546	400	199,00	33,00	425,00	484,00	6	8,500	•	1			
	2515548	450	140,00	46,00	512,00	586,00	7	12,000	•	1			
	2515550	500	141,00	47,00	525,00	585,00	7	9,800	•	1			
	2515552	560	141,00	50,00	612,00	685,00	7	13,800	•	1			
2515554	630	142,00	50,00	640,00	688,00	7	12,600	•	1				

NEW FLANGE ADAPTER INCL. FLANGE PN6

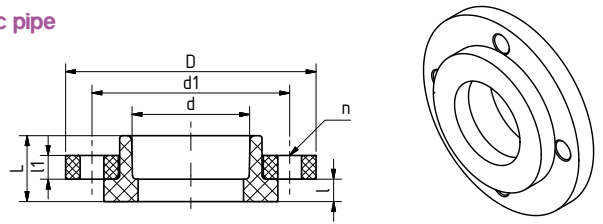
without gasket

Systems: aquatherm green pipe, aquatherm blue pipe, aquatherm lilac pipe

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

Colour: Flange: silver
Flange adapter: green

Connection dimensions, excluding internal diameter (d1), according to DIN 2641, DN-dependent hole-circle PN 6



SDR	Art.-No.	Diameter d	D	d1	L	l1	l	n	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>													
6 7,4 9 11 17,6	15012	32	100,00	75,00	34,00	14,00	10,00	4	1,090	• • •	1		
	15014	40	120,00	90,00	35,50	16,00	11,00	4	1,170	• • •	1		
	15016	50	130,00	100,00	39,50	16,00	12,00	4	1,360	• • •	1		
	15018	63	140,00	110,00	43,50	16,00	14,00	4	1,530	• • •	1		
	15020	75	160,00	130,00	46,00	16,00	16,00	4	1,930	• • •	1		
	15022	90	190,00	150,00	50,00	18,00	17,00	4	3,080	• • •	1		
	15024	110	210,00	170,00	55,50	18,00	18,50	4	3,430	• • •	1		
15027	125	240,00	200,00	63,00	20,00	20,00	8	3,945	• • •	1			

Delivery time: on request

NEW FLANGE ADAPTER INCL. FLANGE PN6

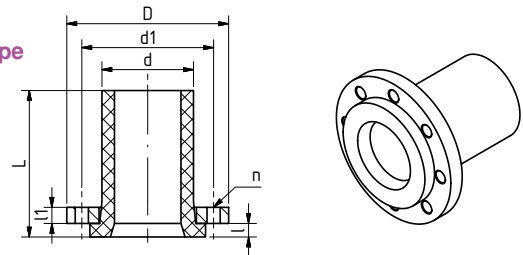
without gasket

Systems: aquatherm green pipe, aquatherm blue pipe, aquatherm lilac pipe

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

Colour: Flange: silver
Flange adapter: green

Connection dimensions, excluding internal diameter (d1), according to DIN 2641, DN-dependent hole-circle PN 6



SDR	Art.-No.	Diameter d	D	d1	L	l1	l	n	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7,4 9 11 17,6	15026	125	210,00	170,00	195,00	18,00	18,50	4	3,760	• • •	1		

Delivery time: on request

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

NEW FLANGE ADAPTER INCL. FLANGE PN6

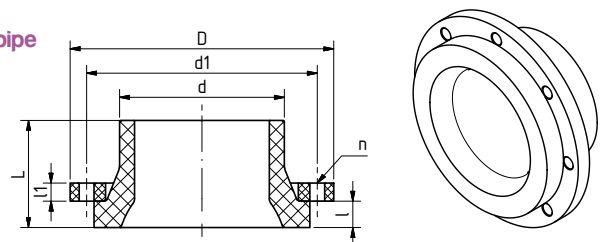
without gasket

Systems: aquatherm green pipe, aquatherm blue pipe, aquatherm lilac pipe

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

Colour: Flange: silver
Flange adapter: green

Connection dimensions, excluding internal diameter (d1), according to DIN 2641, DN-dependent hole-circle PN 6



SDR	Art.-No.	Diameter d	D	d1	L	l1	l	n	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>Butt welding</i>													
11	15031	160	265,00	225,00	93,00	20,00	25,00	8	4,136	• •	1		
	15035	200	320,00	280,00	130,00	22,00	32,00	8	6,694	• •	1		
	15039	250	375,00	335,00	130,00	24,00	35,00	8	9,500	• •	1		

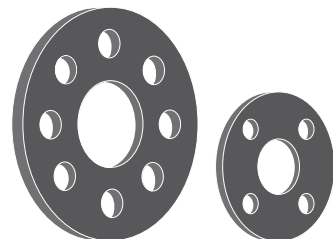
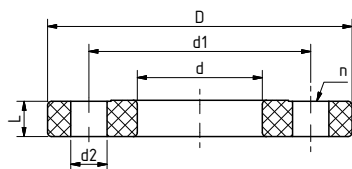
Delivery time: on request

PLASTIC COATED STEEL FLANGE

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: PP/steel

Colour: grey



Connection dimensions, excluding internal diameter (d1), according to DIN EN1092, DIN2501, DN-dependent hole-circle PN 10/16.

SDR	Art.-No.	Dimension	fits to Art.-No.	d	d1	D	d2	L	n	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>														
	15712	32	15512	42,00	85,00	116,00	14,00	15,50	4	0,469	• • •	1		
	15714	40	15514	51,00	100,00	141,00	18,00	17,50	4	0,722	• • •	1		
	15716	50	15516	62,00	110,00	151,00	18,00	17,50	4	0,770	• • •	1		
	15718	63	15518	78,00	125,00	166,00	18,00	19,00	4	0,911	• • •	1		
	15720	75	15520	92,00	145,00	186,00	18,00	19,00	4	1,132	• • •	1		
	15722	90	15522	110,00	160,00	201,00	18,00	21,00	8	1,356	• • •	1		
	15724	110	15524/26	133,00	180,00	221,00	18,00	22,00	8	1,475	• • •	1		
	15726	125	15527	167,00	210,00	251,00	18,00	26,00	8	2,082	• • •	1		
	15730	160	15531 315530 2515530	178,00	240,00	286,00	22,00	27,00	8	3,671	• •	1		
6 7,4 9 11 17,6	15734	200	15535 315534 2515534	235,00	295,00	341,00	22,00	28,00	8	4,709	• •	1		
	15738	250	15539 315538 2515538	288,00	350,00	406,00	22,00	31,00	12	7,094	• •	1		
	15742	315	15543 315542 2515542	340,00	400,00	460,00	22,00	33,50	12	9,500	• •	1		
	15744	355	15545 315544 2515544	380,00	460,00	520,00	22,00	39,00	16	15,300	• •	1		
	15746	400	15547 2515546	430,00	515,00	565,00	26,00	34,00	16	19,680	• •	1		
	*15748	450	15549 2515548	517,00	620,00	670,00	26,00	42,00	20	22,880	• •	1		
	*15750	500	2515550	533,00	620,00	670,00	26,00	38,00	20	19,000	• •	1		
	*15752	560	2515552	618,00	725,00	785,00	30,00	50,00	20	37,200	• •	1		
	*15754	630	2515554	645,00	725,00	785,00	30,00	40,00	20	25,800	• •	1		

ø200-630mm (Art.- No. 15934-15954) also available on request in PN16.

*Material: steel/epoxyd

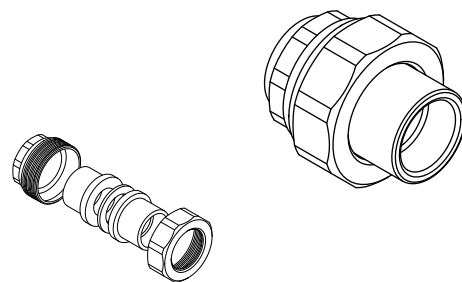
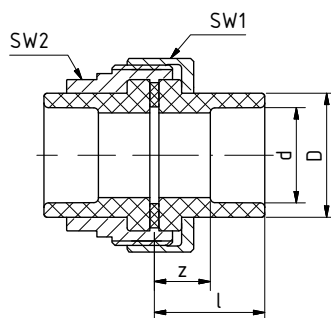
COUPLING SCREW JOINT

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

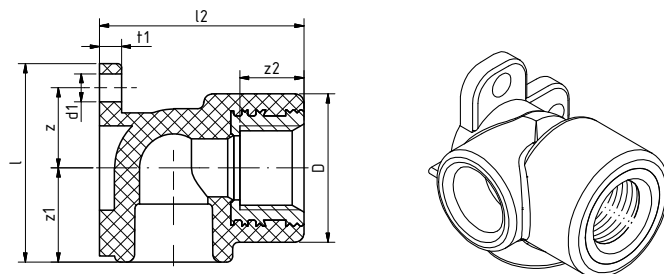
Standard: DIN 16962, DIN EN ISO 15874

Colour: green, brassy



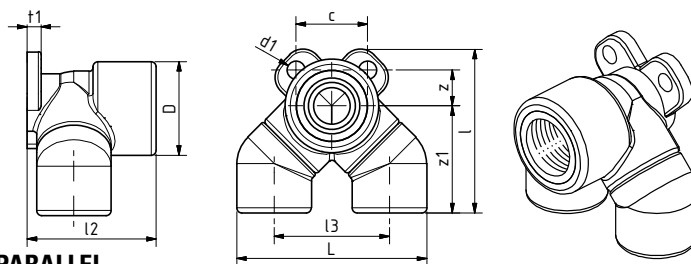
SDR	Art.-No.	Dimension d [mm]	l	z	D	SW1	SW2	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>												
	15812	32	36,50	18,50	41,00	64	50	0,479	• • •	1		
6	15814	40	38,00	17,50	50,00	80	60	0,841	• • •	1		
7.4	15816	50	41,00	17,50	61,00	86	70	0,821	• • •	1		
9	15818	63	45,00	17,50	76,00	108	90	1,498	• • •	1		
11	15820	75	47,50	17,50	90,00	128	104	1,998	• • •	1		

PRINCIPLE OF FLOW-THROUGH BACK PLATE ELBOW



aquatherm green pipe FLOW-THROUGH BACK PLATE ELBOW 90°

Art.- No.	Dimension	D	d1	l	l2	t1	z	z1	z2	PU	Box unit	Price € m/pc
20197	20mm x 1/2" f x 20 mm	37,00	7,00	49,50	51,00	5,50	20,00	23,50	16,00	1		



aquatherm green pipe FLOW-THROUGH BACK PLATE ELBOW, PARALLEL

Art.- No.	Dimension	D	d1	L	l	l2	l3	c	t1	z	z1	PU	Box unit	Price € m/pc
20198	20mm x 1/2" f x 20 mm	37,00	7,00	75,00	65,00	51,00	45,60	28,30	5,50	14,00	42,30	1		

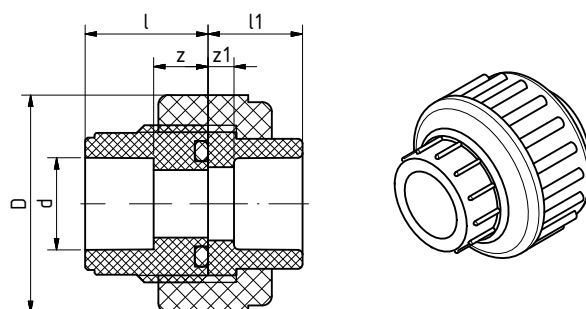
COUPLING SCREW JOINT

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

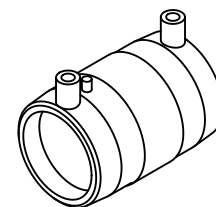
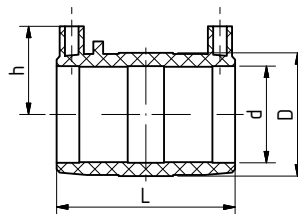
Colour: green



SDR	Art.-No.	Dimension d [mm]	l	z	l1	z1	D	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>												
6 7.4 9 11	15838	20	26,00	12,00	20,00	5,50	46,00	0,036	• • •	10		
	15840	25	28,00	12,00	21,00	5,00	56,00	0,058	• • •	10		
	15842	32	30,00	12,00	23,00	5,00	66,00	0,089	• • •	5		
	15844	40	34,00	13,50	25,50	5,00	79,00	0,136	• • •	5		
	15846	50	39,00	15,50	28,80	5,00	87,00	0,170	• • •	5		
	15848	63	47,50	20,00	32,50	5,00	107,00	0,240	• • •	1		
	15850	75	50,00	20,00	36,00	6,00	128,00	0,546	• • •	1		

ELECTROFUSION SOCKET

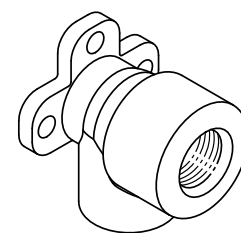
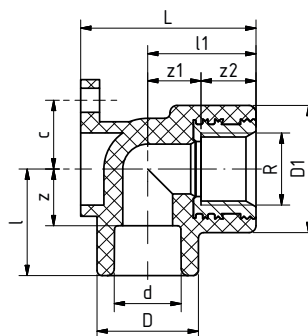
- Systems:** aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe
- Material:** Fusiolen® PP-R
- Standard:** DIN 16962, DIN EN ISO 15874
- Colour:** green
- Notice** do not use with 160 mm - 250 mm fittings
*do not use with aquatherm blue pipe MF OT



SDR	Art.-No.	Dimension d [mm]	L	h	D	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>Electro-socket welding</i>										
6 7,4 9 11 17,6	17208	20	70,00	36,00	31,50	0,049	• • •	1		
	17210	25	78,00	38,50	36,50	0,057	• • •	1		
	17212	32	80,00	42,50	45,00	0,077	• • •	1		
	17214	40	92,00	47,00	54,00	0,103	• • •	1		
	17216	50	103,00	52,00	65,00	0,142	• • •	1		
	17218	63	118,00	58,00	81,50	0,239	• • •	1		
	17220	75	130,00	64,50	96,00	0,347	• • •	1		
	17222	90	145,00	72,00	113,50	0,501	• • •	1		
	17224	110	160,00	82,50	139,00	0,821	• • •	1		
	17226	125	172,00	90,00	156,00	1,097	• • •	1		
	17230*	160	186,00	109,50	197,00	1,754	• • •	1		
	17234*	200	210,00	134,00	243,00	3,625	• • •	1		
	17238*	250	250,00	170,00	315,00	7,142	• • •	1		

BACK PLATE ELBOW

- Systems:** aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe
- Material:** Fusiolen® PP-R, brass
Fusiolen® PP-R, stainless steel
- Standard:** DIN 16962, DIN EN ISO 15874
- Colour:** green



SDR	Art.-No.	d	R	l	z	D	l1	z1	z2	D1	L	c	Weight [kg]	System	PU	Box unit	Price € m/pc	
<i>socket welding</i>																		
brass																		
6 7,4 11	20106	16	1/2"	31,00	18,00	29,50	31,50	18,50	13,00	37,00	51,00	20,00	0,080	•		200		
	20108	20	1/2"	31,00	16,50	29,50	31,50	18,50	13,00	37,00	51,00	20,00	0,079	• • •		200		
	20110	20	3/4"	37,00	22,50	34,00	37,00	24,00	13,00	44,00	54,00	-	0,106	• • •				
	20112	25	3/4"	37,00	21,00	34,00	37,00	24,00	13,00	44,00	54,00	-	0,105	• • •				
	20113	25	1/2"	33,50	17,50	34,00	31,00	18,00	13,00	37,00	53,00	20,00	0,080	• • •				
	stainless steel																	
	920108	20	1/2"	31,00	16,50	29,50	31,50	18,50	13,00	37,00	51,00	20,00	0,084	•				
	920110	20	3/4"	37,00	22,50	34,00	37,00	24,00	13,00	44,00	54,00	-	0,101	• • •				
	920112	25	3/4"	37,00	21,00	34,00	37,00	24,00	13,00	44,00	54,00	-	0,111	• • •				
	920113	25	1/2"	33,50	17,50	34,00	31,00	18,00	13,00	37,00	53,00	20,00	0,076	• • •				

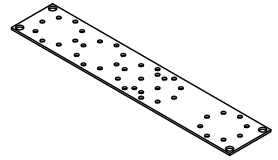
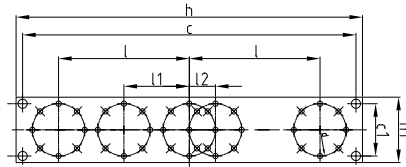
MOUNTING PLATE

galvanized; to fix back plate elbows as double connection

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: iron, galvanized

Colour: zinc



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

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

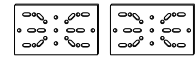
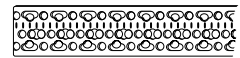
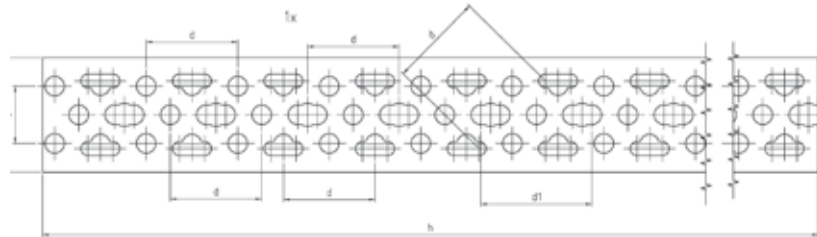
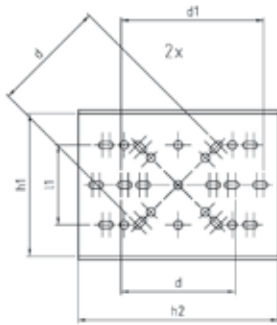
MOUNTING PLATE

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

Systems: aquatherm green pipe, aquatherm blue pipe, aquatherm lilac pipe

Material: iron, galvanized

Colour: zinc



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

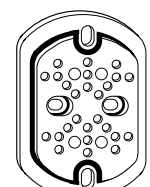
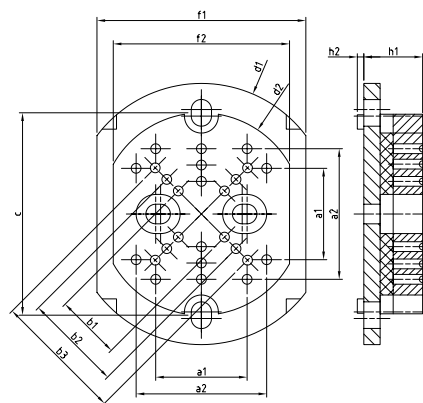
SOUND INSULATION PLATE

for aquatherm green pipe-and aquatherm grey pipe-back plate elbow

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: PP

Colour: white



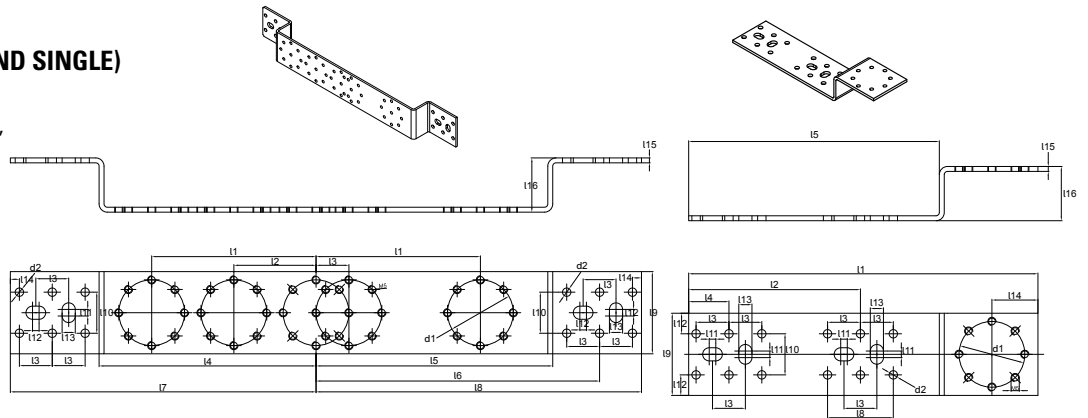
Art.-No.	a1	a2	b1	b2	b3	c	d1	d2	f1	f2	h1	h2	Weight [kg]	System	PU	Box unit	Price € m/pc
79080	28	20	30	40	62	62	80	62	64	54	18	2	0,058	• • •	2		

MOUNTING RAIL (DOUBLE AND SINGLE)

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: iron, galvanized

Colour: zinc

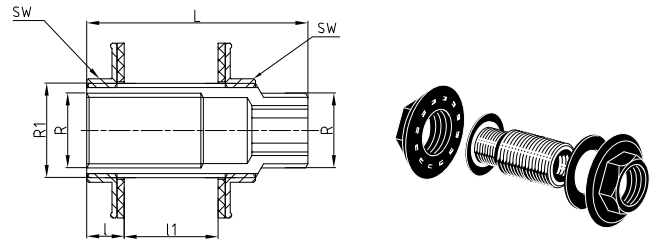


Art.-No.	ø d1	ø d2	Weight [kg]	System	PU	Price € m/pc
79095	40	5,1	0,412	• • •	2	
79096	40	5,1	0,235	• • •	2	

DRY CONSTRUCTION WALL FITTING

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: brass



Art.-No.	R	R1	l	l1	L	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
20114	1/2"	3/4"	10,50	26,00	62,00	30	0,213	• • •	10		

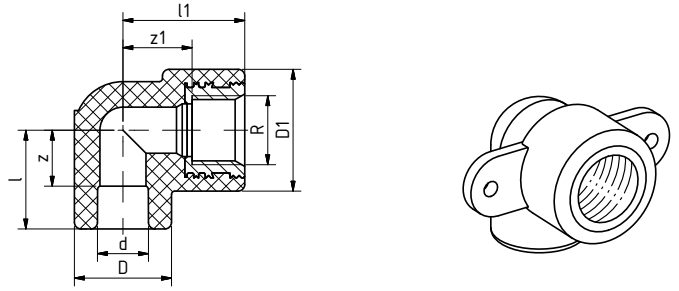
BACK PLATE ELBOW FOR DRY CONSTRUCTION

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

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

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	R	l	z	D	l1	z1	D1	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>														
brass														
6	20156	16	1/2"	30,00	17,00	29,50	37,00	24,00	37,00	0,081	•	10		
7,4	20158	20	1/2"	30,00	15,50	29,50	37,00	24,00	37,00	0,079	• • •	10		
11	stainless steel													
	920158	20	1/2"	30,00	15,50	29,50	37,00	24,00	37,00	0,078	• • •	10		

TRANSITION PIECE

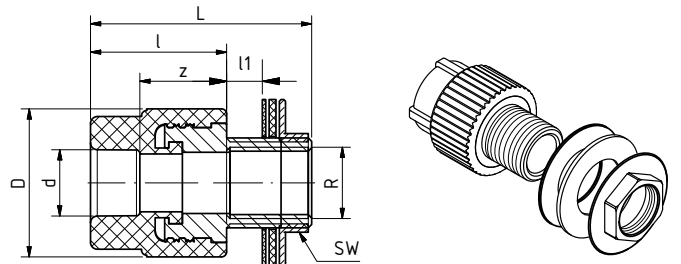
with counternut, gasket and tension washer

Systems: aquatherm green pipe aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	R	l	z	D	l1	L	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>														
6	20204	20	1/2"	40,00	25,50	43,50	13,50	65,00	29	0,204	• • •	10		
7,4														
11														

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

TRANSITION ELBOW

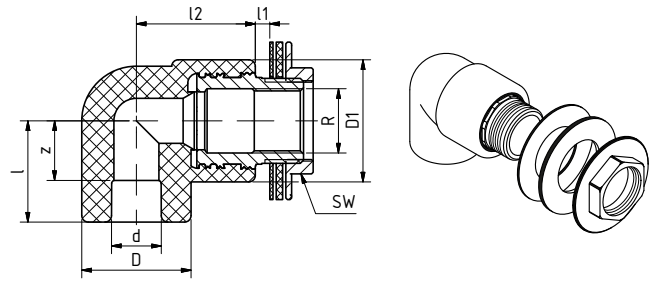
with counter nut, gasket and tension washer

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	R	l	z	D	l1	l2	D1	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>															
6	20206	16	1/2"	37,00	24,00	29,50	3,50	35,00	44,00	29	0,201	•	10		
7,4	20208	20	1/2"	37,00	22,50	29,50	3,50	35,00	44,00	29	0,154	• • •	10		
11	20209	25	1/2"	37,00	21,00	34,00	3,50	37,00	44,00	29	0,206	• • •	10		

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

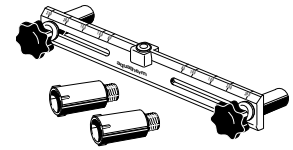
ASSEMBLING JIG

as water level with 2 plugs 1/2"

Systems: aquatherm green pipe, aquatherm blue pipe, aquatherm lilac pipe

Material: Fusiolen® PP-R

Colour: green



Art.-No.	Weight [kg]	System	PU	Box unit	Price € m/pc
50700	0,252	• • •	1		

PLUG FOR PRESSURE TESTS

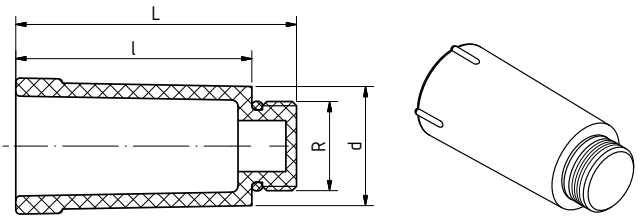
with gasket

Systems: aquatherm green pipe, aquatherm blue pipe, aquatherm lilac pipe

Material: Fusiolen® PP-R

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



Art.-No.	d	R	l	L	Weight [kg]	System	PU	Box unit	Price € m/pc
50708	28	1/2"	55,50	66,00	0,022	• • •	10		
50710	34	3/4"	55,50	66,00	0,027	• • •	10		

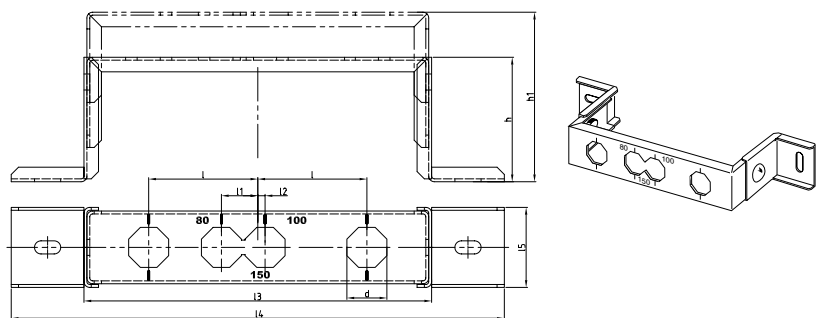
MOUNTING UNIT

double

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: iron/galvanized

Colour: zinc



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

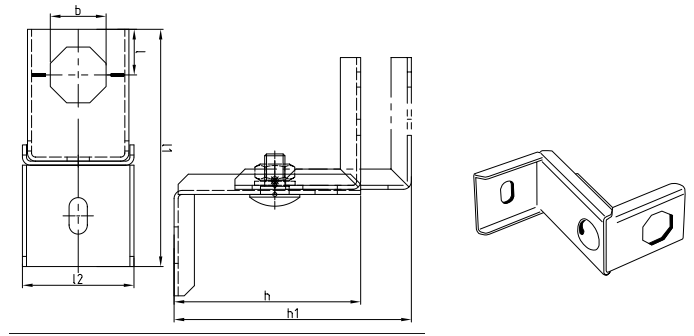
MOUNTING UNIT

single

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: iron/galvanized

Colour: zinc



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

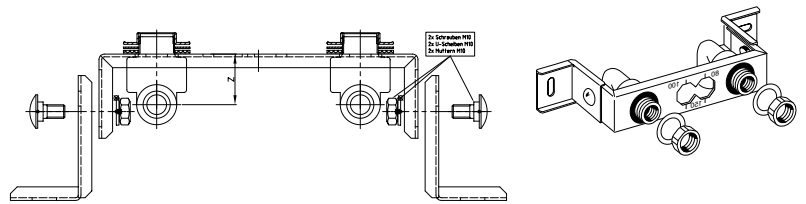
MOUNTING UNIT

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

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

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

Colour: green
zinc



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

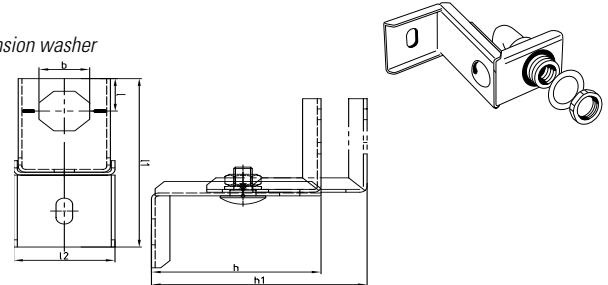
MOUNTING UNIT

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

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

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

Colour: green
zinc



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

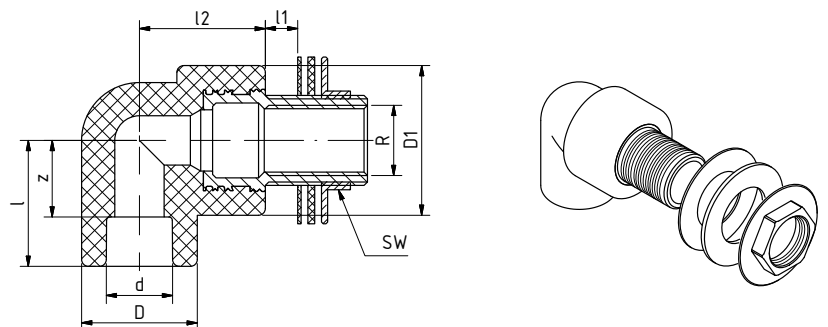
TRANSITION ELBOW

for plasterboard

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Colour: green



SDR	Art.-No.	d	R	l	z	D	L	l1	D1	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
6															
7.4	20210	20	1/2"	37,00	22,50	29,50	18,50	35,00	44,00	29	0,223	• • •	10		
11															

with 30 mm thread, counternut, gasket and tension washer

TRANSITION PIECE WITH FEMALE THREAD

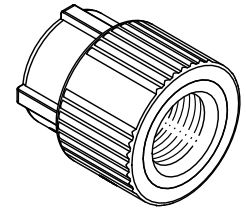
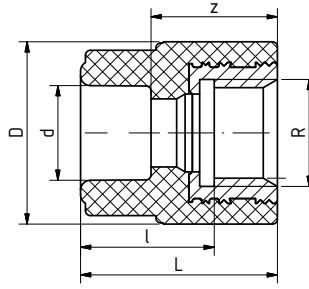
round

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

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

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	R	l	z	D	L	Weight [kg]	System	PU	Box unit	Price € m/pc
brass												
	21006	16	1/2"	28,00	28,00	38,50	41,00	0,066	•	10		
	21008	20	1/2"	27,50	26,00	37,50	40,50	0,064	• • •	10	400	
	21010	20	3/4"	27,50	26,00	43,50	40,50	0,089	• • •	10	300	
	21011	25	1/2"	29,50	26,50	38,50	42,50	0,065	• • •	10	400	
	21012	25	3/4"	27,50	24,50	43,50	40,50	0,087	• • •	10	300	
6	21013	32	3/4"	30,50	25,50	43,50	43,50	0,092	• • •	5	250	
7,4	stainless steel											
9	921008	20	1/2"	27,50	26,00	37,50	40,50	0,069	• • •	10		
11	921010	20	3/4"	27,50	26,00	43,50	40,50	0,090	• • •	10		
	921011	25	1/2"	29,50	26,50	38,50	42,50	0,069	• • •	10		
	921012	25	3/4"	27,50	24,50	43,50	40,50	0,086	• • •	10		
	921013	32	3/4"	30,50	25,50	43,50	43,50	0,092	• • •	5		
	921014	32	1/2"	28,00	23,00	37,00	41,00	0,078	• • •	5		

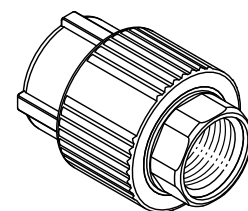
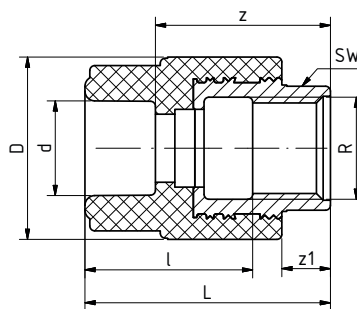
TRANSITION PIECE WITH FEMALE THREAD*hex shaped threaded transition*

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

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

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	R	l	z	z1	D	L	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
brass														
6 7,4 9 11	21106	16	1/2"	34,50	37,50	10,00	38,50	50,50	24	0,089	•	10		
	21108	20	1/2"	34,50	36,00	10,00	38,50	50,50	24	0,078	• • •	10	400	
	21110	20	3/4"	29,00	35,50	10,00	43,50	50,00	31	0,112	• • •	10	300	
	21111	25	1/2"	36,00	36,00	10,00	38,50	52,00	24	0,081	• • •	10	300	
	21112	25	3/4"	29,00	34,00	10,00	43,50	50,00	31	0,109	• • •	10	300	
	21113	32	3/4"	32,00	35,00	10,00	43,50	53,00	31	0,114	• • •	5	250	
	21114	32	1"	37,50	41,50	14,00	60,00	59,50	39	0,239	• • •	5	125	
	21115	40	1"	40,00	41,50	14,00	60,00	62,00	39	0,227	• • •	5		
	21116	40	1 1/4"	40,00	42,50	15,00	74,00	63,00	50	0,385	• • •	5		
	21117	50	1 1/4"	43,00	42,50	15,00	74,00	66,00	50	0,404	• • •	5		
	21118	50	1 1/2"	45,00	43,50	15,00	84,00	67,00	55	0,418	• • •	5		
	21119	63	1 1/2"	51,50	46,00	15,00	84,00	73,50	55	0,442	• • •	1		
21120	63	2"	51,00	49,50	19,00	101,00	77,00	67	0,600	• • •	1			
21122	75	2"	51,00	47,00	19,00	100,00	77,00	67	0,608	• • •	1			
stainless steel														
	921114	32	1"	37,50	41,50	14,00	60,00	59,50	39	0,232	• • •	5		
	921115	40	1"	40,00	41,50	14,00	60,00	62,00	39	0,219	• • •	5		
	921116	40	1 1/4"	40,00	42,50	15,00	74,00	63,00	50	0,331	• • •	5		
	921117	50	1 1/4"	43,00	42,50	15,00	74,00	66,00	50	0,351	• • •	5		
	921118	50	1 1/2"	45,00	43,50	15,00	84,00	67,00	55	0,445	• • •	5		
	921119	63	1 1/2"	51,50	46,00	15,00	84,00	73,50	55	0,425	• • •	1		
	921120	63	2"	51,00	49,50	19,00	101,00	77,00	67	0,196	• • •	1		
	921122	75	2"	51,00	47,00	19,00	100,00	77,00	67	0,676	• • •	1		

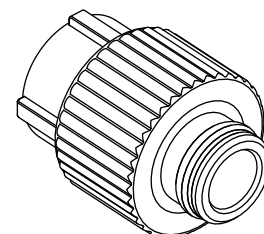
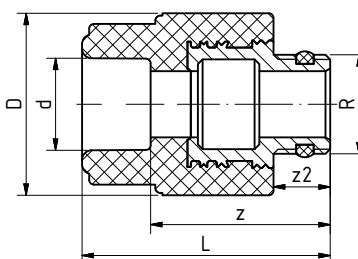
TRANSITION PIECE WITH MALE THREAD*round, self sealing*

Systems: aquatherm green pipe, aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	R	L	z	z2	D	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7,4 11	21258	20	1/2"	52,50	38,00	12,00	38,50	0,090	• • •	10		
	21261	25	1/2"	54,00	38,00	12,00	38,50	0,078	• • •	10		
	21262	25	3/4"	53,50	37,50	13,00	38,50	0,085	• • •	10		

TRANSITION PIECE WITH MALE THREAD

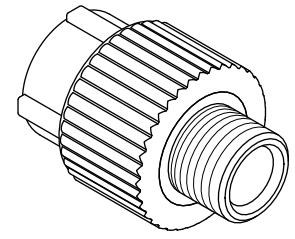
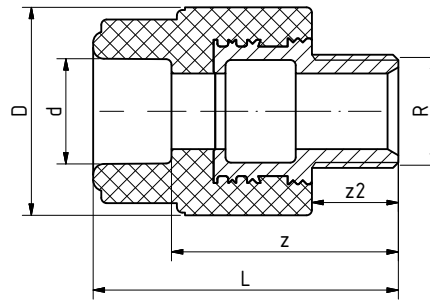
round

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

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

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	R	L	z	z2	D	Weight [kg]	System	PU	Box unit	Price € m/pc	
brass													
6 7,4 9 11	21206	16	1/2"	56,50	43,50	16,00	38,50	0,097	•	10			
	21208	20	1/2"	56,50	42,00	16,00	38,50	0,084	• • •	10	350		
	21210	20	3/4"	57,50	43,00	17,00	38,50	0,109	• • •	10	300		
	21211	25	1/2"	58,00	42,00	16,00	38,50	0,098	• • •	10	300		
	21212	25	3/4"	57,50	41,50	17,00	38,50	0,090	• • •	10	350		
	21213	32	3/4"	59,50	41,50	17,00	38,50	0,115	• • •	5	250		
	stainless steel												
	921208	20	1/2"	56,50	42,00	16,00	38,50	0,096	• • •	10			
	921210	20	3/4"	57,50	43,00	17,00	38,50	0,108	• • •	10			
	921211	25	1/2"	58,00	42,00	16,00	38,50	0,098	• • •	10			
	921212	25	3/4"	57,50	41,50	17,00	38,50	0,108	• • •	10			
921213	32	3/4"	59,50	41,50	17,00	38,50	0,115	• • •	5				

TRANSITION PIECE WITH MALE THREAD

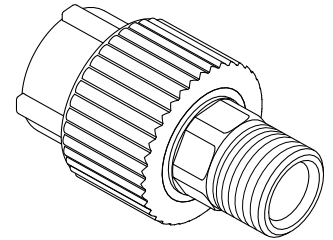
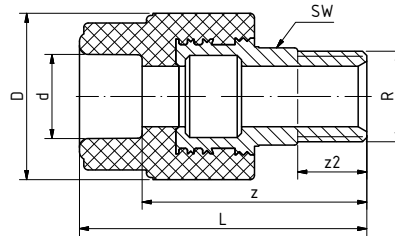
with hexagon or *octagon

Systems: aqualtherm green pipe,
aqualtherm blue pipe,
aqualtherm lilac pipe

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

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	R	SW	L	z	z2	D	Weight [kg]	System	PU	Box unit	Price € m/pc
brass													
	21306	16	1/2"	22	66,50	53,50	16,00	38,50	0,119	•	10		
	21308	20	1/2"	22	66,50	52,00	16,00	38,50	0,104	• • •	10		
	21310	20	3/4"	24	67,50	53,00	18,00	38,50	0,129	• • •	10		
	21312	25	3/4"	24	67,50	51,50	18,00	38,50	0,103	• • •	10	300	
	21314	32	1"	30	78,50	60,50	20,00	53,00	0,216	• • •	5	125	
	21316	32	1 1/4"	41	81,00	63,00	21,00	68,00	0,318	• • •	5	100	
	21317	40	1"	30	81,00	60,50	20,00	52,00	0,222	• • •	5	100	
	21318	40	1 1/4"	41	84,50	64,00	21,00	68,00	0,324	• • •	5	80	
	21319	50	1 1/4"	41	85,50	62,00	21,00	68,00	0,351	• • •	5		
	21320	50	1 1/2"	46	88,50	65,00	22,00	74,00	0,425	• • •	5		
	21321	63	1 1/2"	46	94,50	67,00	27,00	72,50	0,467	• • •	1		
6	21322	63	2"	50	102,50	75,00	23,50	84,00	0,685	• • •	1		
7,4	21323	75	2"	50	102,00	72,00	23,50	84,00	0,733	• • •	1		
9	21324	75	2 1/2"	65	105,00	75,00	26,70	100,00	0,970	• • •	1		
11	21325*	90	3"	85	121,00	88,00	30,00	120,00	1,326	• • •	1		
	21327*	110	4"	105	148,00	111,00	39,00	147,00	2,730	• • •	1		
stainless steel													
	921314	32	1"	32	78,50	60,50	20,00	53,00	0,204	• • •	5		
	921316	32	1 1/4"	41	81,00	63,00	21,00	68,00	0,360	• • •	5		
	921317	40	1"	32	81,00	60,50	20,00	52,00	0,251	• • •	5		
	921318	40	1 1/4"	41	84,50	64,00	21,00	68,00	0,362	• • •	5		
	921319	50	1 1/4"	41	85,50	62,00	21,00	68,00	0,389	• • •	5		
	921320	50	1 1/2"	46	88,50	65,00	22,00	74,00	0,480	• • •	5		
	921321	63	1 1/2"	46	94,50	67,00	27,00	72,50	0,523	• • •	1		
	921322	63	2"	50	102,50	75,00	23,50	84,00	0,708	• • •	1		
	921323	75	2"	50	102,00	72,00	23,50	84,00	0,699	• • •	1		

TRANSITION PIECE WITH MALE THREAD

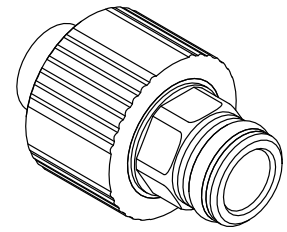
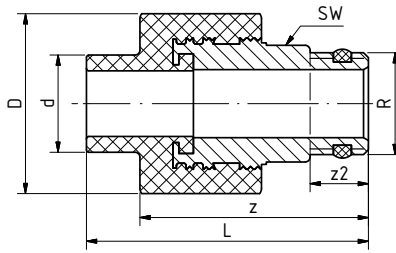
self-sealing, with hex shaped threaded transition
male/male

Systems: aquatherm green pipe, aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	R	L	z	z2	D	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
6													
7,4	21355	20	1/2"	59,00	48,00	13,00	38,50	22	0,107	• • •	10		
11													

TRANSITION PIECE WITH MALE THREAD

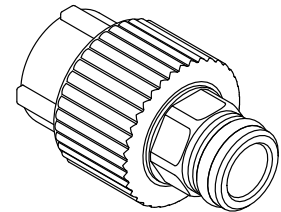
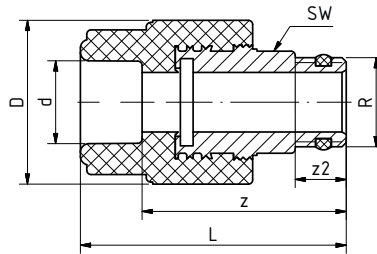
self-sealing, with hex shaped threaded transition
female/male

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	R	L	z	z2	D	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
6	21356	16	1/2"	63,50	50,50	13,00	38,50	22	0,112	•	10		
7,4													
11	21358	20	1/2"	63,50	49,00	13,00	38,50	22	0,111	• • •	10		

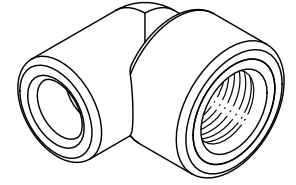
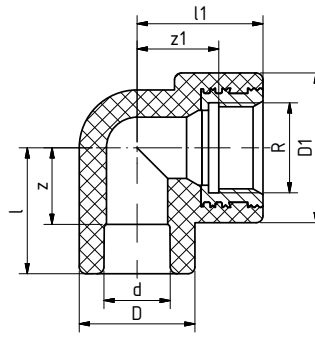
TRANSITION ELBOW WITH FEMALE THREAD

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

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

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	R	l	z	D	l1	z1	D1	Weight [kg]	System	PU	Box unit	Price € m/pc
brass														
	23006	16	1/2"	31,50	18,50	29,50	37,00	24,00	37,00	0,072	•	10		
	23008	20	3/4"	37,00	22,50	34,00	37,00	24,00	44,00	0,102	• • •	10		
	23010	20	1/2"	31,00	16,50	29,50	31,50	18,50	37,00	0,076	• • •	10	300	
	23012	25	3/4"	37,00	21,00	34,00	37,00	24,00	44,00	0,100	• • •	10	200	
	23014	25	1/2"	33,50	17,50	34,00	31,50	18,50	37,00	0,075	• • •	10	250	
	23016	32	3/4"	27,50	9,50	43,00	51,00	38,00	44,00	0,104	• • •	5		
6	23018	32	1"	34,00	16,00	43,00	66,50	44,50	60,50	0,249	• • •	5		
7,4	stainless steel													
9	923008	20	3/4"	37,00	22,50	29,50	37,00	24,00	37,00	0,095	• • •	10		
11	923010	20	1/2"	31,00	16,50	29,50	31,50	18,50	37,00	0,081	• • •	10		
	923012	25	3/4"	37,00	21,00	34,00	37,00	24,00	44,00	0,101	• • •	10		
	923014	25	1/2"	33,50	17,5	34,00	31,50	18,5	37,00	0,082	• • •	10		
	923015	32	1/2"	35,00	17,00	43,00	37,00	24,00	37,00	0,112	• • •	5		
	923016	32	3/4"	27,50	9,50	43,00	51,00	38,00	44,00	0,097	• • •	5		
	923018	32	1"	34,00	16,00	43,00	66,50	44,50	60,50	0,240	• • •	5		

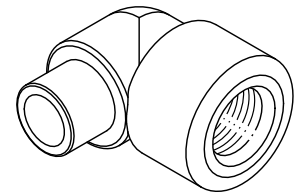
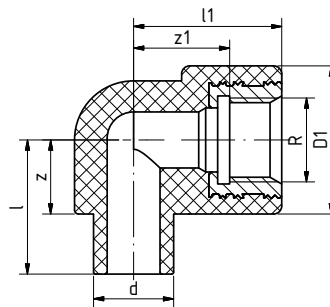
TRANSITION ELBOW WITH FEMALE THREAD

