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# PRODUCT CATALOGUE 2015



**aquatherm**

state of the pipe



## NEW ARTICLES SINCE THE LAST VERSION

<b>Page</b>	<b>Article-No.</b>	<b>Article</b>
		<b>aquatherm green pipe aquatherm blue pipe aquatherm lilac pipe</b>
39	20197 & 20198	aquatherm green pipe flow-through back plate elbow (new design)
75	2470711 & 2470712	aquatherm blue pipe SDR 11ot ti pipe 32 mm
	1370741 & 1370742	aquatherm green pipe SDR 9 ti pipe 315 mm
76	1312542	aquatherm green pipe SDR 9 ti 315 mm elbow 45°
77	1312142	aquatherm green pipe SDR 9 ti 315 mm elbow 90°
77	1313142	aquatherm green pipe SDR 9 ti 315 mm branch
78	1318142	aquatherm green pipe SDR 9 ti 315 mm cross-over branch
80	1313406-1313432	aquatherm green pipe SDR 9 ti 315 mm red.-branch
82	1318406-1318432	aquatherm green pipe SDR 9 ti 315 mm red. cross-over branch
		<b>aquatherm grey pipe</b>
90	779050 & 779052	aquatherm grey pipe flow-through back plate elbow (new design)
111	779189	aquatherm grey pipe transition piece with female thread 25 mm
112	779199	aquatherm grey pipe transition piece with male thread 25 mm
107	777030 & 777032	aquatherm grey pipe multi layer metal composite pipe with insulation
108	79050 & 79052	aquatherm grey pipe flow-through back plate elbow (new design)
		<b>aquatherm black system</b>
121-126	5000040 / 5024040 5028040 / 5032040 5036040 / 5040040 5048040 / 5056040 5060040 / 5068040 5080040	aquatherm black system heating and cooling grids length 40 cm
129	81192 & 81193	aquatherm black system adhesive
129	81194 & 81195	aquatherm black system solvent
130	81099-81115	aquatherm black system grid connection sets
130	50283	aquatherm black system welding tool 14x24 mm
		<b>aquatherm orange system</b>
132	50823	17 mm false jaw for the aquatherm grey pipe-expanding tool
136	92330	aquatherm orange system mid connection set with ball valve
137	99062-99064	aquatherm orange system large-area heating circuit manifold
137	99027	aquatherm orange system large-area heating circuit manifold mid connection set
137	99099	aquatherm orange system large-area heating circuit manifold accessories kit
137	99060	aquatherm orange system large-area heating circuit manifold console
139	93111 & 93124	aquatherm orange system universal manifold cabinet UP 6 & AP 5
140	94102 & 94103	aquatherm orange system actuator 230 & 24 volt (new design)
140	94162	aquatherm orange system return temperature limiter
140	94140	aquatherm orange system connection system 230 Volt (new design)
141	94146 & 94147	aquatherm orange system automatic control (up to 6 and 12 radio controls wireless connectable)
141	94145	aquatherm orange system system transformer 24 volt
141	94151	aquatherm orange system room thermostat wireless (new design)
141	94152	aquatherm orange system connection system heating/cooling 24 volt (new design)
141	94154	aquatherm orange system room thermostat heating/cooling 24 volt (new design)

All prices are for piece, m, m<sup>2</sup>, kg or set.

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](http://www.aquatherm.de).

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

## TABLE OF CONTENTS

### CHAPTER 1 PIPE SYSTEMS *from page 7*

- 07 – aquatherm green pipe
- 12 – aquatherm blue pipe
- 16 – aquatherm lilac pipe
- 17 – Fastening material
- 18 – Fittings
- 34 – Weld-in saddle
- 39 – Flow-through back plate elbow
- 40 – Threaded connections and accessories
- 45 – Transition pieces
- 49 – Screwed connections and counter parts
- 52 – Distributors
- 53 – Valves and accessories
- 59 – Cutting tools, welding devices
- 60 – Welding machines and welding jig
- 60 – Butt welding machines & electrofusion device
- 62 – Peeling tools
- 64 – Saddle welding tools
- 66 – Drills & saddle peeling tool
- 67 – Overview: Tools and equipment

### CHAPTER 2 aquatherm ti *from page 73*

- 75 – Pipes
- 76 – Elbow
- 77 – Branch
- 78 – Cross-over branch
- 79 – Red. branch
- 81 – Red. cross-over branch
- 83 – Socket
- 86 – Accessories

### CHAPTER 3 aquatherm grey pipe *from page 87*

- 88/107 – Pipes
- 89 – Accessories
- 90/108 – Flow-through back plate elbow
- 90/109 – Fittings
- 96 – Radiator valves and compression fittings
- 97/114 – Manifolds and accessories
- 98/114 – Universal manifolds
- 101/116 – Radiator connection elements
- 104 – Tools

### CHAPTER 4 aquatherm black system *from page 118*

- 121 – Grids and accessories
- 126 – Dry wall heating elements
- 127 – Grids for ceiling panels and accessories
- 129 – Adapter & tools

### CHAPTER 5 aquatherm orange system *from page 131*

- 132 – Pipes and accessories
- 134 – System elements and accessories
- 136 – Heating circuit manifold
- 136 – Valves and accessories
- 139 – Manifold cabinets
- 139 – Controls and accessories
- 141 – Connection systems, thermostats 230 volt (heating)
- 141 – Connection systems, thermostats 230 volt - radio controlled (heating)
- 141 – Connection systems, thermostats 24 volt (heating/ heating and cooling)
- 142 – Automatic controls for keeping areas snow- and ice-free
- 143 – Content
- 144 – Index
- 159 – Working Pressure

# 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	old brand name	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	fusiotherm SDR11	10208 . . . 10248
2	aquatherm	green pipe	SDR 7.4	S		PP-R/GF0/E	fusiotherm SDR7.4	10806 . . . 10908
3	aquatherm	green pipe	SDR 6	S		PP-R/GF0/E	fusiotherm SDR6	10006 . . . 10110
4	aquatherm	green pipe	SDR 7.4	MS			fusiotherm Stabi-composite pipe	70806 . . . 70856
5	aquatherm	green pipe	SDR 7.4	MF		PP-R/GF7/E	fusiotherm faser composite pipe	70708 . . . 70738
6	aquatherm	green pipe	SDR 7.4	MF	UV	inliner like 5 with black PE-coating	fusiotherm faser composite pipe UV	70758 . . . 70788
7	aquatherm	green pipe	SDR 9	MF	TI	inliner like 5 with PU-Insulation and black PE-casing	fusiotherm faser composite pipe ISO	1370711 . . . 1370738
8	aquatherm	green pipe	SDR 9	MF	RP	PP-RP/GF7/E	aquatherm green pipe faser composite pipe	370712 . . . 370744
9	aquatherm	green pipe	SDR 9	MF	RP UV	inliner like 8 with black PE-coating	aquatherm green pipe faser composite pipe UV	370762 . . . 370794
10	aquatherm	blue pipe	SDR 11	S		PP-R/GF0/E	Climatherm SDR11	2010208 . . . 2010312
11	aquatherm	blue pipe	SDR 7.4 / SDR 11 / SDR 17.6	MF		PP-R/GF7/E	Climatherm faser composite pipe SDR 7.4 / SDR 11 / SDR 17.6	2070708 . . . 2570154
12	aquatherm	blue pipe	SDR 7.4 / SDR 11	MF	UV	inliner like 11 with black PE-coating	Climatherm faser composite pipe SDR7.4/SDR11 UV	2070162 . . . 2070762
13	aquatherm	blue pipe	SDR 7.4 / SDR 11	MF	OT	inliner like 11 with EVOH O2-barrier	Climatherm faser composite pipe SDR7.4/SDR11 OT	2170114 . . . 2170712
14	aquatherm	blue pipe	SDR 7.4 / SDR11	MF	TI	inliner like 11 with PU-Insulation and black PE-casing	Climatherm faser composite pipe SDR7.4/SDR11 ISO	2270111 . . . 2270142
15	aquatherm	blue pipe	SDR 7.4 / SDR11	MF	OT-TI	inliner like 13 with PU-insulation and black PE-casing	Climatherm faser composite pipe SDR7.4/SDR11 OT ISO	2470711 . . . 2470138
16	aquatherm	red pipe	SDR 7.4	MF	HI	PP-R/GF7/B-s1,d0	aquatherm firestop	4170130 . . . 4170726
17	aquatherm	lilac pipe	SDR 7.4 / SDR11	S		PP-R/GF0/E	aquatherm lilac	9010212 . . . 9010808
18	aquatherm	black system					OT	climasystem
19	aquatherm	orange system		S			OT	aquatherm floor heating
20	aquatherm	grey pipe						aquatherm SHT



**Fields of application**



potable water application



heating system construction



connection heating and cooling



underfloor heating



wall heating



ceiling heating and cooling



industrial floor cooling



industrial floor heating



chilled water technology



agriculture



sports floor heating and cooling



swimming-pool technology



chemical transport



rainwater application



irrigation



fire protection sprinkler-systems



application in the field of ship building



district heating pipeline systems



geothermal

**short cuts structure of pipe**

S	single
M	multilayer
MF	multilayer faser
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

**fusiotherm®** - the innovative multi-purpose pipe that was a revolution for the plastic pipe industry and has evolved over decades will be called **aquatherm green pipe®**. The pipe launched under this new name in several international markets three years ago and quickly came to be recognized for the highest quality and environmental responsibility. Its environmental benefits as well as the world-famous and often copied colour of the pipe system are the basis for the new name.