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	R	l	z	l1	z1	D1	Weight [kg]	System	PU	Box unit	Price € m/pc
6	23208	20	1/2"	33,50	18,50	37,00	24,00	37,00	0,076	• • •	10		
7,4													
11													

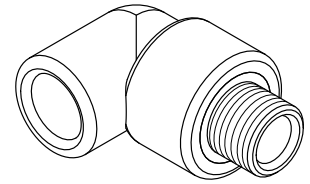
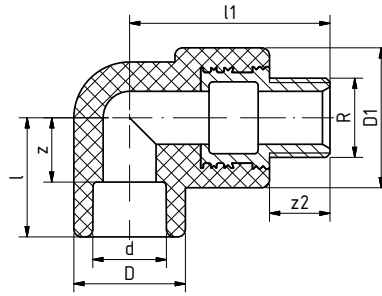
TRANSITION ELBOW WITH MALE THREAD

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

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

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	R	l	l1	z	z2	D	D1	Weight [kg]	System	PU	Box unit	Price € m/pc	
brass															
6 7,4 9 11	23504	16	1/2"	31,50	53,00	18,50	16,00	29,50	37,00	0,109	•	10			
	23506	20	1/2"	31,50	53,00	17,00	16,00	29,50	37,00	0,108	• • •	10			
	23508	20	3/4"	31,50	54,00	17,00	17,00	34,00	38,00	0,128	• • •	10			
	23510	25	3/4"	31,50	54,00	15,50	17,00	34,00	38,00	0,104	• • •	10			
	23512	32	3/4"	27,50	68,00	9,50	17,00	43,00	38,00	0,112	• • •	5			
	23514	32	1"	31,00	85,50	13,00	20,00	43,00	52,00	0,231	• • •	5			
	stainless steel														
	923506	20	1/2"	31,50	53,00	17,00	16,00	29,50	37,00	0,035	• • •	10			
	923508	20	3/4"	31,50	54,00	17,00	17,00	34,00	38,00	0,123	• • •	10			
	923510	25	3/4"	31,50	54,00	15,50	17,00	34,00	38,00	0,121	• • •	10			
	923512	32	3/4"	27,50	68,00	9,50	17,00	43,00	38,00	0,128	• • •	5			

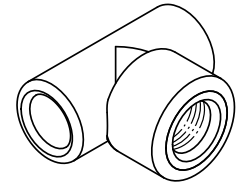
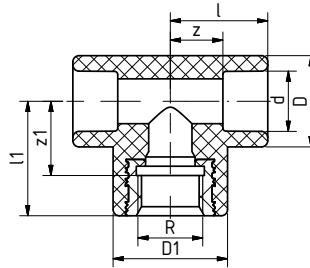
THREADED BRANCH TEE WITH FEMALE THREAD

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

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

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	R	l	z	D	l1	z1	D1	Weight [kg]	System	PU	Box unit	Price € m/pc	
brass															
6 7,4 9 11	25004	16	1/2"	31,50	18,50	29,50	37,00	24,00	37,00	0,089	•	10			
	25006	20	1/2"	31,50	17,00	29,50	37,00	24,00	37,00	0,086	• • •	10	250		
	25008	20	3/4"	37,00	22,50	34,00	37,00	24,00	44,00	0,121	• • •	10	170		
	25010	25	1/2"	34,50	18,50	34,00	38,00	25,00	37,00	0,090	• • •	10	200		
	25012	25	3/4"	37,00	21,00	34,00	37,00	24,00	44,00	0,109	• • •	10	150		
	25013	32	1/2"	35,00	17,00	43,00	37,00	24,00	37,00	0,103	• • •	5			
	25014	32	3/4"	27,50	9,50	43,00	51,00	38,00	44,00	0,111	• • •	5			
	25016	32	1"	31,50	13,50	43,00	67,00	45,00	60,00	0,255	• • •	5			
	25018	40	1/2"	41,50	21,00	52,00	40,00	27,00	37,00	0,142	• • •	5			
	25019	40	3/4"	40,50	20,00	52,00	40,50	27,50	52,00	0,147	• • •	5			
	25020	40	1"	41,50	21,00	52,00	56,00	34,00	60,00	0,276	• • •	5			
	25022	50	1"	49,50	26,00	68,00	63,50	41,50	68,30	0,385	• • •	5			
	25030	50	1/2"	49,50	26,00	68,00	44,50	31,50	43,00	0,237	• • •	5			
	25031	50	3/4"	49,50	26,00	68,00	44,50	31,50	43,00	0,243	• • •	5			
	stainless steel														
	925006	20	1/2"	31,50	17,00	29,50	37,00	24,00	37,00	0,087	• • •	10			
925008	20	3/4"	37,00	22,50	34,00	37,00	24,00	44,00	0,108	• • •	10				
925010	25	1/2"	34,50	18,50	34,00	38,00	25,00	37,00	0,093	• • •	10				
925012	25	3/4"	37,00	21,00	34,00	37,00	24,00	44,00	0,111	• • •	10				
925013	32	1/2"	35,00	17,00	43,00	37,00	24,00	37,00	0,113	• • •	5				
925014	32	3/4"	27,50	9,50	43,00	51,00	38,00	44,00	0,111	• • •	5				
925016	32	1"	31,50	13,50	43,00	67,00	45,00	60,00	0,082	• • •	5				

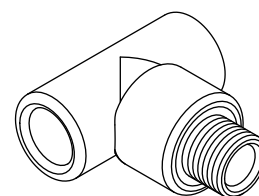
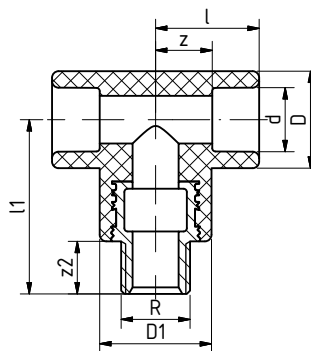
THREADED BRANCH TEE WITH MALE THREAD

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	R	l	z	D	z2	D1	Weight [kg]	System	PU	Box unit	Price € m/pc
6													
7,4	25506	20	1/2"	31,50	17,00	29,50	16,00	37,00	0,102	• • •	10		
11													

TRANSITION COUPLING WITH MALE THREAD

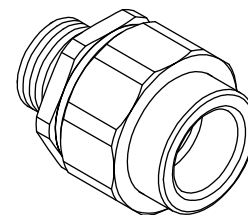
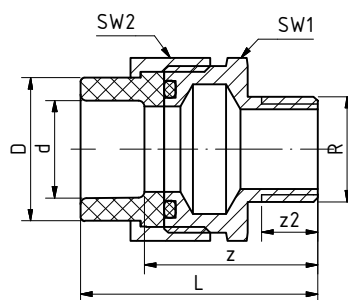
with union nut and welding socket

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	R	L	z	z2	D	SW1	SW2	Weight [kg]	System	PU	Box unit	Price € m/pc
6	26608	20	1/2"	52,50	38,00	13,50	27,50	34	36	0,145	• • •	1		
7,4	26610	25	3/4"	59,50	43,50	14,50	36,00	42	46	0,243	• • •	1		
9	26612	32	1"	64,50	46,50	16,80	41,50	48	52	0,336	• • •	1		
11	26614	40	1 1/4"	70,00	49,50	19,10	53,00	60	64	0,632	• • •	1		
	26616	50	1 1/2"	84,80	61,30	22,00	59,00	48	72	0,624	• • •	1		
	26618	63	2"	95,50	68,00	25,00	74,00	62	89	1,045	• • •	1		

TRANSITION COUPLING WITH FEMALE THREAD

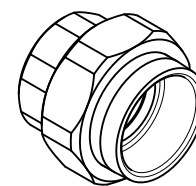
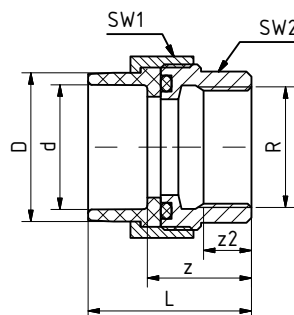
with union nut and welding socket

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	R	z	z2	D	L	SW1	SW2	Weight [kg]	System	PU	Box unit	Price € m/pc
6	26638	20	1/2"	30,50	15,00	27,50	45,00	36	24	0,112	• • •	1		
7,4	26640	25	3/4"	33,00	15,50	36,00	49,00	46	32	0,193	• • •	1		
9	26642	32	1"	36,00	15,00	41,50	54,00	52	40	0,291	• • •	1		
11	26644	40	1 1/4"	36,00	20,00	53,00	56,50	64	47	0,423	• • •	1		
	26646	50	1 1/2"	41,30	19,00	59,00	64,80	72	57	0,610	• • •	1		
	26648	63	2"	47,00	18,00	74,00	74,50	89	68	0,924	• • •	1		

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

LOOSE NUT ADAPTER

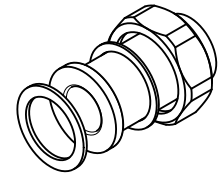
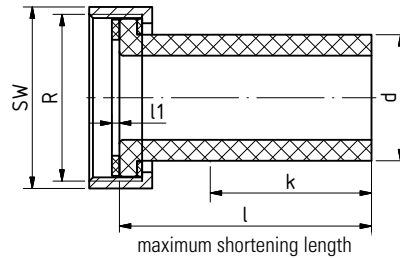
length: 100 mm, with gasket

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	Nut R	l	l1	k	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7,4 9 11	26708	20	1"	100,00	3,00	65,00	36	0,079	• • •	1		
	26710	25	1 1/4"	100,00	3,00	62,00	46	0,104	• • •	1		
	26712	32	1 1/2"	100,00	3,00	58,00	52	0,175	• • •	1		
	26714	40	2"	100,00	3,00	53,00	64	0,258	• • •	1		
	26716	50	2 1/4"	100,00	3,00	49,00	72	0,344	• • •	1		
	26718	63	2 3/4"	100,00	3,00	43,00	89	0,583	• • •	1		
	26720	75	3 1/2"	100,00	3,00	34,00	110	0,918	• • •	1		
26722	90	4"	100,00	3,00	26,00	120	1,238	• • •	1			

WATER METER NUT ADAPTER

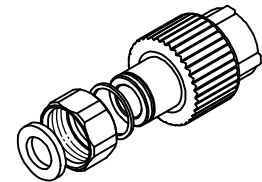
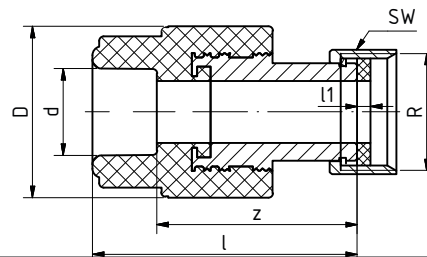
with gasket

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	l	l1	z	D	R	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
6	26808	20	59,50	3,00	45,00	38,50	3/4"	30	0,136	• • •	1		
7,4	26810	25	61,00	3,00	45,00	38,50	3/4"	30	0,155	• • •	1		
9	26812	32	62,00	3,00	44,00	43,50	3/4"	30	0,162	• • •	1		

NUT ADAPTER

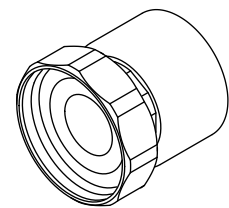
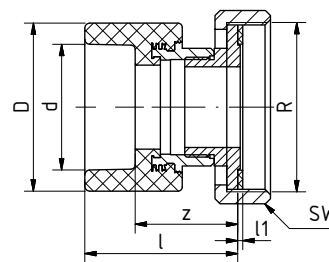
ISO-standard

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	Nut R	l	l1	z	D	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7,4 9 11	27010	20	1"	58,50	3,00	34,00	38,50	36	0,182	• • •	10		
	27011	25	1"	60,00	3,00	44,00	38,50	36	0,186	• • •	10		
	27012	25	1 1/4"	60,00	3,00	44,00	43,50	46	0,274	• • •	10		
	27013	32	1 1/4"	63,00	3,00	45,00	43,50	46	0,279	• • •	5		
	27014	32	1 1/2"	69,50	3,00	51,50	60,00	52	0,446	• • •	5		
	27015	40	1 1/2"	72,00	3,00	51,50	60,00	52	0,421	• • •	5		
	27016	40	2"	72,00	3,00	51,50	74,00	64	0,719	• • •	5		
	27017	50	2"	77,00	3,00	53,50	74,00	64	0,736	• • •	5		
	27018	50	2 1/4"	77,00	3,00	53,50	84,00	72	0,831	• • •	5		
	27019	63	2 1/4"	83,50	3,00	56,00	84,00	72	0,889	• • •	1		
	27020	63	2 3/4"	82,50	3,00	55,00	101,00	89	1,306	• • •	1		
	27021	75	2 3/4"	85,00	3,00	55,00	100,00	89	1,275	• • •	1		
	27022	75	3 1/2"	91,00	3,00	61,00	100,00	110	1,818	• • •	1		

COUNTERPART

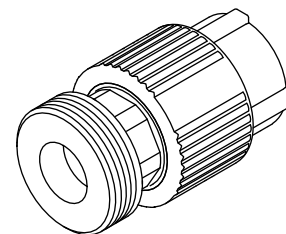
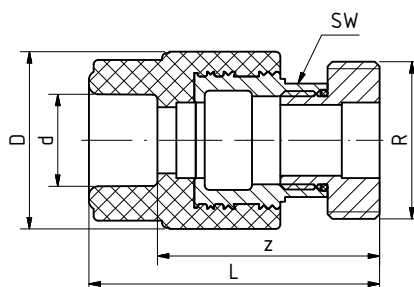
with welding socket and male thread for ISO-standard adapter

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



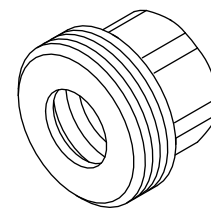
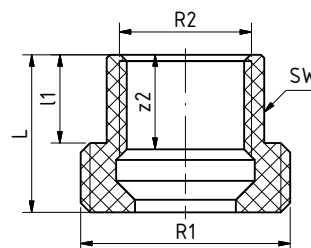
SDR	Art.-No.	d	Thread R	L	z	D	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7,4 9 11	27310	20	1"	61,50	47,00	38,50	24	0,151	• • •	10		
	27311	25	1"	63,00	47,00	38,50	24	0,153	• • •	10		
	27312	25	1 1/4"	63,00	47,00	43,50	31	0,221	• • •	10		
	27313	32	1 1/4"	66,00	48,00	43,50	31	0,226	• • •	5		
	27314	32	1 1/2"	76,50	58,50	60,00	39	0,408	• • •	5		
	27315	40	1 1/2"	79,00	58,50	60,00	39	0,414	• • •	5		
	27316	40	2"	81,00	60,50	74,00	50	0,650	• • •	5		
	27317	50	2"	84,00	60,50	74,00	50	0,634	• • •	5		
	27318	50	2 1/4"	83,00	59,50	84,00	55	0,750	• • •	5		
	27319	63	2 1/4"	89,50	62,00	84,00	55	0,728	• • •	1		
	27320	63	2 3/4"	94,00	66,50	101,00	67	1,093	• • •	1		
	27321	75	2 3/4"	95,00	65,00	100,00	67	1,117	• • •	1		
27322	75	3 1/2"	100,00	70,00	100,00	67	1,436	• • •	1			

BRASS COUNTERPART

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

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: brass



SDR	Art.-No.	Male thread R1	Female thread R2	L	I1	z2	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7,4 9 11	27510	1"	1/2"	25,00	14,00	15,00	25	0,063	• • •	10		
	27512	1 1/4"	3/4"	26,00	12,50	14,00	32	0,119	• • •	10		
	27514	1 1/2"	1"	31,00	15,00	17,00	40	0,175	• • •	5		
	27516	2"	1 1/4"	33,00	17,00	22,00	47	0,263	• • •	5		
	27518	2 1/4"	1 1/2"	36,00	20,00	19,00	57	0,333	• • •	5		
	27520	2 3/4"	2"	42,00	24,00	24,00	68	0,517	• • •	1		
	27522	3 1/2"	2 1/2"	46,00	24,00	27,00	84	0,801	• • •	1		
	27524	4"	3"	46,00	27,00	27,00	97	0,943	• • •	1		

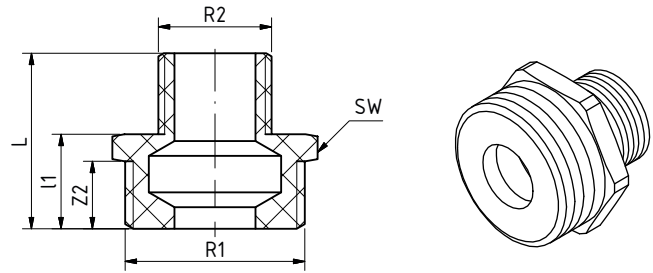
Notice: aquatherm green pipe-metal compound fittings are manufactured from fusiolen PP-R and brass. Metal inserts, without hex shaped spanner flat, with 1/2" and 3/4" f are also available in stainless steel.

BRASS COUNTERPART

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

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: brass



SDR	Art.-No.	Thread R1	Thread R2	L	l1	Z2	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7.4 9 11	27710	1"	1/2"	32,50	17,50	0,00	34	0,109	• • •	10		
	27712	1 1/4"	3/4"	38,50	21,00	0,00	42	0,188	• • •	10		
	27714	1 1/2"	1"	41,50	22,50	0,00	48	0,211	• • •	5		
	27716	2"	1 1/4"	44,50	22,50	0,00	60	0,363	• • •	5		
	27718	2 1/4"	1 1/2"	56,00	34,00	0,00	48	0,472	• • •	5		
	27720	2 3/4"	2"	63,00	38,00	0,00	62	0,803	• • •	1		
	27722	3 1/2"	2 1/2"	70,00	42,00	0,00	82	1,189	• • •	1		
	27724	4"	3"	74,00	42,00	0,00	97	1,398	• • •	1		

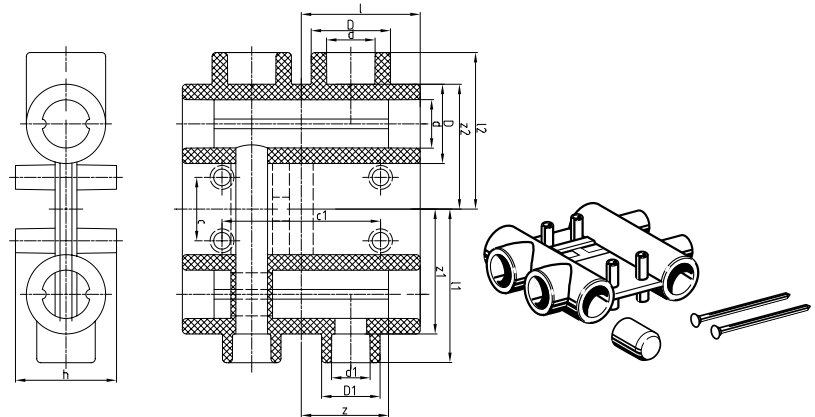
DISTRIBUTION BLOCK PLUMBING

including 1 plug and 2 fastenings

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R

Colour: green



SDR	Art.-No.	d	l	z	D	d1	l1	z1	D1	l2	z2	c	c1	c2	l3	h	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7.4 11	30115	25	60	44	40	20	77,5	63	29,5	79	63	32	80	100	36	51	0,273	• • •	1		

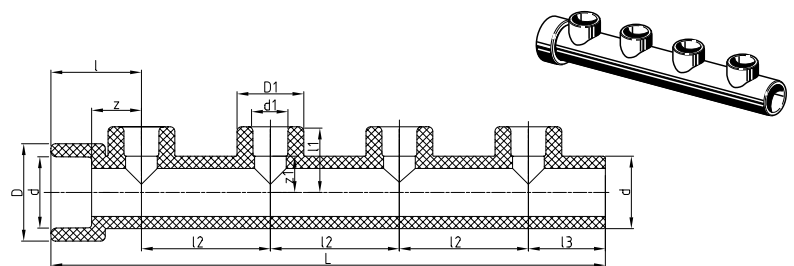
FOUR-PORT MANIFOLD

length: 246 mm, with 4 branches

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R

Colour: green



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

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

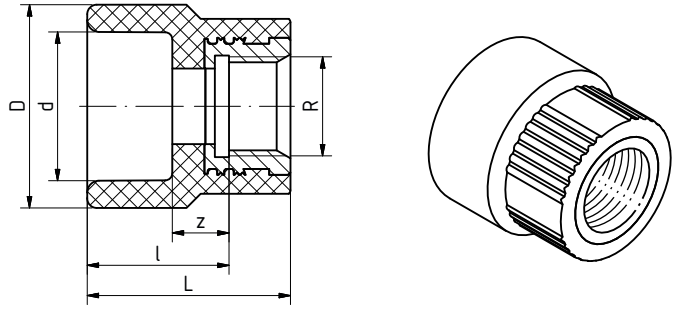
MANIFOLD END PIECE WITH FEMALE THREAD*

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Standard: DIN 16962, DIN EN ISO 15874

Colour: green



SDR	Art.-No.	d	R	l	z	D	L	Weight [kg]	System	PU	Box unit	Price € m/pc
6	30804	32	1/2"	30,00	12,00	43,00	43,00	0,073	• • •	1		
7.4												
9												
11												

* transition piece as manifold endpiece with female thread

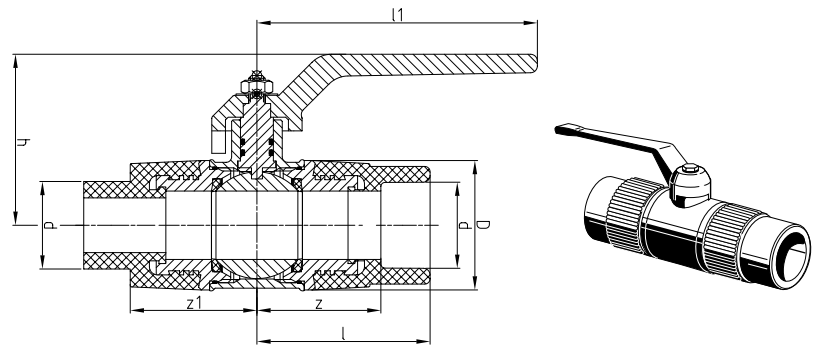
BALL VALVE FOR MANIFOLD

female/male

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Colour: green

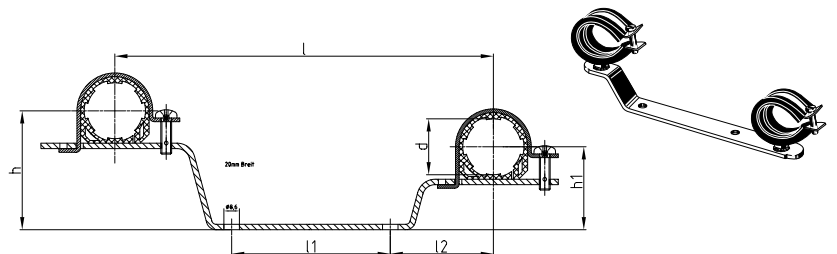


SDR	Art.-No.	d	l	z	D	z1	h	l1	Weight [kg]	System	PU	Box unit	Price € m/pc
6	78000	32	63,00	45,00	47,50	46,50	78,00	108,00	0,575	• • •	2		
7.4													
9													
11													

SUPPORTING STRAP FOR FOUR-PORT MANIFOLD

with clamps, galvanized, double

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe



Art.-No.	d	l	l1	l2	h	h1	Weight [kg]	System	PU	Box unit	Price € m/pc
60210	32	210,00	80,00	57,00	66,00	46,00	0,226	• • •	2		

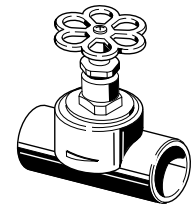
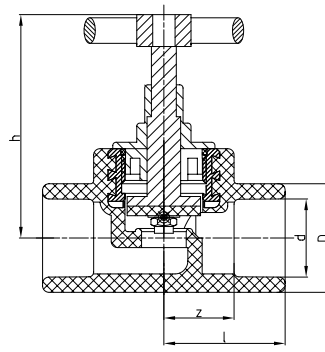
GLOBE VALVE

for surface installation

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Colour: green



SDR	Art.-No.	d	l	z	D	h	Weight [kg]	System	PU	Box unit	Price € m/pc
6	40808	20	35,00	20,50	29,50	75,25	0,165	• • •	1	100	
7.4	40810	25	38,00	22,00	34,00	75,00	0,172	• • •	1	100	
9	40812	32	49,00	31,00	43,00	97,00	0,314	• • •	1	60	
11	40814	40	60,00	39,50	52,00	111,50	0,585	• • •	1		

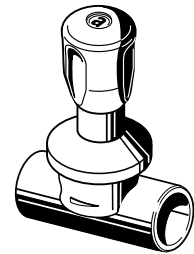
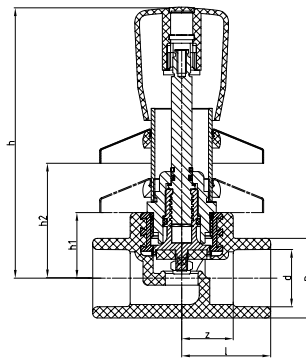
CONCEALED VALVE

chromium plated

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Colour: green



SDR	Art.-No.	d	l	z	D	h	h1	h2	Weight [kg]	System	PU	Box unit	Price € m/pc
6	40858	20	35,00	20,50	29,50	116,00	28,00	59,00	0,319	• • •	1		
7.4	40860	25	38,00	22,00	34,00	116,00	28,00	59,00	0,330	• • •	1		
9	40862	32	49,00	31,00	43,00	121,00	34,00	59,00	0,416	• • •	1		

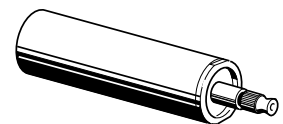
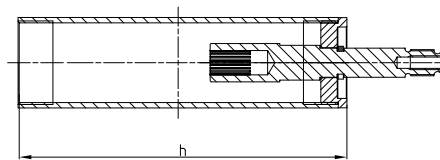
EXTENSION FOR CONCEALED VALVE

chromium-plated for Art.-No. 40858-40862

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: brass

Colour: chrom



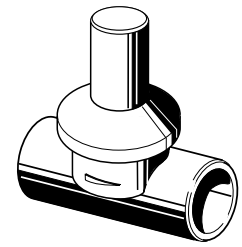
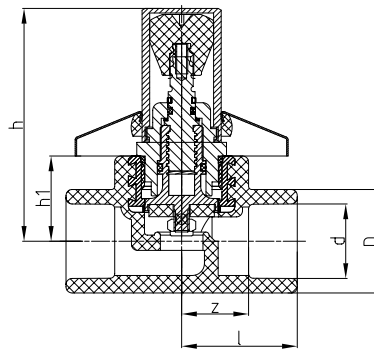
Art.-No.	h	Weight [kg]	System	PU	Box unit	Price € m/pc
40900	92,00	0,148	• • •	1		
40902	132,00	0,209	• • •	1		

CONCEALED VALVE*tamper proof/ chromium-plated/ short design*

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Colour: green, chrom



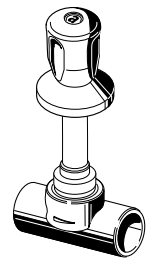
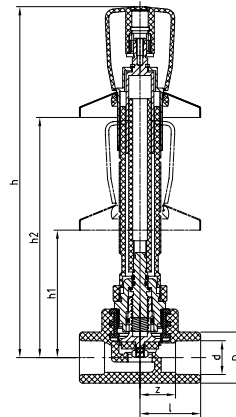
SDR	Art.-No.	d	l	z	D	h	h1	Weight [kg]	System	PU	Box unit	Price € m/pc
6	40868	20	35,00	20,50	29,50	71,50	28,00	0,258	• • •	1	50	
7.4	40870	25	38,00	22,00	34,00	71,50	28,00	0,288	• • •	1		
9												
11	40872	32	49,00	31,00	43,00	82,50	34,00	0,376	• • •	1		

CONCEALED VALVE*suitable for construction depth of 55 mm to 100 mm*

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Colour: green, chrom



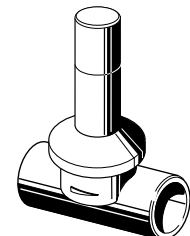
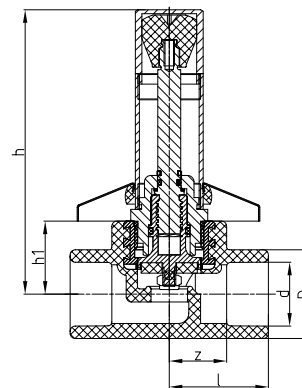
SDR	Art.-No.	d	l	z	D	h	h1	h2	Weight [kg]	System	PU	Box unit	Price € m/pc
6	40878	20	35,00	20,50	29,50	213,00	59,00	147,00	0,357	• • •	1		
7.4	40880	25	38,00	22,00	34,00	213,00	59,00	147,00	0,369	• • •	1		
9													
11	40882	32	49,00	31,00	43,00	219,00	65,00	153,00	0,455	• • •	1		

CONCEALED VALVE*tamper proof, chromium-plated*

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Colour: green, chrom



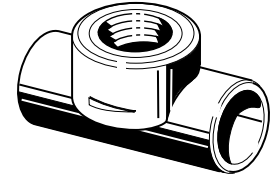
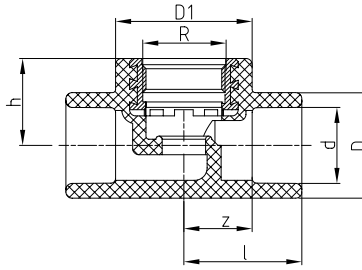
SDR	Art.-No.	d	l	z	D	h	h1	Weight [kg]	System	PU	Box unit	Price € m/pc
6	40888	20	35,00	20,50	29,50	109,00	28,00	0,342	• • •	1		
7.4	40890	25	38,00	22,00	34,00	109,00	28,00	0,350	• • •	1		
9												
11	40892	32	49,00	31,00	43,00	115,00	34,00	0,432	• • •	1		

STOP VALVE BODY

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Colour: green



SDR	Art.-No.	d	R	l	z	D	h	D1	Weight [kg]	System	PU	Box unit	Price € m/pc
6	40908	20	3/4"	35,00	20,00	29,50	28,00	44,00	0,093	• • •	1		
7.4	40910	25	3/4"	38,00	22,00	34,00	28,00	44,00	0,101	• • •	1		
9	40912	32	1"	49,00	31,00	43,00	34,00	52,00	0,146	• • •	1		
11	40914	40	1 1/4"	60,00	39,50	52,00	41,00	69,00	0,313	• • •	1		

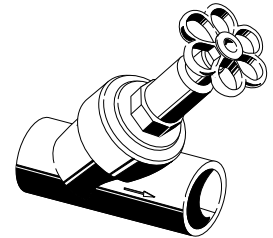
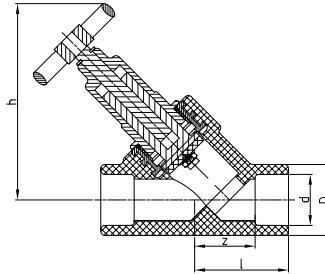
INCLINED VALVE

without drain

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Colour: green



SDR	Art.-No.	d	l	z	D	h	Weight [kg]	System	PU	Box unit	Price € m/pc
6	41108	20	45,00	30,50	34,00	95,50	0,294	• • •	1		
7.4	41110	25	45,00	29,00	34,00	95,50	0,283	• • •	1		
9	41112	32	56,00	38,00	43,00	111,50	0,421	• • •	1		
11	41114	40	65,00	44,50	52,00	135,00	0,834	• • •	1		

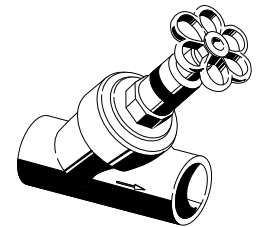
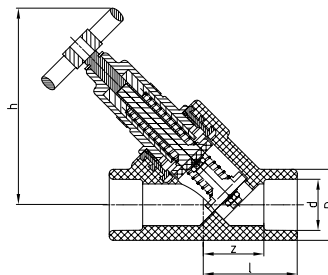
NON-RETURN VALVE

without drain

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R, brass

Colour: green

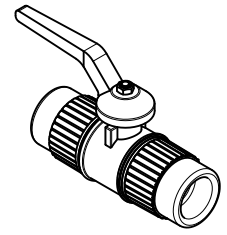
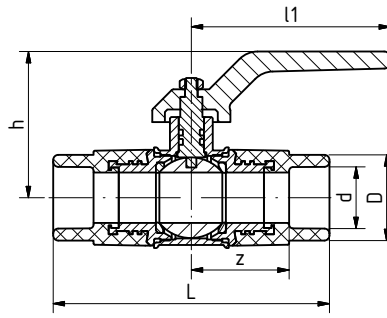


SDR	Art.-No.	d	l	z	D	h	Weight [kg]	System	PU	Box unit	Price € m/pc
6	41208	20	45,00	30,50	34,00	95,50	0,297	• • •	1		
7.4	41210	25	45,00	29,00	34,00	95,50	0,292	• • •	1		
9	41212	32	56,00	38,00	43,00	111,50	0,432	• • •	1		
11	41214	40	65,00	44,50	52,00	135,00	0,840	• • •	1		

BALL VALVE PP/BRASS

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

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



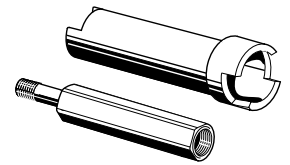
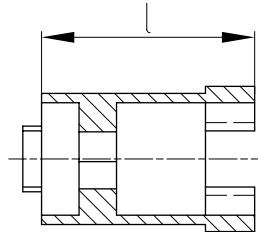
SDR	Art.-No.	d	L	z	D	h	l1	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7,4 9 11	41308	20	110,00	40,50	29,50	56,00	79,00	0,280	• • •	1		
	41310	25	110,00	39,00	34,00	58,00	79,00	0,375	• • •	1		
	41312	32	127,00	45,50	43,00	66,00	103,00	0,592	• • •	1		
	41314	40	145,00	52,00	52,00	71,00	104,00	1,015	• • •	1		
	41316	50	167,00	60,00	68,00	79,00	140,00	1,689	• • •	1		
	41318	63	205,00	75,00	84,00	88,00	140,00	2,874	• • •	1		

EXTENSION FOR AQUATHERM GREEN PIPE-BALL VALVE

chromium-plated for Art.-No. 41308-41318

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: brass
Colour: chrom



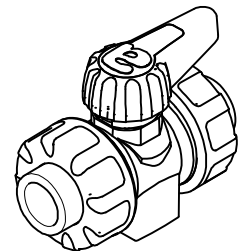
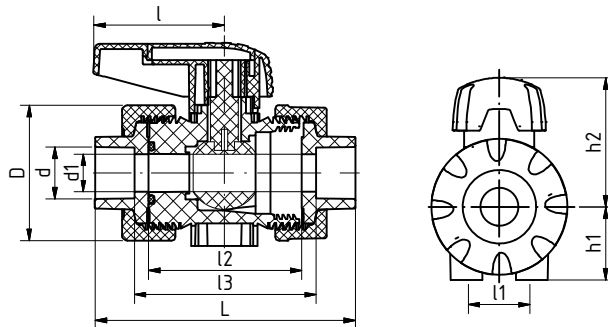
Art.-No.	l	for Art.-No.	Weight [kg]	System	PU	Box unit	Price € m/pc
41378	35,00	41308-41310	0,120	• • •	1		
41382	35,00	41312-41314	0,120	• • •	1		
41386	46,00	41316-41318	0,273	• • •	1		

PP-BALL VALVE

with union nut and welding socket

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

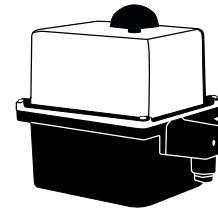
Material: Fusiolen® PP-R
Colour: green



SDR	Art.-No.	d	d1	D	h1	h2	l1	l2	l3	L	l	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7,4 9 11	41488	20	13,50	50,30	27,00	48,00	25,00	56,50	68,00	97,00	48,00	0,118	• • •	1		
	41490	25	18,50	59,00	30,00	56,50	25,00	65,50	78,00	110,00	59,00	0,184	• • •	1		
	41492	32	23,90	70,30	40,00	64,50	26,00	72,00	84,50	120,50	59,00	0,274	• • •	1		
	41494	40	31,00	85,90	46,00	83,30	45,00	85,00	100,00	141,00	63,50	0,483	• • •	1		
	41496	50	38,50	99,50	55,00	89,40	45,00	89,00	107,00	154,00	63,50	0,648	• • •	1		
	41498	63	50,00	125,50	70,00	115,00	45,00	101,00	118,00	173,00	108,00	1,206	• • •	1		

NEW ELECTRICAL DRIVE FOR BALL VALVE

incl. fixtures
For Art.-No. 41488-41498



Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Art.-No.	Dimension	for Art.-No.	Weight [kg]	System	PU	Box unit	Price € m/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		

Delivery time: on request

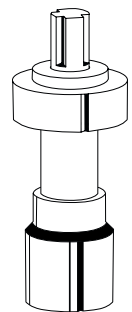
NEW EXTENSION FOR BALL VALVE

For Art.-No. 41488-41498

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: PVC

Colour: grey



Art.-No.	l	for Art.-No.	Weight [kg]	System	PU	Box unit	Price € m/pc
98900	100	41488	0,020	• • •	1		
98901	100	41490/41492	0,025	• • •	1		
98902	100	41494/41496	0,030	• • •	1		
98903	100	41498	0,040	• • •	1		

Delivery time: on request

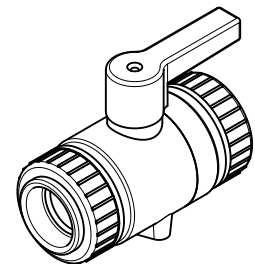
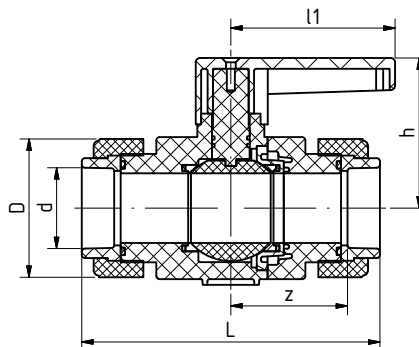
PP-BALL VALVE

with union nut and welding socket

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R

Colour: green



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

aquatherm green pipe

aquatherm blue pipe

aquatherm lilac pipe

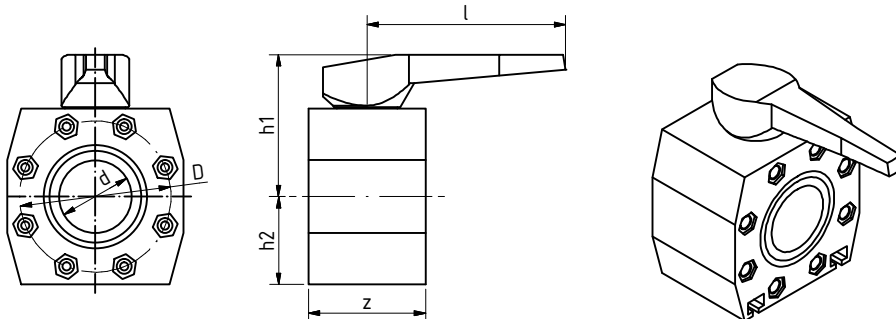
PP-BALL VALVE

with flange connection on both sides

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe

Material: Fusiolen® PP-R

Colour: green



SDR	Art.-No.	for ø	d	l	z	D	h1	h2	Weight [kg]	System	PU	Box unit	Price € m/pc
6	41602	90	77,00	210,00	124,00	160,00	150,00	93,00	4,196	• • •	1		
7.4	41604	110	94,00	260,00	145,00	180,00	165,00	103,00	5,612	• • •	1		
9													
11	41607	160	135,00	310,00	205,00	240,00	210,00	136,50	13,420	• • •	1		

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

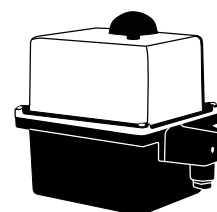
NOTICE: These are not included in delivery.