# aquatherm green pipe

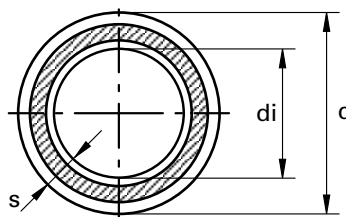
## Pipe system made of polypropylene

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

## 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
- Standard:** SKZ HR 3.28, ASTM F 2389, ISO 21003, SKZ A632/A644
- Colour:** green with 4 dark green stripes
- Form supplied:** ø 32-125 mm straight lengths 4 m  
ø 160-355 mm straight lengths 5.8 m
- Packing Unit:** PU in meter
- Application:**



Mechanically stabilized through a fibre mix integrated in the middle layer of the 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>										
9	370712	32	3,6	24,8	0,483	0,317	25	40		
	370714	40	4,5	31,0	0,754	0,499	32	40		
	370716	50	5,6	38,8	1,182	0,761	40	20		
	370718	63	7,1	48,8	1,869	1,231	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	12,489	150	5,8		
	370738	250	27,9	194,2	29,605	19,423	200	5,8		
	370742	315	35,2	244,6	46,966	30,877	250	5,8		
	370744	355	39,7	275,6	59,625	39,203	-	5,8		

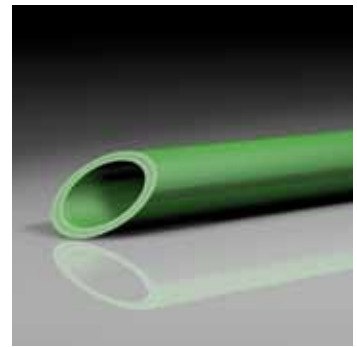
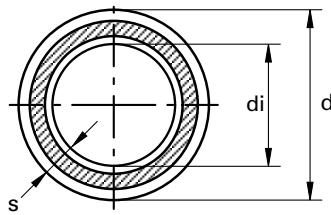
## aquatherm green pipe SDR 7.4 MF

**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

**Colour:** green with 4 dark green stripes  
**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:**




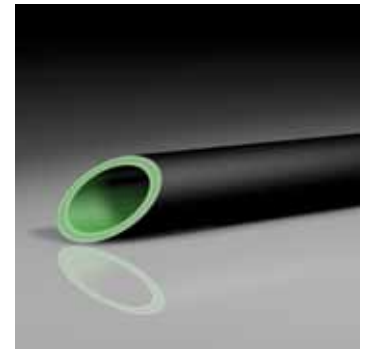
Mechanically stabilized through a fibre mix integrated in the middle layer of the fusiolen® PP-R.

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	0,159	15	100	
	70710	25	3,5	18,0	0,254	0,247	20	100	
	70712	32	4,4	23,2	0,423	0,395	25	40	
	70714	40	5,5	29,0	0,660	0,610	32	40	
	70716	50	6,9	36,2	1,029	0,950	40	20	
	70718	63	8,6	45,8	1,647	1,490	50	20	
	70720	75	10,3	54,4	2,323	2,115	-	20	
	70722	90	12,3	65,4	3,358	3,030	65	12	
	70724	110	15,1	79,8	4,999	4,530	80	8	
	70726	125	17,1	90,8	6,472	6,211	-	4	
	<i>Butt welding</i>								
	70730	160	21,9	116,2	10,599	9,750	125	5,8	
	70734	200	27,4	145,2	16,558	15,005	150	5,8	
70738	250	34,2	181,6	25,901	23,470	175	5,8		
	315-355	<i>Dimensions 315 and 355 mm see aquatherm green pipe SDR 9 MF RP on page 7</i>							



## aquatherm green pipe SDR 9 MF RP UV

<b>Structure of pipe:</b>	MF = multilayer, with fibre reinforced
<b>Special feature of pipe:</b>	RP (raised pressure), UV resistant
<b>Material:</b>	fusiolen PP-RP
<b>Pipe series:</b>	SDR 9/S 4
<b>Standards:</b>	SKZ HR 3.28, ASTM F 2389, ISO 21003, SKZ A632/A644
<b>Colour:</b>	inner layer: green with 4 dark green stripes outer layer: black
<b>Form supplied:</b>	ø 32-125 mm straight lengths 4 m ø 160-355 mm straight lengths 5.8 m
<b>Packing Unit:</b>	PU in meter
<b>Application:</b>	

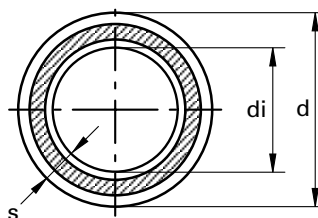


Resistant against UV-rays. Mechanically stabilized through a faser mix integrated in the middle layer of the fusiolen® PP-R.

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
	<i>Socket welding</i>								
	370762	32	3,6	24,8	0,483	0,399	25	40	
	370764	40	4,5	31,0	0,754	0,591	32	40	
	370766	50	5,6	38,8	1,182	0,895	40	20	
	370768	63	7,1	48,8	1,869	1,397	50	20	
	370770	75	8,4	58,2	2,659	1,929	-	20	
	370772	90	10,1	69,8	3,825	2,745	65	12	
9	370774	110	12,3	85,4	5,725	4,169	80	8	
	370776	125	14,0	97,0	7,386	5,382	100	4	
	<i>Butt welding</i>								
	370780	160	17,9	124,2	12,109	8,466	125	5,8	
	370784	200	22,4	155,2	18,908	13,196	150	5,8	
	370788	250	27,9	194,2	29,605	20,170	200	5,8	
	370792	315	35,2	244,6	46,966	31,816	250	5,8	
	370794	355	39,7	275,6	59,625	40,262	-	5,8	

## aquatherm green pipe SDR 7.4 MF UV

- Structure of pipe:** MF = multilayer, with fibre reinforced
- Special feature of pipe:** UV resistant
- Material:** fusiolen PP-R
- Pipe series:** SDR 7.4/S 3.2
- Standards:** SKZ HR 3.28, ASTM F 2389, CSA B 137.11, ISO 21003
- Colour:** outer layer: black  
inner layer: green
- 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:**

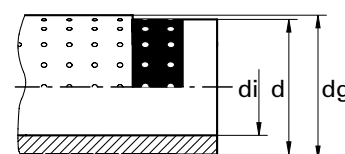
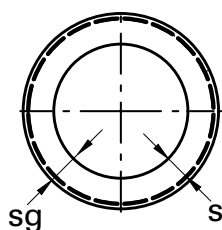


Resistant against UV-rays. Mechanically stabilized through a fiber mix integrated in the middle layer of the fusiolen® PP-R.

SDR	Art.-No.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg]	DN	PU [m]	Price € m/pc
<i>Socket welding</i>									
7.4	70758	20	2,8	14,4	0,163	0,211	15	100	
	70760	25	3,5	18,0	0,254	0,316	20	100	
	70762	32	4,4	23,2	0,423	0,488	25	40	
	70764	40	5,5	29,0	0,660	0,733	32	40	
	70766	50	6,9	36,2	1,029	1,108	40	20	
	70768	63	8,6	45,8	1,647	1,697	50	20	
	70770	75	10,3	54,4	2,323	2,363	50	20	
	70772	90	12,3	65,4	3,358	3,400	65	12	
	70774	110	15,1	79,8	4,999	5,093	80	8	
	70776	125	17,1	90,8	6,472	6,450	-	4	
<i>Butt welding</i>									
	70780	160	21,9	116,2	10,599	10,415	100	5,8	
	70784	200	27,4	145,2	16,550	15,987	150	5,8	
	70788	250	34,2	181,6	25,888	24,932	175	5,8	
		<b>315-355</b>	<i>Dimensions 315 and 355 mm see aquatherm green pipe SDR 9 MF RP UV on page 9</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
- Application:**