NEW ELECTRICAL DRIVE FOR BALL VALVE

incl. fixtures

For Art.-No. 41602-41607

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe



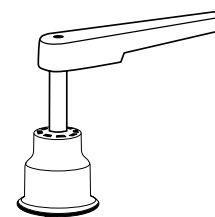
Art.-No.	Dimension	for Art.-No.	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>230 Volt</i>							
41603	90	incl. fixtures for 41602	3,300	• • •	1		
41605	110	incl. fixtures for 41604	3,400	• • •	1		
41608	160	incl. fixtures for 41607	3,700	• • •	1		
<i>24 Volt</i>							
41703	90	incl. fixtures for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

Delivery time: on request

NEW EXTENSION FOR BALL VALVE

For Art.-No. 41602-41607

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe



Art.-No.	l	for Art.-No.	Weight [kg]	System	PU	Box unit	Price € m/pc
98904	150	41602	0,788	• • •	1		
98905	150	41604	1,120	• • •	1		
98906	150	41607	1,391	• • •	1		

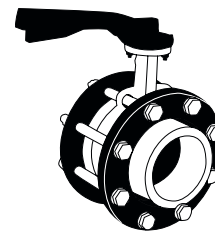
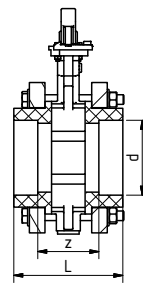
Delivery time: on request

NEW 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



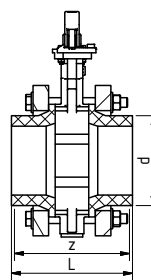
SDR	Art.-No.	d	z	L	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>									
6	2041820	75	78	138	6,600	•	1		
7,4	2041822	90	80	146	9,000	•	1		
9	2041824	110	89	163	10,400	•	1		
11	2041826	125	104	184	15,000	•	1		
17,6									

NEW 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



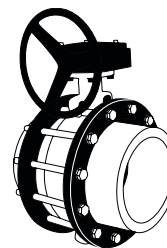
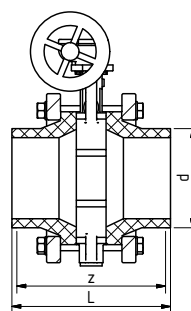
SDR	Art.-No.	d	z	L	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>Butt welding</i>									
11	2041830	160	227	242	22,000	•	1		
17,6	2541830	160	227	242	21,700	•	1		

NEW aquatherm blue pipe SHUT-OFF VALVE WITH DRIVE

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

Systems: aquatherm blue pipe

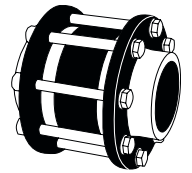
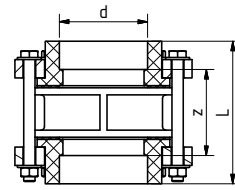
Material: Fusiolen® PP-R, Steel



SDR	Art.-No.	d	z	L	Weight [kg]	System	PU	Box unit	Price € m/pc
11	2041834	200	305	320	41,400	•	1		
	2041838	250	313	328	59,200	•	1		
	2041842	315	398	418	81,800	•	1		
17,6	2541834	200	305	320	40,900	•	1		
	2541838	250	313	328	58,400	•	1		
	2541842	315	398	418	78,600	•	1		

NEW aquatherm blue pipe NON-RETURN VALVE

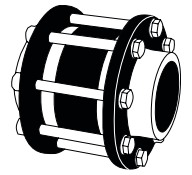
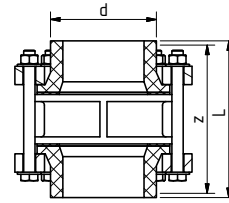
Set consists of: 2 x flange adapter + seal, 2 x flanges, fixing screws

Systems: aquatherm blue pipe**Material:** Fusiolen® PP-R, Steel

SDR	Art.-No.	d	z	L	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>									
6	2041920	75	92	152	6,200	•	1		
7,4	2041922	90	97	163	8,800	•	1		
9	2041924	110	107	181	11,000	•	1		
11	2041926	125	124	204	15,600	•	1		
17,6									

NEW aquatherm blue pipe NON-RETURN VALVE

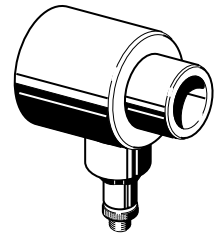
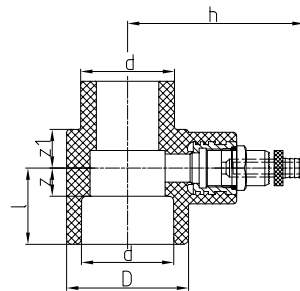
Set consists of: 2 x flange adapter + seal, 2 x flanges, fixing screws

Systems: aquatherm blue pipe**Material:** Fusiolen® PP-R, Steel

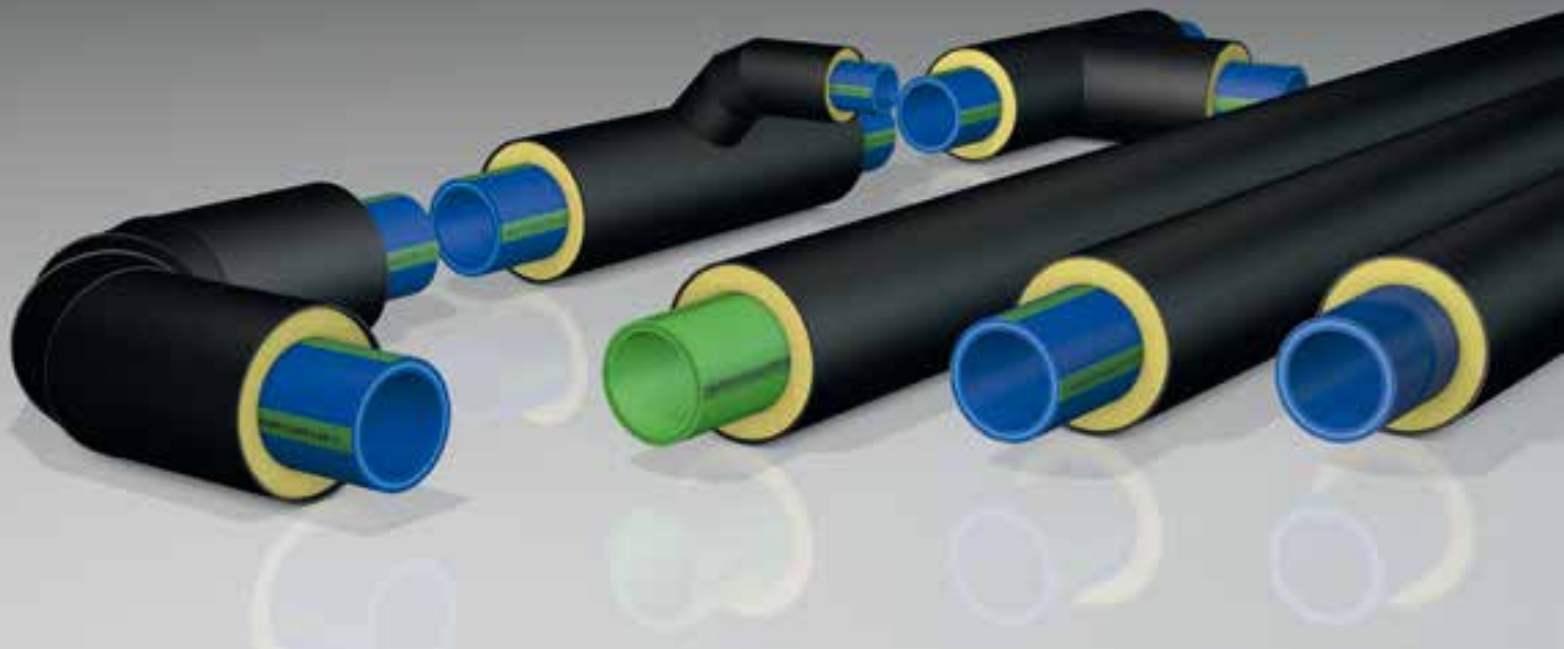
SDR	Art.-No.	d	z	L	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>Butt welding</i>									
11	2041930	160	253	268	24,200	•	1		
	2041934	200	352	367	37,000	•	1		
	2041938	250	365	380	58,600	•	1		
	2041942	315	476	496	83,400	•	1		
17,6	2541930	160	253	268	23,900	•	1		
	2541934	200	352	367	36,500	•	1		
	2541938	250	365	380	57,800	•	1		
	2541942	315	476	496	80,200	•	1		

DRAINING BRANCH

to weld in aquatherm green pipe valves

Systems: aquatherm green pipe,
aquatherm blue pipe,
aquatherm lilac pipe**Material:** Fusiolen® PP-R, brass**Colour:** green

SDR	Art.-No.	d	z	l	D	z1	h	Weight [kg]	System	PU	Box unit	Price € m/pc
6	41408	20	11,50	26,00	34,00	16,50	67,00	0,098	• • •	1		
	41410	25	10,00	26,00	34,00	16,50	67,00	0,096	• • •	1		
	41412	32	14,00	32,00	43,00	17,00	70,50	0,118	• • •	1		
	41414	40	12,00	32,50	52,00	16,50	76,50	0,140	• • •	1		
	41416	50	15,50	39,00	68,00	17,00	83,75	0,202	• • •	1		
	41418	63	16,50	44,00	84,00	16,50	93,00	0,288	• • •	1		



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 (0) 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 $\lambda_{PUR}=0,0275$ 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 $\lambda_{PE80} = 0,38$ 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/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	m/pc	
32	90	1370711		2270111		2470711*				5.8	
40	110	1370713		2270113		2470113				5.8	
50	110	1370715		2270115		2470115				5.8	
63	125	1370717		2270117		2470117				5.8	
75	140	1370719		2270119		2470119				5.8	
90	160	1370721		2270121		2470121				5.8	
110	200	1370723		2270123		2470123				5.8	
125	225	1370725		2270125		2470125		2770125		5.8	
160	250	1370729		2270129		2470129		2770129		5.8	
200	315	1370733		2270133		2470133		2770133		5.8	
250	400	1370737		2270137		2470137		2770137		5.8	
315	450	1370741		2270141				2770141		5.8	
NEW	355	500	1370743	2270143				2770143		5.8	

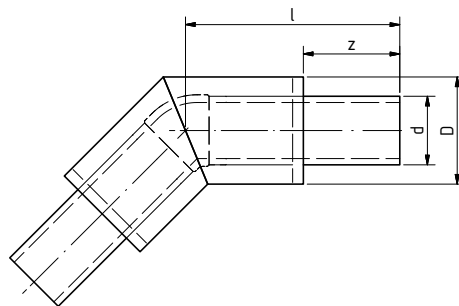
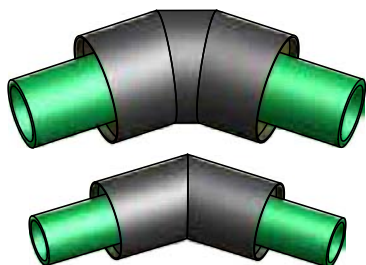
On request available: aquatherm green pipe ti SDR 7.4

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/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	m/pc	
32	90	1370712		2270112		2470712*				11.6	
40	110	1370714		2270114		2470114				11.6	
50	110	1370716		2270116		2470116				11.6	
63	125	1370718		2270118		2470118				11.6	
75	140	1370720		2270120		2470120				11.6	
90	160	1370722		2270122		2470122				11.6	
110	200	1370724		2270124		2470124				11.6	
125	225	1370726		2270126		2470126		2770126		11.6	
160	250	1370730		2270130		2470130		2770130		11.6	
200	315	1370734		2270134		2470134		2770134		11.6	
250	400	1370738		2270138		2470138		2770138		11.6	
315	450	1370742		2270142				2770142		11.6	
NEW	355	500	1370744	2270144				2770144		11.6	

On request available: aquatherm green pipe ti SDR 7.4



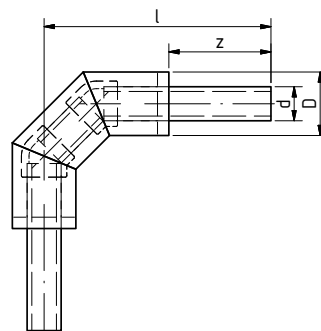
aquatherm ti ELBOW 45° SL 500

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	D Casing pipe	z	l	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	m/pc	
32	90	225	500	1312512		2212512		2412512*				1	
40	110	225	500	1312514		2212514		2412514				1	
50	110	225	500	1312516		2212516		2412516				1	
63	125	225	500	1312518		2212518		2412518				1	
75	140	225	500	1312520		2212520		2412520				1	
90	160	225	500	1312522		2212522		2412522				1	
110	200	225	500	1312524		2212524		2412524				1	
125	225	225	500	1312526		2212526		2412526		2712526		1	NEW
160	250	225	500	1312530		2212531		2412531		2712530		1	
200	315	225	500	1312534		2212535		2412535		2712534		1	
250	400	225	500	1312538		2212539		2412539		2712538		1	
315	450	225	500	1312542		2212543				2712542		1	
NEW 355	500	225	500	1312544		2212545				2712544		1	

Also available in design 15° and 30°

aquatherm ti

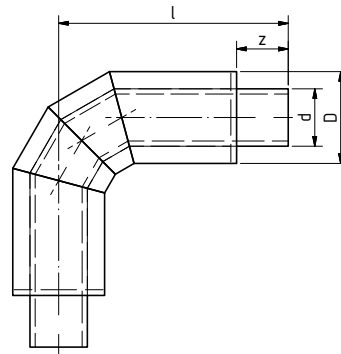
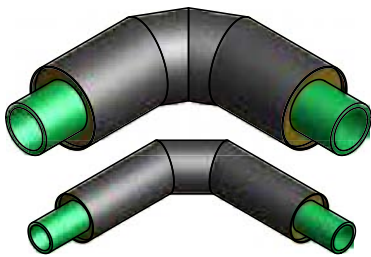


aquatherm ti ELBOW 90° SL 500

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	D Casing pipe	z	l	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	m/pc	
32	90	225	500	1312212		2212212		2412212*		1	
40	110	225	500	1312214		2212214		2412214		1	
50	110	225	500	1312216		2212216		2412216		1	
63	125	225	500	1312218		2212218		2412218		1	
75	140	225	500	1312220		2212220		2412220		1	

Also available in design 60° and 75°

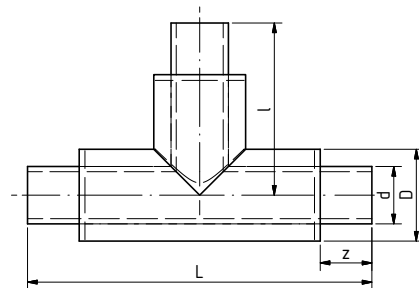
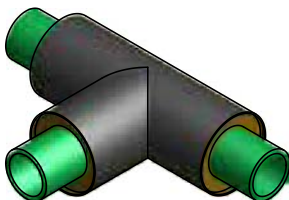


aquatherm ti ELBOW 90° SL 1000

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

Outside diameter				aquatherm green pipe ti SDR 9	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	D Casing pipe	z	l	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	m/pc	
32	90	225	1000	1312112		2212112		2412112*				1	
40	110	225	1000	1312114		2212114		2412114				1	
50	110	225	1000	1312116		2212116		2412116				1	
63	125	225	1000	1312118		2212118		2412118				1	
75	140	225	1000	1312120		2212120		2412120				1	
90	160	225	1000	1312122		2212122		2412122				1	
110	200	225	1000	1312124		2212124		2412124				1	
125	225	225	1000	1312126		2212126		2412126		2712126		1	NEW
160	250	225	1000	1312130		2212131		2412131		2712130		1	
200	315	225	1000	1312134		2212135		2412135		2712134		1	
250	400	225	1000	1312138		2212139		2412139		2712138		1	
315	450	225	1000	1312142		2212143				2712142		1	
NEW 355	500	225	1000	1312144		2212145				2712144		1	

Also available in design 60° and 75°

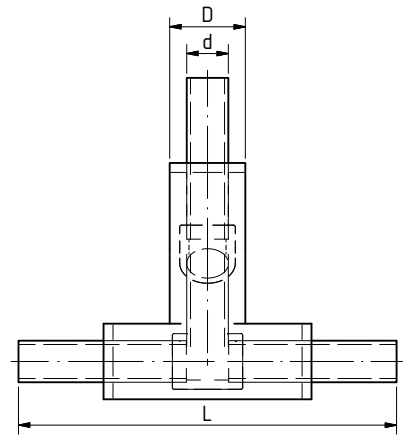
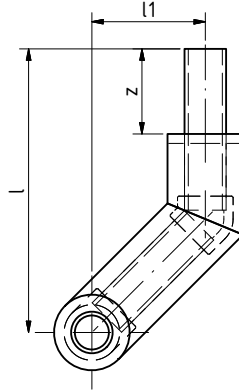
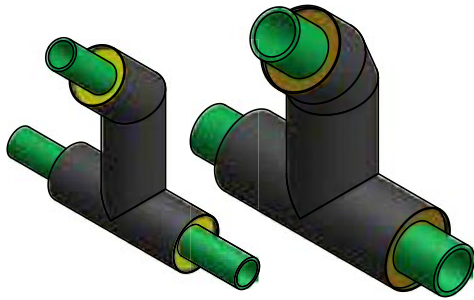


aquatherm ti BRANCH

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	D Casing pipe	z	l	L	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	m/pc	
32	90	225	500	1000	1313112		2213112		2413112*				1	
40	110	225	500	1000	1313114		2213114		2413114				1	
50	110	225	500	1000	1313116		2213116		2413116				1	
63	125	225	500	1000	1313118		2213118		2413118				1	
75	140	225	500	1000	1313120		2213120		2413120				1	
90	160	225	500	1000	1313122		2213122		2413122				1	
110	200	225	500	1000	1313124		2213124		2413124				1	
125	225	225	500	1000	1313126		2213126		2413126		2713126		1	NEW
160	250	225	500	1000	1313130		2213131		2413131		2713130		1	
200	315	225	750	1500	1313134		2213135		2413135		2713134		1	
250	400	225	750	1500	1313138		2213139		2413139		2713138		1	
315	450	225	750	1500	1313142		2213143				2713142		1	
NEW 355	500	225	750	1500	1313144		2213145				2713144		1	

aquatherm ti

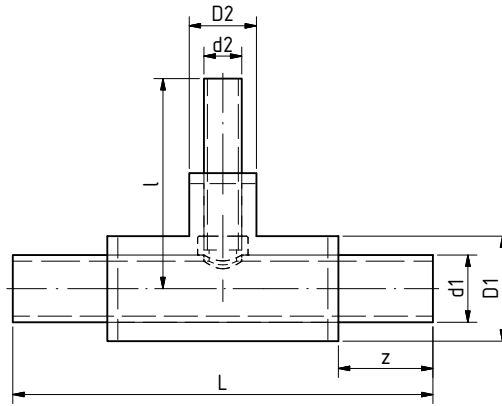
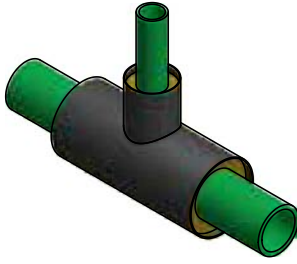


aquatherm ti CROSS-OVER BRANCH

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

aquatherm ti

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			
d Medium pipe	D Casing pipe	z	l	l1	L	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	m/pc
32	90	225	750	190	1000	1318112		2218112		2418112*				1
40	110	225	750	210	1000	1318114		2218114		2418114				1
50	110	225	750	210	1000	1318116		2218116		2418116				1
63	125	225	750	225	1000	1318118		2218118		2418118				1
75	140	225	750	240	1000	1318120		2218120		2418120				1
90	160	225	750	260	1000	1318122		2218122		2418122				1
110	200	225	750	300	1000	1318124		2218124		2418124				1
125	225	225	750	325	1000	1318126		2218126		2418126		2718126		1
160	250	225	1000	350	1000	1318130		2218131		2418131		2718130		1
200	315	225	1000	415	1500	1318134		2218135		2418135		2718134		1
250	400	225	1000	500	1500	1318138		2218139		2418139		2718138		1
315	450	225	1250	550	1500	1318142		2218143				2718142		1
NEW 355	500	225	1250	600	1500	1318144		2218145				2718144		1



aquatherm ti RED.-BRANCH

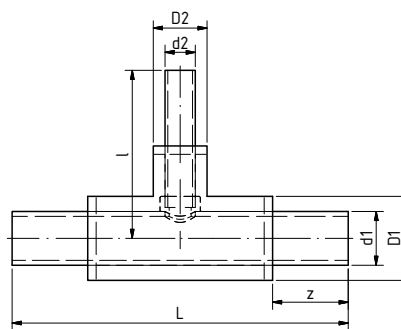
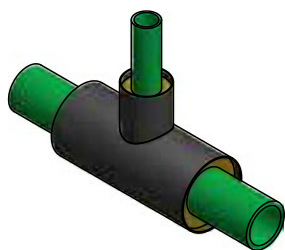
with PUR rigid foam and coated with a casing pipe made of PEHD

Outside diameter							aquatherm green pipe ti SDR 9	aquatherm blue pipe ti SDR 11	aquatherm blue pipe ot ti SDR 11 / SDR 7.4	aquatherm blue pipe ti SDR 17.6 / SDR 11	PU	Box unit			
d1 Medium pipe	d2 Medium pipe	D1 Casing pipe	D2 Casing pipe	z	l	L	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	m/pc
40	32	110	90	225	500	1000	1313202		2213202		2413202*				1
50	32	110	90	225	500	1000	1313206		2213206		2413206*				1
50	40	110	110	225	500	1000	1313208		2213208		2413208				1
63	32	125	90	225	500	1000	1313212		2213212		2413212*				1
63	40	125	110	225	500	1000	1313214		2213214		2413214				1
63	50	125	110	225	500	1000	1313216		2213216		2413216				1
75	32	140	90	225	500	1000	1313220		2213220		2413220*				1
75	40	140	110	225	500	1000	1313222		2213222		2413222				1
75	50	140	110	225	500	1000	1313224		2213224		2413224				1
75	63	140	125	225	500	1000	1313226		2213226		2413226				1
90	32	160	90	225	500	1000	1313230		2213230		2413230*				1
90	40	160	110	225	500	1000	1313232		2213232		2413232				1
90	50	160	110	225	500	1000	1313234		2213234		2413234				1
90	63	160	125	225	500	1000	1313236		2213236		2413236				1
90	75	160	140	225	500	1000	1313238		2213238		2413238				1
110	32	200	90	225	500	1000	1313242		2213242		2413242*				1
110	40	200	110	225	500	1000	1313244		2213244		2413244				1
110	50	200	110	225	500	1000	1313246		2213246		2413246				1
110	63	200	125	225	500	1000	1313248		2213248		2413248				1
110	75	200	140	225	500	1000	1313250		2213250		2413250				1
110	90	200	160	225	500	1000	1313252		2213252		2413252				1
125	32	225	90	225	500	1000	1313256		2213256		2413256*		2713256**		1
125	40	225	110	225	500	1000	1313258		2213258		2413258		2713258**		1
125	50	225	110	225	500	1000	1313260		2213260		2413260		2713260**		1
125	63	225	125	225	500	1000	1313262		2213262		2413262		2713262**		1
125	75	225	140	225	500	1000	1313264		2213264		2413264		2713264**		1
125	90	225	160	225	500	1000	1313266		2213266		2413266		2713266**		1
125	110	225	200	225	500	1000	1313268		2213268		2413268		2713268**		1
160	32	250	90	225	500	1000	1313290		2213291		2413291*		2713290**		1
160	40	250	110	225	500	1000	1313292		2213293		2413293		2713292**		1
160	50	250	110	225	500	1000	1313294		2213295		2413295		2713294**		1
160	63	250	125	225	500	1000	1313296		2213297		2413297		2713296**		1
160	75	250	140	225	500	1000	1313298		2213299		2413299		2713298**		1
160	90	250	160	225	500	1000	1313300		2213301		2413301		2713300**		1
160	110	250	200	225	750	1500	1313302		2213303		2413303		2713302**		1
160	125	250	225	225	750	1500	1313304		2213305		2413305		2713304		1

* Branch d2 SDR 7,4

** Branch d2 SDR 11

On request available: aquatherm green pipe ti SDR 7.4



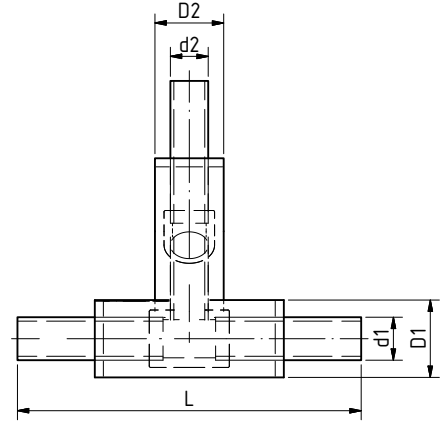
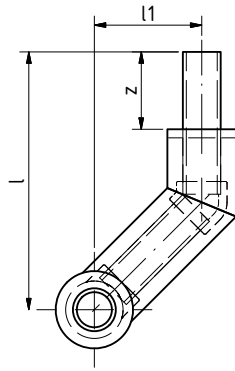
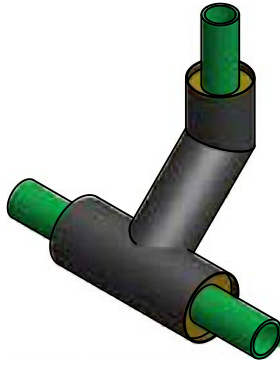
aquatherm ti RED.-BRANCH

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 / SDR 7.4	aquatherm blue pipe ti SDR 17.6 / SDR 11	PU	Box unit			
d1 Medium pipe	d2 Medium pipe	D1 Casing pipe	D2 Casing pipe	z	l	L	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	m/pc
200	32	315	90	225	750	1500	1313332		2213333		2413333*		2713332**		1
200	40	315	110	225	750	1500	1313334		2213335		2413335		2713334**		1
200	50	315	110	225	750	1500	1313336		2213337		2413337		2713336**		1
200	63	315	125	225	750	1500	1313338		2213339		2413339		2713338**		1
200	75	315	140	225	750	1500	1313340		2213341		2413341		2713340**		1
200	90	315	160	225	750	1500	1313342		2213343		2413343		2713342**		1
200	110	315	200	225	750	1500	1313344		2213345		2413345		2713344**		1
200	125	315	225	225	750	1500	1313346		2213347		2413347		2713346		1
200	160	315	250	225	750	1500	1313350		2213351		2413351		2713350		1
250	32	400	90	225	750	1500	1313382		2213383		2413383*		2713382**		1
250	40	400	110	225	750	1500	1313384		2213385		2413385		2713384**		1
250	50	400	110	225	750	1500	1313386		2213387		2413387		2713386**		1
250	63	400	125	225	750	1500	1313388		2213389		2413389		2713388**		1
250	75	400	140	225	750	1500	1313390		2213391		2413391		2713390**		1
250	90	400	160	225	750	1500	1313392		2213393		2413393		2713392**		1
250	110	400	200	225	750	1500	1313394		2213395		2413395		2713394**		1
250	125	400	225	225	750	1500	1313396		2213397		2413397		2713396		1
250	160	400	250	225	750	1500	1313400		2213401		2413401		2713400		1
250	200	400	315	225	750	1500	1313402		2213403		2413403		2713402		1
315	32	450	90	225	750	1500	1313406		2213407				2713406**		1
315	40	450	110	225	750	1500	1313408		2213409				2713408**		1
315	50	450	110	225	750	1500	1313410		2213411				2713410**		1
315	63	450	125	225	750	1500	1313412		2213413				2713412**		1
315	75	450	140	225	750	1500	1313414		2213415				2713414**		1
315	90	450	160	225	750	1500	1313416		2213417				2713416**		1
315	110	450	200	225	750	1500	1313418		2213419				2713418**		1
315	125	450	225	225	750	1500	1313420		2213421				2713420		1
315	160	450	250	225	750	1500	1313424		2213425				2713424		1
315	200	450	315	225	750	1500	1313428		2213429				2713428		1
315	250	450	400	225	750	1500	1313432		2213433				2713432		1
NEW	355	32	500	90	225	750	1500	1313436		2213437			2713436**		1
	355	40	500	110	225	750	1500	1313438		2213439			2713438**		1
	355	50	500	110	225	750	1500	1313440		2213441			2713440**		1
	355	63	500	125	225	750	1500	1313442		2213443			2713442**		1
	355	75	500	140	225	750	1500	1313444		2213445			2713444**		1
	355	90	500	160	225	750	1500	1313446		2213447			2713446**		1
	355	110	500	200	225	750	1500	1313448		2213449			2713448**		1
	355	125	500	225	225	750	1500	1313450		2213451			2713450		1
	355	160	500	250	225	750	1500	1313454		2213455			2713454		1
	355	200	500	315	225	750	1500	1313458		2213459			2713458		1
	355	250	500	400	225	750	1500	1313462		2213463			2713462		1
NEW	355	315	500	450	225	750	1500	1313466		2213467			2713466		1

* Branch d2 SDR 7,4

** Branch d2 SDR 11



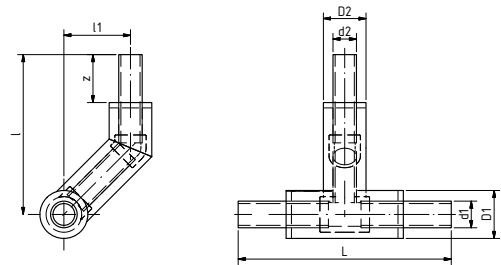
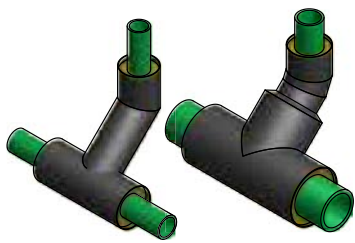
aquatherm ti RED. CROSS-OVER BRANCH

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

Outside diameter								aquatherm 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 / SDR 11	PU	Box unit			
d1 Medium pipe	d2 Medium pipe	D1 Casing pipe	D2 Casing pipe	z	l	l1	L	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	m/pc
40	32	110	90	225	750	200	1000	1318202		2218202		2418202*				1
50	32	110	90	225	750	200	1000	1318206		2218206		2418206*				1
50	40	110	110	225	750	210	1000	1318208		2218208		2418208				1
63	32	125	90	225	750	207,5	1000	1318212		2218212		2418212*				1
63	40	125	110	225	750	217,5	1000	1318214		2218214		2418214				1
63	50	125	110	225	750	217,5	1000	1318216		2218216		2418216				1
75	32	140	90	225	750	215	1000	1318220		2218220		2418220*				1
75	40	140	110	225	750	225	1000	1318222		2218222		2418222				1
75	50	140	110	225	750	225	1000	1318224		2218224		2418224				1
75	63	140	125	225	750	232,5	1000	1318226		2218226		2418226				1
90	32	160	90	225	750	225	1000	1318230		2218230		2418230*				1
90	40	160	110	225	750	235	1000	1318232		2218232		2418232				1
90	50	160	110	225	750	235	1000	1318234		2218234		2418234				1
90	63	160	125	225	750	242,5	1000	1318236		2218236		2418236				1
90	75	160	140	225	750	250	1000	1318238		2218238		2418238				1
110	32	200	90	225	750	245	1000	1318242		2218242		2418242*				1
110	40	200	110	225	750	255	1000	1318244		2218244		2418244				1
110	50	200	110	225	750	255	1000	1318246		2218246		2418246				1
110	63	200	125	225	750	262,5	1000	1318248		2218248		2418248				1
110	75	200	140	225	750	270	1000	1318250		2218250		2418250				1
110	90	200	160	225	750	280	1000	1318252		2218252		2418252				1
125	32	225	90	225	750	257,5	1000	1318256		2218256		2418256*	2718256**			1
125	40	225	110	225	750	267,5	1000	1318258		2218258		2418258	2718258**			1
125	50	225	110	225	750	267,5	1000	1318260		2218260		2418260	2718260**			1
125	63	225	125	225	750	275	1000	1318262		2218262		2418262	2718262**			1
125	75	225	140	225	750	282,5	1000	1318264		2218264		2418264	2718264**			1
125	90	225	160	225	750	292,5	1000	1318266		2218266		2418266	2718266**			1
125	110	225	200	225	750	312,5	1000	1318268		2218268		2418268	2718268**			1
160	32	250	90	225	750	270	1000	1318290		2218291		2418291*	2718290**			1
160	40	250	110	225	750	280	1000	1318292		2218293		2418293	2718292**			1
160	50	250	110	225	750	280	1000	1318294		2218295		2418295	2718294**			1
160	63	250	125	225	750	287,5	1000	1318296		2218297		2418297	2718296**			1
160	75	250	140	225	750	295	1000	1318298		2218299		2418299	2718298**			1
160	90	250	160	225	750	305	1000	1318300		2218301		2418301	2718300**			1
160	110	250	200	225	1000	325	1000	1318302		2218303		2418303	2718302**			1
160	125	250	225	225	1000	337,5	1000	1318304		2218305		2418305	2718304			1

* Branch d2 SDR 7,4

** Branch d2 SDR 11



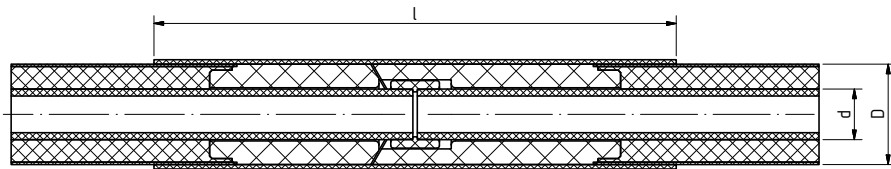
aquatherm ti RED. CROSS-OVER BRANCH

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

Outside diameter								aquatherm 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 / SDR 11	PU	Box unit				
d1 Medium pipe	d2 Medium pipe	D1 Casing pipe	D2 Casing pipe	z	l	l1	L	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	m/pc	
200	32	315	90	225	750	302,5	1000	1318332		2218333		2418333*		2718332**		1	
200	40	315	110	225	750	312,5	1000	1318334		2218335		2418335		2718334**		1	
200	50	315	110	225	750	312,5	1000	1318336		2218337		2418337		2718336**		1	
200	63	315	125	225	750	320	1000	1318338		2218339		2418339		2718338**		1	
200	75	315	140	225	750	327,5	1000	1318340		2218341		2418341		2718340**		1	
200	90	315	160	225	750	337,5	1000	1318342		2218343		2418343		2718342**		1	
200	110	315	200	225	1000	357,5	1000	1318344		2218345		2418345		2718344**		1	
200	125	315	225	225	1000	370	1500	1318346		2218347		2418347		2718346		1	
200	160	315	250	225	1000	382,5	1500	1318350		2218351		2418351		2718350		1	
250	32	400	90	225	750	345	1000	1318382		2218383		2418383*		2718382**		1	
250	40	400	110	225	1000	355	1000	1318384		2218385		2418385		2718384**		1	
250	50	400	110	225	1000	355	1000	1318386		2218387		2418387		2718386**		1	
250	63	400	125	225	1000	362,5	1000	1318388		2218389		2418389		2718388**		1	
250	75	400	140	225	1000	370	1000	1318390		2218391		2418391		2718390**		1	
250	90	400	160	225	1000	380	1000	1318392		2218393		2418393		2718392**		1	
250	110	400	200	225	1000	400	1000	1318394		2218395		2418395		2718394**		1	
250	125	400	225	225	1000	412,5	1000	1318396		2218397		2418397		2718396		1	
250	160	400	250	225	1000	425	1500	1318400		2218401		2418401		2718400		1	
250	200	400	315	225	1000	457,5	1500	1318402		2218403		2418403		2718402		1	
315	32	450	90	225	1000	370	1000	1318406		2218407				2718406**		1	
315	40	450	110	225	1000	380	1000	1318408		2218409				2718408**		1	
315	50	450	110	225	1000	380	1000	1318410		2218411				2718410**		1	
315	63	450	125	225	1000	387,5	1000	1318412		2218413				2718412**		1	
315	75	450	140	225	1000	395	1000	1318414		2218415				2718414**		1	
315	90	450	160	225	1000	405	1000	1318416		2218417				2718416**		1	
315	110	450	200	225	1000	425	1000	1318418		2218419				2718418**		1	
315	125	450	225	225	1000	437,5	1000	1318420		2218421				2718420		1	
315	160	450	250	225	1000	450	1000	1318424		2218425				2718424		1	
315	200	450	315	225	1000	482,5	1500	1318428		2218429				2718428		1	
315	250	450	400	225	1000	525	1500	1318432		2218433				2718432		1	
NEW	355	32	500	90	225	1000	395	1000	1318436		2218437				2718436**		1
	355	40	500	110	225	1000	405	1000	1318438		2218439				2718438**		1
	355	50	500	110	225	1000	405	1000	1318440		2218441				2718440**		1
	355	63	500	125	225	1000	412,5	1000	1318442		2218443				2718442**		1
	355	75	500	140	225	1000	420	1000	1318444		2218445				2718444**		1
	355	90	500	160	225	1000	430	1000	1318446		2218447				2718446**		1
	355	110	500	200	225	1000	450	1000	1318448		2218449				2718448**		1
	355	125	500	225	225	1000	462,5	1000	1318450		2218451				2718450		1
	355	160	500	250	225	1000	475	1000	1318454		2218455				2718454		1
	355	200	500	315	225	1000	507,5	1000	1318458		2218459				2718458		1
	355	250	500	400	225	1000	550	1500	1318462		2218463				2718462		1
NEW	355	315	500	450	225	1000	575	1500	1318466		2218467				2718466		1

* Branch d2 SDR 7,4

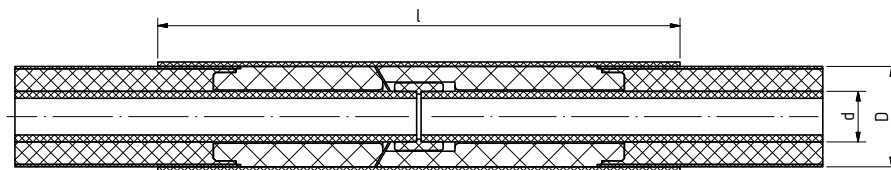
** Branch d2 SDR 11



aquatherm ti SOCKET PLA

consists of shrink sleeve with PUR-rigid foam insulation elements and accessories, 650 mm total lengths. With integrated hot-melt adhesive.

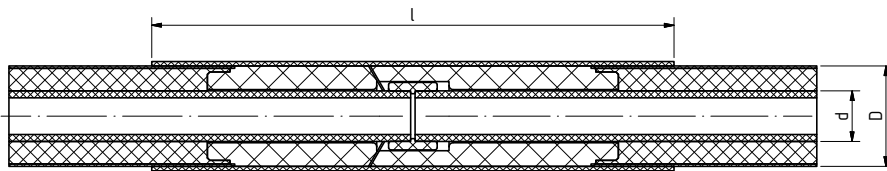
Outside diameter			aquatherm ti			
Medium pipe d	Casing pipe D	l	Art.-No.	PU	Box unit	Price € m/pc
<i>Socket welding: the fitting for the connection of the medium pipes is included in delivery.</i>						
32	90	650	2211012	1		
40	110	650	2211014	1		
50	110	650	2211016	1		
63	125	650	2211018	1		
75	140	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	Casing pipe D	l	Art.-No.	PU	Box unit	Price € m/pc
<i>Socket welding: the fitting for the connection of the medium pipes is included in delivery.</i>						
32	90	750	1211012	1		
40	110	750	1211014	1		
50	110	750	1211016	1		
63	125	750	1211018	1		
75	140	750	1211020	1		
90	160	750	1211022	1		
110	200	750	1211024	1		
125	225	750	1211026	1		
<i>Butt welding: no fitting is required for the connection of the medium pipes</i>						
160	250	750	1211030	1		
200	315	750	1211034	1		
250	400	750	1211038	1		
315	450	750	1211042	1		
355	500	750	1211044	1		

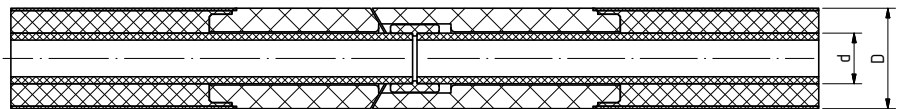


aquatherm ti SOCKET WTD

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	Casing pipe D	l	Art.-No.	PU	Box unit	Price € m/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		

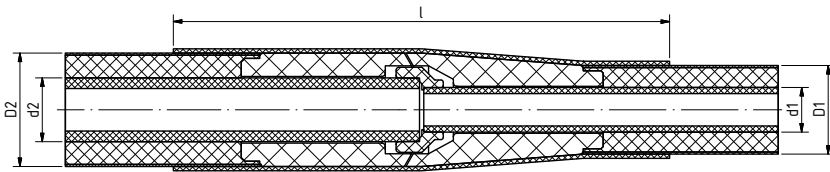
aquatherm ti



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. 87)

Outside diameter		aquatherm ti			
Medium pipe d	Casing pipe D	Art.-No.	PU	Box unit	Price € m/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		

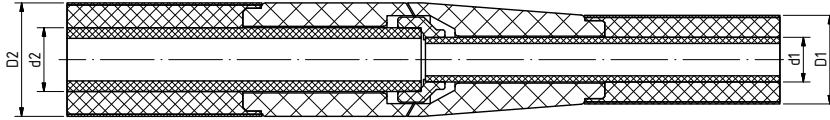


aquatherm ti REDUCING SOCKET

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	d1 Medium pipe	D1 Casing pipe	D2 Casing pipe	l	Art.-No.	Price € m/pc		
<i>Socket welding: up to 125 x 110 mm, than onesided socket- and onesided butt welding</i>								
40	32	90	110	900	1211222		1	
50	32	90	110	900	1211228		1	
50	40	110	110	900	1211230		1	
63	40	110	125	900	1211236		1	
63	50	110	125	900	1211238		1	
75	50	110	140	900	1211240		1	
75	63	125	140	900	1211242		1	
90	63	125	160	900	1211252		1	
90	75	140	160	900	1211253		1	
110	75	140	200	900	1211257		1	
110	90	160	200	900	1211259		1	
125	90	160	225	900	1211263		1	
125	110	200	225	900	1211265		1	

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	d1 Medium pipe	D1 Casing pipe	D2 Casing pipe	l	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	
<i>Double-sided butt welding</i>												
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	250	400	450	900	1311296		2211297		2711296		1	
315	250	400	450	900	1311298		2211299		2711298		1	
NEW	355	250	400	500	1311304		2211305		2711304		1	
NEW	355	315	450	500	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

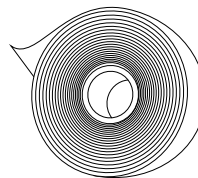
Outside diameter		aquatherm ti			PU	Box unit
d2	d1	D1	D2	Art.-No.	Price € m/pc	
<i>Socket welding: up to 125 x 110 mm, than onesided socket- and onesided butt welding</i>						
40	32	90	110	2411222		1
50	32	90	110	2411228		1
50	40	110	110	2411230		1
63	40	110	125	2411236		1
63	50	110	125	2411238		1
75	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 green pipe ti SDR 9	aquatherm blue pipe ti SDR 11	aquatherm blue pipe ti SDR 17.6	PU	Box unit	
d2	d1	D1	D2	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc
160	110	200	250	1311275		2411275		2711275	
160	125	225	250	1311277		2411277		2711277	
200	125	225	315	1311283		2411283		2711283	
<i>Double-sided butt welding</i>									
200	160	250	315	1311285		2411285		2711285	
250	160	250	400	1311289		2411289		2711289	
250	200	315	400	1311291		2411291		2711291	
315	200	315	450	1311297		2411297		2711297	
315	250	400	450	1311299		2411299		2711299	
NEW	355	250	400	1311305		2411305		2711305	
NEW	355	315	450	1311307		2411307		2711307	

aquatherm ti MONO TOP 40 INSULATION TAPE

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

Art.-No.	Wide	Length	PU	Box unit	Price € m/pc
2411000	50 mm	15 m	1		
2411001	100 mm	15 m	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

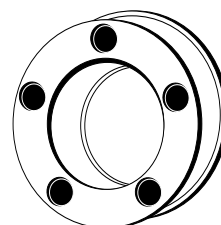
Outside diameter		aquatherm ti			
Medium pipe	Casing pipe	Art.-No.	PU	Box unit	Price € m/pc
32 mm	90 mm	1214112	1		
40-50 mm	110 mm	1214114	1		
63-75 mm	125-140 mm	1214118	1		
90 mm	160 mm	1214122	1		
110 mm	200 mm	1214124	1		
125 mm	225 mm	1214126	1		
160 mm	250 mm	1214130	1		
200 mm	315 mm	1214134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



aquatherm ti COMPACT SEALS

Pipe collar for wall duct.

Outside diameter			aquatherm ti			
Core drill hole	Medium pipe	Casing pipe	Art.-No.	PU	Box unit	Price € m/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		

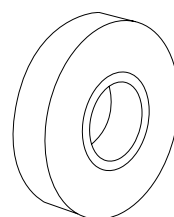


aquatherm ti WARNING TAPE

Art.-No.	Width	PU	Box unit	Price € m/pc
50191	40 mm	250 m		

Colour: yellow

Printing in black: "Attention district heating pipeline"

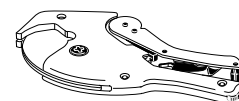
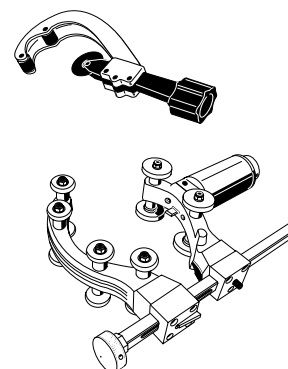


Tools for processing the aquatherm-ti system see from page 88 also an explanation regarding the processing from page 104

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 € m/pc
50102	16-40mm	1		
50105	50-125mm	1		
50106	110-200mm	1		



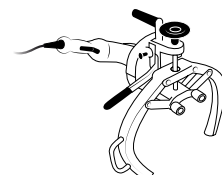
PIPE CUTTER

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

ORBITAL CIRCULAR SAW

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

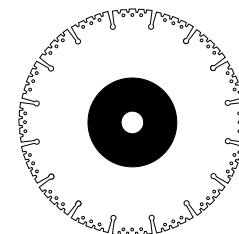
This orbital circular saw can be ordered directly from Rothenberger with Art.-No. 55620 (www.rothenberger.com).
High-performance orbital circular saw for fast, precise, perfectly aligned and right-angled cutting of plastic pipes 160 - 355 mm at the building site or in the workshop.



CUTTING DISC FOR PLASTIC

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

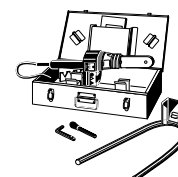
Application: for each angle grinder
Design: diamant galvanized cutting disc



MANUAL WELDING DEVICE (500 W)

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

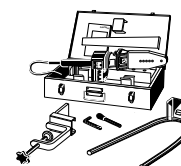
for one tool, with base and case for tools
Also available: 110 V (art.-no. 450336)



MANUAL WELDING DEVICE (800 W)

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

Also available: 110 V (art.-no. 450337)



MANUAL WELDING DEVICE (1400 W)

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

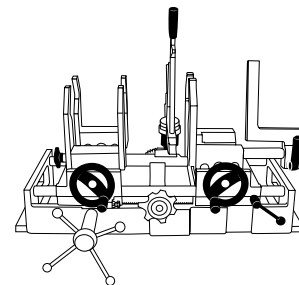
Also available: 110 V (art.-no. 450341)



WELDING MACHINE (1400 W)

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

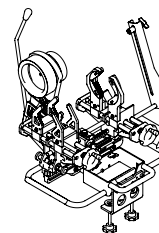
including welding tools 50-125 mm, roll stand and wooden transport case
Also available: 110 V (art.-no. 450148)



WELDING MACHINE (1400 W) LIGHT

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

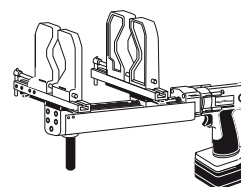
including manual welding device (1400 W) and wooden transport case
Also available: 110 V (art.-no. 450145)



ELECTRIC WELDING JIG

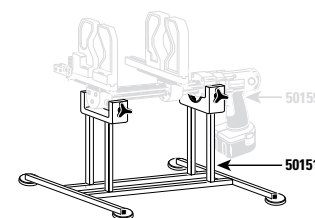
Art.-No.	for pipe dimensions	PU	Box unit	Price € m/pc
50159	ø 63-125mm	1		

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 € m/pc
50151		1		



BUTT-WELDING MACHINE-TWO-RING-MACHINE WIDOS

Art.-No..	Dimension	PU	Box unit	Price € m/pc
50350*	ø 160 - 250 mm	1		
50351*	ø 160 - 315 mm	1		

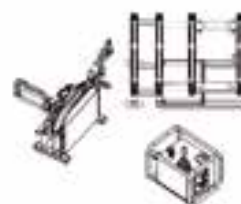
The butt-welding-two-ring machine can be purchased directly from Widos (www.widos.de)
* Also available in design with 110 volt (Art.-No.. 450350 = ø 160-250mm / 450351 = ø 160-315mm)



BUTT WELDING MACHINE WIDOS

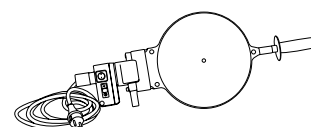
Art.-No..	Dimension	PU	Box unit	Price € m/pc
50352*	ø 160-250mm	1		
50353*	ø 160-315mm	1		
50354*	ø 160-355mm	1		
50355*	ø 200-450mm	1		
50356**	ø 200-500mm	1		
50357**	ø 315-630mm	1		

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



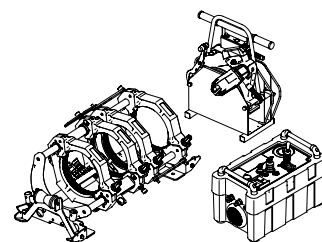
MANUAL WELDING DEVICE (1500 W) FOR SADDLE WELDING Ø 50-160 MM

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



BUTT WELDING MACHINE RITMO

Art.-No.	for pipe dimensions	PU	Box unit	Price € m/pc
50165*	ø 160-250mm	1		
50166*	ø 160-315mm	1		
50177	ø 160-355mm	1		
50169	ø 400-630mm	1		

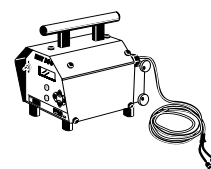


including wooden transport box. The butt welding machine can be obtained directly from Ritmo (www.ritmo.it)

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

ELECTROFUSION DEVICE

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

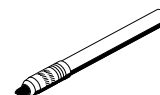


For processing with electro-fusion-sockets Art.-No. 17208-17238.