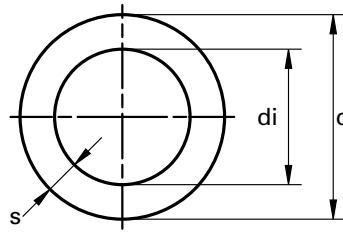


Mechanically stabilized through integrated aluminium-layer

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

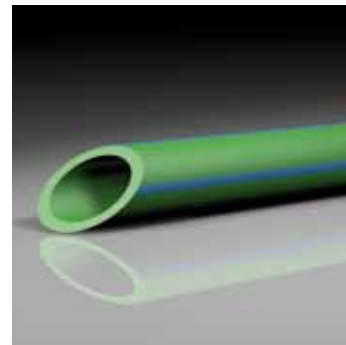
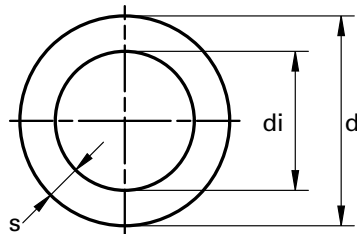
**Structure of pipe:** s (single)  
**Material:** fusiolen PP-R  
**Pipe series:** SDR 6 / S 2.5 & SDR 7.4 / S 3.2  
**Standards:** DIN 8077, DIN 8078, DIN EN ISO 15874, ASTM F 2389, CSA B 137.11  
**Colour:** green  
**Form supplied:** 4 m straight lengths, also\* in coils  
**Packing Unit:** PU in 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	0,171	12	100	
	10010	25	4,2	16,6	0,216	0,266	15	100	
	10012	32	5,4	21,2	0,353	0,428	20	40	
	10014	40	6,7	26,6	0,555	0,660	25	40	
	10016	50	8,3	33,4	0,876	1,054	32	20	
	10018	63	10,5	42,0	1,385	1,697	40	20	
	10020	75	12,5	50,0	1,963	2,328	50	20	
	10022	90	15,0	60,0	2,826	3,415	60	12	
	10024	110	18,3	73,4	4,229	5,150	65	8	
	10106*	16	2,7	10,6	0,088	0,111	10	100	
10108*	20	3,4	13,2	0,137	0,172	12	100		
10110*	25	4,2	16,6	0,216	0,260	15	100		
7.4	10806	16	2,2	11,6	0,106	0,098	12	100	
	10808	20	2,8	14,4	0,163	0,152	15	100	
	10810	25	3,5	18,0	0,254	0,235	20	100	
	10812	32	4,4	23,2	0,423	0,375	25	40	
	10814	40	5,5	29,0	0,660	0,580	32	40	
	10816	50	6,9	36,2	1,029	0,905	40	20	
	10818	63	8,6	45,8	1,647	1,420	50	20	
	10906*	16	2,2	11,6	0,106	0,100	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
- 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	Socket welding								
	10208	20	1,9	16,2	0,206	0,109	15	100	
	10210	25	2,3	20,4	0,327	0,165	20	100	
	10212	32	2,9	26,2	0,539	0,265	25	40	
	10214	40	3,7	32,6	0,834	0,415	32	40	
	10216	50	4,6	40,8	1,307	0,645	40	20	
	10218	63	5,8	51,4	2,074	1,015	50	20	
	10220	75	6,8	61,4	2,959	1,415	65	20	
	10222	90	8,2	73,6	4,252	2,045	80	12	
	10224	110	10,0	90,0	6,359	3,136	-	8	
	10226	125	11,4	102,2	8,199	3,927	100	4	
	10308*	20	1,9	16,2	0,206	0,109	15	100	
	10310*	25	2,3	20,4	0,327	0,158	20	100	
	10312*	32	2,9	26,2	0,539	0,257	25	50	
	Butt welding								
	10230	160	14,6	130,8	13,430	6,416	125	5,8	
	10234	200	18,2	163,6	21,010	9,991	150	5,8	
	10238	250	22,7	204,6	32,861	15,540	200	5,8	
	10242	315	28,6	257,8	52,172	25,700	250	5,8	
	10244	355	32,2	290,6	66,325	31,300	300	5,8	
10246 <sup>1)</sup>	400	36,3	327,6	84,290	41,400	300	5,8		
10248 <sup>1)</sup>	450	40,9	368,2	106,477	52,400	400	5,8		

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

**climatherm** our specialty for distributing cooling and heating in closed systems as well as in several industrial applications, will become **aquatherm blue pipe**. This system was developed 10 years ago in order to prevent corrosion in air conditioning 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.

# aquatherm blue pipe

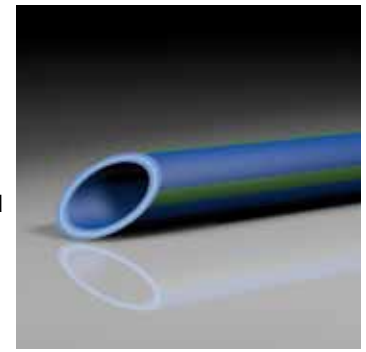
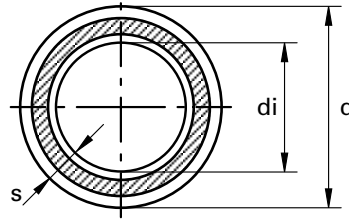
**Pipe system made of polypropylene**

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
2070708 ... 2070154	climatherm faser composite pipe SDR7.4/SDR11/SDR 17.6	aquatherm	blue pipe	SDR 7.4/SDR 11/SDR 17.6	MF		PP-R
2070162 ... 2570204	climatherm faser composite pipe SDR7.4/SDR11/SDR17.6 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
2270111 ... 2770142	climatherm faser composite pipe SDR7.4/SDR11 ISO	aquatherm	blue pipe	SDR 11/SDR 17.6	MF	TI	PP-R
2470711 ... 2470138	climatherm faser composite pipe SDR7.4/SDR11 OT ISO	aquatherm	blue pipe	SDR SDR 11	MF	OT-TI	PP-R

## 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:**

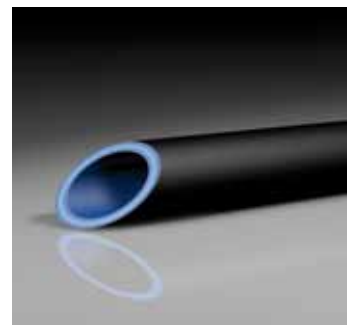
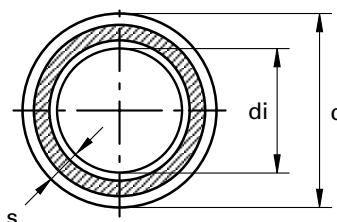


Mechanically stabilized through a fibre mix integrated in the middle layer of the fusiolen® PP-R.

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	0,159	15	100		
	2070710	25	3,5	18,0	0,254	0,244	20	100		
	2070712	32	4,4	23,2	0,423	0,275	25	40		
11	2070112	32	2,9	26,2	0,539	0,285	25	40		
	2070114	40	3,7	32,6	0,834	0,435	32	40		
	2070116	50	4,6	40,8	1,307	0,675	40	20		
	2070118	63	5,8	51,4	2,074	1,065	50	20		
	2070120	75	6,8	61,4	2,959	1,482	65	20		
	2070122	90	8,2	73,6	4,252	2,145	80	12		
	2070124	110	10,0	90,0	6,359	3,175	-	8		
	2070126	125	11,4	102,2	8,199	4,118	100	4		
	<i>Butt welding</i>									
		2070130	160	14,6	130,8	13,430	6,728	125	5,8	
	2070134	200	18,2	163,6	21,010	10,480	150	5,8		
	2070138	250	22,7	204,6	32,861	16,300	200	5,8		
	2070142	315	28,6	257,8	52,172	25,700	250	5,8		
	2070144	355	32,2	290,6	66,29	33,034	300	5,8		
	2070146	400	36,3	327,6	84,290	41,400	300	5,8		
	2070148	450	40,9	368,2	106,477	52,400	400	5,8		
<i>Socket welding</i>										
17.6	2570126	125	7,1	110,8	9,637	2,850	100	4		
	<i>Butt welding</i>									
		2570130	160	9,1	141,8	15,792	4,360	150	5,8	
		2570134	200	11,4	177,2	24,661	6,800	200	5,8	
		2570138	250	14,2	221,6	38,568	10,570	250	5,8	
		2570142	315	17,9	279,2	61,223	16,740	300	5,8	
		2570144	355	20,1	314,8	77,832	21,210	350	5,8	
		2570146	400	22,7	354,6	98,756	26,930	350	5,8	
		2570148	450	25,5	399,0	125,036	34,020	400	5,8	
		2570150	500	28,4	443,2	154,272	42,070	450	5,8	
		2570152	560	31,7	496,6	193,688	52,550	500	5,8	
	2570154	630	35,7	558,6	245,070	66,540	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 160-250 mm straight lengths 5.8 m
- Packing Unit:** PU in meter
- Application:**

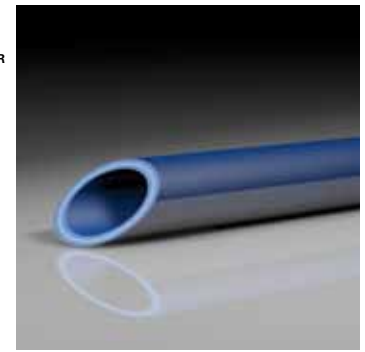
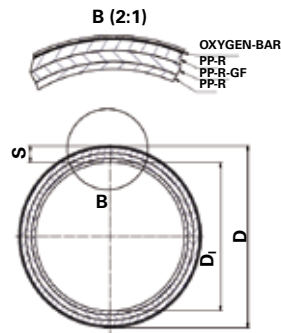


UV-resistant. Mechanically stabilized by a fibre mixture, integrated in the middle layer of fusiolen PP-R.

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	0,209	15	100		
	2070760	25	3,5	18,0	0,254	0,313	20	100		
	2070762	32	4,4	23,2	0,423	0,345	20	40		
11	2070162	32	2,9	26,2	0,539	0,375	25	40		
	2070164	40	3,7	32,6	0,834	0,554	32	40		
	2070166	50	4,6	40,8	1,307	0,825	40	20		
	2070168	63	5,8	51,4	2,074	1,257	50	20		
	2070170	75	6,8	61,4	2,959	1,707	65	20		
	2070172	90	8,2	73,6	4,252	2,483	80	12		
	2070174	110	10,0	90,0	6,359	3,688		8		
	2070176	125	11,4	102,2	8,199	4,673	100	4		
	<i>Butt welding</i>									
	11	2070180	160	14,6	130,8	13,430	7,512	125	5,8	
2070184		200	18,2	163,6	21,010	11,411	150	5,8		
2070188		250	22,7	204,6	32,861	17,754	200	5,8		
2070192		315	28,6	257,8	52,172	26,951	250	5,8		
2070194		355	32,2	290,6	66,292	33,673	300	5,8		
2070196		400	36,3	327,4	84,145	42,565	300	5,8		
2070198		450	40,9	368,2	106,423	53,708	400	5,8		
17.6		2570180	160	9,1	141,8	15,784	4,886	150	5,8	
		2570184	200	11,4	177,2	24,649	7,578	200	5,8	
		2570188	250	14,2	221,6	38,549	11,436	250	5,8	
	2570192	315	17,9	279,2	61,193	17,856	300	5,8		
	2570194	355	20,1	314,8	77,793	22,495	350	5,8		
	2570196	400	22,7	354,6	98,707	28,413	350	5,8		
	2570198	450	25,5	399	124,973	35,730	400	5,8		
	2570200	500	28,4	443,2	154,195	44,016	450	5,8		
	2570202	560	31,7	496,6	193,590	54,790	500	5,8		
	2570204	630	35,7	558,6	244,947	69,137	500	5,8		