Special calibration-tools - obtainable on request - are required

TEMPERATURE PENCIL

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50190		1		



to check the correct welding temperature

SURFACE THERMOMETER

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50188		1		



to check the correct welding temperature

TEMPERATURE PRETECTIVE GLOVE

for tool change

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50195		2		



CLEANING WIPES

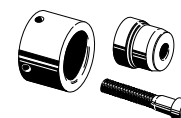
Art.-No.	Dimension	PU	Box unit	Price € m/pc
50193	Box/100 towels	1		

for electrofusion sockets



WELDING TOOLS

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



REPAIR SET

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50307	7mm	1		
50311	11mm	1		

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



PIPE REPAIR STICK

for pipe repairs

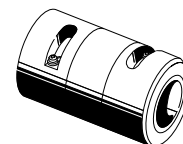
Art.-No.	Dimension	PU	Box unit	Price € m/pc
60600	7/11mm	10		



aquatherm PEELING TOOL FOR WELDING SOCKETS

for aquatherm green pipe stabi-composite pipe

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50506	16/20 mm	1		



aquatherm UNIVERSAL PEELING TOOLS

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

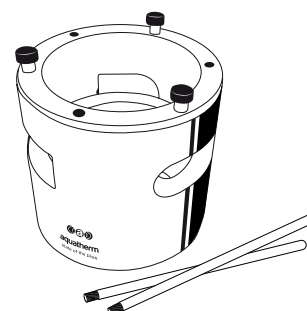


Required for the socket welding

(in combination with socket welding fittings from page 22 onwards, e.g. sockets, elbows, T-pieces, transition pieces with thread)

Also suitable for manual peeling (bolts included)

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50479	20 mm	1		
50480	25 mm	1		
50481	32 mm	1		
50482	40 mm	1		
50483	50 mm	1		
50484	63 mm	1		
50485	75 mm	1		
50486	90 mm	1		
50487	110 mm	1		
50488	125 mm	1		
50501	Spare blade with screw	1		



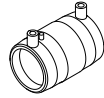
incl. bolts
for manual peeling

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

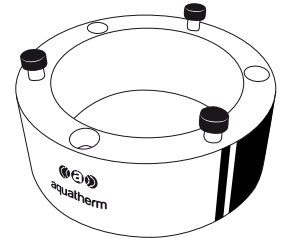
S = single, **MF** = multilayer fibre, **MS** = multilayer stabi, **OT** = oxygen tight, **UV** = ultraviolet protected, **TI** = thermal insulation, **RP** = raised pressure

aquatherm EXTENSION FOR UNIVERSAL PEELING TOOL

Required for the electrofusion socket welding
(aquatherm electrofusion sockets on page 48)



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)

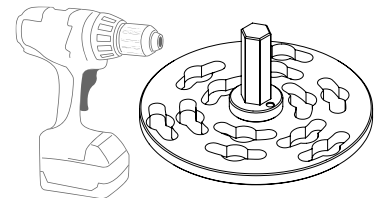


Art.-No.	Dimension	PU	Box unit	Price € m/pc
50489	for peeling tool 20 mm art.-no. 50479	1		
50490	for peeling tool 25 mm art.-no. 50480	1		
50491	for peeling tool 32 mm art.-no. 50481	1		
50492	for peeling tool 40 mm art.-no. 50482	1		
50493	for peeling tool 50 mm art.-no. 50483	1		
50494	for peeling 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 € m/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 € m/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 € m/pc
50478	for ø 75 - 125 mm	1		

consisting of:

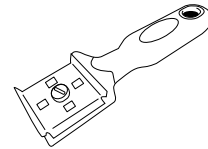
- 1 x case
- Each 1x 50485-50488 peeling tool 75-125 mm
- 1x 50500 attachment plate for universal peeling tool 50485-50488
- 1x 50503 1 toggle-set
- 1x 50504 torx wrench
- 1x 50505 hexagon Allen key size 4
- 6x 99794 6 fixing screws for Art.-No. 50495-50498 M5x35



MANUAL SCRAPER FOR aquatherm blue pipe OT PIPES

Art.-No..	Dimension	PU	Box unit	Price € m/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.



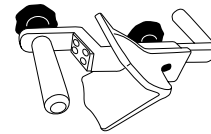
SPARE BLADE SET FOR ART.-NO. 50509

Art.-No..	Dimension	PU	Box unit	Price € m/pc
99909	2 pieces = 1 set	1		

CHAMFERING TOOL FOR aquatherm blue pipe OT PIPES

Art.-No..	Dimension	PU	Box unit	Price € m/pc
50510	32-250mm	1		

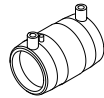
For removal of oxid coating before butt-welding.



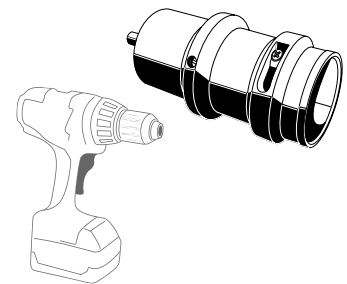
aquatherm PEELING TOOLS FOR ELECTROFUSION SOCKET WELDING (ART.-NO.17208-17238)

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 46)



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



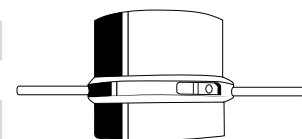
Art.-No. 50558-50572

In combination with a drilling machine (not included!)

50440	spare blade	1		
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For manual peeling

50574	110 mm	1		
50576	125 mm	1		
50580	160 mm	1		

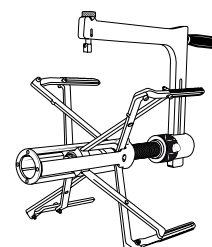


Art.-No. 50574-50580

50441	spare blade	1		
--------------	-------------	---	--	--

For manual peeling

50592	200 + 250 mm	1		
99739	spare blade	1		



Art.-No. 50592

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

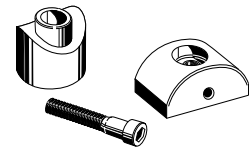
S = single, **MF** = multilayer fibre, **MS** = multilayer stabi, **OT** = oxygen tight, **UV** = ultraviolet protected, **TI** = thermal insulation, **RP** = raised pressure

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

SADDLE WELDING TOOLS

for welding saddles

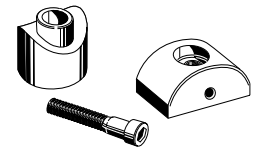
Art.-No.	Dimension	PU	Box unit	Price € m/pc
50614	40x20/25mm	1		
50616	50x20/25mm	1		
50619	63x20/25mm	1		
50620	63x32mm	1		
50623	75x20/25mm	1		
50624	75x32mm	1		
50625	75x40mm	1		
50627	90x20/25mm	1		
50628	90x32mm	1		
50629	90x40mm	1		
50631	110x20/25mm	1		
50632	110x32mm	1		
50634	110x40mm	1		
50635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



SADDLE WELDING TOOLS

for welding saddles

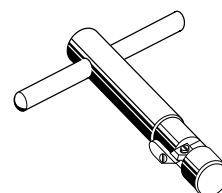
Art.-No.	Dimension	PU	Box unit	Price € m/pc
50684	250x90mm	1		
50686	250x110mm	1		
50688	250x125mm	1		
50690	315x63mm	1		
50692	315x75mm	1		
50694	315x90mm	1		
50696	315x110mm	1		
50698	315x125mm	1		
50699	315x160mm	1		
50712	355x63mm	1		
50714	355x75mm	1		
50716	355x90mm	1		
50718	355x110mm	1		
50720	355x125mm	1		
50722	355x160mm	1		
50726	400-630x63mm	1		
50728	400-500x75mm	1		
50730	560-630x75mm	1		
50732	400-500x90mm	1		
50734	560-630x90mm	1		
50736	400-450x110mm	1		
50738	500-560x110mm	1		
50740	630x110mm	1		
50742	400x125mm	1		
50744	450-500x125mm	1		
50746	560-630x125mm	1		



CHAMFERING DEVICES

suitable for aquatherm green pipe MS (multi-layer stabi pipe)

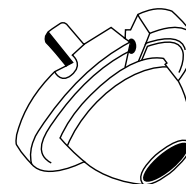
Art.-No.	Dimension	PU	Box unit	Price € m/pc
50910	20&25mm	1		
50912	32mm	1		
50914	40mm	1		



for removal of the aluminium swarfs at the drill hole only with stabi-composite pipes - to prepare the saddle welding

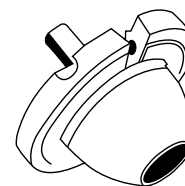
SADDLE PEELING TOOLS FOR aquatherm blue pipe OT PIPES Ø 50-125 mm

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



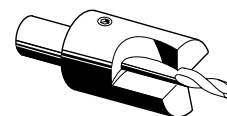
SADDLE PEELING TOOLS FOR aquatherm blue pipe OT PIPES Ø 160-250 mm

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



DRILLS for installation of weld-in saddles

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50940	20&25mm (40-160mm)	1		
50941	20&25mm (63-250mm)	1		
50942	32mm	1		
50944	40mm	1		
50946*	50mm	1		
50948*	63mm	1		
50950*/**	75mm	1		
50952*/**	90mm	1		
50954*/**	110mm	1		
50956*/**	125mm	1		
50958*/**	160mm	1		

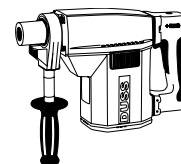


* may only be used in fixed drilling machines! ** tool holder MK4

Please note: Art.- No. 50950-50958 are discontinued articles who are no longer available after sale of stocks.

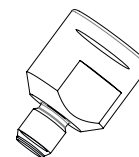
DRILL DUSS DIA303

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50978		1		



CHUCK ADAPTER FOR ART.- NR. 50971

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50969		1		



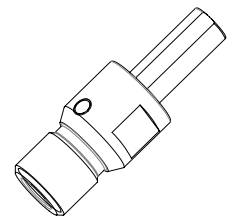
KEYLESS CHUCK clamping range 1,5-13mm

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50971		1		



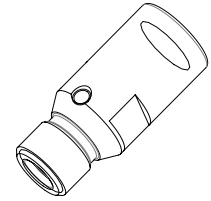
HOLE SAW HOLDER LSA3

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



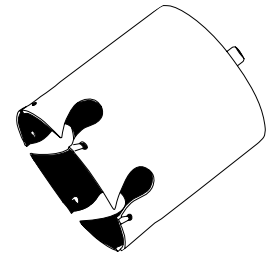
HOLE SAW HOLDER LSA2

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



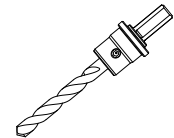
SADDLE-HOLE SAW FOR BRANCH *for assembly of weld-in saddles*

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50987	75mm	1		
50988	90mm	1		
50989	110mm	1		
50990	125mm	1		
50991	160mm	1		



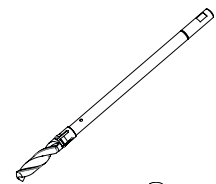
QUICK CHANGE ADAPTER 75-90MM

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50973	for Art.- No. 50987-50988	1		



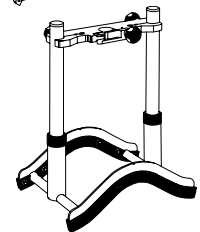
CENTER DRILL LSZ 1

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50975	with capture sleeve	1		



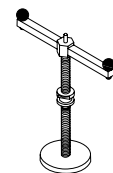
DRILL RIG FOR DUSS-DRILL

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50977		1		



WELDING FIXTURE FOR DRILL RIG 50977

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50979		1		



HOLE SAW SYSTEM

The diagram illustrates the Hole Saw System components and their assembly. It shows a cross-section of a hole saw assembly with labels for various parts:

- Art.-No. 50974: Hole Saw Holder LSA2
- Art.-No. 50976: Hole Saw Holder LSA3
- Art.-No. 50975: Center Drill LSZ 1
- Art.-No. 50973: Quick Change Adapter 75-90mm
- Art.-No. 50987-50991: Saddle-Hole Saw for Branch (various dimensions)
- Art.-No. 50969: Drill Rig for DUSS-Drill
- Art.-No. 50971: Welding Fixture for Drill Rig 50977
- Art.-No. 50979: Welding Fixture for Drill Rig 50977 (base)
- Art.-No. 50987 & 50988: Saddle-Hole Saw for Branch (75mm and 90mm)

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, blue pipe and lilac pipe with the **pipe structure S, MS 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**.



Both instructions for use of company Hütz + Baumgarten and aquatherm have to be read carefully before first starting. Be familiar with the controls and work-flows before using the tool. The hot tapping tool may only be operated by persons which are trained, instructed and empowered. These persons must be familiar with the instructions for use and act accordingly.

You will find the processing of the weld-on saddles with the appropriate weld-on saddle tools in our technical documentation green pipe, blue pipe and lilac pipe.

Available from March 2017

NEW HOT TAPPING TOOL

for weld-on saddles under pressure

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50890	for dimension 40 + 63mm	1		

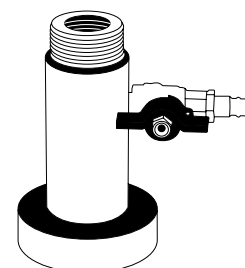


NEW ADAPTER FOR BALL VALVE 40MM

for weld-on saddles under pressure

for Art.-No. 41494

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50891	for ball valve 40 mm	1		

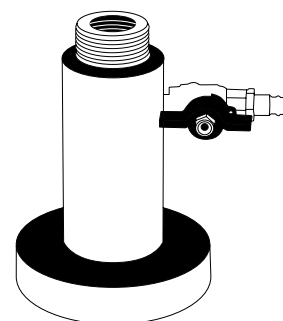


NEW ADAPTER FOR BALL VALVE 63MM

for weld-on saddles under pressure

for Art.-No. 41498

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50892	for ball valve 63 mm	1		

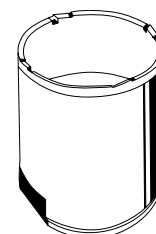


NEW PP-MILLING CUTTER 40MM

for weld-on saddles under pressure

for Art.-No. 50891

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50893	40 mm	1		

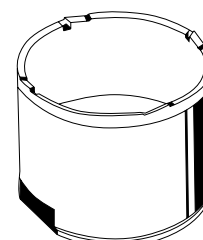


NEW PP-MILLING CUTTER 63MM

for weld-on saddles under pressure

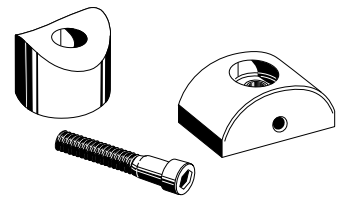
for Art.-No. 50892

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50894	63 mm	1		



NEW aquatherm WELD-ON SADDLE TOOL

for weld-on saddles under pressure



Art.-No.	Dimension	PU	Box unit	Price € m/pc
50760	75x40mm for 50890	1		
50761	90x40mm for 50890	1		
50762	110x40mm for 50890	1		
50763	125x40mm for 50890	1		
50764	125x63mm for 50890	1		
50765	160x40mm for 50890	1		
50766	160x63mm for 50890	1		
50767	200x40mm for 50890	1		
50768	200x63mm for 50890	1		
50769	250x40mm for 50890	1		
50770	250x63mm for 50890	1		
50771	315x63mm for 50890	1		
50772	355x63mm for 50890	1		
50773	400-630x63mm for 50890	1		

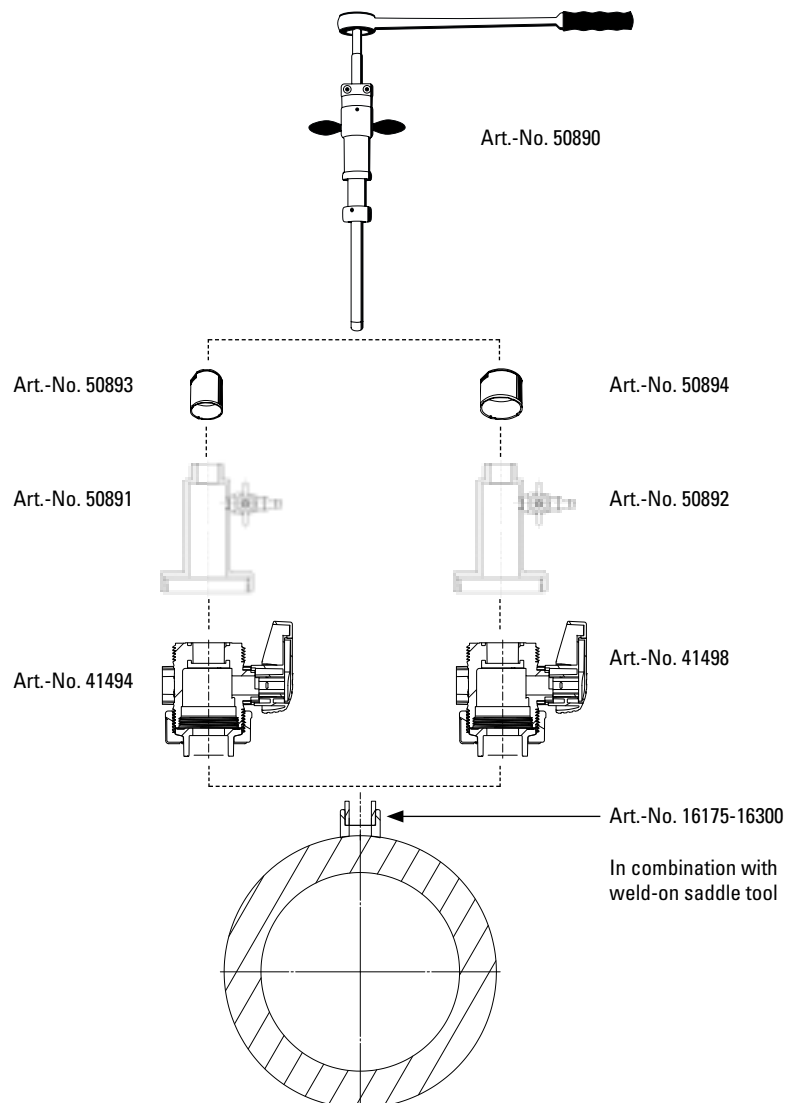
HOT TAPPING TOOL

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 saddles Art.-No. 16175-16300



WELDING PROCESS TOOLS AND EQUIPMENT

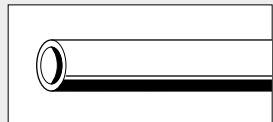
for pipes with additional outer layer / protection layer

aquatherm green pipe SDR 7,4 MS & 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

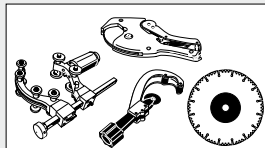
1. SOCKET WELDING 16-125 mm



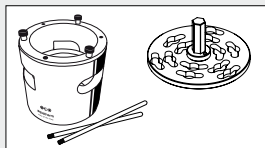
Pipes specified above



Socket welding fittings

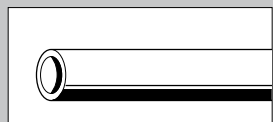


Pipe cutter p. 88, 127
50104 ø 16-40 mm
Pipe cutter p. 88
50102/50105/50106 ø16-160 mm
Cutting disc p. 88
50107 ø125mm/50109 ø230mm

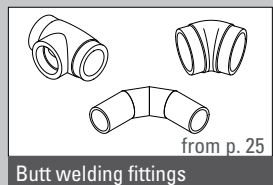


Universal peeling tool p. 91
50479-50488
20-125 mm (16 mm on request)
+ (opt.) Attachment plate* p. 92
50499/50500

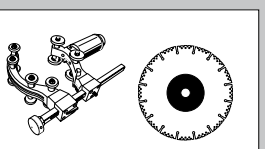
2. BUTT WELDING 160-630 mm



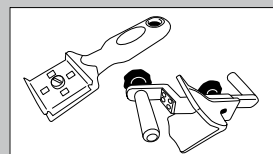
Pipes specified above



Butt welding fittings

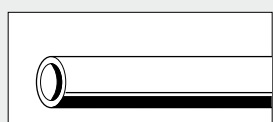


Pipe cutter p. 88
50106 ø 110-160 mm
Orbital circular saw p. 88
50108 ø 160-355 mm
Cutting disc p. 88
50107 ø125mm/50109 ø230mm

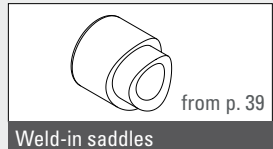


Scraper/Chamfering tool for OT pipes p. 93
50509
99909
Cutter for UV-pipes
not available with aquatherm!

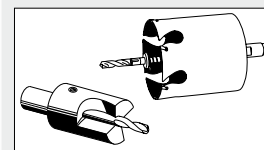
3. SADDLE WELDING 20-160 mm



Pipes specified above



Weld-in saddles



Drill p. 96
50940-50958 50987-50991
20-160mm 75-315mm
From 50 mm we recommend the application of drill presses.

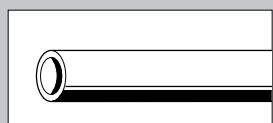


for OT pipes p. 96
Saddle welding tools *
50921-50928 for ø 50-125 mm
50421-50428 for ø 160-250 mm

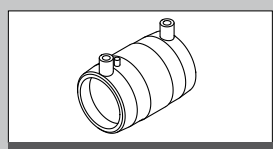


for MS pipes p. 96
Chafering device
50910-50914 for ø 20-40 mm

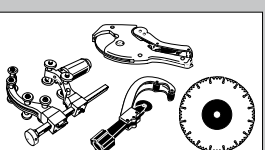
4. ELECTROFUSION SOCKET WELDING 20-125 mm



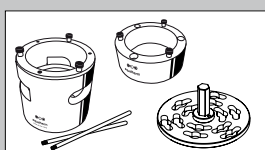
Pipes specified above



Electrofusion sockets p. 48



Pipe cutter p. 88, 127
50104 ø 16-40 mm
Pipe cutter p. 88
50102/50105/50106 ø16-160 mm
Cutting disc p. 88
50107 ø125mm/50109 ø230mm

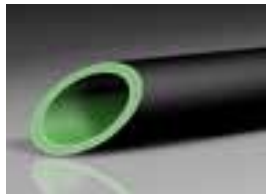


Universal peeling tool p. 91
50479-50488 for ø 20-125 mm
+ Extension p. 92
50489-50498
+ (opt.) Attachment plate* p. 92
50499/50500

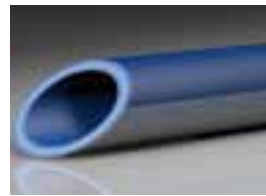
PIPES & FITTINGS CUTTING PEELING DRILLING SADDLE PEELING / CHAMFERING



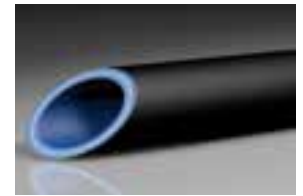
aquaTherm green pipe
SDR 7.4 MS
Page 11



aquaTherm green pipe
SDR 7.4/9 MF UV
Page 13



aquaTherm blue pipe
SDR 7.4/11 MF OT
Page 19



aquaTherm blue pipe
SDR 7.4/11/17.6 MF UV
Page 18

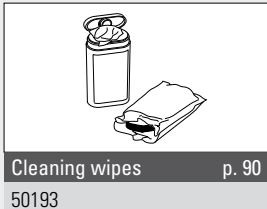
CLEANING

MEASUREMENT
OF TEMPERATURE

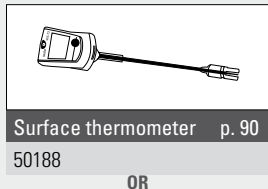
WELDING TOOLS

MANUAL WELDING DEVICES OR

WELDING MACHINES

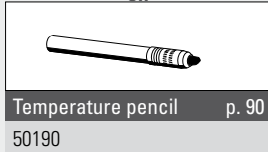


Cleaning wipes p. 90
50193



Surface thermometer p. 90
50188

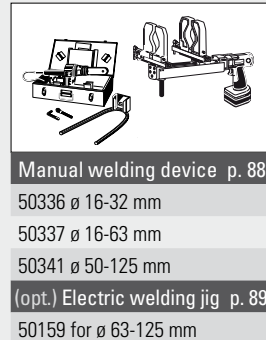
OR



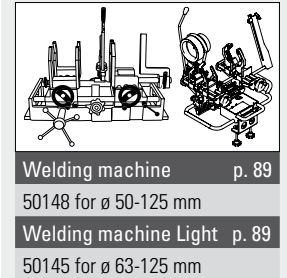
Temperature pencil p. 90
50190



Welding tools p. 90
50206-50226

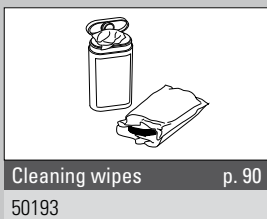


Manual welding device p. 88
50336 \varnothing 16-32 mm
50337 \varnothing 16-63 mm
50341 \varnothing 50-125 mm
(opt.) Electric welding jig p. 89
50159 for \varnothing 63-125 mm

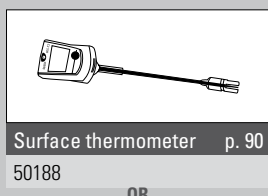


Welding machine p. 89
50148 for \varnothing 50-125 mm
Welding machine Light p. 89
50145 for \varnothing 63-125 mm

1

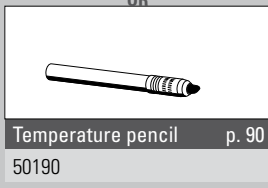


Cleaning wipes p. 90
50193



Surface thermometer p. 90
50188

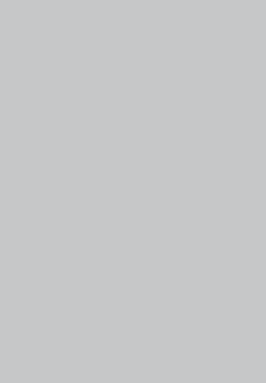
OR



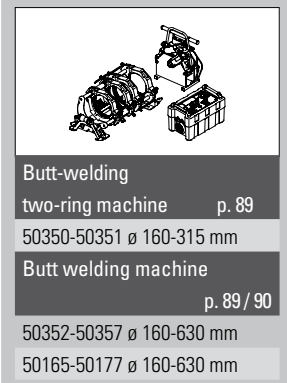
Temperature pencil p. 90
50190



Saddle welding tools p.94
50614-50746

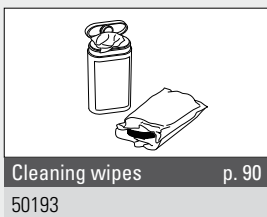


Manual welding device p. 88
50336 \varnothing 16-32 mm
50337 \varnothing 16-63 mm
50341 \varnothing 50-125 mm
50330 \varnothing 50-160 mm

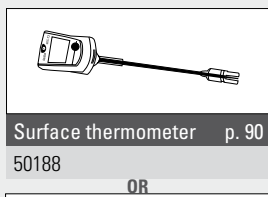


Butt-welding
two-ring machine p. 89
50350-50351 \varnothing 160-315 mm
Butt welding machine
p. 89 / 90
50352-50357 \varnothing 160-630 mm
50165-50177 \varnothing 160-630 mm

2

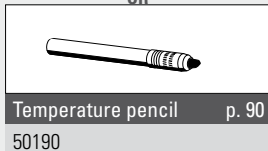


Cleaning wipes p. 90
50193



Surface thermometer p. 90
50188

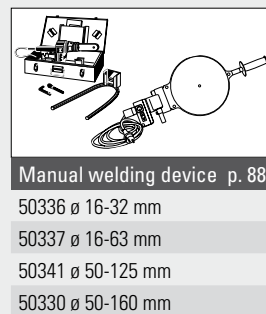
OR



Temperature pencil p. 90
50190

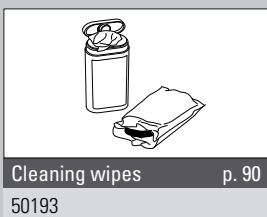


Saddle welding tools p.94
50614-50746

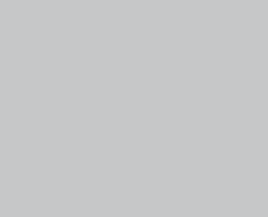


Manual welding device p. 88
50336 \varnothing 16-32 mm
50337 \varnothing 16-63 mm
50341 \varnothing 50-125 mm
50330 \varnothing 50-160 mm

3



Cleaning wipes p. 90
50193

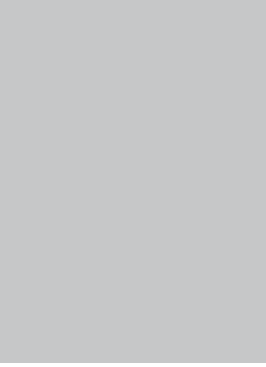


Surface thermometer p. 90
50188

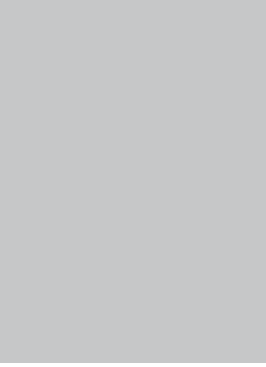
OR



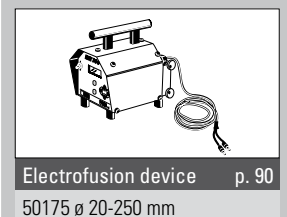
Temperature pencil p. 90
50190



Saddle welding tools p.94
50614-50746



Manual welding device p. 88
50336 \varnothing 16-32 mm
50337 \varnothing 16-63 mm
50341 \varnothing 50-125 mm
50330 \varnothing 50-160 mm



Electrofusion device p. 90
50175 \varnothing 20-250 mm

4

CLEANING

MEASUREMENT
OF TEMPERATURE

WELDING TOOLS

MANUAL WELDING DEVICES OR

WELDING MACHINES

WELDING PROCESS TOOLS AND EQUIPMENT

for pipes without additional outer layer / protection layer

aquatherm green pipe SDR 6/7,4/11 S & SDR 7,4 MF & SDR 9 MF RP

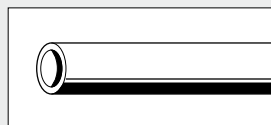
aquatherm blue pipe SDR 11 S & SDR 7,4/11/17,6 MF



aquatherm green pipe
SDR 6/7,4 S
Page 14

PIPES & FITTINGS	CUTTING	PEELING	DRILLING	SADDLE PEELING / CHAMFERING
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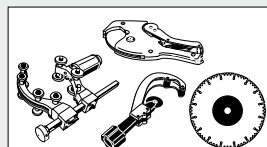
1. SOCKET WELDING 16-125 mm



Pipes specified above

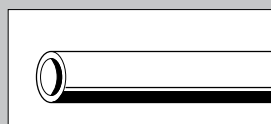


Socket welding fittings

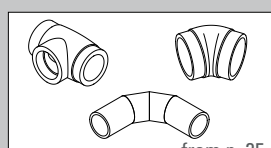


- Pipe cutter p.88,127
- 50104 ø 16-40 mm
- Pipe cutter p. 88
- 50102/50105/50106 ø16-160 mm
- Cutting disc p. 88
- 50107 ø125mm/50109 ø230mm

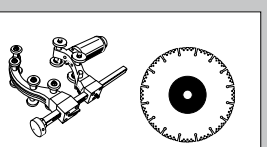
2. BUTT WELDING 160-630 mm



Pipes specified above

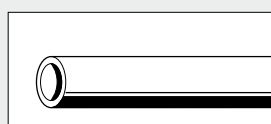


Butt welding fittings



- Pipe cutter p. 88
- 50106 ø 110-160 mm
- Orbital circular saw p. 88
- 50108 ø 160-355 mm
- Cutting disc p. 88
- 50107 ø125mm/50109 ø230mm

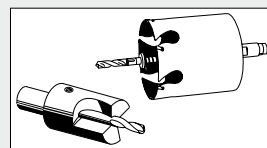
3. SADDLE WELDING 20-160 mm



Pipes specified above

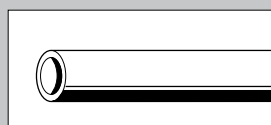


Weld-in saddles

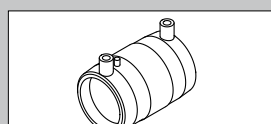


- Drill p. 96
- 50940-50958 50987-50991
- 20-160mm 75-315mm
- From 50 mm we recommend the application of drill presses.*

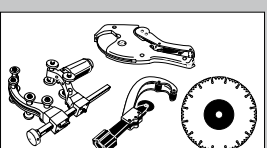
4. ELECTROFUSION SOCKET WELDING 20-250 mm



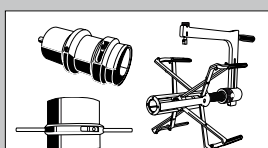
Pipes specified above



Electrofusion sockets p. 48

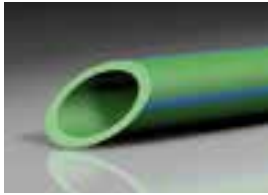


- Pipe cutter p.88,127
- 50104 ø 16-40 mm
- Pipe cutter p. 88
- 50102/50105/50106 ø16-160 mm
- Cutting disc p. 88
- 50107 ø125mm/50109 ø230mm



- Peeling tools * p. 93
- 50558-50572
- 20-90 mm
- Manual peeling tools p. 93
- 50574-50592
- 110-250 mm

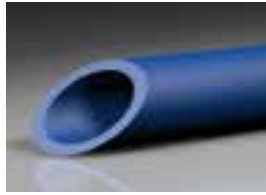
PIPES & FITTINGS	CUTTING	PEELING	DRILLING	SADDLE PEELING / CHAMFERING
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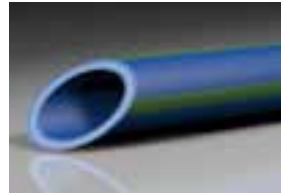
aquaTherm green pipe
SDR 11 S
Page 15



aquaTherm green pipe
SDR 7.4 MF / SDR 9 MF RP
Page 11



aquaTherm blue pipe
SDR 11 S
Page 19



aquaTherm blue pipe
SDR 7.4/11/17.6 MF
Page 17



aquaTherm lilac pipe
SDR 7.4/11 S
Page 20

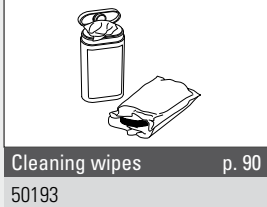
CLEANING

MEASUREMENT
OF TEMPERATURE

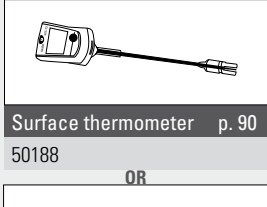
WELDING TOOLS

MANUAL WELDING DEVICES OR

WELDING MACHINES



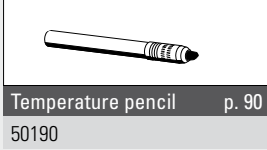
Cleaning wipes p. 90
50193



Surface thermometer p. 90

50188

OR

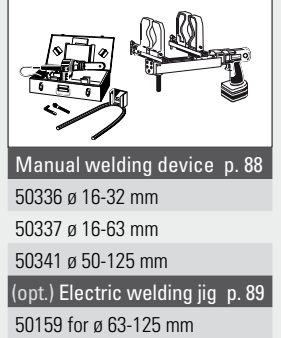


Temperature pencil p. 90

50190



Welding tools p. 90
50206-50226



Manual welding device p. 88

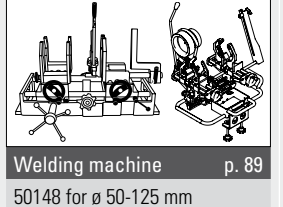
50336 \varnothing 16-32 mm

50337 \varnothing 16-63 mm

50341 \varnothing 50-125 mm

(opt.) Electric welding jig p. 89

50159 for \varnothing 63-125 mm

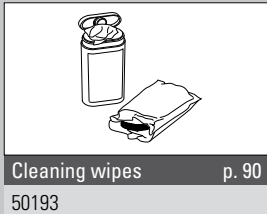


Welding machine p. 89

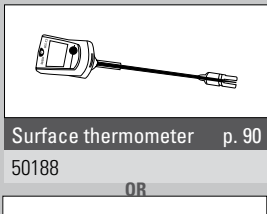
50148 for \varnothing 50-125 mm

Welding machine Light p. 89

50145 for \varnothing 63-125 mm



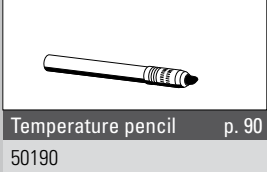
Cleaning wipes p. 90
50193



Surface thermometer p. 90

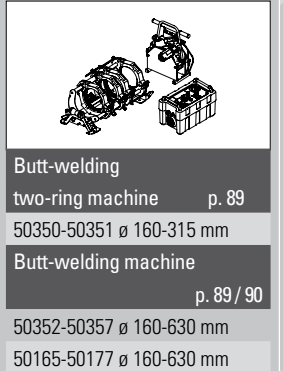
50188

OR



Temperature pencil p. 90

50190



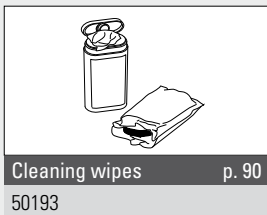
Butt-welding
two-ring machine p. 89

50350-50351 \varnothing 160-315 mm

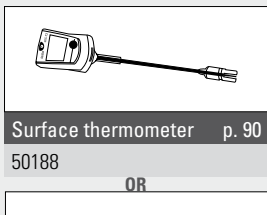
Butt-welding machine
p. 89 / 90

50352-50357 \varnothing 160-630 mm

50165-50177 \varnothing 160-630 mm



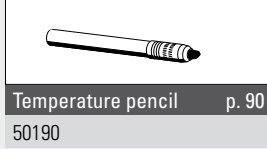
Cleaning wipes p. 90
50193



Surface thermometer p. 90

50188

OR



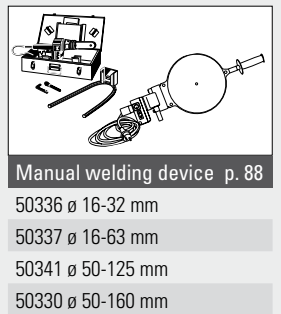
Temperature pencil p. 90

50190



Saddle welding tools p. 94

50614-50746



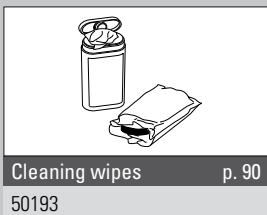
Manual welding device p. 88

50336 \varnothing 16-32 mm

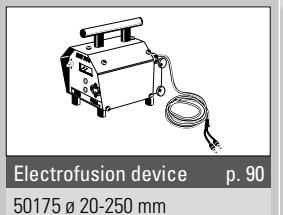
50337 \varnothing 16-63 mm

50341 \varnothing 50-125 mm

50330 \varnothing 50-160 mm



Cleaning wipes p. 90
50193



Electrofusion device p. 90

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

PB-connection pipe 16-25 mm
Multi-layer metal composite pipe 16-40 mm

aquatherm orange system

PE-RT-pipe 10-25 mm
PB-pipe 16&17 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

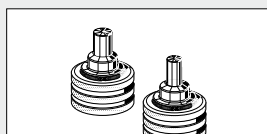


Pipes specified above



from p. 115

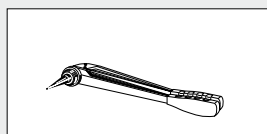
Fittings with sliding sleeves



False jaws p. 128

50857-50864

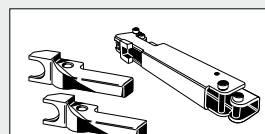
ø 16-40 mm



Expanding tool p. 128

50800

ø 10-40 mm

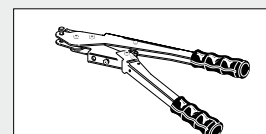


Tool insert p. 129

50824-50834 for ø 10-40 mm

+(opt.) Angle attachment p.129

50803

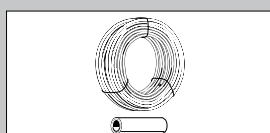


Mounting tool p. 129

50802

ø 10-40 mm

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

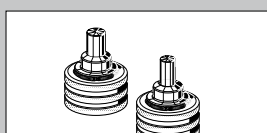


Pipes specified above



from p. 115

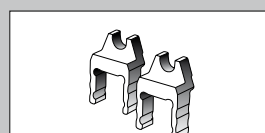
Fittings with sliding sleeves



False jaws p. 128

50857-50864

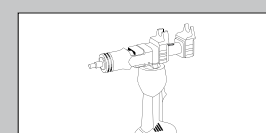
ø 16-40 mm



Tool inserts p. 129

50875-50882

ø 16-40 mm



Hydraulic accumulator mounting tool p. 128

50809

ø 16-40 mm

PIPES & FITTINGS

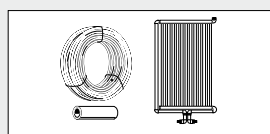
FALSE JAWS

EXPANDING

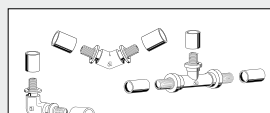
TOOL INSERTS

MOUNTING

3. MANUAL ASSEMBLY PB-PIPE 16-25 mm, PE-RT-PIPE 10-25 mm, DRY WALL HEATING ELEMENT sliding sleeve connection

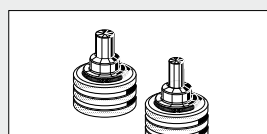


Pipes specified above



from p. 115

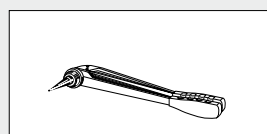
Fittings with sliding sleeves



False jaws p. 128

50814-50820

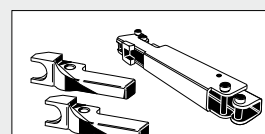
ø 10-25 mm



Expanding tool S. 128

50800

ø 10-40 mm

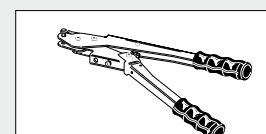


Tool insert p. 129

50824-50834 for ø 10-40 mm

+(opt.) Angle attachment p.129

50803

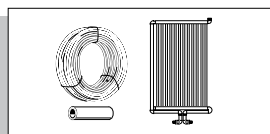


Mounting tool p. 129

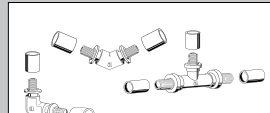
50802

ø 10-40 mm

4. MACHINE ASSEMBLY PB PIPE 16-25 mm, PE-RT PIPE 10-25 mm, DRY WALL HEATING ELEMENT sliding sleeve connection

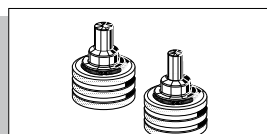


Pipes specified above



from p. 115

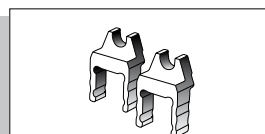
Fittings with sliding sleeves



False jaws p. 128

50814-50820

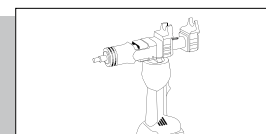
ø 10-25 mm



Tool inserts p. 129

50875-50882

ø 16-40 mm



Hydraulic accumulator mounting tool p. 128

50809

ø 16-40 mm

aquatherm Prefabrication

Advantages aquatherm Prefabrication: Planning, fabrication and service

Investors

- Support from planning to commissioning
- Service technicians provide advice and support on site
- Development of customized solutions
- Time- and cost savings due to pre-fabrication
- Cost transparency
- Quick and easy installation into existing systems
- Reduce dead-time
- Over 40 years of proven quality and experience
- Insurance cover up to 20 million Euros per individual case

Architects and planners

- Planning support from the aquatherm design team
- Support for the plausibility and completeness check
- Provision of CAD and planning data
- Detailed planning data for testing and production release
- 3D drawings minimize design errors
- Early detailed planning means planning and cost reliability
- High precision of the components due to pre-fabrication
- Time saving through pre-fabrication
- Years of experience in manifold and plant construction

Advantages of aquatherm manifolds and special components

- Consistent quality by industrial prefabrication „Made in Germany“
- Certified and inspected – ISO 9001/ISO 14001/ISO 50001
- Resistance to corrosion, chemicals and aggressive media
- Pre-insulated available
- Thinner insulation
- UV-resistance available
- Heat- / sound-insulating properties
- Oxygen-tight¹
- Hygienic²
- Weight reduction due to the use of PP-R
- No silting by corrosion products
- Less pipe roughness and high abrasion resistance
- High impact strength
- Tight connection of pipe and fitting by fusion
- Three-layer pipe structure with glass fiber-reinforced middle-layer
- Flame resistant according to DIN 4102-1, building material class B 1³
- Recyclable
- Durable

Plumbers / Plant engineers

- High, tested quality with a 10 years warranty
- Support and advice of service technicians on site
- Highest accuracy due to detailed planning
- Order monitoring and delivery by the specialized wholesale
- No delays due to missing parts
- Low tooling costs
- Rapid add-on by aquatherm saddle-technique
- Weight reduction due to the use of PP-R, thus easier handling during transport and on site
- No improvise on site
- Fast installation times
- Installation in confined spaces is possible
- Compensation of skills shortage

¹ aquatherm blue pipe OT

² aquatherm green pipe

³ aquatherm red pipe



NEW aquatherm green / blue pipe TWO-SIDED WITH FLANGE ADAPTER AND LOOSE FLANGE 5.8 M

MF = Multifaser / S = single layer pipe as single pipe in 5.8 m length

Outside diameter	aquatherm green pipe SDR 9		aquatherm green pipe SDR 11		aquatherm blue pipe SDR 11		aquatherm blue pipe ot SDR 11		aquatherm blue pipe SDR 17,6		PU m/pc
	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	
160 mm	7270729		7310229*		8370129		8570129		8470129		5.8
200 mm	7270733		7310233*		8370133		8570133		8470133		5.8
250 mm	7270737		7310237*		8370137		8570137		8470137		5.8
315 mm	7270741		7310241*		8370141				8470141		5.8
355 mm	7270743		7310243*		8370143				8470143		5.8
400 mm			7310245		8370145				8470145		5.8
450 mm			7310247		8370147				8470147		5.8
500 mm									8470149		5.8
560 mm									8470151		5.8
630 mm									8470153		5.8

* single layer



NEW aquatherm green / blue pipe TWO-SIDED WITH FLANGE ADAPTER AND LOOSE FLANGE 11.6 M

MF = Multifaser / S = single layer pipe as single pipe in 11.6 m length

Outside diameter	aquatherm green pipe SDR 9		aquatherm green pipe SDR 11		aquatherm blue pipe SDR 11		aquatherm blue pipe ot SDR 11		aquatherm blue pipe SDR 17,6		PU m/pc
	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	
160 mm	7270730		7310230*		8370130		8570130		8470130		11.6
200 mm	7270734		7310234*		8370134		8570134		8470134		11.6
250 mm	7270738		7310238*		8370138		8570138		8470138		11.6
315 mm	7270742		7310242*		8370142				8470142		11.6
355 mm	7270744		7310244*		8370144				8470144		11.6
400 mm			7310246		8370146				8470146		11.6
450 mm			7310248		8370148				8470148		11.6
500 mm									8470150		11.6
560 mm									8470152		11.6
630 mm									8470154		11.6

* single layer



NEW aquatherm green / blue pipe ONE-SIDED WITH FLANGE ADAPTER AND LOOSE FLANGE 5.8 M

MF = Multifaser / S = single layer pipe as single pipe in 5.8 m length

Outside diameter	aquatherm green pipe SDR 9		aquatherm green pipe SDR 11		aquatherm blue pipe SDR 11		aquatherm blue pipe ot SDR 11		aquatherm blue pipe SDR 17,6		PU m/pc
	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	
160 mm	7270829		7310329*		8370329		8570329		8470329		5.8
200 mm	7270833		7310333*		8370333		8570333		8470333		5.8
250 mm	7270837		7310337*		8370337		8570337		8470337		5.8
315 mm	7270841		7310341*		8370341				8470341		5.8
355 mm	7270843		7310343*		8370343				8470343		5.8
400 mm			7310345		8370345				8470345		5.8
450 mm			7310347		8370347				8470347		5.8
500 mm									8470349		5.8
560 mm									8470351		5.8
630 mm									8470353		5.8

* single layer

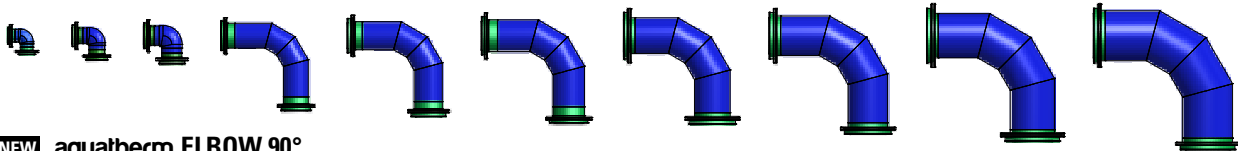


NEW aquatherm green / blue pipe ONE-SIDED WITH FLANGE ADAPTER AND LOOSE FLANGE 11.6 M

MF = Multifaser / S = single layer pipe as single pipe in 11.6 m length

Outside diameter	aquatherm green pipe SDR 9		aquatherm green pipe SDR 11		aquatherm blue pipe SDR 11		aquatherm blue pipe ot SDR 11		aquatherm blue pipe SDR 17,6		PU
	Medium pipe	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	
160 mm		7270830		7310330*		8370330		8570330		8470330	11.6
200 mm		7270834		7310334*		8370334		8570334		8470334	11.6
250 mm		7270838		7310338*		8370338		8570338		8470338	11.6
315 mm		7270842		7310342*		8370342				8470342	11.6
355 mm		7270844		7310344*		8370344				8470344	11.6
400 mm				7310346		8370346				8470346	11.6
450 mm				7310348		8370348				8470348	11.6
500 mm										8470350	11.6
560 mm										8470352	11.6
630 mm										8470354	11.6

* single layer



NEW aquatherm ELBOW 90°

Outside diameter	aquatherm green pipe SDR 9		aquatherm green pipe SDR 11		aquatherm blue pipe SDR 11		aquatherm blue pipe ot SDR 11		aquatherm blue pipe SDR 17,6		PU
	Medium pipe	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	
160 mm		7212130		7312131		8312131		8512131		8412130	1
200 mm		7212134		7312135		8312135		8512135		8412134	1
250 mm		7212138		7312139		8312139		8512139		8412138	1
315 mm		7212142		7312143		8312143				8412142	1
355 mm		7212144		7312145		8312145				8412144	1
400 mm				7312147		8312147				8412146	1
450 mm				7312149		8312149				8412148	1
500 mm										8412150	1
560 mm										8412152	1
630 mm										8412154	1

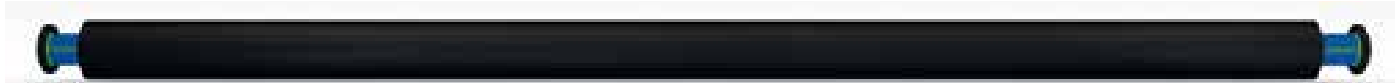
On demand also available in design 60° und 75°



NEW aquatherm TI FIBER COMPOSITE PIPE TWO-SIDED WITH FLANGE ADAPTER AND LOOSE FLANGE 5.8 M

Fiber composite pipe as single pipe in 5.8 m length with PUR- rigid foam insulation and PE-casing pipe.