## aquatherm blue pipe SDR 7.4 / 11 MF OT

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

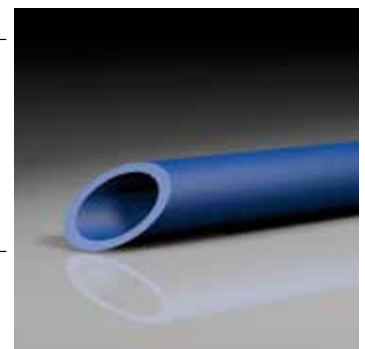
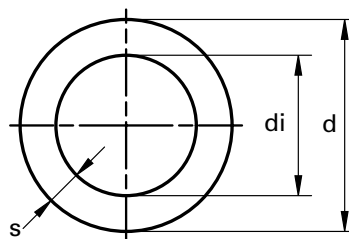


Oxygen tight by diffusion barrier.  
Mechanically stabilized through a fibre mix integrated in the middle layer of fusiolen® PP-R.

SDR	Art.-No.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [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	0,199	15	100	
	2170710	25	3,5	18,0	0,254	0,299	20	100	
	2170712	32	4,4	23,2	0,423	0,466	20	40	
11	2170114	40	3,7	32,6	0,834	0,530	32	40	
	2170116	50	4,6	40,8	1,307	0,794	40	20	
	2170118	63	5,8	51,4	2,074	1,218	50	20	
	2170120	75	6,8	61,4	2,959	1,649	65	20	
	2170122	90	8,2	73,6	4,252	2,379	80	12	
	2170124	110	10	90,0	6,359	3,550		8	
	2170126	125	11,4	102,2	8,199	4,576	100	4	
<i>Butt welding</i>									
	2170130	160	14,6	130,8	13,430	7,284	125	5,8	
	2170134	200	18,2	163,6	21,010	11,000	150	5,8	
	2170138	250	22,7	204,6	32,861	16,700	200	5,8	

## aquatherm blue pipe - SDR 11 S

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



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	0,110	15	100	
	2010210	25	2,3	20,4	0,327	0,167	20	100	
	2010212	32	2,9	26,2	0,539	0,265	25	40	
	2010308*	20	1,9	16,2	0,206	0,107	15	100	
	2010310*	25	2,3	20,4	0,327	0,164	20	100	
	2010312*	32	2,9	26,2	0,539	0,257	25	50	

**lilac** was developed exclusively for the field of water recycling and is officially called **aquatherm lilac pipe**. 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 reclaimed water pipes, giving us both the colour and name for our reclaimed water service lines.

# aquatherm lilac pipe

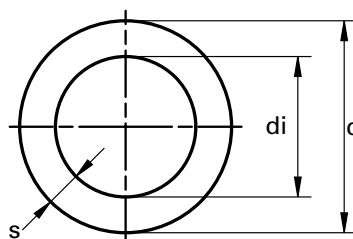
## Pipe system made of polypropylene

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:**



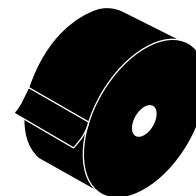
SDR	Art.-No.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg]	DN	PU [m]	Price € m/pc
7.4	9010808	20	2,8	14,4	0,163	0,152	15	100	
	9010810	25	3,5	18,0	0,254	0,226	20	100	
11	9010212	32	2,9	26,2	0,539	0,265	25	40	
	9010214	40	3,7	32,6	0,834	0,415	32	40	
	9010216	50	4,6	40,8	1,307	0,645	40	20	
	9010218	63	5,8	51,4	2,074	1,015	50	20	
	9010220	75	6,8	61,4	2,959	1,415	65	20	
	9010222	90	8,2	73,6	4,252	2,200	80	12	
	9010224	110	10,0	90,0	6,359	3,136	-	8	
	9010226	125	11,4	102,2	8,199	3,927	100	4	



## ADHESIVE TAPE TO PROTECT AGAINST UV-RADIATION

for aquatherm MF UV pipes

Art.-No.	Dimension	PU	Price € m/pc
10871	Width: 50 mm Length: 10 m	10m/pckg	

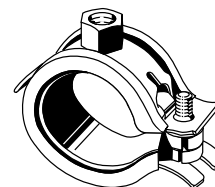


## PIPE CLAMPS

suitable for sliding and fixed point installation

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

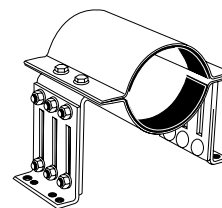
Art.-No.	for pipe dimension	PU	Box unit	Price € m/pc
60516	16 mm	50		
60520	20 mm	50		
60525	25 mm	50		
60532	32 mm	50		
60540	40 mm	50		
60550	50 mm	50		
60563	63 mm	25		
60575	75 mm	25		
60590	90 mm	25		
60594	110 mm	25		
60595	125 mm	25		
60597	160 mm	25		
60650	200 mm	1		
60654	250 mm	1		
60658	315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