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
Medium pipe	Casing pipe	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	m/pc
160 mm	250 mm	7470729		8770129		8970129		8870129		5.8
200 mm	315 mm	7470733		8770133		8970133		8870133		5.8
250 mm	400 mm	7470737		8770137		8970137		8870137		5.8
315 mm	450 mm	7470741		8770141				8870141		5.8
355 mm	500 mm	7470743		8770143				8870143		5.8



NEW aquatherm TI FIBER COMPOSITE PIPE TWO-SIDED WITH FLANGE ADAPTER AND LOOSE FLANGE 11.6 M

Fiber composite pipe as single pipe in 11.6 m length with PUR- rigid foam insulation and PE-casing pipe.

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
Medium pipe	Casing pipe	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	m/pc
160 mm	250 mm	7470730		8770130		8970130		8870130		11.6
200 mm	315 mm	7470734		8770134		8970134		8870134		11.6
250 mm	400 mm	7470738		8770138		8970138		8870138		11.6
315 mm	450 mm	7470742		8770142				8870142		11.6
355 mm	500 mm	7470744		8770144				8870144		11.6



NEW aquatherm TI FIBER COMPOSITE PIPE ONE-SIDED WITH FLANGE ADAPTER AND LOOSE FLANGE 5.8 M

Fiber composite pipe as single pipe in 5.8 m length with PUR- rigid foam insulation and PE-casing pipe.

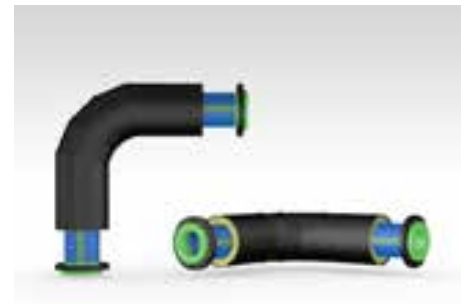
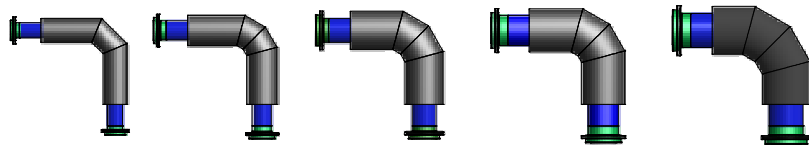
Outside diameter		aquatherm green pipe ti SDR 9		aquatherm blue pipe ti SDR 11		aquatherm blue pipe ot ti SDR 11		aquatherm blue pipe ti SDR 17,6		PU
Medium pipe	Casing pipe	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	m/pc
160 mm	250 mm	7470829		8770329		8970329		8870329		5.8
200 mm	315 mm	7470833		8770333		8970333		8870333		5.8
250 mm	400 mm	7470837		8770337		8970337		8870337		5.8
315 mm	450 mm	7470841		8770341				8870341		5.8
355 mm	500 mm	7470843		8770343				8870343		5.8



NEW aquatherm TI FIBER COMPOSITE PIPE ONE-SIDED WITH FLANGE ADAPTER AND LOOSE FLANGE 11.6 M

Fiber composite pipe as single pipe in 11.6 m length with PUR-rigid foam insulation and PE-casing pipe.

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
Medium pipe	Casing pipe	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	m/pc
160 mm	250 mm	7470830		8770330		8970330		8870330		11.6
200 mm	315 mm	7470834		8770334		8970334		8870334		11.6
250 mm	400 mm	7470838		8770338		8970338		8870338		11.6
315 mm	450 mm	7470842		8770342				8870342		11.6
355 mm	500 mm	7470844		8770344				8870344		11.6



NEW aquatherm ti ELBOW 90°

with PUR-rigid foam insulation and PE-casing pipe

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
Medium pipe	Casing pipe	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	pc
160 mm	250 mm	7412130		8712131		8912131		8812130		1
200 mm	315 mm	7412134		8712135		8912135		8812134		1
250 mm	400 mm	7412138		8712139		8912139		8812138		1
315 mm	450 mm	7412142		8712143				8812142		1
355 mm	500 mm	7412144		8712145				8812144		1

On demand also available in design 60° und 75°



aquatherm grey pipe

POTABLE WATER AND HEATING CONNECTION SYSTEM

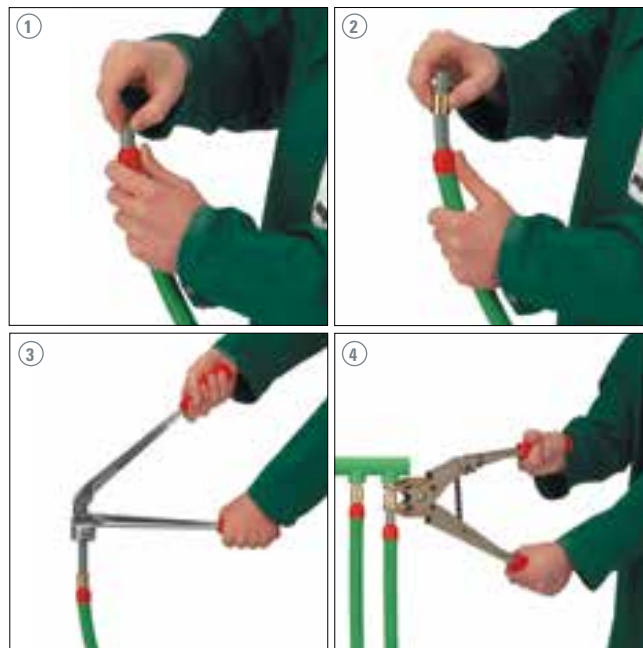
The aquatherm grey pipe installation system consists of high-quality multi-layer metal composite pipe or optional flexible polybutene pipe.

Depending on the application or request you can choose between insulated and non-insulated pipe and the variant with corrugated pipe. All systems are DVGW-approved.

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

- ▶ Extensive product range
- ▶ Dimension 16-40 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

SLIDING-SLEEVE CONNECTION



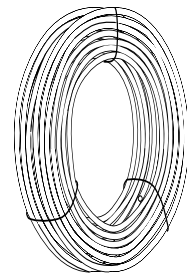
aqualtherm grey pipe MULTILAYER-METAL COMPOSITE PIPE

oxygen-tight

Art.-No..	Dimension	PU	Box unit	Price € m/pc
... ring				
777070	16 mm	100		
777072	20 mm	100		
... in length à 4 m				
777050	16mm	100		
777052	20mm	65		
777054	25mm	45		
777056	32mm	35		
... in length à 4 m				
777058	40mm	40		

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
 According to: DIN 4726 oxygen-tight

Please use only the suitable expansion tools Art.-No.. 50857, 50860, 50862, 50864 for the multilayer-metal composite pipe.

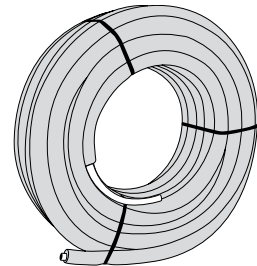


aqualtherm grey pipe MULTILAYER-METAL COMPOSITE PIPE

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

Art.-No..	Dimension	PU	Box unit	Price € m/pc
777030	16x2mm	50		
777032	20x2mm	50		
Material:	PE-X	Application field:	Potable water/heating	
Color:	white	DVGW-Registr.-No.:	DW-8216 BT0628	
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	

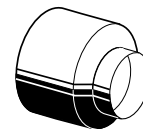
Please use only the suitable expansion tools Art.-No.. 50857, 50860, 50862, 50864 for the multilayer-metal composite pipe.



aqualtherm grey pipe END SLEEVE FOR CORRUGATED PIPE

Art.-No.	for pipe dimensions	Colour	PU	Price € m/pc
77080	corrugated pipe 16 mm - Art. 77010	red	50	
77082	corrugated pipe 20 mm - Art. 77012	red	50	
77090	corrugated pipe 16 mm - Art. 77010	blue	50	
77092	corrugated pipe 20 mm - Art. 77012	blue	50	

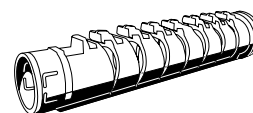
Material: PE
 Colour: 77080-77082: red / 77090-77092: blue

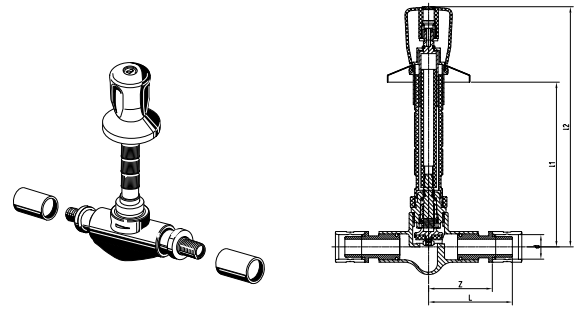


aqualtherm grey pipe SNAP IN RADIUS SUPPORT

Art.-No.	for pipe dimensions	PU	Price € m/pc
79566	16 & 17mm	25	
79568	20mm	20	

Material: PE
 Colour: black



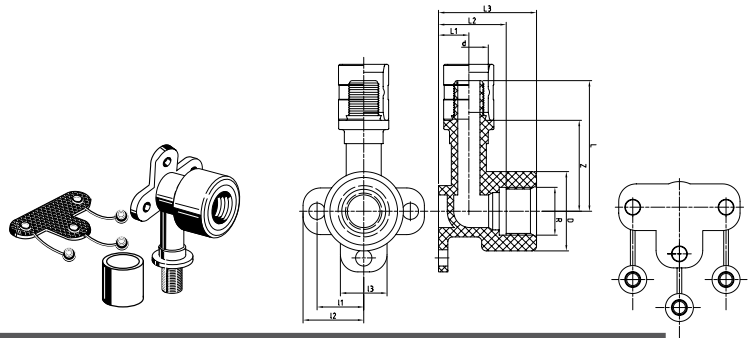


aquatherm grey pipe CONCEALED STOP VALVE

including sliding sleeve - for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	d	Z	L	I1	I2	PU	Price € m/pc
779858	20	54,00	71,00	139,50	203,50	1	

suitable for construction depth from 55 mm - 100 mm



aquatherm grey pipe BACK PLATE ELBOW

Art.-No.	d	R	D	Z	L	L1	L2	L3	I1	I2	I3	PU	Price € m/pc
779000	16	G1/2	34,00	39,00	56,00	13,00	29,00	42,00	0,00	26,00	20,00	1	
779002	20	G3/4	40,00	42,00	59,00	13,00	29,00	42,00	0,00	31,00	20,00	1	
779004	20	G1/2	34,00	39,00	56,00	13,00	29,00	42,00	0,00	26,00	20,00	1	
779006	25	G3/4	33,00	36,00	54,00	27,00	29,00	48,00	0,00	26,00	20,00	1	

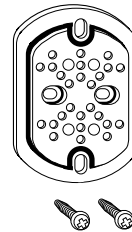
Material: PPSU/brass
including acoustic panel (PP)
proper to sound insulation plate Art.-No. 79080

aquatherm grey pipe SOUND INSULATION PLATE

for aquatherm green pipe- and aquatherm grey pipe-back plate elbow

Art.-No.	Dimension	PU	Price € m/pc
79080		2	

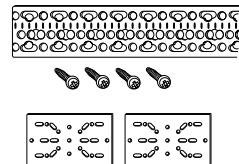
suitable with the mouting rail Art.-No. 79090
See z-measures, page 49.



MOUNTING RAIL

Art.-No.	Dimension	PU	Price € m/pc
79090	560mm	1	

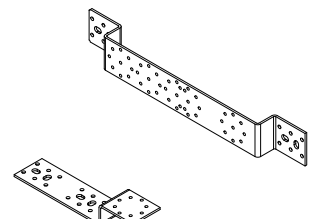
galvanized, for assembly of back plate elbow, including 2 fixing plates and 4 screws
See Z-measures, page 49.



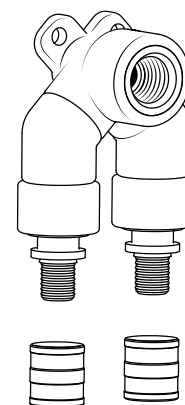
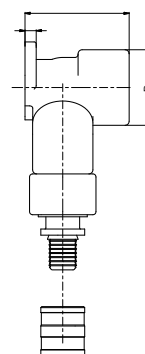
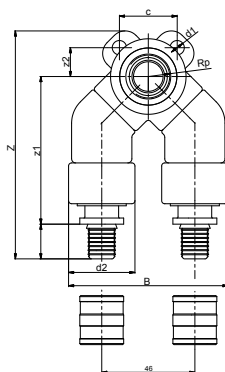
MOUNTING RAIL (TWIN AND SINGLE)

Art.-No.	Dimension	PU	Price € m/pc
79095	twin	2	
79096	single	2	

galvanized, for fixing of back plate
See Z-measures, page 50.

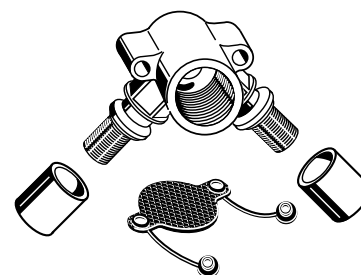
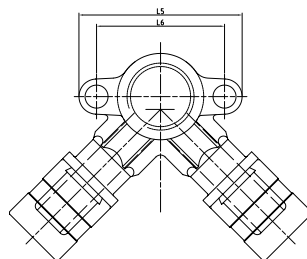
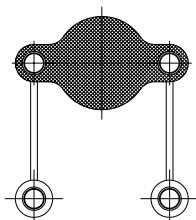
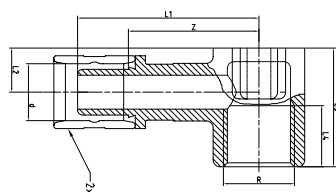


PRINCIPLE OF FLOW-THROUGH BACK PLATE ELBOW



aquatherm grey pipe **FLOW-THROUGH BACK PLATE ELBOW, PARALLEL** including sliding sleeves

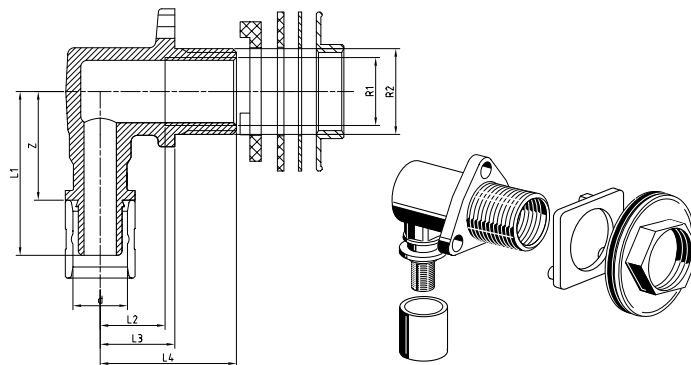
Art.-No.	Dimensions	D	d1	d2	Z	z1	z2	PU	Box unit	Price € m/pc
779050	16 mm x 1/2" f x 16 mm	37,00	7,00	34,50	111,65	72,30	14,14	1		
779052	20 mm x 1/2" f x 20 mm	37,00	7,00	32,50	111,65	72,30	14,14	1		



aquatherm grey pipe **BACK PLATE ELBOW, TWIN** including sliding sleeves for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	d	Z	L1	L2	L3	R	L4	L5	PU	Price € m/pc
779010	16	38,50	53,50	13,00	35,00	G1/2	18,00	51,00	1	

Material: brass
including acoustic panel (PP)



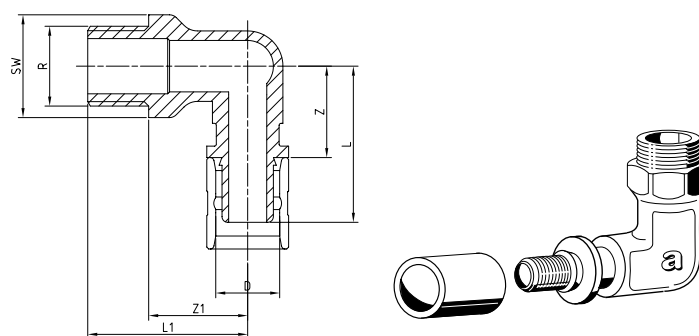
aquatherm grey pipe **CONNECTING ELBOW FOR CONCEALED CISTERN**

including sliding sleeve - for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	d	Z	L1	L2	L3	R	L4	L5	PU	Price € m/pc
779020	16	33,50	50,50	20,00	23,00	G1/2	42,00	51,00	1	

Material: brass

including counternut, gasket and spring washer



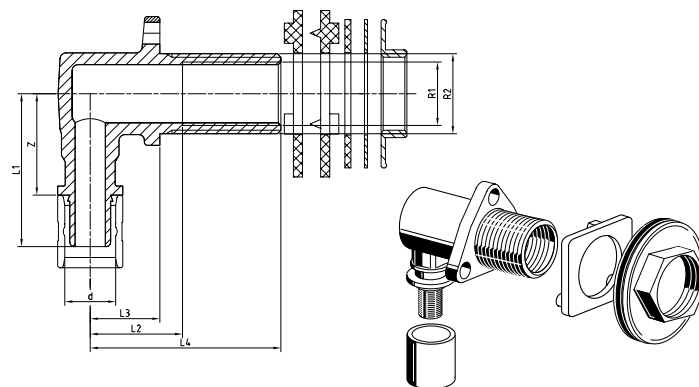
aquatherm grey pipe **TRANSITION ELBOW**

including sliding sleeve - for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	D	R	Z	Z1	L	L1	SW	PU	Price € m/pc
779030	16	G1/2	24,00	26,00	41,00	42,00	24	2	
779032	20	G1/2	24,00	26,00	41,00	42,00	24	2	
779033	20	G3/4	25,50	21,00	42,50	38,00	-	2	
779034	25	G3/4	26,00	21,00	44,00	38,00	-	2	
779036	32	G3/4	30,00	20,00	51,00	38,00	-	2	
779038	32	G1	33,00	29,00	54,00	47,00	-	2	
779039	40	G1 1/4	42,00	35,00	36,00	73,00	42	1	

Material: brass

aquatherm grey pipe



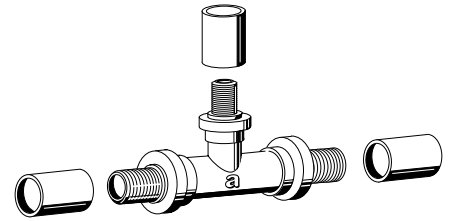
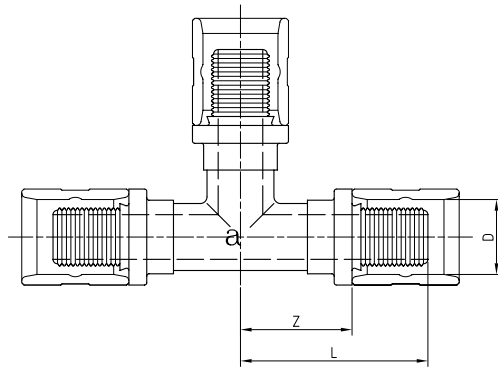
aquatherm grey pipe **CONNECTING ELBOW**

for dry construction, including sliding sleeve - for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	d	R1	Z	L1	R2	L2	L3	L4	PU	Price € m/pc
779040	16	G1/2	33,50	50,50	G3/4	30,50	23,00	63,00	2	

Material: brass

including counternut, gasket and 2 spring washers

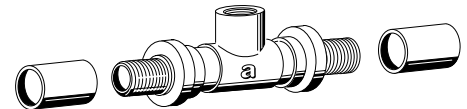
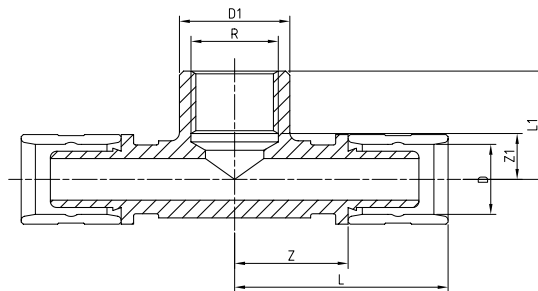


aquatherm grey pipe TEE

including sliding sleeves - for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	D	Z	L	PU	Price € m/pc
779100	16	25,00	42,00	2	
779102	20	24,00	41,00	2	
779104	25	27,00	45,00	2	
779106	32	33,75	54,75	2	
779108	40	42,00	73,00	2	

Material: PPSU/brass

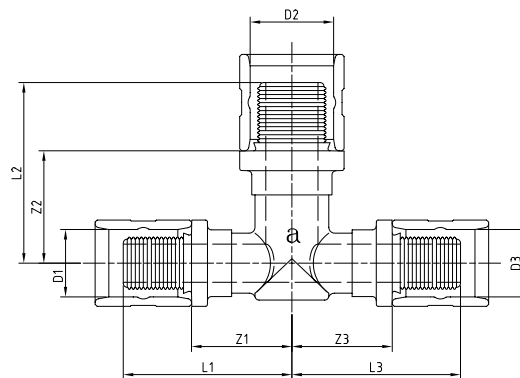
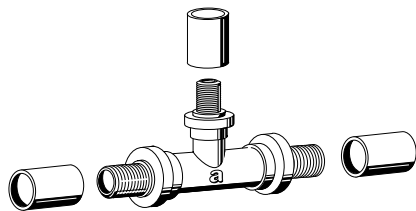


aquatherm grey pipe TEE WITH FEMALE THREAD

including sliding sleeve

Art.-No.	D	R	Z	L	D1	L1	Z1	PU	Price € m/pc
779160	16	G1/2	27,25	44,25	26,50	26,00	11,00	2	
779162	20	G1/2	26,25	43,25	26,25	26,00	11,00	2	
779163	25	G1/2	30,00	54,00	32,00	28,00	9,00	2	
779164	25	G3/4	31,00	48,00	32,00	28,00	11,00	2	
779165	32	G1/2	31,00	58,00	32,00	30,25	10,50	1	
779166	32	G3/4	31,00	52,00	32,00	30,00	13,00	1	
779168	40	G1	42,25	77,25	42,00	38,25	18,25	1	

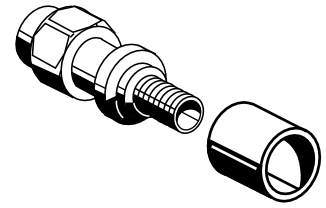
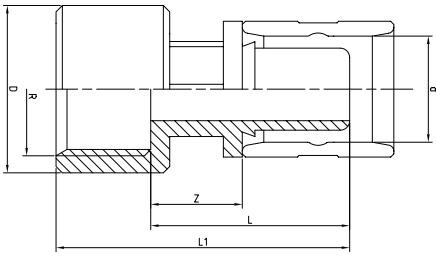
Material: brass



aquatherm grey pipe REDUCING TEE

including sliding sleeves - for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	D1	D2	D3	Z1	L1	Z2	L2	Z3	L3	PU	Price € m/pc
779110	16	20	16	25,00	42,00	28,00	45,00	25,00	42,00	2	
779112	20	16	16	25,00	42,00	25,00	42,00	25,00	42,00	2	
779114	20	16	20	25,00	42,00	25,00	42,00	25,00	42,00	2	
779116	20	20	16	25,00	42,00	25,00	42,00	25,00	42,00	2	
779118	25	20	25	27,00	45,00	28,00	45,00	27,00	45,00	2	
779120	25	20	20	27,00	45,00	28,00	45,00	28,00	45,00	2	
779122	25	20	16	27,00	45,00	28,00	45,00	28,00	45,00	2	
779123	25	16	25	27,00	45,00	28,00	45,00	27,00	45,00	2	
779124	25	16	20	27,00	45,00	28,00	45,00	28,00	45,00	2	
779126	20	25	20	28,00	45,00	27,00	45,00	28,00	45,00	2	
779128	20	32	20	37,75	54,75	33,75	54,75	37,75	54,75	1	
779130	25	32	25	36,75	54,75	33,75	54,75	36,75	54,75	1	
779132	32	16	32	33,75	54,75	37,75	54,75	33,75	54,75	1	
779134	32	20	20	33,75	54,75	37,75	54,75	37,75	54,75	1	
779136	32	20	32	33,75	54,75	37,75	54,75	33,75	54,75	1	
779138	32	25	25	33,75	54,75	36,75	54,75	36,75	54,75	1	
779140	32	25	32	33,75	54,75	36,75	54,75	33,75	54,75	1	
779142	32	32	20	33,75	54,75	33,75	54,75	37,75	54,75	1	
779144	32	32	25	33,75	54,75	33,75	54,75	36,75	54,75	1	
779146	32	16	25	33,75	54,75	37,75	54,75	36,75	54,75	1	
779148	32	25	20	33,75	54,75	36,75	54,75	37,75	54,75	1	
779150	32	20	25	33,75	54,75	37,75	54,75	36,75	54,75	1	
779152	32	16	20	33,75	54,75	37,75	54,75	37,75	54,75	1	
779156	40	20	40	42,00	73,00	38,50	42,00	42,00	73,00	1	
779158	40	25	40	42,00	73,00	39,85	42,00	42,00	73,00	1	
779159	40	32	40	42,00	73,00	38,50	42,00	42,00	73,00	1	

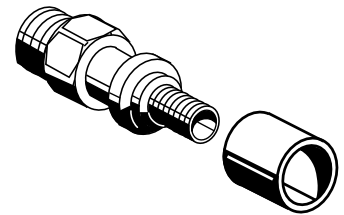
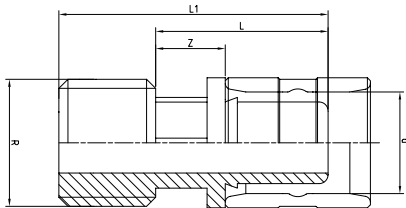


aquatherm grey pipe TRANSITION PIECE

with female thread, including sliding sleeve

Art.-No.	d	R	Z	L	L1	D	PU	Price € m/pc
779182	16	G1/2	14,50	31,50	46,50	26,50	2	
779184	20	G1/2	14,50	31,50	46,50	26,50	2	
779186	20	G3/4	14,50	31,50	48,50	32,50	2	
779188	25	G3/4	16,50	34,50	51,50	32,50	2	
779189	25	G1	16,50	34,50	53,50	40,00	2	
779190	32	G3/4	20,00	41,00	58,00	32,50	2	
779192	32	G1	20,00	41,00	60,00	40,00	2	
779194	40	G1 1/4	27,50	58,00	82,00	52,00	1	

Material: brass

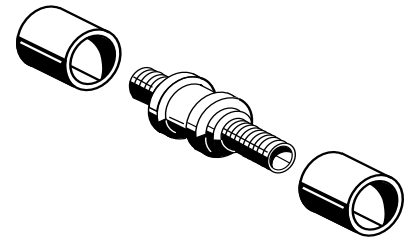
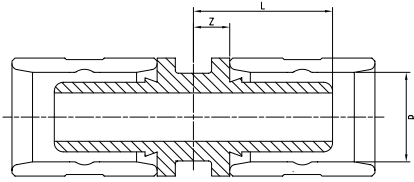


aquatherm grey pipe TRANSITION PIECE

with male thread, including sliding sleeve - for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	d	R	Z	L	L1	PU	Price € m/pc
779199	25	G1	13,50	31,50	51,50	2	
779200	16	G1/2	11,50	28,50	44,50	2	
779202	20	G1/2	11,50	28,50	44,50	2	
779203	20	G3/4	12,50	29,50	45,50	2	
779204	25	G3/4	14,50	31,50	47,50	2	
779205	25	G1/2	11,50	29,50	45,50	2	
779206	32	G3/4	14,50	35,50	51,50	2	
779207	40	G1 1/4	23,50	55,00	74,50	1	
779208	32	G1	17,00	38,00	58,00	2	

Material: brass

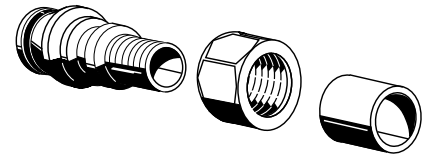
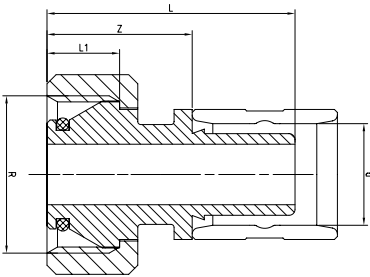


aquatherm grey pipe COUPLING

including sliding sleeves - for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	d	Z	L	PU	Price € m/pc
779210	16	6,00	23,00	2	
779212	20	6,00	23,00	2	
779214	25	7,25	25,25	2	
779216	32	9,00	30,00	2	
779218	40	14,50	45,50	1	

Material: brass

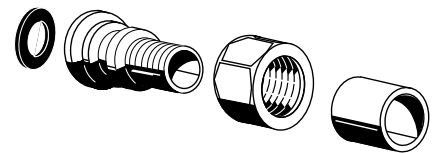
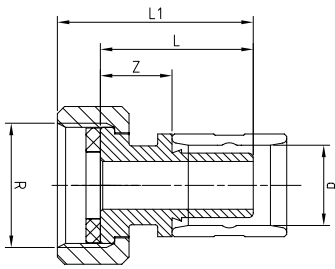


aquatherm grey pipe EUROCONUS ADAPTER

including sliding sleeve - for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	d	R	Z	L	L1	PU	Price € m/pc
779220	16	G3/4	24,00	41,00	12,00	2	
779222	20	G3/4	30,00	47,00	15,00	2	

Material: brass
for customary manifolds/joints

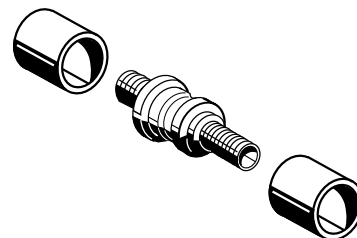
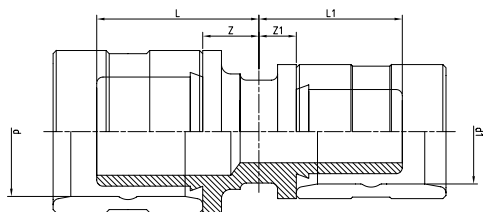


aquatherm grey pipe TRANSITION SCREW JOINT

including sliding sleeve and gasket - for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	d	R	Z	L	L1	PU	Price € m/pc
779230	16	G3/4	15,00	32,00	41,00	2	
779232	20	G1	15,50	32,50	45,00	2	
779240	20	G3/4	22,00	39,00	48,00	2	
779242	25	G1	28,00	46,00	57,50	1	
779244	32	G1 1/4	29,00	50,00	61,70	1	
779246	40	G1 1/2	36,00	67,00	82,00	1	

Material: brass

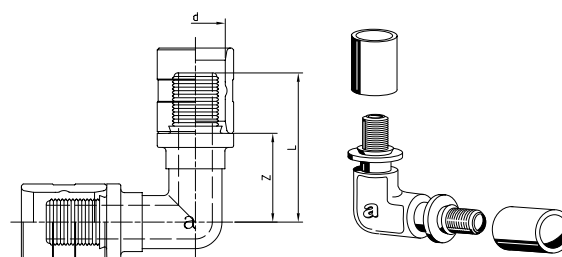


aquatherm grey pipe REDUCING COUPLING

including sliding sleeve - for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	d	d1	Z	L	Z1	L1	PU	Price € m/pc
779250	20	16	9,00	26,00	6,00	23,00	2	
779252	25	20	10,00	28,00	6,00	23,00	2	
779254	25	16	10,00	28,00	6,00	23,00	2	
779256	32	25	11,25	32,25	7,25	25,25	1	
779258	32	20	10,75	31,75	6,25	23,25	1	
779260	32	16	11,00	32,00	6,00	23,00	1	
779268	40	32	16,75	47,75	8,25	29,25	1	
779270	40	25	0,00	0,00	0,00	0,00	1	

Material: brass

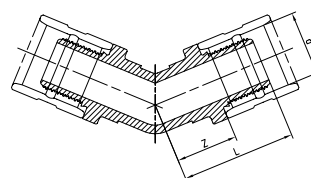
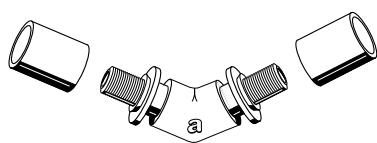


aquatherm grey pipe ELBOW 90°

including sliding sleeve - for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	d	Z	L	PU	Price € m/pc
779300	16	25,00	42,00	2	
779302	20	25,00	42,00	2	
779304	25	27,00	45,00	2	
779306	32	33,75	54,75	1	
779308	40	42,25	73,25	1	

Material: PPSU/brass



aquatherm grey pipe ELBOW 45°

including sliding sleeve - for aquatherm grey pipe Art.-No. 777050 ... 777072

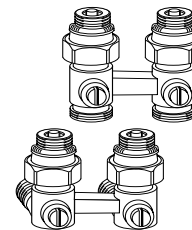
Art.-No.	d	Z	L	PU	Price € m/pc
779322	20	20,00	37,00	2	
779324	25	22,00	40,00	2	
779326	32	26,25	47,25	2	
779328	40	31,00	62,00	1	

Material: PPSU/brass

aquatherm grey pipe RADIATOR VALVE

Art.-No.	Dimension	PU	Price € m/pc
79606	Passage 3/4" euroconus	1	
79608	Corner form 3/4" euroconus	1	

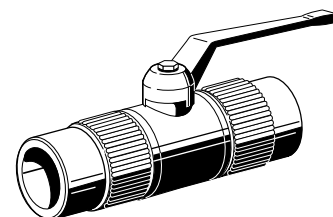
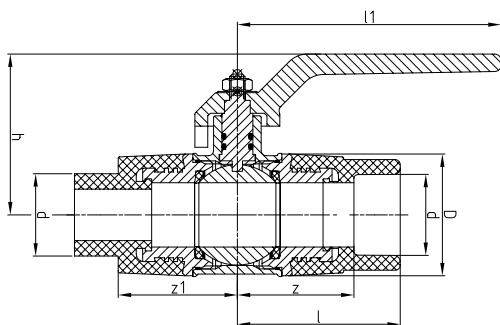
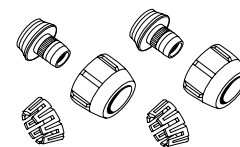
Material: brass



aquatherm grey pipe COMPRESSION FITTING

Art.-No.	Dimension	PU	Price € m/pc
79610	for ø 16 mm	2	

Material: brass

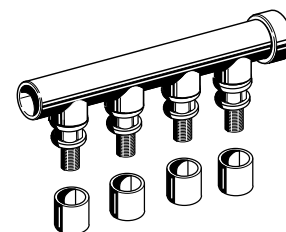
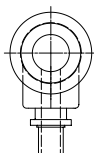
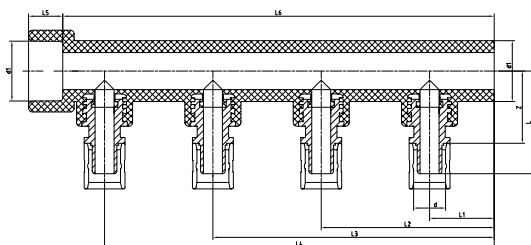


aquatherm grey pipe BALL VALVE FOR MANIFOLD

female/male

Art.-No.	Dimension	PU	Price € m/pc
78000	32 mm f/m	2	

Material: PP-R/brass



aquatherm grey pipe

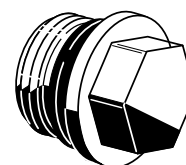
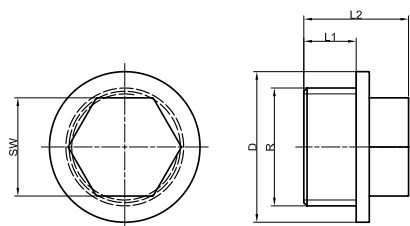
aquatherm grey pipe FOUR-PORT MANIFOLD

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

Art.-No.	d	d1	Z	L	L1	L2	L3	L4	L5	L6	PU	Price € m/pc
778003	16	32	38,00	54,00	34,00	91,00	148,00	205,00	18,00	227,00	2	

Material: PP-R/brass

Colour: green

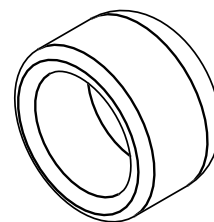
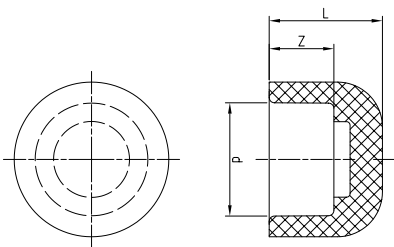


aquatherm grey pipe BLIND PLUG

for manifold branches

Art.-No.	R	D	L1	L2	PU	Price € m/pc
78020	M18x1,5	23,00	8,00	16,00	1	

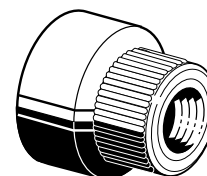
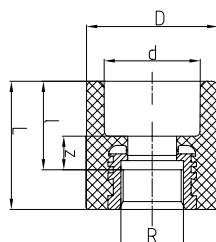
Material: brass



aquatherm grey pipe END CAP

Art.-No.	d	Z	L	PU	Price € m/pc
14112	32	11,00	29,00	5	

Material: PP-R
Colour: green

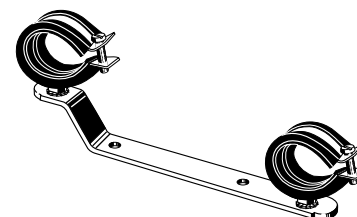


aquatherm grey pipe MANIFOLD END PIECE WITH FEMALE THREAD*

Art.-No.	d	R	z	L	l	D	PU	Price € m/pc
30804	32	1/2"	12,00	43,00	30,00	43,00	1	

Material: PP-R/brass
Colour: green

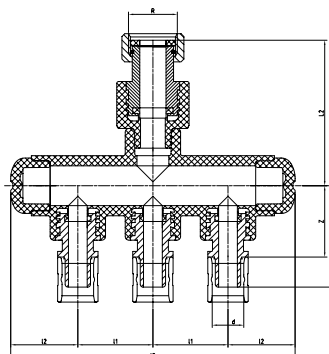
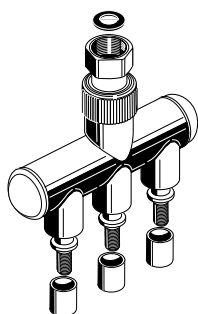
* aquatherm grey pipe- transition piece as manifold endpiece with female thread



SUPPORTING STRAP FOR FOUR-PORT MANIFOLD

with clamps, galvanized, double

Art.-No.	Dimension	PU	Box unit	Price € m/pc
60210	for Ø 32 mm	2		

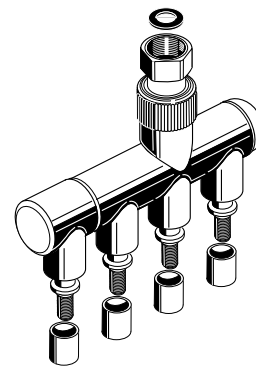
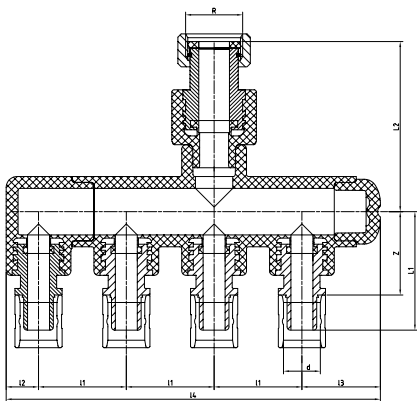


aquatherm grey pipe UNIVERSAL MANIFOLD TRIPLE

with water meter connecting union including sliding sleeves - for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	d	R	Z	L1	L2	l1	l2	PU	Price € m/pc
778050	16	G3/4	38,00	54,00	77,50	40,00	151,50	1	
778051	16	G1	38,00	55,00	73,50	40,00	169,22	1	

Material: PP-R/brass
Colour: green

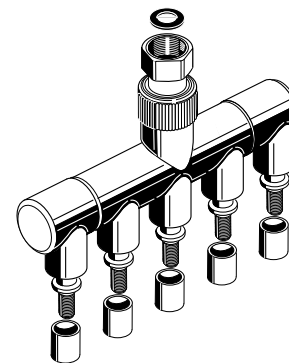
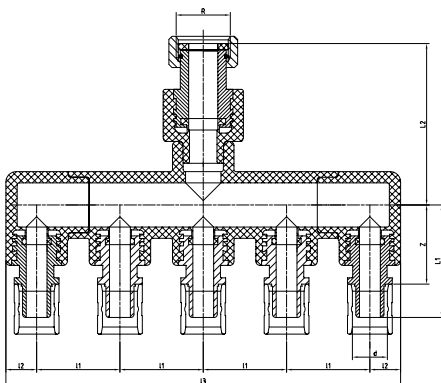


aquatherm grey pipe UNIVERSAL MANIFOLD FOURFOLD

with water meter connecting union including sliding sleeves - for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	d	R	Z	L1	L2	l1	l2	PU	Price € m/pc
778052	16	G3/4	38,00	54,00	77,50	40,00	170,50	1	
778053	16	G1	38,00	55,00	73,50	40,00	180,50	1	

Material: PP-R/brass
Colour: green

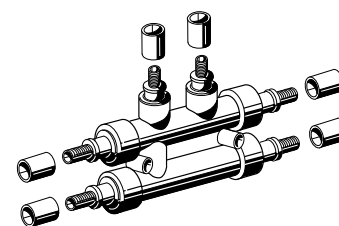
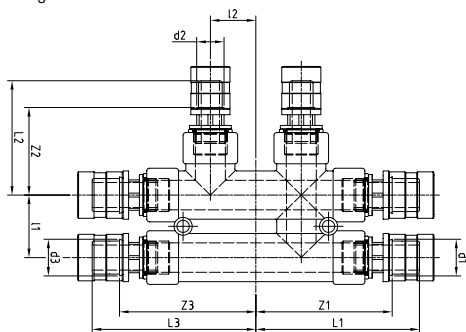


aquatherm grey pipe UNIVERSAL MANIFOLD FIVEFOLD

with water meter connecting union including sliding sleeves - for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	d	R	Z	L1	L2	l1	l2	PU	Price € m/pc
778054	16	G3/4	38,00	54,00	77,50	40,00	189,50	1	

Material: PP-R/brass
Colour: green



aquatherm grey pipe DISTRIBUTION BLOCK

with sliding sleeve connection including sliding sleeves - for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	d1	d2	d3	Z1	L1	Z2	L2	Z3	L3	l1	l2	PU	Price € m/pc
778200	20	16	20	75,00	90,00	49,00	64,00	75,00	90,00	35,00	50,00	1	
778201	20	20	16	73,00	90,00	48,00	65,00	73,00	89,00	35,00	50,00	1	
778202	20	16	16	73,00	90,00	48,00	64,00	73,00	89,00	35,00	50,00	1	
778204	16	20	16	73,00	89,00	48,00	65,00	73,00	89,00	35,00	50,00	1	
778206	16	16	16	73,00	89,00	48,00	64,00	73,00	89,00	35,00	50,00	1	
778208	20	20	20	73,00	90,00	48,00	65,00	73,00	90,00	35,00	50,00	1	

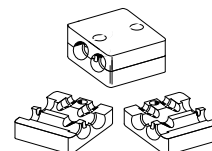
Material: PP-R/brass
Colour: green

for cross-free installations, flow rate: 10 kW, Temperature: 70/50° C

INSULATION FOR THE aquatherm grey pipe - DISTRIBUTION BLOCK

Art.-No.	Dimension	PU	Price € m/pc
78220	Höhe = 50 mm	1	

Material: PPS/PS

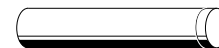
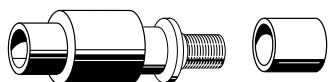


aquatherm grey pipe END PIECE

for manifold and distribution blocks

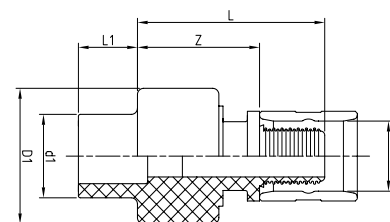
Art.-No.	Dimension	PU	Price € m/pc
78228	Length 100mm	2	

Material: PB



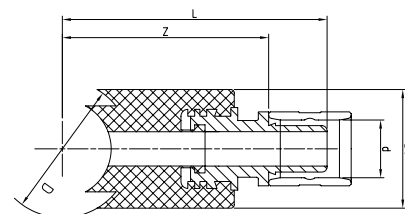
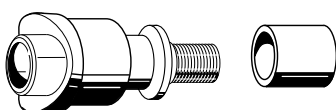
aquatherm grey pipe ADAPTER

to aquatherm green pipe-fittings including sliding sleeve - for aquatherm grey pipe Art.-No. 777050 ... 777072



Art.-No.	Dimension	d1	d	D1	Z	L	L1	PU	Price € m/pc
778320*	aquatherm green pipe 16 mm x aquatherm grey pipe 16 mm	16	16	32,50	31,50	47,50	13,00	2	
778300	aquatherm green pipe 20 mm x aquatherm grey pipe 16 mm	20	16	32,50	30,00	46,00	14,50	2	
778302	aquatherm green pipe 20 mm x aquatherm grey pipe 20 mm	20	20	34,50	30,00	47,00	11,00	2	
778304	aquatherm green pipe 25 mm x aquatherm grey pipe 20 mm	25	20	34,50	30,00	47,00	12,00	2	
778306	aquatherm green pipe 25 mm x aquatherm grey pipe 25 mm	25	25	43,50	35,00	52,00	14,60	2	
778308	aquatherm green pipe 32 mm x aquatherm grey pipe 25 mm	32	25	43,50	36,00	54,00	16,00	1	
778310	aquatherm green pipe 32 mm x aquatherm grey pipe 32 mm	32	32	57,50	44,00	65,00	18,00	1	
778312	aquatherm green pipe 40 mm x aquatherm grey pipe 32 mm	40	32	57,50	44,00	65,00	20,50	1	

*to aquatherm green pipe / Material: PP-R/brass



aquatherm grey pipe WELD-IN SADDLE ADAPTER

including sliding sleeve - for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	Dimension	D	d	Z	L	D1	PU	Price € m/pc
778402	aquatherm green pipe 40 mm x aquatherm grey pipe 16 mm	40	16	60,00	77,00	34,50	2	
778404	aquatherm green pipe 40 mm x aquatherm grey pipe 20 mm	40	20	58,00	75,00	38,50	2	
778406	aquatherm green pipe 50 mm x aquatherm grey pipe 16 mm	50	16	65,00	82,00	32,50	2	
778408	aquatherm green pipe 50 mm x aquatherm grey pipe 20 mm	50	20	64,00	81,00	38,50	2	
778410	aquatherm green pipe 63 mm x aquatherm grey pipe 16 mm	63	16	71,50	88,50	34,50	2	
778412	aquatherm green pipe 63 mm x aquatherm grey pipe 20 mm	63	20	70,50	87,50	38,50	2	

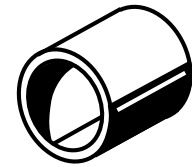
one side for saddle welding - one side for sliding sleeve connection / Material: PP-R/brass

aquatherm grey pipe SPARE SLIDING SLEEVE

for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	Dimension	PU	Price € m/pc
779990	16 mm	10	
779992	20 mm	10	
779994	26 mm	10	
779996	32 mm	10	
779998	40 mm	10	

Material: brass



aquatherm grey pipe CONNECTING BEND*...

for aquatherm grey pipe Art.-No. 777050 ... 777072

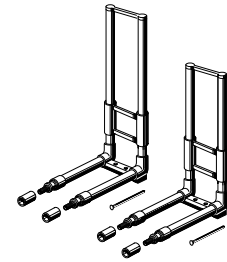
Art.-No.	Dimension	PU	Price € m/pc
779500	aquatherm grey pipe-pipe connection and radiator connection 16 x 2,0 mm height= 340 mm length = 200 mm	1	
779510	aquatherm grey pipe-pipe connection and radiator connection 16 x 2,0 mm height= 200 mm length = 200 mm	1	

with sliding sleeve connection including sliding sleeves and one fastening plug

Pipe spacing: 50 mm

Material: PP-R/brass

Colour: white

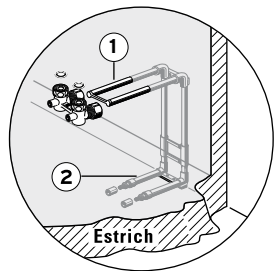


... FOR RADIATOR CONNECTIONS COMING OUT OF THE WALL

* by welding at site, in conjunction with aquatherm grey pipe-connecting bend (Art.-No. 85120)

1. Art.-No.: 85120

2. Art.-No.: 79500



aquatherm grey pipe CONNECTING BEND*...

for aquatherm grey pipe Art.-No. 777050 ... 777072

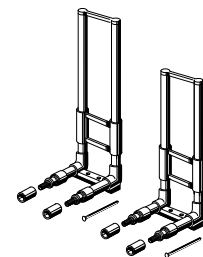
Art.-No.	Dimension	PU	Price € m/pc
779502	aquatherm grey pipe-pipe connection and radiator connection 16 x 2,0 mm height= 340 mm length = 45 mm	1	
779512	aquatherm grey pipe-pipe connection and radiator connection 16 x 2,0 mm height= 200 mm length = 45 mm	1	

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

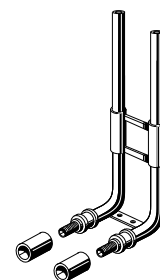
for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	Dimension	PU	Price € m/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

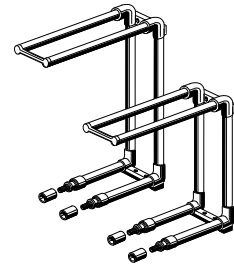
Material: copper nickel-plated



aquatherm grey pipe RADIATOR CONNECTING SET

Art.-No.	Dimension	PU	Price € m/pc
779540	aquatherm grey pipe-pipe connection and radiator connection 16 x 2,0 mm height= 260 mm length = 200 mm	1	
779542	aquatherm grey pipe-pipe connection and radiator connection 16 x 2,0 mm height= 180 mm length = 200 mm	1	

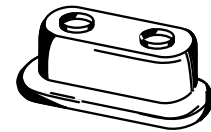
with sliding sleeve connection including sliding sleeves
Material: PP-R/brass, Pipe spacing: 50 mm, Colour: white



aquatherm grey pipe DOUBLE ROSETTE, RETRACTABLE

Art.-No.	Dimension	PU	Price € m/pc
779550	for Ø up to 17,5 mm	5	

to cover connection pipes coming out of the floor covering
Material: PA, Pipe spacing: 50 mm, Colour: white



ATTENTION

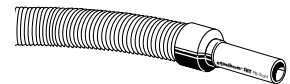
When processing the aquatherm grey pipe potable water connection pipe Art.-No. 77000-77040, the sliding sleeves of Art.-No. 79990 - 79994 have to be used necessarily.

aquatherm grey pipe POTABLE WATER AND RADIATOR CONNECTION PIPE

in corrugated pipe, with oxygen barrier

Art.-No.	Dimension	PU	Price € m/pc
77000	16x2,0mm	100	
77002	20x2,0mm	50	

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



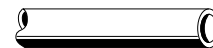
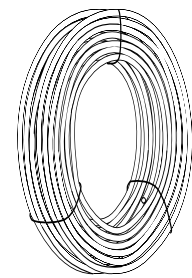
aquatherm grey pipe POTABLE WATER AND RADIATOR CONNECTION PIPE
with oxygen barrier

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

... in Stangen á 4 m

77040	16x2,0mm	100	
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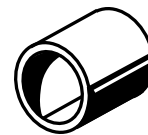
Material: PB Application field: Potable water/heating
 Colour: grey Operating temperature: 70°C
 Form supplied: ring/straight lengths DVGW-Registr.-No.: DW-8501 AU2075 (incl. fittings)
 according to: DIN 4726/4727/16968
 with oxygen barrier by EVOH-coating



aquatherm grey pipe SPARE SLIDING SLEEVE
for aquatherm grey pipe Art.-No. 77000 ... 77040

Art.-No.	Dimension	PU	Price € m/pc
79990	16 mm	10	
79992	20 mm	10	
79994	25 mm	10	

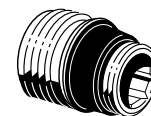
Material: brass



aquatherm grey pipe RED.-NIPPLE

Art.-No.	Dimension	PU	Price € m/pc
85115	1/2" AG x 3/4" AG	2	

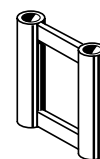
for the connection of radiator valves with compact valve radiators with connection 1/2" f



aquatherm grey pipe PROTECTION SLEEVE

Art.-No..	Dimension	PU	Price € m/pc
85125	for Ø 16+17 mm	10	

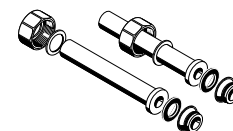
for protection of connection pipes of vertical radiator connection (from the floor) made of PP-R
 Colour: green
 Pipe spacing: 50 mm



aquatherm grey pipe RADIATOR CONNECTION SET

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

consisting of:
 2 connection pieces (L: 120 mm) made of PP-R, Colour: white
 2 metal tension rings
 2 nuts, chromium plated
 2 adaptors, chromium plated
 2 gaskets

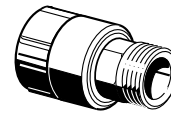


aquatherm grey pipe **RADIATOR CONNECTION PIECE**

with hex shaped threaded connection

Art.-No.	Dimension	PU	Price € m/pc
83306	16 x G1/2" male	10	

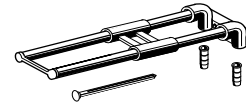
Material: PP-R
brass thread



aquatherm grey pipe **CONNECTING BEND**

Art.-No.	Dimension	PU	Price € m/pc
85119	16x2,0mm	1	

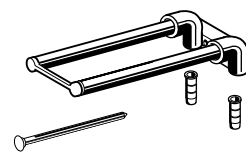
Length: 350 mm
Including 2 sliding sleeves (Ø 11,7 mm) and 1 fastening plug
Material: PP-R
Colour: white
Connection with two 16 mm welding tools (Art.-No. 50206)
Suitable distances for fixing at the welding device (Art.-No. 50337) are available



aquatherm grey pipe **CONNECTING BEND**

Art.-No.	Dimension	PU	Price € m/pc
85120	16x2,0mm	1	

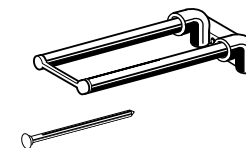
Length: 200 mm
Including 2 sliding sleeves (Ø 11,7 mm) and 1 fastening plug
Material: PP-R
Colour: white
Connection with two 16 mm welding tools (Art.-No. 50206)
Suitable distances for fixing at the welding device (Art.-No. 50337) are available



aquatherm grey pipe **CONNECTING BEND**

Art.-No.	Dimension	PU	Price € m/pc
85121	16x2,0mm	1	

Length: 200 mm
Including 1 fastening plug
Material: PP-R
Colour: white
Connection with two 16 mm welding tools (Art.-No. 50206)
Suitable distances for fixing at the welding device (Art.-No. 50337) are available

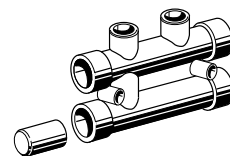


aquatherm grey pipe **DISTRIBUTION BLOCK**

for skirting or floor installation

Art.-No.	Dimension	PU	Price € m/pc
85123	20/16mm	1	

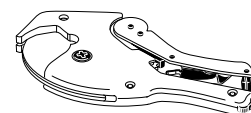
Passage 20 mm, 2 branches, including 1 plug 20 mm
Material: PP-R
Colour: green
Double welding with welding-device (Art.-No. 50337) in connection with two 16 mm and two 20 mm tools is possible.



aquatherm grey pipe **PIPE CUTTER**

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

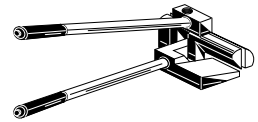
for aquatherm grey pipe- and aquatherm surface heating pipes



aquatherm grey pipe BENDING TOOL

for mounting rail Art.-No. 79090

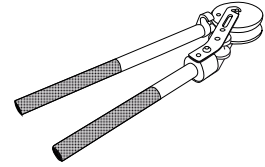
Art.-No.	Dimension	PU	Price € m/pc
50840		1	



aquatherm grey pipe MANUAL PIPE BENDING TOOL

for multi-layer metal composite pipes

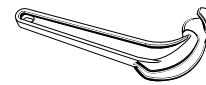
Art.-No.	Dimension	PU	Price € m/St
50970	for ø 16 mm	1	
50972	for ø 20 mm	1	



aquatherm grey pipe BENDING TEMPLATE

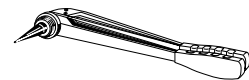
for multi-layer metal composite pipes

Art.-No.	Dimension	PU	Price € m/St
50874	for ø 25 mm	1	



aquatherm grey pipe EXPANDING TOOL

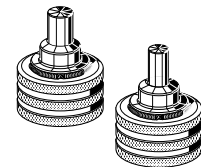
Art.-No.	Dimension	PU	Price € m/St
50800	for ø 10-40mm	1	



FALSE JAWS FOR THE AQUATHERM GREY PIPE-EXPANDING TOOL

for aquatherm grey pipe PB-pipes

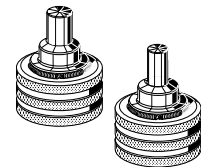
Art.-No.	Dimension	PU	Price € m/St
50814	10 mm	1	
50815	14 mm	1	
50817	16 & 20mm	1	
50820	25 mm	1	
50823	17 mm	1	



FALSE JAWS FOR THE AQUATHERM GREY PIPE-EXPANDING TOOL

for aquatherm grey pipe multi-layer metal composite pipes

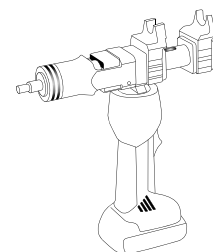
Art.-No.	Dimension	PU	Price € m/St
50857	16 & 20mm	1	
50860	25 mm	1	
50862	32 mm	1	
50864	40 mm	1	



aquatherm grey pipe HYDRAULIC ACCUMULATOR MOUNTING TOOL

for aquatherm grey pipe pipes

Art.-No.	Dimension	PU	Price € m/St
50809	for ø 16-40 mm	1	

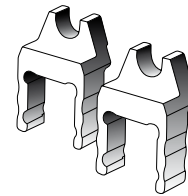


with recharger, expanding adapter and plastic suitcase

aqualtherm grey pipe TOOL INSERTS

for Hydraulic accumulator aqualtherm grey pipe mounting tool Art.-No. 50809

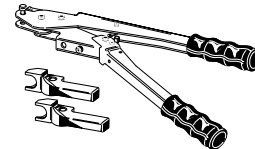
Art.-No.	Dimension	PU	Price € m/pc
50875	16 mm	1	
50876	20 mm	1	
50878	25 mm	1	
50880	32 mm	1	
50882	40 mm	1	



aqualtherm grey pipe MOUNTING TOOL

Art.-No.	Dimension	PU	Price € m/pc
50802	for ø 10-40mm	1	

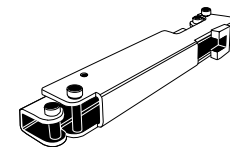
with tools for ø 16 and 20 mm, for the mechanical sliding sleeve connection



aqualtherm grey pipe ANGLE ATTACHMENT

for aqualtherm grey pipe mounting tool Art.-No. 50802

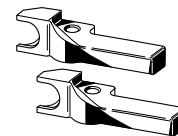
Art.-No.	Dimension	PU	Price € m/pc
50803		1	



aqualtherm grey pipe TOOL INSERT

for aqualtherm grey pipe mounting tool Art.-No. 50802

Art.-No.	Dimension	PU	Price € m/pc
50824	10 mm	1	
50825	14 mm	1	
50826	16/17mm	1	
50828	20mm	1	
50830	25mm	1	
50832	32 mm	1	
50834	40 mm	1	



aqualtherm grey pipe TOOL CASE

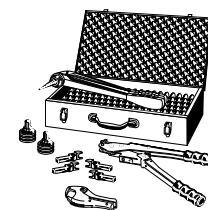
Art.-No.	Dimension	PU	Price € m/pc
50804	for ø 16-20mm	1	

including:

- pipe cutter (Art.-No. 50103)
- expanding tool with false jaws
- mounting tool with tools for 16 and 20 mm (Art.-No. 50802)

Not suitable for metal composite pipe (Art.-No. 777070-777052)!

Note: Expanding and mounting tool for 25 and 32 mm (Art.-No. 50820 + 50830, 50832) as well as for aqualtherm grey pipe multi-layer metal composite pipe (Art.-No. 50857, 50860, 50862) have to be ordered separately.



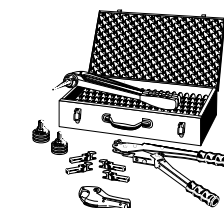
aqualtherm grey pipe TOOL CASE

multi-layer metal composite pipe

Art.-No.	Dimension	PU	Price € m/pc
50805	for ø 16-20 mm	1	

including:

- pipe cutter (Art.-No. 50103)
- expanding tool (Art.-No. 50800) with false jaws 16-20 mm (Art.-No. 50857)
- mounting tool (Art.-No. 50802) with tools (Art.-No. 50826 and 50828)



Find an overview of the aqualtherm grey pipe tools on page 104



aquatherm black system

HEATING AND COOLING SYSTEM FOR CEILING, WALL AND OTHER APPLICATIONS

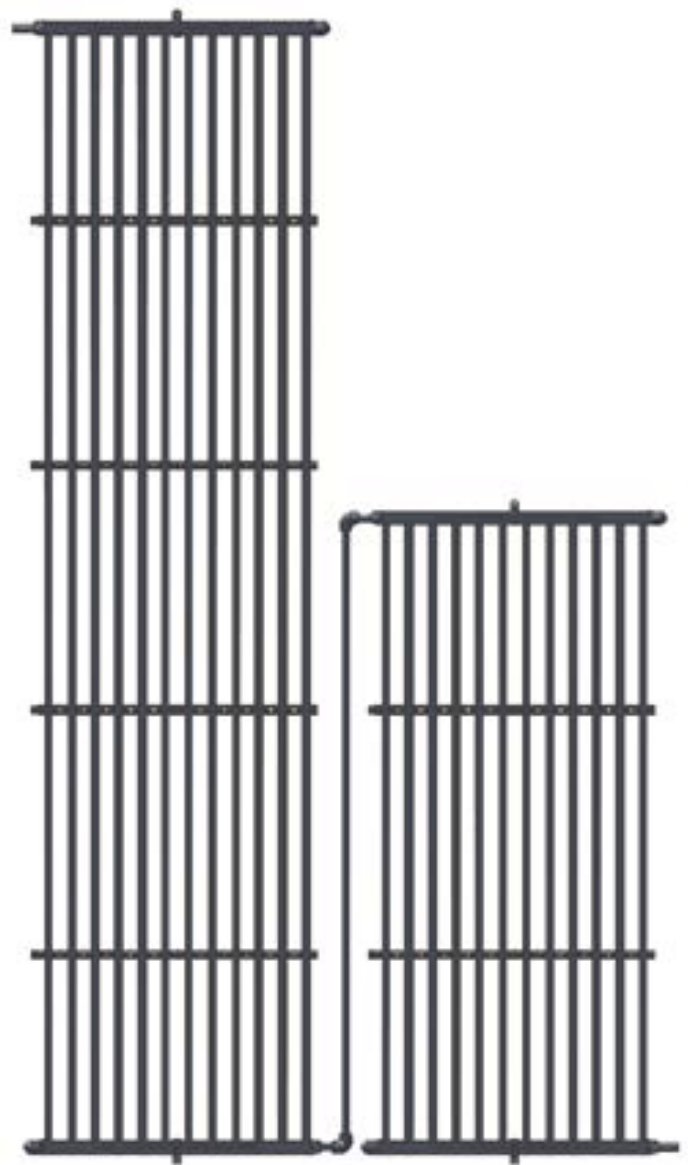
An individual's physical well-being directly depends on the basic environmental conditions of the surroundings. Working efficiency varies according to temperature with every cooling degree.

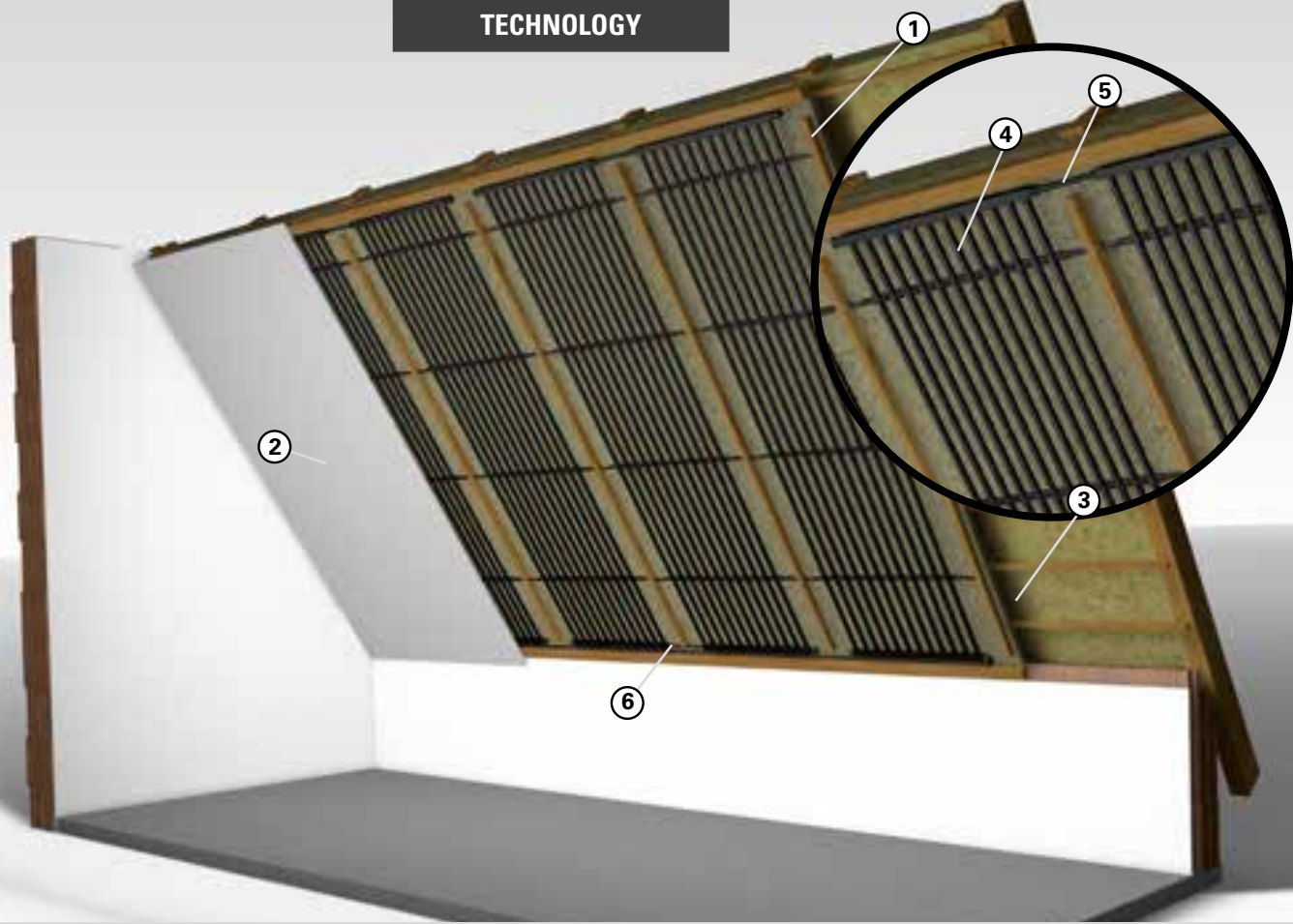
In offices, commercial premises, meeting rooms, etc., aquatherm pipe grids have become increasingly more popular for heating and cooling of ceilings and walls.

The ingenious aquatherm aquatherm black delivers pleasant room conditions without noise and forced air movement. With this technology cooling or heating is simply controllable. Automatic designed change-over of heated or chilled water completes this system; allowing for individual room control within a building management system.

- ▶ For wet and dry construction
- ▶ 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
- ▶ Push-fit connection for ceiling elements
- ▶ Oxygen barrier
- ▶ Minimal construction thickness
- ▶ Greater architectural design freedom
- ▶ Energy saving

aquatherm black system is exclusively made from fusiolen® PP-R. The exceptional good welding properties and fusion, result in an homogeneous unit, offering a maximum in security and life span. aquatherm black is connected by fusion welding. The pipe grids can be welded directly in parallel as well as with series connection.





- ① Joist
- ② Gypsum plaster board
- ③ Insulation
- ④ aquatherm black system grid (connection type 50)
- ⑤ Corrugated connecting pipe (81039 or 81006)
- ⑥ PP grid connecting pipe (81026)

Connection systems

PLASTERBOARD CEILING WITH WOODEN SUBSTRUCTURE IN ROOFS, WITH SERIES CONNECTION

Recommended type of grid: connection type 50

Connection type 50 = side by side welded connections

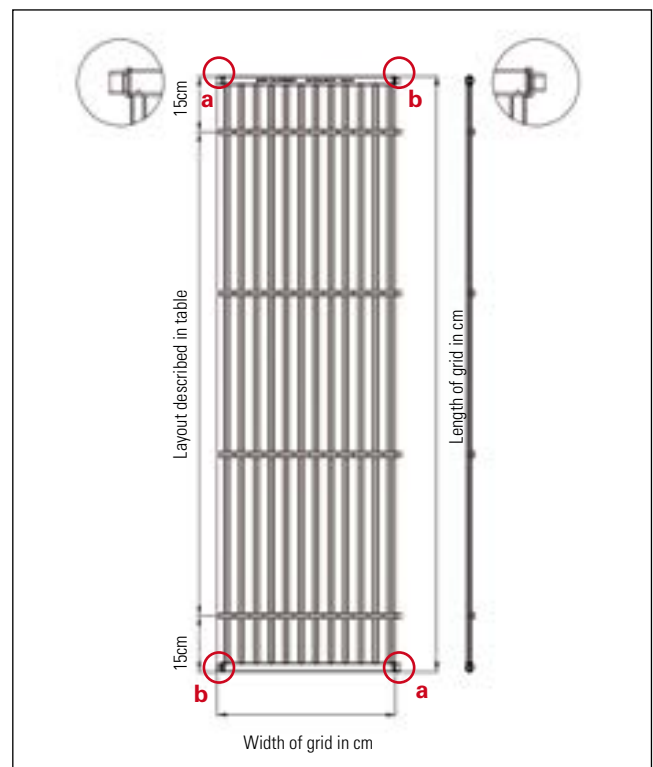
Description

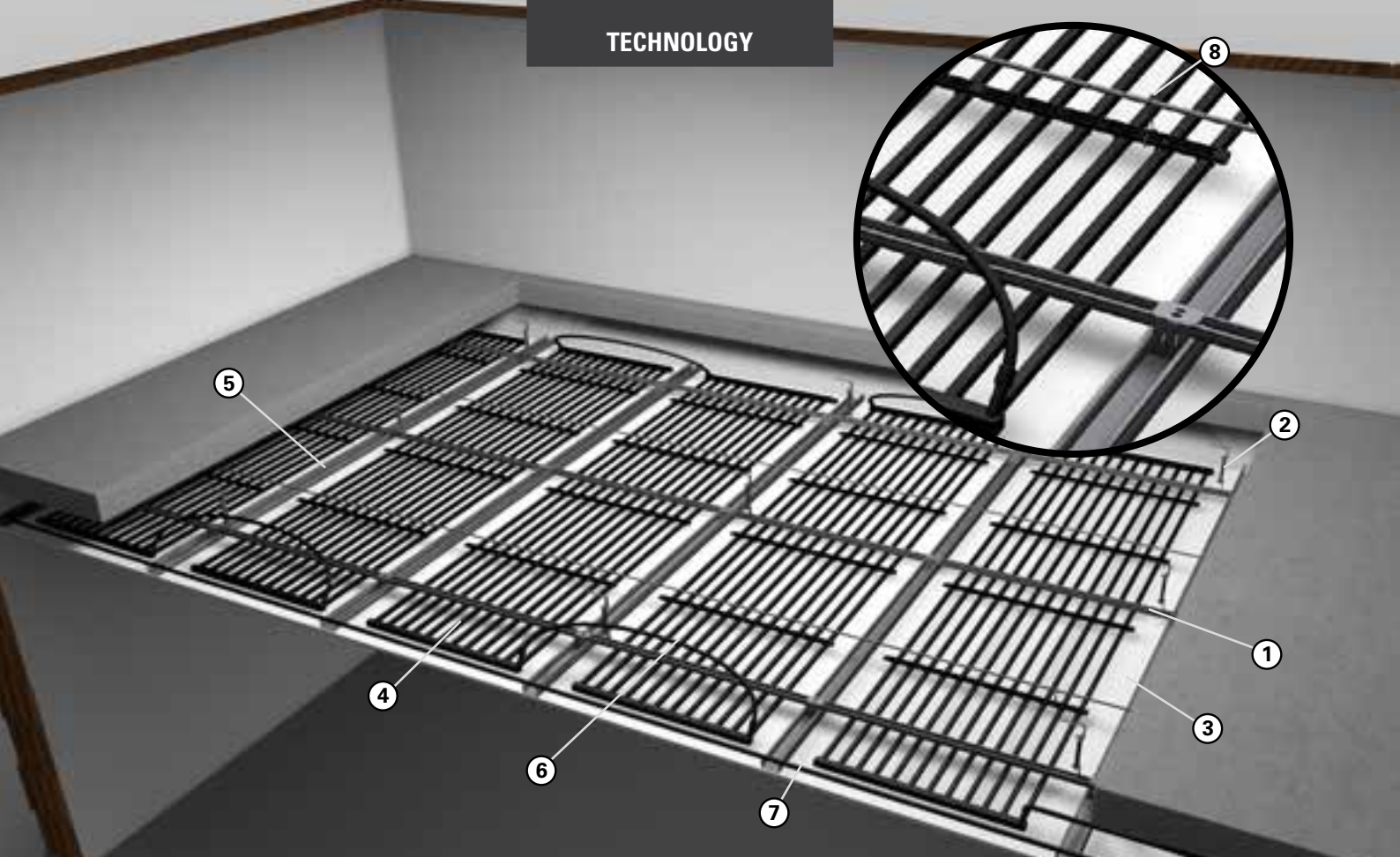
The aquatherm black system grid with the connection type 50 is a grid with welded connections between the grids. The welded connections are placed on four sides as side by side outlet with welding socket (female end) 16 mm (a) top left and lower right respectively aligned for welding to welding nozzle (male end) 16 mm (b) top right and lower left.

Fixing rails at the grid (quantity described in table) are for mounting and grid stability. Attached wall brackets (two pieces up to a grid width of 68 cm, four pieces from 68 cm) can be installed at the manifold, if required.

Application

The aquatherm black system-grid with the connection type 50 is mainly applied for the installation in plaster walls and ceilings. But it also can be used in dry wall constructed ceilings in vaulted rooms or in dry constructed walls. Detailed information about the installation and connection are further described in each system description.





- ① Support profile
- ② Hanger
- ③ Gypsum plasterboard
- ④ aquatherm black system grid (connection type 59)
- ⑤ Fixing rail for dry construction (81297)
- ⑥ Corrugated connecting pipe (81039)
- ⑦ PP grid connecting pipe (81026)
- ⑧ Metal rod (81300) & HOOK (81299)

Connection systems

PLASTERBOARD CEILING WITH METAL SUBSTRUCTURE

Recommended type of grid: connection type 59

Connection type 59 = welded connection 45°

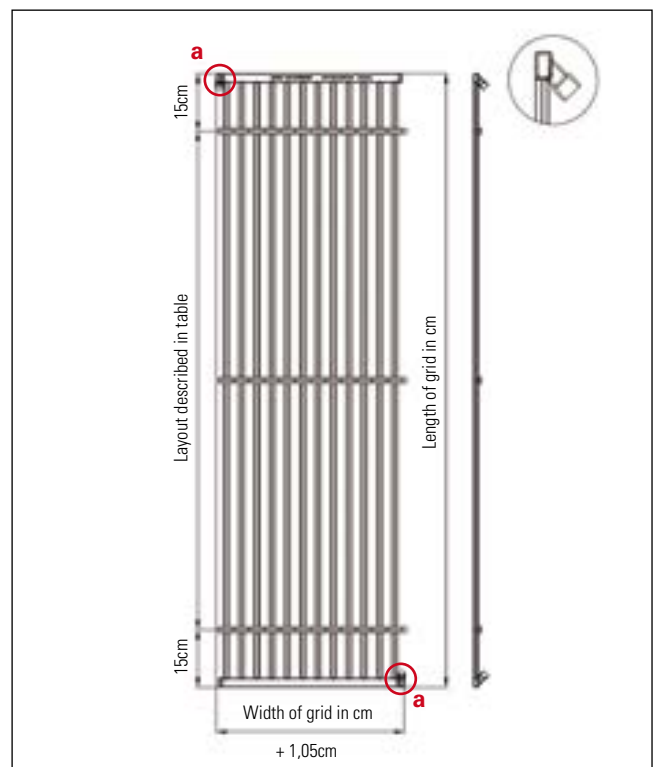
top left, lower right

Description

The aquatherm black system grid with the connection type 59 is a grid with welded connections. The welded connections are placed two-sided and are at a 45° angle with welding socket (female) 16 mm (a) top left and lower right. Fixing rails at the grid (quantity described in table) are for mounting and grid stability.

Application

The aquatherm black system-grid with the connection type 59 is mainly applied for the installation in dry wall constructed ceilings with metal substructure. Detailed information about the installation and connection are further described in each system description.





- ① CW profile
- ② Gypsum concrete board
- ③ Insulation
- ④ aquatherm black system-grids (connection type 64) with flow break (=*FB)
- ⑤ Fixing rail (81506)
- ⑥ Fixing rail for dry construction (81297)
- ⑦ One-sided connection (81006)
- ⑧ PP-grid connecting pipe (81026)

Connection systems

DRY CONSTRUCTED WALL WITH GYPSUM PLASTER BOARD, ONE-SIDED CONNECTION

Recommended type of grid: connection type 64

Connection type 64 = welded connection left, right

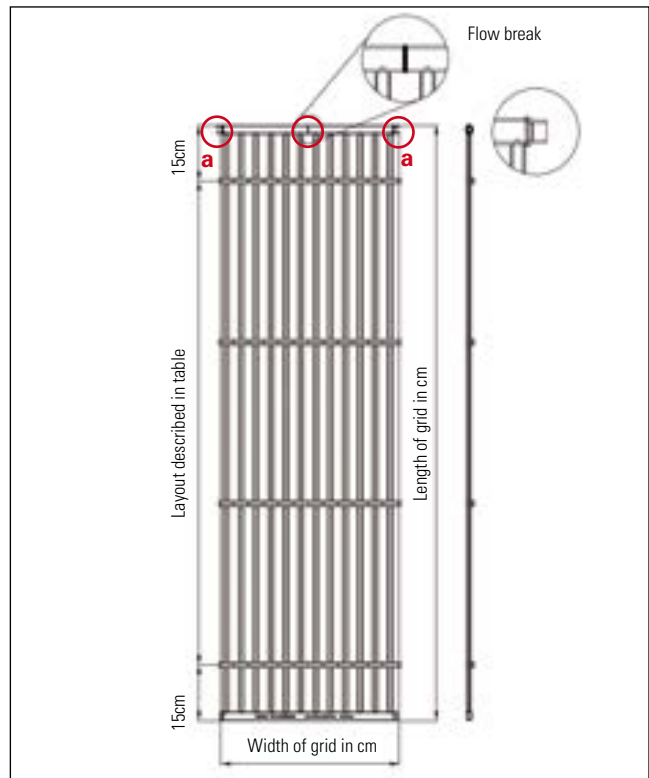
Description

The aquatherm black system grid with the connection type 64 is a grid with welded connections between the grids. The welded connections are placed side by side with welding socket 16 mm (a) left and welding nozzle (male end) 16 mm (b) right. In the center the manifold/collector is a flow break made by the welding-in of a blind cap in the manifold/collector. This results in the one-sided connection of the grids to each other.

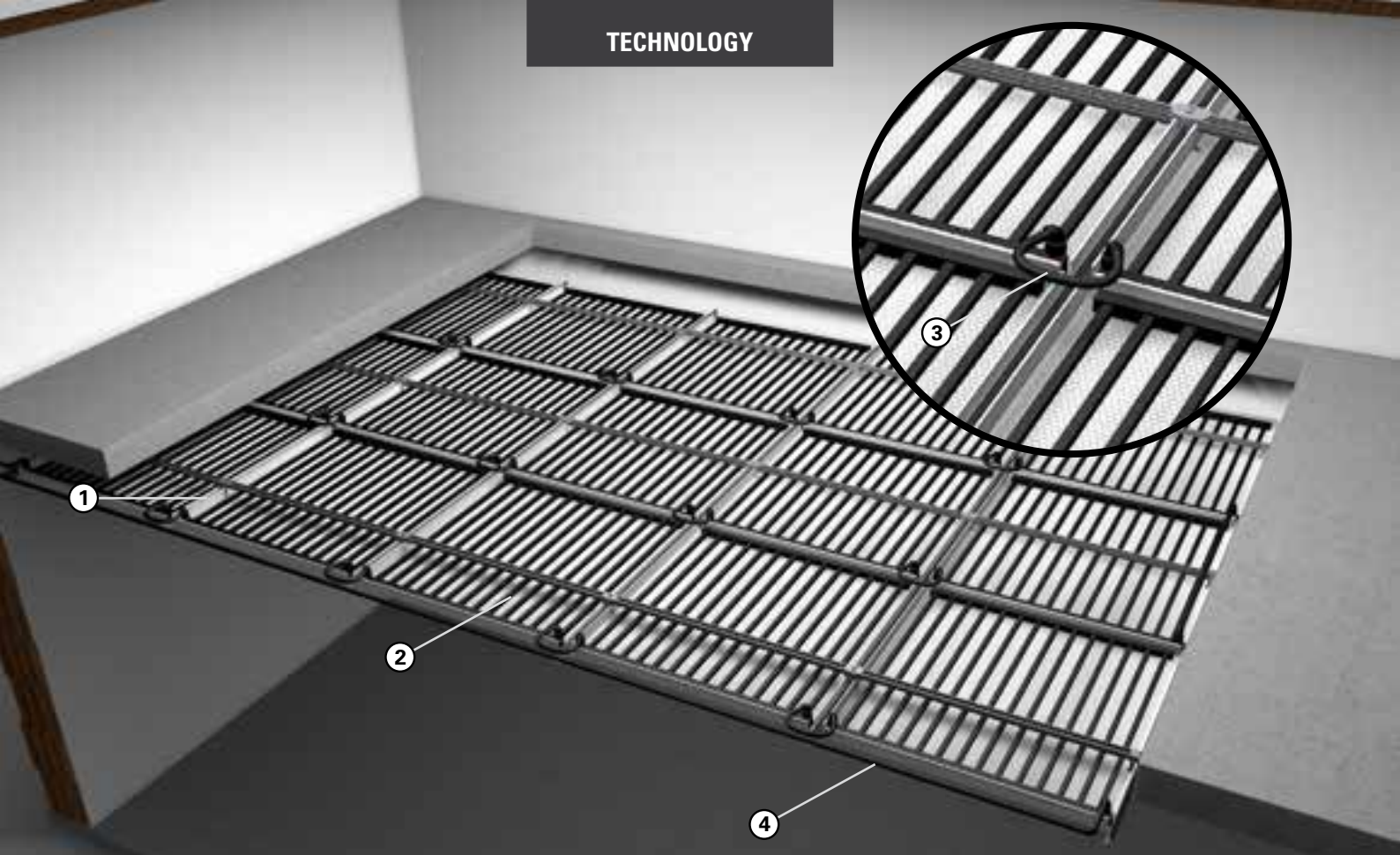
Fixing rails at the grid (quantity described in table) are for mounting and grid stability. Attached wall brackets (two pieces up to a grid width of 68 cm, four pieces from 68 cm) can be installed at the manifold, if required.

Application

The aquatherm black system-grid with the connection type 64 is mainly applied for the installation in plaster walls and ceilings. But it also can be used in dry wall constructed ceilings in vaulted rooms or in dry constructed walls. Detailed information about the installation and connection are further described in each system description.



aquatherm black system



- ① Clip-in profile
- ② Metal panel with aquatherm black system grid (connection type 62)
- ③ Corrugated connecting pipe with 90° plug adapter (81032)
- ④ PP-grid connecting pipe (81026)

Connection systems

METAL CEILING PANEL AS CLIP-IN SYSTEM

Recommended type of grid: connection type 62

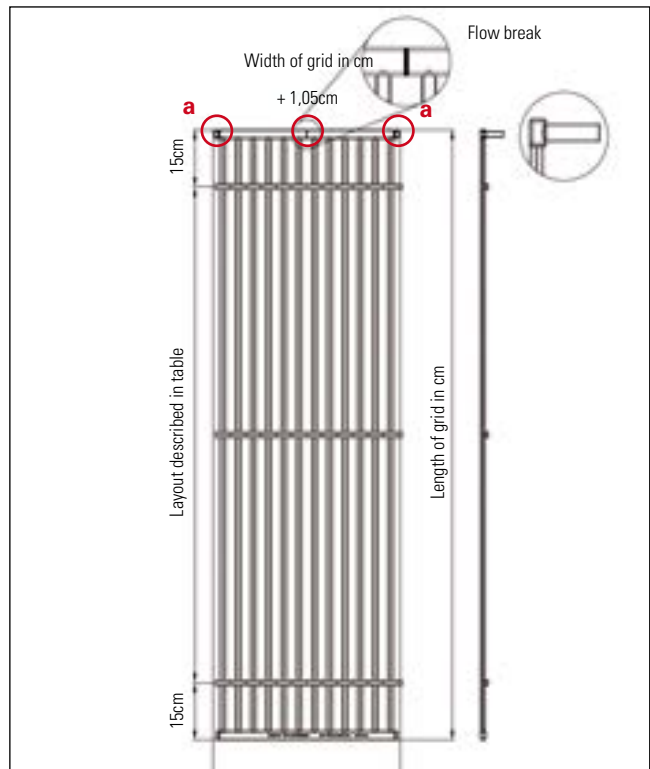
Connection type 62 = plug connection 90° left, right

Description

The aquatherm black system grid with the connection type 62 is a grid with plug connections. The plug connections are placed side by side and are at a 90° angle with plug socket 16 mm (a) right and left. In the center the manifold/collector is a flow break made by the welding-in of a blind cap in the manifold/collector. This results in the one-sided connection of the grids to each other. Fixing rails at the grid (quantity described in table) are for mounting and grid stability.

Application

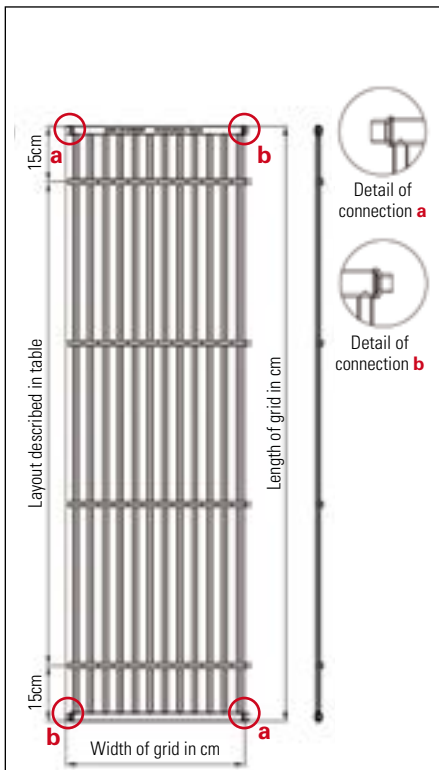
The aquatherm black system-grid with the connection type 62 is mainly applied for the installation in metal ceiling panels and freely floating ceiling, but it can also be used in dry wall ceilings with metal substructure. Detailed information about the installation and connection are further described in each system description.



aquatherm black system

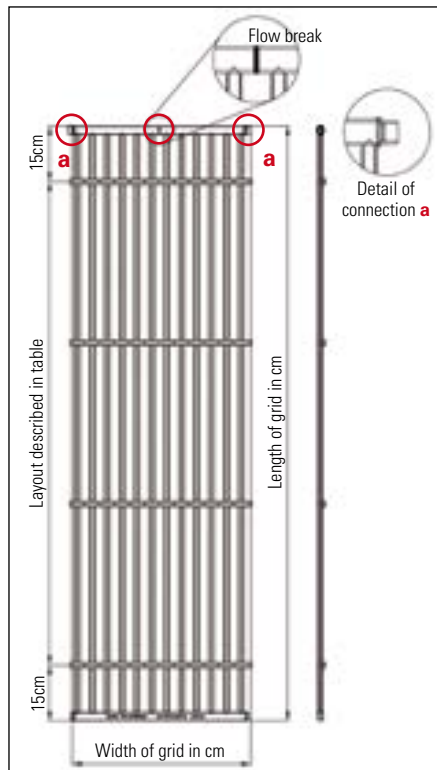
TYPES OF CONNECTION

aquatherm black system HEATING AND COOLING GRIDS



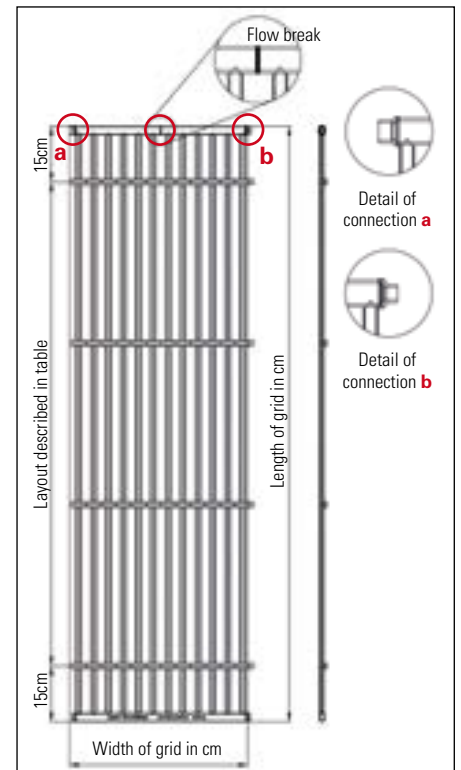
Connection type 50 = side by side welded connections

- a** Welding socket 16mm
- b** Welding nozzle 16mm



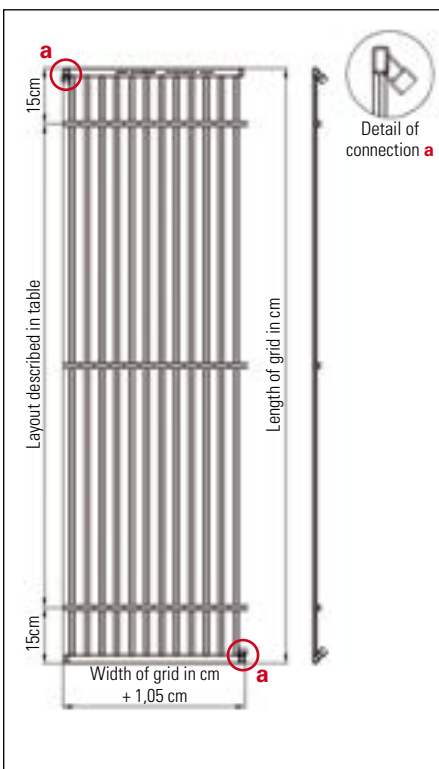
Connection type 64 = welded connection left, right

- a** Welding socket 16mm



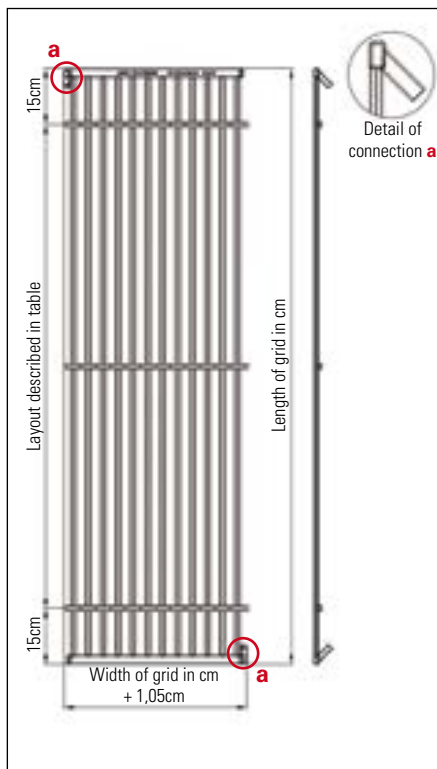
Connection type 65 = welded connection female, left / welded connection male, right

- a** welded connection female 16 mm
- b** welded connection male 16 mm



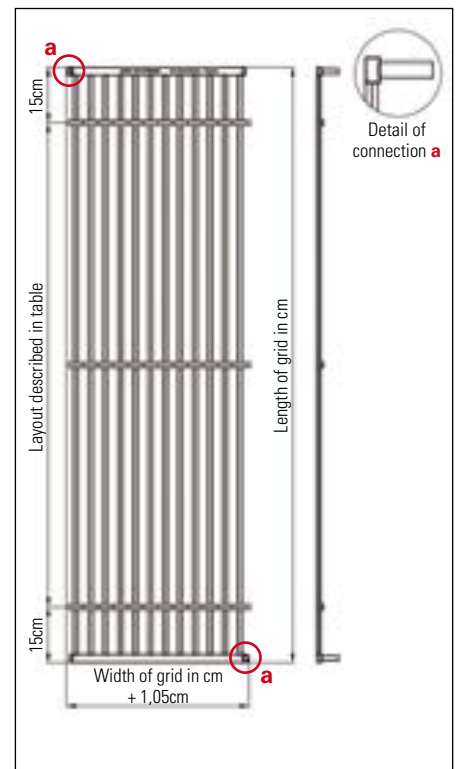
Connection type 59 = welded connection 45° top left, lower right

- a** Welding socket 16mm



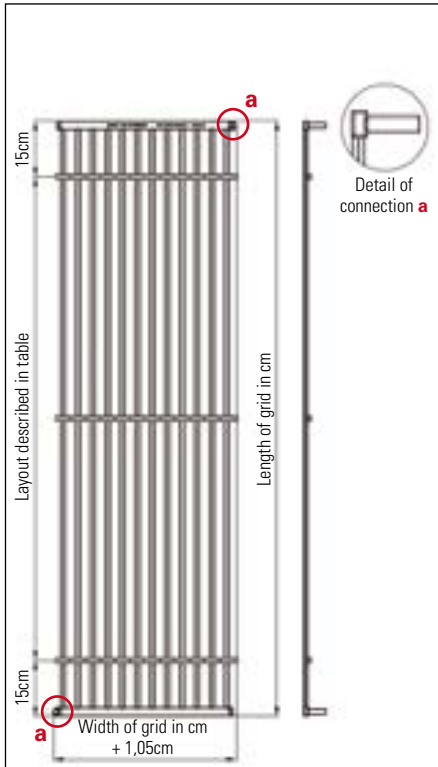
Connection type 51 = plug connection 45° top left, lower right

- a** plug socket 16mm



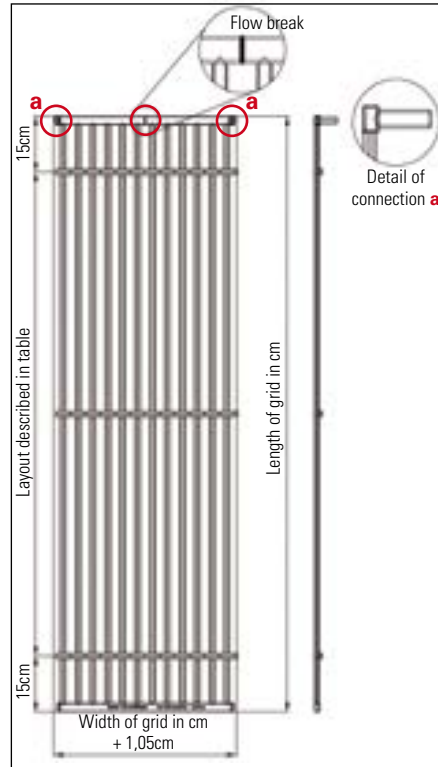
Connection type 52 = plug connection 90° top left, lower right

- a** plug socket 16mm



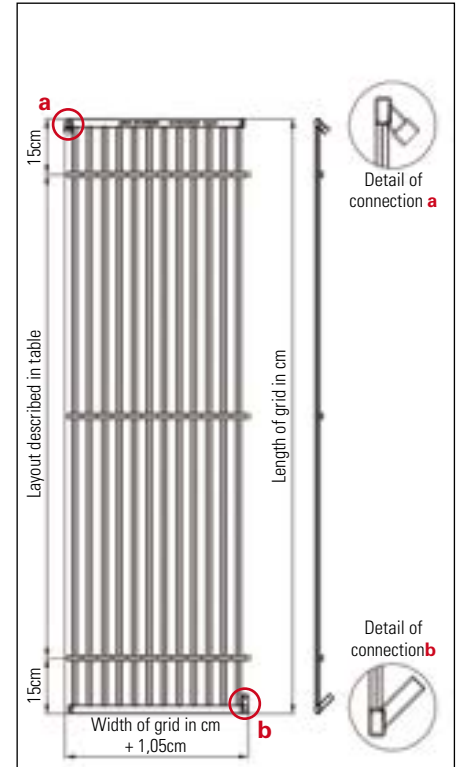
Connection type 53 = plug connection 90° top right, lower left

a plug socket 16mm



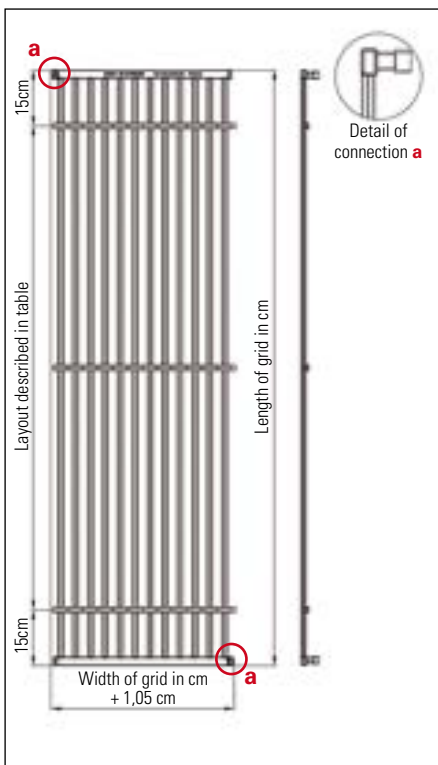
Connection type 62 = plug connection 90° links, rechts

a plug socket 16mm



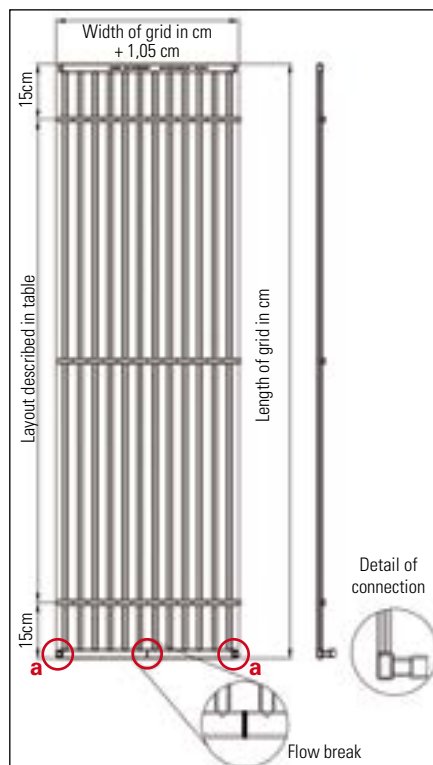
Connection type 58 = welded connection 45° top left, plug connection 45° lower right

**a welding socket 16mm
b plug socket 16mm**



Connection type 66 = welded connection 90° top left, lower right

a welding socket 16mm



Connection type 67 = welded connection 90° lower left, right

a welding socket 16mm

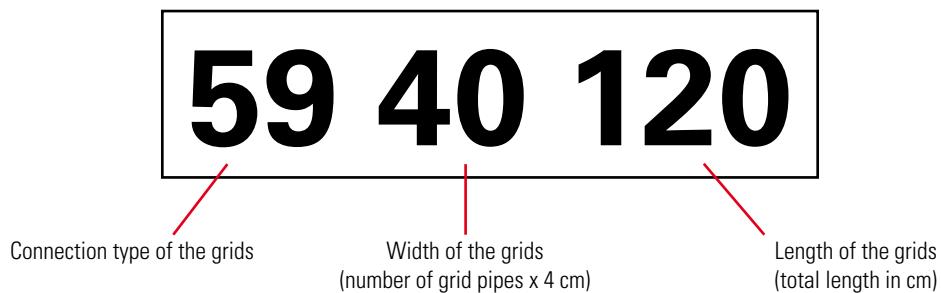
TYPES OF CONNECTION
aquatherm black system HEATING AND COOLING GRIDS

Connection types of the grids	Width of grids	Length of grids
50 = DD Welding connection AX	24 cm	40 cm
64 = DD Welding connection LR with flow break	28 cm	50 cm
65 = DD Welding connection LR with flow break	32 cm	60 cm
59 = 45° Welding connection TL /LR	36 cm	70 cm
51 = 45° Plug connection TL/LR	40 cm	80 cm
52 = 90° Plug connection TL/LR	48 cm	90 cm
53 = 90° Plug connection TR/LL	56 cm	100 cm
62 = 90° Plug connection LR with flow break	60 cm	120 cm
58 = 45° Welding connection TL / Plug connection LR	68 cm	140 cm
66 = 90° Welding connection TL/LR	80 cm	160 cm
67 = 90° Welding connection socket LR with DFU	100 cm	180 cm
		200 cm
		225 cm
		250 cm
		275 cm
		300 cm
		325 cm
		350 cm
		375 cm
		400 cm
		425 cm
		450 cm
		475 cm
		500 cm

L=lower, T=top, L=left, R=right, AX=axial

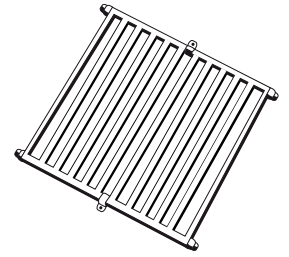
Special sizes on request

Composition of the Article-numbers:



aqualtherm black system HEATING AND COOLING GRIDS

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



Connection types of the grids	Art.-No.	Wide/m	Length/m	Area/m ²	PU	Price € m/pc
	5024040	0,24	0,40	0,10	1	
	5024050	0,24	0,50	0,12	1	
	5024060	0,24	0,60	0,14	1	
	5024070	0,24	0,70	0,17	1	
	5024080	0,24	0,80	0,19	1	
	5024090	0,24	0,90	0,22	1	
	5024100	0,24	1,00	0,24	1	
	5024120	0,24	1,20	0,29	1	
	5024140	0,24	1,40	0,34	1	
	5024160	0,24	1,60	0,38	1	
	5024180	0,24	1,80	0,43	1	
	5024200	0,24	2,00	0,48	1	
	5024225	0,24	2,25	0,54	1	
	5024250	0,24	2,50	0,60	1	
	5024275	0,24	2,75	0,66	1	
	5024300	0,24	3,00	0,72	1	
	5024325	0,24	3,25	0,78	1	
	5024350	0,24	3,50	0,84	1	
	5024375	0,24	3,75	0,90	1	
	5024400	0,24	4,00	0,96	1	
	5024425	0,24	4,25	1,02	1	
	5024450	0,24	4,50	1,08	1	
	5024475	0,24	4,75	1,14	1	
	5024500	0,24	5,00	1,20	1	
	5028040	0,28	0,40	0,11	1	
	5028050	0,28	0,50	0,14	1	
	5028060	0,28	0,60	0,17	1	
	5028070	0,28	0,70	0,20	1	
	5028080	0,28	0,80	0,22	1	
	5028090	0,28	0,90	0,25	1	
	5028100	0,28	1,00	0,28	1	
	5028120	0,28	1,20	0,34	1	
	5028140	0,28	1,40	0,39	1	
	5028160	0,28	1,60	0,45	1	
	5028180	0,28	1,80	0,50	1	
	5028200	0,28	2,00	0,56	1	
	5028225	0,28	2,25	0,63	1	
	5028250	0,28	2,50	0,70	1	
	5028275	0,28	2,75	0,77	1	
	5028300	0,28	3,00	0,84	1	
	5028325	0,28	3,25	0,91	1	
	5028350	0,28	3,50	0,98	1	
	5028375	0,28	3,75	1,05	1	
	5028400	0,28	4,00	1,12	1	
	5028425	0,28	4,25	1,19	1	
	5028450	0,28	4,50	1,26	1	
	5028475	0,28	4,75	1,33	1	
	5028500	0,28	5,00	1,40	1	

Attention:

As mentioned on pages 135 & 136 all grids are available in the mentioned connection types at same prices. Simply replace the first two figures of the article number („50“...) with those of the required type of connection (i. e. „64“...).

50 = DD Welding connection AX

64 = DD Welding connection LR with flow break

65 = DD Welding connection LR with flow break

59 = 45° Welding connection TL /LR

51 = 45° Plug connection TL/LR

52 = 90° Plug connection TL/LR

53 = 90° Plug connection TR/LL

62 = 90° Plug connection LR with flow break

58 = 45° Welding connection TL / Plug connection LR

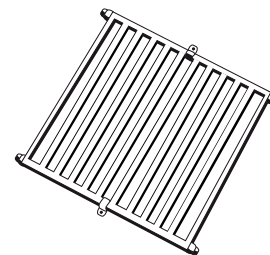
66 = 90° Welding connection TL/LR

67 = 90° Welding connection socket LR with DFU

Special size on request!

aquatherm black system HEATING AND COOLING GRIDS

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



Connection types of the grids	Art.-No.	Wide/m	Length/m	Area/m ²	PU	Price € m/pc
	5032040	0,32	0,40	0,13	1	
	5032050	0,32	0,50	0,16	1	
	5032060	0,32	0,60	0,19	1	
	5032070	0,32	0,70	0,22	1	
	5032080	0,32	0,80	0,26	1	
	5032090	0,32	0,90	0,29	1	
	5032100	0,32	1,00	0,32	1	
	5032120	0,32	1,20	0,38	1	
	5032140	0,32	1,40	0,45	1	
	5032160	0,32	1,60	0,51	1	
	5032180	0,32	1,80	0,58	1	
	5032200	0,32	2,00	0,64	1	
	5032225	0,32	2,25	0,72	1	
	5032250	0,32	2,50	0,80	1	
	5032275	0,32	2,75	0,88	1	
	5032300	0,32	3,00	0,96	1	
	5032325	0,32	3,25	1,04	1	
	5032350	0,32	3,50	1,12	1	
	5032375	0,32	3,75	1,20	1	
	5032400	0,32	4,00	1,28	1	
	5032425	0,32	4,25	1,36	1	
	5032450	0,32	4,50	1,44	1	
	5032475	0,32	4,75	1,52	1	
	5032500	0,32	5,00	1,60	1	
	5036040	0,36	0,40	0,14	1	
	5036050	0,36	0,50	0,18	1	
	5036060	0,36	0,60	0,22	1	
	5036070	0,36	0,70	0,25	1	
	5036080	0,36	0,80	0,29	1	
	5036090	0,36	0,90	0,32	1	
	5036100	0,36	1,00	0,36	1	
	5036120	0,36	1,20	0,43	1	
	5036140	0,36	1,40	0,50	1	
	5036160	0,36	1,60	0,58	1	
	5036180	0,36	1,80	0,65	1	
	5036200	0,36	2,00	0,72	1	
	5036225	0,36	2,25	0,81	1	
	5036250	0,36	2,50	0,90	1	
	5036275	0,36	2,75	0,99	1	
	5036300	0,36	3,00	1,08	1	
	5036325	0,36	3,25	1,17	1	
	5036350	0,36	3,50	1,26	1	
	5036375	0,36	3,75	1,35	1	
	5036400	0,36	4,00	1,44	1	
	5036425	0,36	4,25	1,53	1	
	5036450	0,36	4,50	1,62	1	
	5036475	0,36	4,75	1,71	1	
	5036500	0,36	5,00	1,80	1	

Attention:

As mentioned on pages 135 & 136 all grids are available in the mentioned connection types at same prices. Simply replace the first two figures of the article number („50“...) with those of the required type of connection (i. e. „64“...).

50 = DD Welding connection AX

64 = DD Welding connection LR with flow break

65 = DD Welding connection LR with flow break

59 = 45° Welding connection TL /LR

51 = 45° Plug connection TL/LR

52 = 90° Plug connection TL/LR

53 = 90° Plug connection TR/LL

62 = 90° Plug connection LR with flow break

58 = 45° Welding connection TL / Plug connection LR

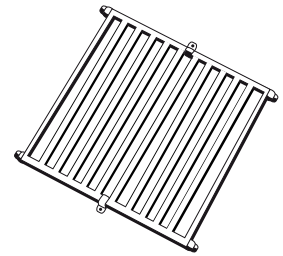
66 = 90° Welding connection TL/LR

67 = 90° Welding connection socket LR with DFU

Special size on request!

aquatherm black system HEATING AND COOLING GRIDS

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



Connection types of the grids	Art.-No.	Wide/m	Length/m	Area/m ²	PU	Price € m/pc
	5040040	0,40	0,40	0,16	1	
	5040050	0,40	0,50	0,20	1	
	5040060	0,40	0,60	0,24	1	
	5040070	0,40	0,70	0,28	1	
	5040080	0,40	0,80	0,32	1	
	5040090	0,40	0,90	0,36	1	
	5040100	0,40	1,00	0,40	1	
	5040120	0,40	1,20	0,48	1	
	5040140	0,40	1,40	0,56	1	
	5040160	0,40	1,60	0,64	1	
	5040180	0,40	1,80	0,72	1	
	5040200	0,40	2,00	0,80	1	
	5040225	0,40	2,25	0,90	1	
	5040250	0,40	2,50	1,00	1	
	5040275	0,40	2,75	1,10	1	
	5040300	0,40	3,00	1,20	1	
	5040325	0,40	3,25	1,30	1	
	5040350	0,40	3,50	1,40	1	
	5040375	0,40	3,75	1,50	1	
	5040400	0,40	4,00	1,60	1	
	5040425	0,40	4,25	1,70	1	
	5040450	0,40	4,50	1,80	1	
	5040475	0,40	4,75	1,90	1	
	5040500	0,40	5,00	2,00	1	
	5048040	0,48	0,40	0,19	1	
	5048050	0,48	0,50	0,24	1	
	5048060	0,48	0,60	0,29	1	
	5048070	0,48	0,70	0,34	1	
	5048080	0,48	0,80	0,38	1	
	5048090	0,48	0,90	0,43	1	
	5048100	0,48	1,00	0,48	1	
	5048120	0,48	1,20	0,58	1	
	5048140	0,48	1,40	0,67	1	
	5048160	0,48	1,60	0,77	1	
	5048180	0,48	1,80	0,86	1	
	5048200	0,48	2,00	0,96	1	
	5048225	0,48	2,25	1,08	1	
	5048250	0,48	2,50	1,20	1	
	5048275	0,48	2,75	1,32	1	
	5048300	0,48	3,00	1,44	1	
	5048325	0,48	3,25	1,56	1	
	5048350	0,48	3,50	1,68	1	
	5048375	0,48	3,75	1,80	1	
	5048400	0,48	4,00	1,92	1	
	5048425	0,48	4,25	2,04	1	
	5048450	0,48	4,50	2,16	1	
	5048475	0,48	4,75	2,28	1	
	5048500	0,48	5,00	2,40	1	

Attention:

As mentioned on pages 135 & 136 all grids are available in the mentioned connection types at same prices. Simply replace the first two figures of the article number („50“...) with those of the required type of connection (i. e. „64“....).

50 = DD Welding connection AX

64 = DD Welding connection LR with flow break

65 = DD Welding connection LR with flow break

59 = 45° Welding connection TL /LR

51 = 45° Plug connection TL/LR

52 = 90° Plug connection TL/LR

53 = 90° Plug connection TR/LL

62 = 90° Plug connection LR with flow break

58 = 45° Welding connection TL / Plug connection LR

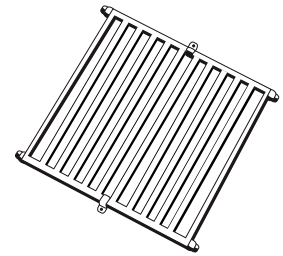
66 = 90° Welding connection TL/LR

67 = 90° Welding connection socket LR with DFU

Special size on request!

aquatherm black system HEATING AND COOLING GRIDS

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



Connection types of the grids	Art.-No.	Wide/m	Length/m	Area/m ²	PU	Price € m/pc
	50 56040	0,56	0,40	0,22	1	
	50 56050	0,56	0,50	0,28	1	
	50 56060	0,56	0,60	0,34	1	
	50 56070	0,56	0,70	0,39	1	
	50 56080	0,56	0,80	0,45	1	
	50 56090	0,56	0,90	0,50	1	
	50 56100	0,56	1,00	0,56	1	
	50 56120	0,56	1,20	0,67	1	
	50 56140	0,56	1,40	0,78	1	
	50 56160	0,56	1,60	0,90	1	
	50 56180	0,56	1,80	1,01	1	
	50 56200	0,56	2,00	1,12	1	
	50 56225	0,56	2,25	1,26	1	
	50 56250	0,56	2,50	1,40	1	
	50 56275	0,56	2,75	1,54	1	
	50 56300	0,56	3,00	1,68	1	
	50 56325	0,56	3,25	1,82	1	
	50 56350	0,56	3,50	1,96	1	
	50 56375	0,56	3,75	2,10	1	
	50 56400	0,56	4,00	2,24	1	
	50 56425	0,56	4,25	2,38	1	
	50 56450	0,56	4,50	2,52	1	
	50 56475	0,56	4,75	2,66	1	
	50 56500	0,56	5,00	2,80	1	
	50 60040	0,60	0,40	0,24	1	
	50 60050	0,60	0,50	0,30	1	
	50 60060	0,60	0,60	0,36	1	
	50 60070	0,60	0,70	0,42	1	
	50 60080	0,60	0,80	0,48	1	
	50 60090	0,60	0,90	0,54	1	
	50 60100	0,60	1,00	0,60	1	
	50 60120	0,60	1,20	0,72	1	
	50 60140	0,60	1,40	0,84	1	
	50 60160	0,60	1,60	0,96	1	
	50 60180	0,60	1,80	1,08	1	
	50 60200	0,60	2,00	1,20	1	
	50 60225	0,60	2,25	1,35	1	
	50 60250	0,60	2,50	1,50	1	
	50 60275	0,60	2,75	1,65	1	
	50 60300	0,60	3,00	1,80	1	
	50 60325	0,60	3,25	1,95	1	
	50 60350	0,60	3,50	2,10	1	
	50 60375	0,60	3,75	2,25	1	
	50 60400	0,60	4,00	2,40	1	
	50 60425	0,60	4,25	2,55	1	
	50 60450	0,60	4,50	2,70	1	
	50 60475	0,60	4,75	2,85	1	
	50 60500	0,60	5,00	3,00	1	

Attention:

As mentioned on pages 135 & 136 all grids are available in the mentioned connection types at same prices. Simply replace the first two figures of the article number („50“...) with those of the required type of connection (i. e. „64“....).

50 = DD Welding connection AX

64 = DD Welding connection LR with flow break

65 = DD Welding connection LR with flow break

59 = 45° Welding connection TL /LR

51 = 45° Plug connection TL/LR

52 = 90° Plug connection TL/LR

53 = 90° Plug connection TR/LL

62 = 90° Plug connection LR with flow break

58 = 45° Welding connection TL / Plug connection LR

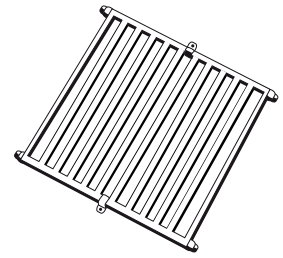
66 = 90° Welding connection TL/LR

67 = 90° Welding connection socket LR with DFU

Special size on request!

aquatherm black system HEATING AND COOLING GRIDS

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



Connection types of the grids	Art.-No.	Wide/m	Length/m	Area/m ²	PU	Price € m/pc
	50 68040	0,68	0,40	0,27	1	
	50 68050	0,68	0,50	0,34	1	
	50 68060	0,68	0,60	0,41	1	
	50 68070	0,68	0,70	0,48	1	
	50 68080	0,68	0,80	0,54	1	
	50 68090	0,68	0,90	0,61	1	
	50 68100	0,68	1,00	0,68	1	
	50 68120	0,68	1,20	0,82	1	
	50 68140	0,68	1,40	0,95	1	
	50 68160	0,68	1,60	1,09	1	
	50 68180	0,68	1,80	1,22	1	
	50 68200	0,68	2,00	1,36	1	
	50 68225	0,68	2,25	1,53	1	
	50 68250	0,68	2,50	1,70	1	
	50 68275	0,68	2,75	1,87	1	
	50 68300	0,68	3,00	2,04	1	
	50 68325	0,68	3,25	2,21	1	
	50 68350	0,68	3,50	2,38	1	
	50 68375	0,68	3,75	2,55	1	
	50 68400	0,68	4,00	2,72	1	
	50 68425	0,68	4,25	2,89	1	
	50 68450	0,68	4,50	3,06	1	
	50 68475	0,68	4,75	3,23	1	
	50 68500	0,68	5,00	3,40	1	
	50 80040	0,80	0,40	0,32	1	
	50 80050	0,80	0,50	0,40	1	
	50 80060	0,80	0,60	0,48	1	
	50 80070	0,80	0,70	0,56	1	
	50 80080	0,80	0,80	0,64	1	
	50 80090	0,80	0,90	0,72	1	
	50 80100	0,80	1,00	0,80	1	
	50 80120	0,80	1,20	0,96	1	
	50 80140	0,80	1,40	1,12	1	
	50 80160	0,80	1,60	1,28	1	
	50 80180	0,80	1,80	1,44	1	
	50 80200	0,80	2,00	1,60	1	
	50 80225	0,80	2,25	1,80	1	
	50 80250	0,80	2,50	2,00	1	
	50 80275	0,80	2,75	2,20	1	
	50 80300	0,80	3,00	2,40	1	
	50 80325	0,80	3,25	2,60	1	
	50 80350	0,80	3,50	2,80	1	
	50 80375	0,80	3,75	3,00	1	
	50 80400	0,80	4,00	3,20	1	
	50 80425	0,80	4,25	3,40	1	
	50 80450	0,80	4,50	3,60	1	
	50 80475	0,80	4,75	3,80	1	
	50 80500	0,80	5,00	4,00	1	

Attention:

As mentioned on pages 135 & 136 all grids are available in the mentioned connection types at same prices. Simply replace the first two figures of the article number („50“...) with those of the required type of connection (i. e. „64“....).

50 = DD Welding connection AX

64 = DD Welding connection LR with flow break

65 = DD Welding connection LR with flow break

59 = 45° Welding connection TL /LR

51 = 45° Plug connection TL/LR

52 = 90° Plug connection TL/LR

53 = 90° Plug connection TR/LL

62 = 90° Plug connection LR with flow break

58 = 45° Welding connection TL / Plug connection LR

66 = 90° Welding connection TL/LR

67 = 90° Welding connection socket LR with DFU

Special size on request!

aquatherm black system HEATING AND COOLING GRIDS

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

Connection types of the grids	Art.-No.	Wide/m	Length/m	Area/m ²	PU	Price € m/pc
	5000040	1,00	0,40	0,40	1	
	5000050	1,00	0,50	0,50	1	
	5000060	1,00	0,60	0,60	1	
	5000070	1,00	0,70	0,70	1	
	5000080	1,00	0,80	0,80	1	
	5000090	1,00	0,90	0,90	1	
	5000100	1,00	1,00	1,00	1	
	5000120	1,00	1,20	1,20	1	
	5000140	1,00	1,40	1,40	1	
	5000160	1,00	1,60	1,60	1	
	5000180	1,00	1,80	1,80	1	
	5000200	1,00	2,00	2,00	1	
	5000225	1,00	2,25	2,25	1	
	5000250	1,00	2,50	2,50	1	
	5000275	1,00	2,75	2,75	1	
	5000300	1,00	3,00	3,00	1	
	5000325	1,00	3,25	3,25	1	
	5000350	1,00	3,50	3,50	1	
	5000375	1,00	3,75	3,75	1	
	5000400	1,00	4,00	4,00	1	
	5000425	1,00	4,25	4,25	1	
	5000450	1,00	4,50	4,50	1	
	5000475	1,00	4,75	4,75	1	
	5000500	1,00	5,00	5,00	1	

Attention:

As mentioned on pages 135 & 136 all grids are available in the mentioned connection types at same prices. Simply replace the first two figures of the article number („50“...) with those of the required type of connection (i. e. „64“...).

50 = DD Welding connection AX

64 = DD Welding connection LR with flow break

65 = DD Welding connection LR with flow break

59 = 45° Welding connection TL /LR

51 = 45° Plug connection TL/LR

52 = 90° Plug connection TL/LR

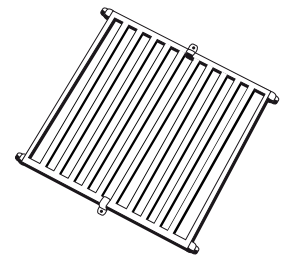
53 = 90° Plug connection TR/LL

62 = 90° Plug connection LR with flow break

58 = 45° Welding connection TL / Plug connection LR

66 = 90° Welding connection TL/LR

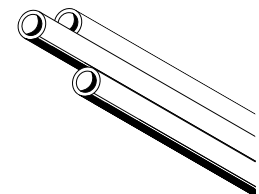
67 = 90° Welding connection socket LR with DFU



aquatherm black system PP-GRID CONNECTION PIPE

with oxygen barrier, in 2,5 m lengths

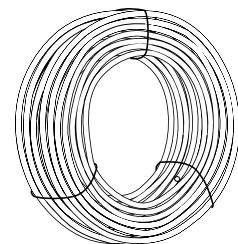
Art.-No.	Dimension	PU	Price € m/pc
81006	16 mm	50	
81008	20 mm	50	



aquatherm black system PP-GRID CONNECTION PIPE

with oxygen barrier, in ring

Art.-No.	Dimension	PU	Price € m/pc
81026	16 mm	100	
81028	20 mm	100	



aquatherm black system CORRUGATED CONNECTING PIPE

with oxygen barrier, in ring

Art.-No.	Dimension	PU	Price € m/pc
81039		50	

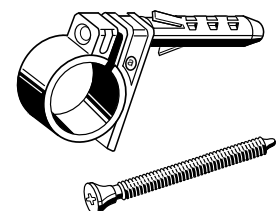


Connectable by welding with Art. 81288, 81289, 81290, 81291 separable every 25 cm

PLASTIC PIPE CLAMPS

Art.-No.	For pipe dimension	PU	Price € m/pc
60716	16 mm	50	
60720	20 mm	50	

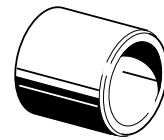
Colour: anthracite



aquatherm black system **SOCKET**

for heating and cooling grids

Art.-No.	Dimension	PU	Price € m/pc
81050	16 mm	10	



aquatherm black system **ELBOW 90°**

for heating and cooling grids

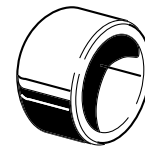
Art.-No.	Dimension	PU	Price € m/pc
81060	16 mm	10	



aquatherm black system **END CAP**

for heating and cooling grids

Art.-No.	Dimension	PU	Price € m/pc
81080	16 mm	10	



aquatherm black system **PP-R MALE END PLUG**

for heating and cooling grids - type of connection: 50

Art.-No.	Dimension	PU	Price € m/pc
81092	16 mm	10	



aquatherm black system **ELBOW 90°**

male/female

Art.-No.	Dimension	PU	Price € m/pc
81065	16 mm	10	



NEW aquatherm black system **MAGNET HOLDER**

Art.-No.	Dimension	PU	Price € m/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.

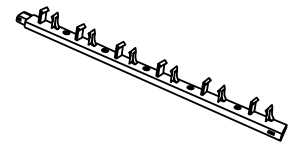
The demand for holding-down magnets depends on the dimension of the metal panel, basically plan with approx. 4 magnets per square meter.



aquatherm black system **FIXING RAIL**

for heating and cooling grids

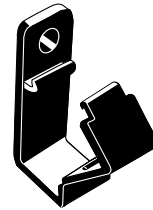
Art.-No.	Dimension	PU	Price € m/pc
81506	Länge = aqt black system 24cm	10	



aquatherm black system **WALL BRACKET**

for heating and cooling grids

Art.-No.	Dimension	PU	Price € m/pc
81296		10	

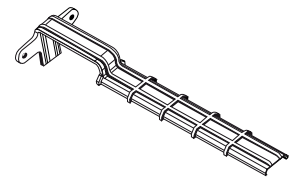


aquatherm black system **FIXING RAIL FOR DRY WALL**

for heating and cooling grids

Art.-No.	Dimension	PU	Price € m/pc
81297		10	

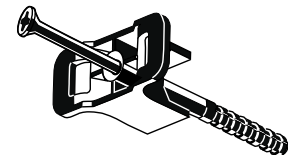
Please note, when ordering the fixing rail for drywall art.-no. 81297, that for each rail two cable ties with the art.-no. 99086 have to be ordered.



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

for wall and ceiling installation

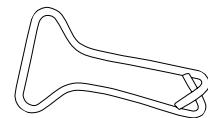
Art.-No.	Dimension	PU	Price € m/pc
81298		10	



aquatherm black system **FIXING ELEMENT HOOK**

for heating and cooling grids

Art.-No.	Dimension	PU	Price € m/pc
81299		10	



aquatherm black system **FIXING ELEMENT METAL ROD 1500mm**

for heating and cooling grids

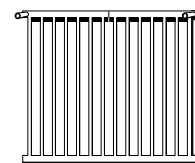
Art.-No.	Dimension	PU	Price € m/pc
81300	lengths=1500 mm	1	



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	PU	Price € m/pc
6256060	for ceiling panels 62,5 x 62,5 weldable	1	
6256056	for ceiling panels 60,0 x 60,0 weldable	1	
6256056	for ceiling panels 60,0 x 60,0 push-fit connection	1	
6256120	for ceiling panels 62,5 x 125,0 push-fit connection	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 CORRUGATED CONNECTING PIPE

with oxygen barrier, for connection types 51, 52, 53 and 62

Art.-No.	Dimension	PU	Price € m/pc
81030	L 1,25m with elbow double sided push-fit connection	1	
81031	L 0,5m with elbow push-fit connection/weldable	1	
81032	L 0,5m with elbow double sided push-fit connection	1	
81033	L 1,25 m double sided push-fit connection	1	
81034	L 1,25 m with elbow push-fit connection / on one side rotated by 90°	1	
81035	L 1,5m with elbow double sided push-fit connection	1	
81036	L 1,75m with elbow double sided push-fit connection	1	
81040	Length= 57 cm, double sided push-fit connection	10	
81041	Length = 57 cm, one-sided push-fit connection, one sided aquatherm grey pipe 16 mm	10	
81042	Length = 57 cm, one sided push-fit connection, one sided PP-R 16 mm weldable	10	



aquatherm black system THERMOGRAPHY FILM

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

Art.-No.	Dimension	PU	Price € m/pc
50186	160x70mm	1	



aquatherm black system ADHESIVE

For the adhesion of aquatherm black system grids on the acoustics fleece or metal ceiling panels

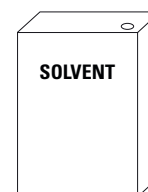
Art.-No.	Dimension	PU	Price € m/pc
81192	9 kg package	9	
81193	22 kg package	22	



For the adhesion in metal ceiling panels the aquatherm black system adhesive is used dilutedly with the aquatherm black system solvent (Art.-No. 81194/81195) in the ratio of up to maximum 5:1. The adhesive is dosed sparingly and applied on the grids by a role. Then the grid is directly placed into the metal panel and pressed on. The approximate value for the consumption is about 35g/m².

aquatherm black system SOLVENT

Art.-No.	Dimension	PU	Price € m/pc
81194	4 kg package	4	
81195	9 kg package	9	



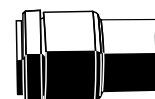
For the adhesion in metal ceiling panels the aquatherm black system adhesive (Art.-No. 81192/81193) is used dilutedly with the aquatherm black system solvent in the ratio of up to maximum 5:1. The adhesive is dosed sparingly and applied on the grids by a role. Then the grid is directly placed into the metal panel and pressed on. The approximate value for the consumption is about 35g/m².

aquatherm black system CONNECTOR

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

Art.-No.	Dimension	PU	Price € m/pc
81288	16 mm	20	

with safety pin

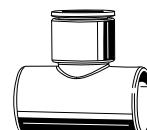


aquatherm black system T-ADAPTER

passage PP-R weldable / branch 16 mm plugable

Art.-No.	Dimension	PU	Price € m/pc
81289	25 x 16 x 25 mm	10	

with safety pin

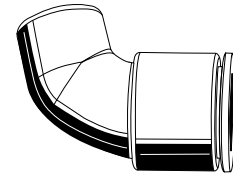


aquatherm black system 90° ELBOW-ADAPTER

onesided plugable / onesided PP-R 16 mm weldable

Art.-No.	Dimension	PU	Price € m/pc
81290	16 mm	10	

with safety pin

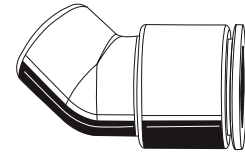


aquatherm black system 45° ELBOW-ADAPTER

onesided plugable / onesided PP-R 16 mm weldable

Art.-No.	Dimension	PU	Price € m/pc
81291	16 mm	10	

with safety pin



aquatherm black system DOUBLE SOCKET

calibrated pipe nipple for connection of plug adapter

Art.-No.	Dimension	PU	Price € m/pc
81093	16 x 2 mm, Length: 150 mm	10	

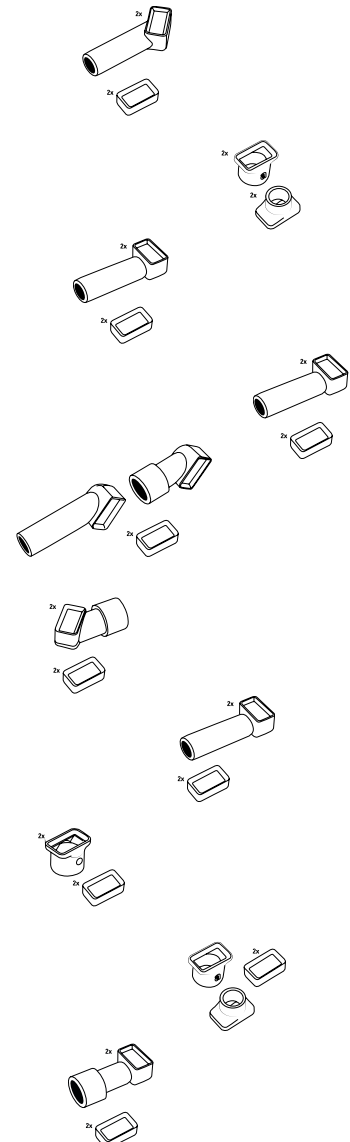


aquatherm black system GRID CONNECTION SETS

or all types of connection - for details and figures of the connections see page 134 and 136

Art.-No.	for connection type	consisting of	PU	Price € m/pc
81099	51	2x end cap, 2x 45° plug connection	1	
81100	50	2x welding socket, 2x welding nozzle	1	
81102	52	2x end cap, 2x 90° plug connection	1	
81103	53	2x end cap, 2x 90° plug connection	1	
81108	58	2x end cap, 1x 45° plug connection, 1x 45° welding socket	1	
81109	59	2x end cap, 2x 45° welding socket	1	
81112	62	2 x endcap, 2 x 90° plug connection	1	
81114	64	2x end cap, 2x welding socket	1	
81115	65	2x end cap, 1x welding socket, 1x welding nozzle	1	
81117	66+67	2 x endcap, 2 x 90° plug connection	1	

Welding tool for grid connection set art.-no. 50283 see next page

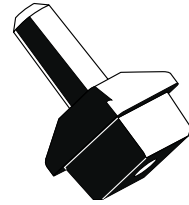


aquatherm black system **SEALING PLUG**

for wall and ceiling grids

Art.-No.	Dimension	PU	Price € m/pc
81091	12 mm	10	

welding tool for sealing plug Art.-No. 50285 see tools



aquatherm black system **WELDING TOOL**

Art.-No.	Dimension	PU	Price € m/pc
50283	14 x 24 mm	1	

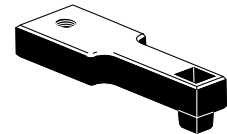
for grid connection sets 81099, 81100, 81102, 81103, 81108, 81109, 81112, 81114, 81115



aquatherm black system **WELDING TOOL**

Art.-No.	Dimension	PU	Price € m/pc
50285	12x12 mm	1	

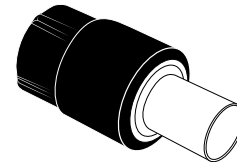
for sealing plug Art.-No. 81091



aquatherm black system **TRANSITION ADAPTER**

Art.-No..	Dimension	PU	Price € m/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 € m/pc
781292	aquatherm black system with aquatherm grey pipe 16 mm multilayer-metal composite pipe	10	

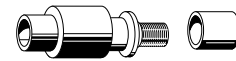
The adapter can be connected by the known sliding-sleeve technology with the aquatherm black system.



aquatherm black system **TRANSITION ADAPTER**

Art.-No..	Dimension	PU	Price € m/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	Price € m/pc
81800	2 Pieces	6424200	240 x 2000 mm grids	
	1 Piece	6460200	600 x 2000 mm Register	
	25 Meter	81006	grid pipe 16 mm	
	10 Pieces	81050	connecting socket 16 mm	
	20 Pieces	81060	elbow 16 mm 90 degree F/F	
	10 Pieces	81065	elbow 16 mm 90 degree F/M	
	50 Pieces	60716	fixing clamps 16 mm	





aquatherm orange system

SURFACE HEATING AND COOLING SYSTEMS

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

Constant development on the technical know-how and the great experience gained in the field of underfloor heating installations in different projects over years, have led to the fact, that aquatherm is always one step ahead, also in special applications.

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

- ▶ underfloor heating systems
- ▶ wall heating systems / chilled applications
- ▶ heating systems for renovations and new buildings
- ▶ open space heating
- ▶ industrial floor heating
- ▶ sports floor heating
- ▶ under-soil heating
- ▶ agricultural applications

FIELDS OF APPLIATION



Flexible sports floor



Open space heating



Industrial floor heating



Chilled area, ice stadium



Underfloor heating living area



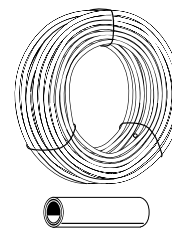
Undersoil pitch heating

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

with oxygen barrier according to DIN

Art.-No.	Dimension	PU	Price € m/pc
90020	10x1,25mm	250	
90024	14x2,0mm	250	
90034	14x2,0mm	500	
90026	16x2,0mm	250	
90036	16x2,0mm	500	
90027	17x2,0mm	250	
90037	17x2,0mm	500	
90028	20x2,0mm	250	
90038	20x2,0mm	500	
90030	25x2,3mm	250	

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

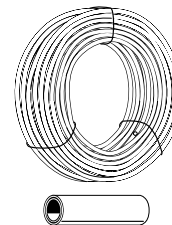


aquatherm orange system SURFACE HEATING AND RADIATOR CONNECTING PIPE (PB)

with oxygen barrier according to DIN

Art.-No.	Dimension	PU	Price € m/pc
90306	16x2,0mm	250	
90307	17x2,0mm	250	
90316	16x2,0mm	500	
90317	17x2,0mm	500	

Material: PB with EVOH coating, oxygen barrier according to DIN 4726/4727/16968
Colour: grey



FALSE JAW FOR THE AQUATHERM GREY PIPE-EXPANDING TOOL

for aquatherm orange system PE-RT-pipes

in combination with aquatherm grey pipe expandin tool art.-no. 50800

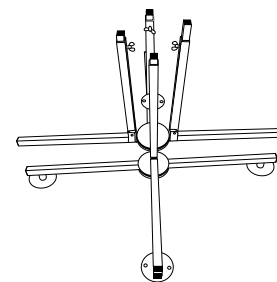
Art.-No.	Dimension	PU	Price € m/pc
50823	17 mm	1	



aquatherm orange system PIPE HASP

Art.-No.	Dimension	PU	Price € m/pc
96004		1	

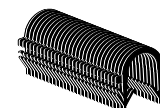
for winding the heating pipe



aquatherm orange system PIPE CLAMP

Art.-No.	Dimension	PU	Price € m/pc
90502	ø 14-17 mm	100	
90504	ø 14-20 mm tacker	500	

for aquatherm orange system -underfloor heating pipes
Material: Polyamid



aquatherm orange system TACKER

Art.-No.	Dimension	PU	Price € m/pc
96003		1	

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

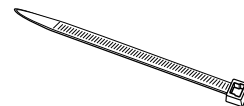


aquatherm orange system CABLE TIE

for industrial surface heating

Art.-No.	Dimension	PU	Price € m/pc
99086	Length: 200 mm	100	

Please note: Packung Unit = 100

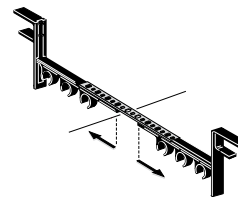


aquatherm orange system PIPE GUIDING RAIL

for surface flexible sports floor, adjustable in length and height

Art.-No.	Dimension	PU	Price € m/pc
90510	Ø 20 mm	150	

Material: Polyamid

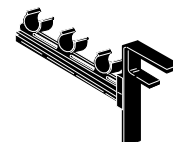


aquatherm orange system END RAIL

for surface flexible sports floor, adjustable in height

Art.-No.	Dimension	PU	Price € m/pc
90511	Ø 20 mm	20	

Material: Polyamid

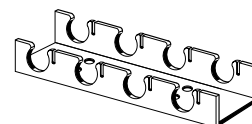


aquatherm orange system PROFILE RAIL

for wall heating, surface heating and industrial heating

Art.-No.	Dimension	PU	Price € m/pc
90512	Ø 10 mm - adhesive	2	
90515	Ø 14 mm - adhesive	2	
90517	Ø 16 mm - adhesive	2	
90518	Ø 20 mm	2	
90520	Ø 25 mm	2	

Material: Polyamid

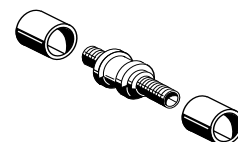


aquatherm orange system COUPLING

for PE-RT and PB pipes, including sliding sleeve

Art.-No.	Dimension	PU	Price € m/pc
95500	10 mm	1	
79209	14 mm	2	
79210	16 mm	2	
95537	17 mm (special article)	1	
79212	20 mm	2	
79214	25 mm	2	

Material: brass

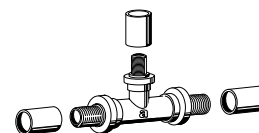


aquatherm orange system REDUCER TEE

including sliding sleeve

Art.-No.	Dimension	PU	Price € m/pc
95502	16x10x10mm	1	
95504	16x10x16mm	1	

Material: PPSU

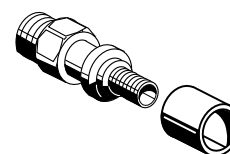


aquatherm orange system TRANSITION PIECE, MALE

including sliding sleeve

Art.-No.	Dimension	PU	Price € m/pc
95510	10 x 1,25 mm x 3/8"	1	
95512	10 x 1,25 mm x 1/2"	1	

Material: brass

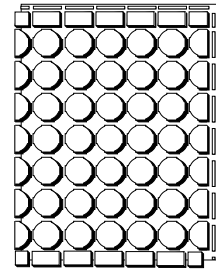


aquatherm orange system SYSTEM ELEMENT 25

for surface heating

Art.-No.	Dimension	PU	Price € m/pc
91039	L = 1005 mm, W = 750 mm, H = 25 mm	17	

Material: EPS-DEO dh - WLG 035 200kPa with interlocking seam for connecting the plates / Pipe spacing 125 mm resp. 250 mm for surface heating pipes 14 mm / Pipe requirement = 8 m/m² with pipe spacing of 125 mm / Pipe requirement = 4 m/m² with pipe spacing of 250 mm, RλB Dä = 0,714 m² K/W

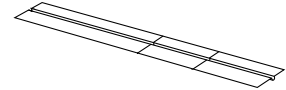


aquatherm orange system HEAT CONDUCTING STEEL SHEET

for installation into system element 25

Art.-No.	Dimension	PU	Price € m/pc
91041	L = 750 mm, W = 120 mm	50	

Requirement: 10 Pcs/m² pipe spacing 125 mm / 5 Pcs/m² pipe spacing 250 mm

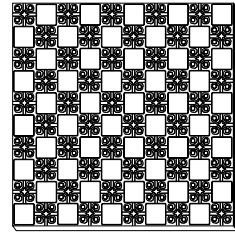


aquatherm orange system SYSTEM ELEMENT KNOB PLATE F ND 11

with deep-drawing foil

Art.-No.	Dimension	PU	Price € m/pc
91112	L = 1000 mm, W = 1000 mm, H = 11 mm	20	

Just for ø14 and ø16 mm pipe / Material: EPS-035-DEO dh. Knob spacing: 50 mm for installation without pipe clips / sound insulation / RλB Dä = 0,31 m² K/W / Insulation thickness: = 11 mm / Total thickness including knobs = 30 mm

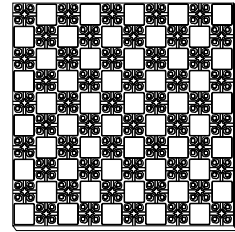


aquatherm orange system SYSTEM ELEMENT KNOB PLATE F ND 30-2

with deep-drawing foil

Art.-No.	Dimension	PU	Price € m/pc
91115	L = 1000 mm, W = 1000 mm, H = 30-2 mm	10	

Just for ø14 and ø16 mm pipe. Knob spacing: 50 mm for installation without pipe clips / sound insulation RλB Dä = 0,75 m² K/W / Insulation thickness: = 30 mm / Total thickness including knobs = 49 mm

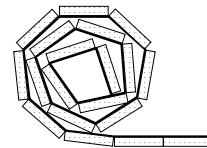


aquatherm orange system INSULATION ROLL

Art.-No.	Dimension	PU	Price € m/pc
91033	L = 10000 mm, W = 1000 mm, H = 30 mm	10	

Material: EPS 040 DES sg, with:

- cloth-lined covering layer, protected against corrosion
 - imprinted screen for placing
 - impact sound insulation RλB Dä = 0,75 m² K/W /
- Working load: 5 kPa / Improved impact sound insulation: 30 dB

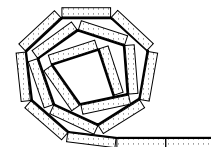


aquatherm orange system INSULATION ROLL

Art.-No.	Dimension	PU	Price € m/pc
91035	L = 10000 mm, W = 1000 mm, H = 35 mm	10	

Material: EPS-045-DES sm - DIN 13163, with:

- cloth-lined covering layer, protected against corrosion
 - imprinted screen for placing
 - impact sound insulation RλB Dä = 0,75 m² K/W
- Working load: 4 kPa / Improved impact sound insulation: 29 dB

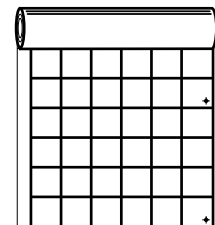


aquatherm orange system FOIL WITH IMPRINTED GRID

Art.-No.	Dimension	PU	Price € m/pc
91210	W = 1030 m ²	50	

System element consisting of:

- mutual corrosion protection layer
 - imprinted screen for placing
 - cloth-lined covering layer (acc. to DIN 18560 with min. 30 mm overlap)
- For placing of heat and sound insulating plates on-site (hardly flammable)

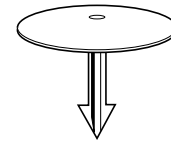


aquatherm orange system PLASTIC NAIL

for fixing of the grid foil

Art-No.	Dimension	PU	Price € m/pc
91102		50	

Material: polyamide
Requirement: 2 Pcs/m²

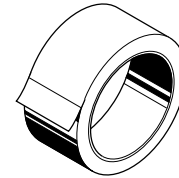


aquatherm orange system ADHESIVE TAPE

for sealing of joint gaps in system elements

Art-No.	Dimension	PU	Price € m/pc
91104	L = 66 m	1	

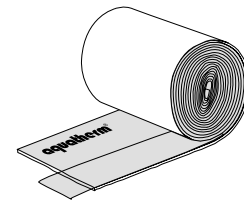
Requirement 1m/m²



aquatherm orange system EDGE INSULATION

Art-No.	Dimension	PU	Price € m/pc
91106	height = 160 mm, thickness = 8 mm	25	

Material: PE-foam
- very low flammability
- with adhesive strip on the foil



aquatherm orange system EXPANSION JOINT SECTION

double-sided overlay

Art-No.	Dimension	PU	Price € m/pc
91107	height = 100 mm, thickness = 10 mm, length = 1800 mm	18	

to form permanent elastic joints for heating screeds and to separate screed fields consisting of:
- T-profile for absorption of expansion strips
- expansion strips of PE

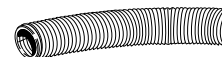
Note: Please use the aquatherm orange system corrugated pipe (Art.-No. 91111) to protect the connecting pipe in the area of screed moving joint.

aquatherm orange system PROTECTION PIPE FOR EXPANSION JOINT SECTION

to protect the connecting pipe in the area of screed moving joint

Art-No.	Dimension	PU	Price € m/pc
91111	for heating pipes ø 14 - 17 mm	10	

Material: PE



aquatherm orange system SPECIAL FLOOR MIX

for thin-layer cement screeds

Art-No.	Dimension	PU	Price € m/pc
91108	Consumption per m ² 0,15 kg	10	

for increasing the screed density



aquatherm orange system SPECIAL FLOOR MIX

for thin-layer cement screeds

Art-No.	Dimension	PU	Price € m/pc
91110	Consumption per m ² 1,45 kg	25	

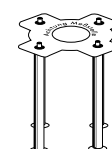
Screed-pipe covering: 30 mm



aquatherm orange system SCREED MEASURING POINT

for marking the measuring points in the screed

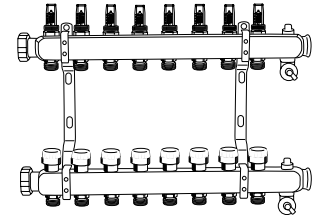
Art-No.	Dimension	PU	Price € m/pc
91109	H = 100 mm	1	



aquatherm orange system HEATING CIRCUIT MANIFOLD WITH FLOW METER

screw joints and ball valves have to be ordered separately

Art-No.	Dimension	PU	Price € m/pc
92302	2 Circuits	1	
92303	3 Circuits	1	
92304	4 Circuits	1	
92305	5 Circuits	1	
92306	6 Circuits	1	
92307	7 Circuits	1	
92308	8 Circuits	1	
92309	9 Circuits	1	
92310	10 Circuits	1	
92311	11 Circuits	1	
92312	12 Circuits	1	



Stainless steel manifold with the following properties:

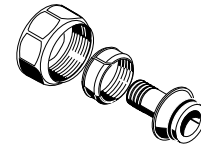
- flow- and return manifold are arranged separately
- flow indicator with shut-off in the flow
- control and shut-off valve with protection cap in return
- feed and drain valves
- air valves
- bracket set with bow and sound protection
- sealing plug

aquatherm orange system EUROCONUS CONNECTOR

for heating circuit manifold, valves/couplings

Art-No.	Dimension	PU	Price € m/pc
92100	ø 10 x 1,25 mm	5	
92104	ø 14 x 2,0 mm	5	
92106	ø 16 x 2,0 mm	5	
92107	fø 17 x 2,0 mm	5	
92108	ø 20 x 2,0 mm	5	

cap nut nickel-plated

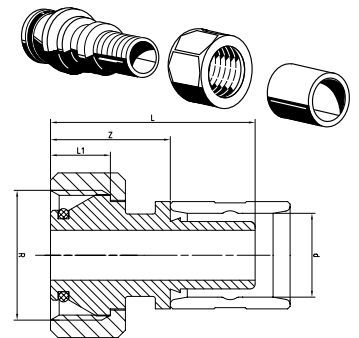


aquatherm grey pipe EUROCONUS ADAPTER

including sliding sleeve

Art-No.	d	R	Z	L	L1	PU	Price € m/pc
79219	14	G3/4	24,00	41,00	12,00	1	
79220	16	G3/4	24,00	41,00	12,00	2	
79222	20	G3/4	30,00	47,00	15,00	2	

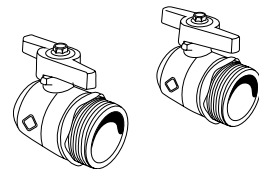
Material: brass
for customary manifolds/joints



aquatherm orange system BALL VALVE SET

Straight design, for manifold Art.-No. 92302-92312

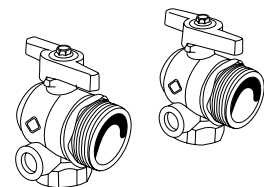
Art-No.	Dimension	PU	Price € m/pc
92320	1" straight	1	



aquatherm orange system BALL VALVE SET

Corner design, for manifold Art.-No. 92302-92312

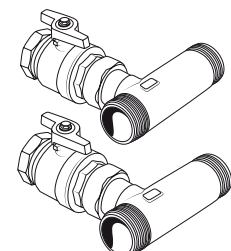
Art-No.	Dimension	PU	Price € m/pc
92321	1" corner	1	



aquatherm orange system MID CONNECTION SET

with ball valve, for extension up to 24 heating circuits in connection with Art.-No. 92302-92312

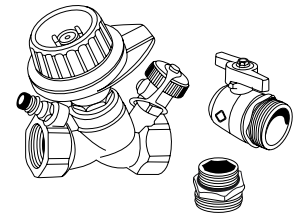
Art-No.	Dimension	PU	Price € m/pc
92330	ball valve 1 1/4"	1	



aquatherm orange system LINE CONTROL VALVE SET FOR MANIFOLD

Art.-No.	Dimension	PU	Price € m/pc
92329	1"	1	

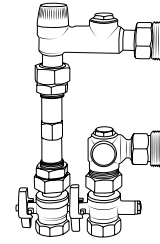
For restriction of flow rate respectively for hydraulic balancing of manifolds



aquatherm orange system UNIVERSAL HEAT METER

Art.-No.	Dimension	PU	Price € m/pc
92323	1"	1	

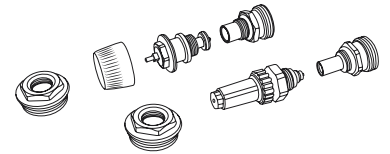
for mounting to aquatherm orange system-manifold



aquatherm orange system HEATING CIRCUIT MANIFOLD EXTENSION SET

for Art.-No. 92302-92312

Art.-No.	Dimension	PU	Price € m/pc
92069		1	



aquatherm orange system LARGE-AREA HEATING CIRCUIT MANIFOLD

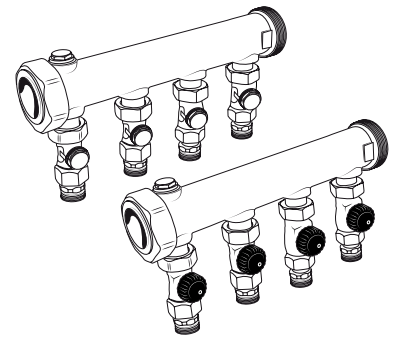
in modular construction

Art.-No.	Dimension	PU	Price € m/pc
99062	2-fold 1 1/2"	1	
99063	3-fold 1 1/2"	1	
99064	4-fold 1 1/2"	1	

Compression fittings, accessories kit and console set must be ordered separately

Brass large area round pipe manifold with separate arranged flow and return:

- control valve in flow
- thermostate valve in return
- Euroconus connection 3/4"
- flat sealing male screw with coupling ring 2"

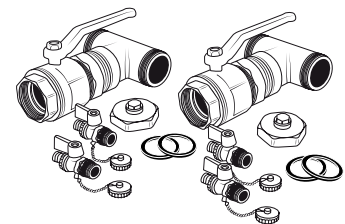


aquatherm orange system

MID CONNECTION SET FOR LARGE-AREA HEATING CIRCUIT MANIFOLD

with ball valve, for extension of Art.-No. 99062-99064

Art.-No.	Dimension	PU	Price € m/pc
99027	ball valve 2"	1	

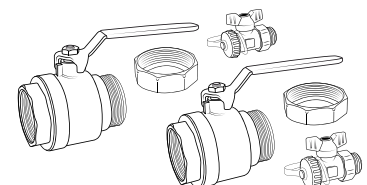


aquatherm orange system

ACCESSORIES KIT FOR LARGE AREA HEATING CIRCUIT MANIFOLD

Accessories kit consists of: ball valve set 1 1/2", end cap set 1 1/2", BFD-cock set 1/2"

Art.-No.	Dimension	PU	Price € m/pc
99000	1 1/2"	1	

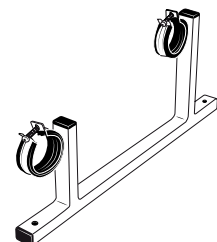


aquatherm orange system

CONSOLE FOR LARGE AREA HEATING CIRCUIT MANIFOLD

Art.-No.	Dimension	PU	Price € m/pc
99060	1 1/2"	1	

Attachment console, galvanized, clamps with noise protection inlay
Requirement: up to 12 circuits 2 pieces, from 13 circuits 3 pieces

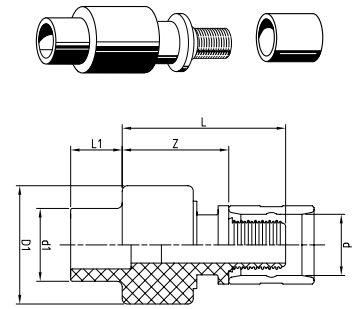


aquatherm orange system ADAPTER

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

Art.-No.	Dimension	d1	d	D1	Z	L	L1	PU	Price € m/pc
78298	aquatherm green pipe 20 mm x aquatherm orange system 14 mm	20	15	32,50	30,00	47,00	14,50	2	
78300	aquatherm green pipe 20 mm x aquatherm orange system 16 mm	20	16	32,50	30,00	46,00	14,50	2	
78302	aquatherm green pipe 20 mm x aquatherm orange system 20 mm	20	20	34,50	30,00	47,00	11,00	2	

Material: PP-R/brass



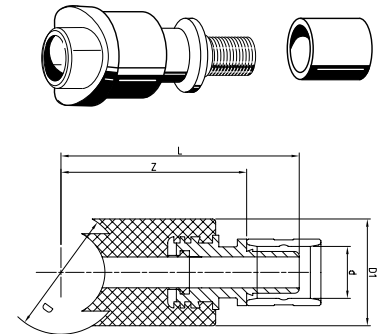
aquatherm grey pipe WELD-IN SADDLE ADAPTER

for PE-RT and PB pipes, including sliding sleeve

Art.-No.	Dimension	D	d	Z	L	D1	PU	Price € m/pc
78402	aquatherm green pipe 40 mm x aquatherm orange system 16 mm	40	16	60,00	77,00	34,50	2	
78404	aquatherm green pipe 40 mm x aquatherm orange system 20 mm	40	20	58,00	75,00	38,50	2	
78406	aquatherm green pipe 50 mm x aquatherm orange system 16 mm	50	16	65,00	82,00	32,50	2	
78408	aquatherm green pipe 50 mm x aquatherm orange system 20 mm	50	20	64,00	81,00	38,50	2	

one side for saddle welding - one side for sliding sleeve connection

Material: PP-R/brass

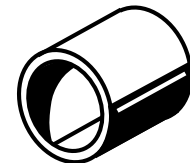


aquatherm grey pipe SPARE SLIDING SLEEVE

for PB pipes

Art.-No.	Dimension	PU	Price € m/pc
79986	10 mm	10	
79988	14 mm	10	
79990	16 mm	10	
79991	17 mm	10	
79992	20 mm	10	
79994	25 mm	10	

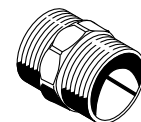
Material: brass



aquatherm orange system HEATING PIPE COUPLING ADAPTER

Art.-No.	Dimension	PU	Price € m/pc
95210	with euroconus	5	

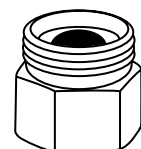
Suitable euroconus connector Art.-No.: 92100-92108



aquatherm orange system HEATING PIPE SCREW CONNECTION ADAPTER

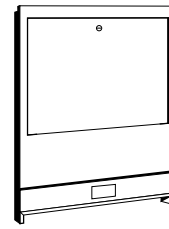
Art.-No.	Dimension	PU	Price € m/pc
95212	1/2" f - adapter for 1/2" m euroconus	5	
95214	1/2" m - adapter for 1/2" f euroconus	5	

Suitable euroconus connector Art.-No.: 92100-92108



aquatherm orange system UNIVERSAL MANIFOLD CABINET

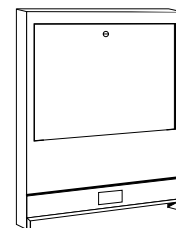
Art.-No.	Dimension	PU	Price € m/pc
93102	UP1, size 1 for 2 - 3 circuits, height = 700 - 850 mm, width = 400 mm, depth = 110 - 150 mm	1	
93104	UP2, size 2 for 4 - 6 circuits, height = 700 - 850 mm, width = 550 mm, depth = 110 - 150 mm	1	
93106	UP3, size 3 for 7 - 10 circuits, height = 700 - 850 mm, width = 750 mm, depth = 110 - 150 mm	1	
93108	UP4, Größe 4 für 11 - 12 Heizkreise, Höhe = 700 - 850 mm, Breite = 950 mm, Tiefe = 110 - 150 mm	1	
93110	UP5, size 5 for max. 12 circuits with heat distribution station, height = 700 - 850 mm, width = 1150 mm, depth = 110 - 150 mm	1	
93111	UP6, size 6 for max. 20 circuits in connection with mid connection, height = 700 - 850 mm, width = 1400 mm, depth = 110 - 150 mm	1	



- for concealed installation
- universal mounting, vertically and horizontally
 - infinitely variable
 - lower lining height-adaptable
 - prepressed lateral pipe passage
 - lateral bases, height-adjustable
 - made of hot galvanized sheet steel
 - white laquered design acc. to RAL 9010

aquatherm orange system UNIVERSAL-MANIFOLD CABINET

Art.-No.	Dimension	PU	Price € m/pc
93112	AP1, size 1 for 2 - 4 circuits, height = 730 mm, width = 455 mm, depth = 150 mm	1	
93114	AP2, size 2 for 5 - 7 circuits, height = 730 mm, width = 605 mm, depth = 150 mm	1	
93116	AP3, size 3 for 8 - 10 circuits, height = 730 mm, width = 805 mm, depth = 150 mm	1	
93118	AP4, size 4 for 11 - 12 circuits, height = 730 mm, width = 1005 mm, depth = 150 mm	1	
93124	AP5, size 5 for max. 20 circuits in connection with mid connection, height = 730 mm, width = 1400 mm, depth = 150 mm	1	



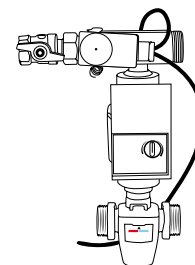
- for surface installation
- universal mounting, vertically and horizontally
 - infinitely variable
 - made of hot galvanized sheet steel
 - with laquered design acc. to RAL 9010
 - with detachable screed impact and pipe reversing plate

aquatherm orange system FIXED COMMAND CONTROL

Art.-No.	Dimension	PU	Price € m/pc
92162	1"	1	

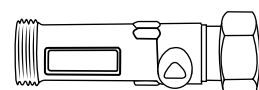
The adjustment and/or extension of an existing radiator system with underfloor heating can be performed safely, efficiently and well-priced with the aquatherm orange system fixed command control.

- Composed of:
- » injection mixing valve for control of flow temperature in the underfloor circuit
 - » circulation pump
 - » safty temperature limiter
 - » ball valve



aquatherm orange system FLOW INDICATOR FOR FIXED VALUE SETTING

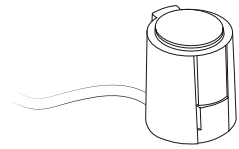
Art.-No.	Dimension	PU	Price € m/pc
92163	2-12 l/min.	1	



aquatherm orange system ACTUATOR

for heating circuit manifolds and heating circuit control valves - flow

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

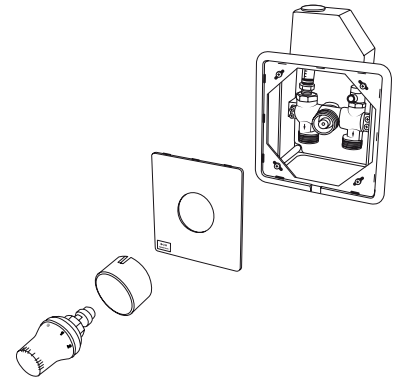


aquatherm orange system RETURN TEMPERATURE LIMITER

Art.-No.	Dimension	PU	Price € m/pc
94162		1	

Single room control for adjustment of

- return temperature
- room temperature
- with concealed case
- with cap
- with flow indicator
- with air valve

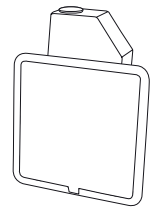


aquatherm orange system INDIVIDUAL ROOM CONTROL

Art.-No.	Dimension	PU	Price € m/pc
94163		1	

Single room control for adjustment of

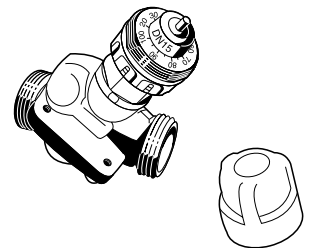
- return temperature
- room temperature
- with concealed case
- with cap
- with flow indicator
- with air valve



aquatherm orange system AB-QM COMBINATION VALVE

balancing and controlling valve for heating and cooling systems

Art.-No.	Dimension	PU	Price € m/pc
94165	DN 15 - 3/4"	1	



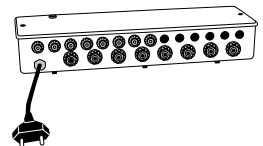
CONNECTION SYSTEMS, THERMOSTATS 230 VOLT (HEATING)

aquatherm orange system CONNECTION SYSTEM EV 230

230 Volt

Art.-No.	Dimension	PU	Price € m/pc
94240		1	

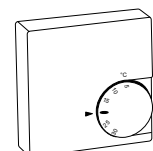
- up to 6 room thermostats connectable
- max. 14 actuators



aquatherm orange system ROOM THERMOSTAT

230 Volt - 50 Hz - 10 A - differential gap 0,5 K, prepared for night setback, white

Art.-No.	Dimension	PU	Price € m/pc
94207		1	



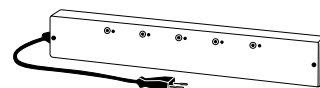
CONNECTION SYSTEMS, THERMOSTATS 230 VOLT - RADIO CONTROLLED (HEATING)

aquatherm orange system AUTOMATIC CONTROL, WIRELESS 868 A4

230 Volt

Art.-No.	Dimension	PU	Price € m/pc
94246		1	

up to 4 radio controls (wireless) connectable
10 actuators (230 volt)
operating voltage: 230 volt

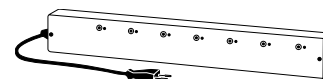


aquatherm orange system AUTOMATIC CONTROL, WIRELESS 868-A6

230 Volt

Art.-No.	Dimension	PU	Price € m/pc
94247		1	

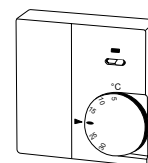
up to 6 radio controls (wireless) connectable
10 actuators (230 volt)
operating voltage: 230 volt



aquatherm orange system ROOM THERMOSTAT WIRELESS 868 R1

Art.-No.	Dimension	PU	Price € m/pc
94251		1	

Room thermostats with wireless radio transmission (battery)
temperature range: 5 - 30 °C

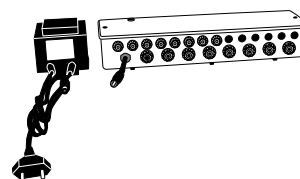


CONNECTION SYSTEMS, THERMOSTATS 24 VOLT (HEATING / HEATING AND COOLING)

aquatherm orange system CONNECTION SYSTEM EV 24 HK Hyg

Art.-No.	Dimension	PU	Price € m/pc
94252		1	

Connection options:
6 room temperature controls
14 actuators (24 volt)
Trafo
external switching via co-signal



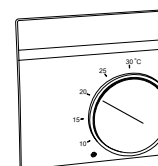
aquatherm orange system ROOM THERMOSTAT FOR HEATING AND COOLING

RHK 40122 N

24 Volt

Art.-No.	Dimension	PU	Price € m/pc
94254		1	

Room thermostat for heating and cooling in one system
Temperature range: 5 - 30 °C
Operating voltage: 24V
- suitable for wall installation and mounting on switch box



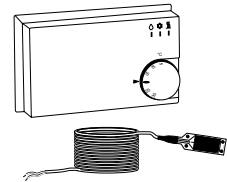
aquatherm orange system CONTROL FOR HEATING AND COOLING KLR-E

52558

24 volt

Art.-No.	Dimension	PU	Price € m/pc
94234		1	

Room thermostat with in-wall case for switch boxes acc. to DIN 49073
 connectable with dewpoint sensor
 Temperature range: 5 - 30 °C
 Operating voltage: 24V, 50/60 Hz

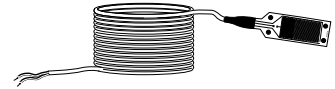


aquatherm orange system DEWPOINT SENSOR

24 volt

Art.-No.	Dimension	PU	Price € m/pc
94236		1	

Humidistat with flexible foil
 Length of supply = 10 m

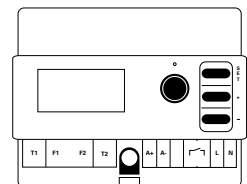


AUTOMATIC CONTROL FOR KEEPING AREAS SNOW-AND ICE-FREE

aquatherm orange system DIGITAL ICE- AND SNOW DETECTOR

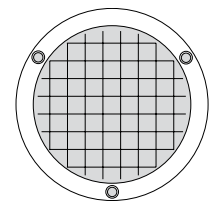
for activating open space heating systems if required

Art.-No.	Dimension	PU	Price € m/pc
99258		1	



aquatherm orange system OPEN SPACE SENSOR

Art.-No.	Dimension	PU	Price € m/pc
99259	diameter 68 mm	1	



aquatherm orange system ANTIFREEZER FOR OPEN-SPACE HEATING

Art.-No.	Dimension	PU	Price € m/pc
99743		25	

environmental friendly antifreezer concentrate basing on ethyleneglycol for open space heatings and surface collectors.
 Water pollution class: WGK 1



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aquatherm ti

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aquatherm Prefabrication

elbow 90°
 aquatherm green pipe
 aquatherm blue pipe
 aquatherm blue pipe ot

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elbow pre-insulated 90°
 aquatherm green pipe ti
 aquatherm blue pipe ti
 aquatherm blue pipe ot ti

109

pipe **one-sided** with flange adapter
 and loose flange **5.8 m**
 aquatherm green pipe
 aquatherm blue pipe
 aquatherm blue pipe ot

106

pipe **one-sided** with flange adapter
 and loose flange **11.6 m**
 aquatherm green pipe
 aquatherm blue pipe
 aquatherm blue pipe ot

107

pipe pre-insulated **one-sided** with
 flange adapter and loose flange **5.8 m**
 aquatherm green pipe ti
 aquatherm blue pipe ti
 aquatherm blue pipe ot ti

108

pipe pre-insulated **one-sided** with
 flange adapter and loose flange **11.6 m**
 aquatherm green pipe ti
 aquatherm blue pipe ti
 aquatherm blue pipe ot ti

109

pipe pre-insulated **two-sided** with
 flange adapter and loose flange **5.8 m**
 aquatherm green pipe ti
 aquatherm blue pipe ti
 aquatherm blue pipe ot ti

108

pipe pre-insulated **two-sided** with
 flange adapter and loose flange **11.6 m**
 aquatherm green pipe ti
 aquatherm blue pipe ti
 aquatherm blue pipe ot ti

108

pipe **two-sided** with flange adapter
 and loose flange **5.8 m**
 aquatherm green pipe
 aquatherm blue pipe
 aquatherm blue pipe ot

106

pipe **two-sided** with flange adapter
 and loose flange **11.6 m**
 aquatherm green pipe
 aquatherm blue pipe
 aquatherm blue pipe ot

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aquatherm grey pipe

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2418222	81	2470117	75	2512150	26	2513680	36	2515548	44
2418224	81	2470118	75	2512152	26	2513682	36	2515550	44
2418226	81	2470119	75	2512154	26	2513684	36	2515552	44
2418230	81	2470120	75	2512530	28	2513685	36	2515554	44
2418232	81	2470121	75	2512534	28	2513690	35	2541830	71
2418234	81	2470122	75	2512538	28	2513692	36	2541834	71
2418236	81	2470123	75	2512542	28	2513694	36	2541838	71
2418238	81	2470124	75	2512544	28	2513696	36	2541842	71
2418242	81	2470125	75	2512546	28	2513698	36	2541930	72
2418244	81	2470126	75	2512548	28	2513699	36	2541934	72
2418246	81	2470129	75	2512550	28	2513700	36	2541938	72
2418248	81	2470130	75	2512552	28	2513804	35	2541942	72
2418250	81	2470133	75	2512554	28	2513806	36	2570126	17
2418252	81	2470134	75	2513026	30	2513808	36	2570130	17
2418256	81	2470137	75	2513030	30	2513810	36	2570134	17
2418258	81	2470138	75	2513034	30	2513812	36	2570138	17
2418260	81	2470711	75	2513038	30	2513813	36	2570142	17
2418262	81	2470712	75	2513130	29	2513814	36	2570144	17
2418264	81	2511174	24	2513134	29	2513815	36	2570146	17
2418266	81	2511176	24	2513138	29	2513821	35	2570148	17

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2570154	17	2713262	79	2713462	80	2718432	82	5024070	138
2570180	18	2713264	79	2713466	80	2718436	82	5024080	138
2570184	18	2713266	79	2718126	78	2718438	82	5024090	138
2570188	18	2713268	79	2718130	78	2718440	82	5024100	138
2570192	18	2713290	79	2718134	78	2718442	82	5024120	138
2570194	18	2713292	79	2718138	78	2718444	82	5024140	138
2570196	18	2713294	79	2718142	78	2718446	82	5024160	138
2570198	18	2713296	79	2718144	78	2718448	82	5024180	138
2570200	18	2713298	79	2718256	81	2718450	82	5024200	138
2570202	18	2713300	79	2718258	81	2718454	82	5024225	138
2570204	18	2713302	79	2718260	81	2718458	82	5024250	138
2711274	85	2713304	79	2718262	81	2718462	82	5024275	138
2711275	86	2713332	80	2718264	81	2718466	82	5024300	138
2711276	85	2713334	80	2718266	81	2770125	75	5024325	138
2711277	86	2713336	80	2718268	81	2770126	75	5024350	138
2711282	85	2713338	80	2718290	81	2770129	75	5024375	138
2711283	86	2713340	80	2718292	81	2770130	75	5024400	138
2711284	85	2713342	80	2718294	81	2770133	75	5024425	138
2711285	86	2713344	80	2718296	81	2770134	75	5024450	138
2711288	85	2713346	80	2718298	81	2770137	75	5024475	138
2711289	86	2713350	80	2718300	81	2770138	75	5024500	138
2711290	85	2713382	80	2718302	81	2770141	75	5028040	138
2711291	86	2713384	80	2718304	81	2770142	75	5028050	138
2711296	85	2713386	80	2718332	82	2770143	75	5028060	138
2711297	86	2713388	80	2718334	82	2770144	75	5028070	138
2711298	85	2713390	80	2718336	82	5000040	143	5028080	138
2711299	86	2713392	80	2718338	82	5000050	143	5028090	138
2711304	85	2713394	80	2718340	82	5000060	143	5028100	138
2711305	86	2713396	80	2718342	82	5000070	143	5028120	138
2711306	85	2713400	80	2718344	82	5000080	143	5028140	138
2711307	86	2713402	80	2718346	82	5000090	143	5028160	138
2712126	77	2713406	80	2718350	82	5000100	143	5028180	138
2712130	77	2713408	80	2718382	82	5000120	143	5028200	138
2712134	77	2713410	80	2718384	82	5000140	143	5028225	138
2712138	77	2713412	80	2718386	82	5000160	143	5028250	138
2712142	77	2713414	80	2718388	82	5000180	143	5028275	138
2712144	77	2713416	80	2718390	82	5000200	143	5028300	138
2712526	76	2713418	80	2718392	82	5000225	143	5028325	138
2712530	76	2713420	80	2718394	82	5000250	143	5028350	138
2712534	76	2713424	80	2718396	82	5000275	143	5028375	138
2712538	76	2713428	80	2718400	82	5000300	143	5028400	138
2712542	76	2713432	80	2718402	82	5000325	143	5028425	138
2712544	76	2713436	80	2718406	82	5000350	143	5028450	138
2713126	77	2713438	80	2718408	82	5000375	143	5028475	138
2713130	77	2713440	80	2718410	82	5000400	143	5028500	138
2713134	77	2713442	80	2718412	82	5000425	143	5032040	139
2713138	77	2713444	80	2718414	82	5000450	143	5032050	139
2713142	77	2713446	80	2718416	82	5000475	143	5032060	139
2713144	77	2713448	80	2718418	82	5000500	143	5032070	139
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5032140	139	5040225	140	5056325	141	5068425	142	7270841	106
5032160	139	5040250	140	5056350	141	5068450	142	7270842	107
5032180	139	5040275	140	5056375	141	5068475	142	7270843	106
5032200	139	5040300	140	5056400	141	5068500	142	7270844	107
5032225	139	5040325	140	5056425	141	5080040	142	7310229	106
5032250	139	5040350	140	5056450	141	5080050	142	7310230	106
5032275	139	5040375	140	5056475	141	5080060	142	7310233	106
5032300	139	5040400	140	5056500	141	5080070	142	7310234	106
5032325	139	5040425	140	5060040	141	5080080	142	7310237	106
5032350	139	5040450	140	5060050	141	5080090	142	7310238	106
5032375	139	5040475	140	5060060	141	5080100	142	7310241	106
5032400	139	5040500	140	5060070	141	5080120	142	7310242	106
5032425	139	5048040	140	5060080	141	5080140	142	7310243	106
5032450	139	5048050	140	5060090	141	5080160	142	7310244	106
5032475	139	5048060	140	5060100	141	5080180	142	7310245	106
5032500	139	5048070	140	5060120	141	5080200	142	7310246	106
5036040	139	5048080	140	5060140	141	5080225	142	7310247	106
5036050	139	5048090	140	5060160	141	5080250	142	7310248	106
5036060	139	5048100	140	5060180	141	5080275	142	7310329	106
5036070	139	5048120	140	5060200	141	5080300	142	7310330	107
5036080	139	5048140	140	5060225	141	5080325	142	7310333	106
5036090	139	5048160	140	5060250	141	5080350	142	7310334	107
5036100	139	5048180	140	5060275	141	5080375	142	7310337	106
5036120	139	5048200	140	5060300	141	5080400	142	7310338	107
5036140	139	5048225	140	5060325	141	5080425	142	7310341	106
5036160	139	5048250	140	5060350	141	5080450	142	7310342	107
5036180	139	5048275	140	5060375	141	5080475	142	7310343	106
5036200	139	5048300	140	5060400	141	5080500	142	7310344	107
5036225	139	5048325	140	5060425	141	6256056	145	7310345	106
5036250	139	5048350	140	5060450	141	6256060	145	7310346	107
5036275	139	5048375	140	5060475	141	6256120	145	7310347	106
5036300	139	5048400	140	5060500	141	7212130	107	7310348	107
5036325	139	5048425	140	5068040	142	7212134	107	7312131	107
5036350	139	5048450	140	5068050	142	7212138	107	7312135	107
5036375	139	5048475	140	5068060	142	7212142	107	7312139	107
5036400	139	5048500	140	5068070	142	7212144	107	7312143	107
5036425	139	5056040	141	5068080	142	7270729	106	7312145	107
5036450	139	5056050	141	5068090	142	7270730	106	7312147	107
5036475	139	5056060	141	5068100	142	7270733	106	7312149	107
5036500	139	5056070	141	5068120	142	7270734	106	7412130	109
5040040	140	5056080	141	5068140	142	7270737	106	7412134	109
5040050	140	5056090	141	5068160	142	7270738	106	7412138	109
5040060	140	5056100	141	5068180	142	7270741	106	7412142	109
5040070	140	5056120	141	5068200	142	7270742	106	7412144	109
5040080	140	5056140	141	5068225	142	7270743	106	7470729	108
5040090	140	5056160	141	5068250	142	7270744	106	7470730	108
5040100	140	5056180	141	5068275	142	7270829	106	7470733	108
5040120	140	5056200	141	5068300	142	7270830	107	7470734	108
5040140	140	5056225	141	5068325	142	7270833	106	7470737	108

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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 MS	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 and Stabi composite pipe: high working stress at lower wall thickness and higher flow rate

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

S = single layer

MS = multilayer stabi - integrated aluminium-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 & MS		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	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	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	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	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	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	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	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	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	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	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	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	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 159 and 160

Temperature	Years of service	aquatherm blue pipe SDR 17.6 MF		aquatherm blue pipe SDR 11 MF & MF OT S aquatherm lilac pipe SDR 11 S		aquatherm green pipe SDR 7.4 MF		aquatherm green pipe SDR 9 MF RP	
		Permissible working pressure in bar and (psi)							
		bar	(psi)	bar	(psi)	bar	(psi)	bar	(psi)
-20 °C up to 5 °C	1	10,9	(158)	23,8	(345)				
	5	10,3	(149)	22,3	(323)				
	10	10,0	(145)	21,7	(315)				
	15	9,6	(139)	21,0	(305)				
	50	9,4	(136)	20,4	(296)				
	100	9,1	(132)	19,9	(289)				
10 °C	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)
	100	10,8	(157)	23,5	(341)	25,2	(366)	26,3	(381)
15 °C	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)
	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)
20 °C	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)
	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)
30 °C	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)
	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)
40 °C	1	7,9	(115)	17,1	(248)	20,5	(297)	18,6	(270)
	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)
50 °C	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)
	100	5,5	(80)	11,9	(173)	14,1	(205)	14,3	(207)
60 °C	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)
	50	4,7	(68)	10,3	(149)	12,1	(175)	12,2	(177)
70 °C	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)
	50	3,1	(45)	6,8	(99)	8,1	(117)	10,2	(148)
75 °C	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)
	50	2,5	(36)	5,4	(78)	6,7	(97)	9,3	(135)
80 °C	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)
	1	3,3	(48)	7,2	(104)	8,7	(126)	7,8	(113)
90 °C	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

MS = multilayer stabi - integrated aluminium-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 & aquatherm lilac pipe pipe systems for the application in potable water and heating and for reclaimed and recycled water	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	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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