## PIPE CLAMPS

suitable for fixed point installation

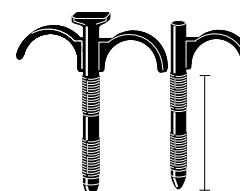
Art.-No.	for pipe dimension	PU	Box unit	Price € m/pc
60768	160 mm	1		
60770	200 mm	1		
60774	250 mm	1		
60778	315 mm	1		
60780	355 mm	1		
60782	400 mm	1		
60784	450 mm	1		
60786	500 mm	1		
60788	560 mm	1		
60790	630 mm	1		



## PIPE FASTENING BOW

suitable for  $\varnothing$  16-32 mm pipes

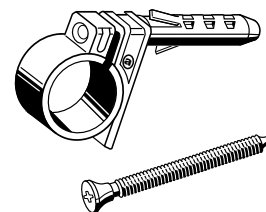
Art.-No.	for pipe dimension	PU	Box unit	Price € m/pc
60604	onefold - length = 45 mm	50		
60606	onefold - length = 75 mm	50		
60608	double - length = 45 mm	50		
60610	double - length = 75 mm	50		



## PLASTIC PIPE CLAMPS

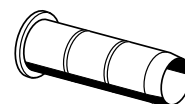
suitable for  $\varnothing$  16-40 mm pipes

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



## PIPE SUPPORT

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



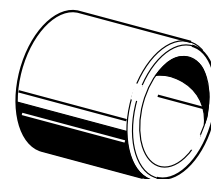
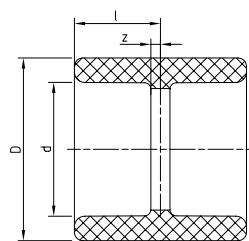
## SOCKET

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	15,00	2,00	24,50	0,008	•	10	2000	
	11008	20	16,00	1,50	29,50	0,011	• • •	10	1500	
	11010	25	17,50	1,50	34,00	0,013	• • •	10	1000	
	11012	32	20,25	2,25	43,00	0,026	• • •	5	600	
	11014	40	23,75	3,25	52,00	0,044	• • •	5	400	
	11016	50	26,50	3,00	68,00	0,084	• • •	5	200	
	11018	63	30,25	2,75	84,00	0,139	• • •	1	100	
	11020	75	33,25	3,25	100,00	0,226	• • •	1	70	
	11022	90	36,25	3,25	120,00	0,343	• • •	1	50	
	11024	110	41,00	4,00	147,00	0,581	• • •	1	30	
11026	125	45,00	5,00	167,00	0,845	• • •	1	25		

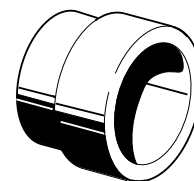
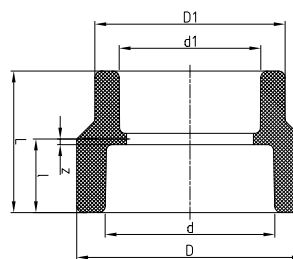
## REDUCING SOCKET FEMALE/FEMALE

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	24,00	3,50	52,00	43,00	0,035	• • •	1	40	
	11228	50	32	47,00	26,50	3,00	68,00	43,00	0,066	• • •	1	25	
	11230	50	40	50,50	26,50	3,00	68,00	52,00	0,069	• • •	1	100	
	11236	63	40	54,00	30,50	3,00	84,00	52,00	0,115	• • •	1	100	
	11238	63	50	56,00	30,00	2,50	84,00	68,00	0,120	• • •	1	100	
	11240	75	50	60,00	33,50	3,50	100,00	68,00	0,178	• • •	1	80	
	11242	75	63	62,50	32,50	2,50	100,00	84,00	0,185	• • •	1	80	
	11252	90	63	66,50	36,50	3,50	120,00	84,00	0,276	• • •	1	30	
	11253	90	75	69,00	36,00	3,00	120,00	100,00	0,297	• • •	1	50	
	11257	110	75	74,50	41,00	4,00	147,00	100,00	0,516	• • •	1	45	
11259	110	90	77,50	41,00	4,00	147,00	120,00	0,520	• • •	1	35		
11263	125	90	83,00	46,00	6,00	167,00	120,00	0,749	• • •	1	25		
11265	125	110	87,00	46,00	6,00	167,00	147,00	0,726	• • •	1	20		

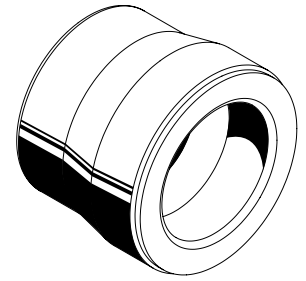
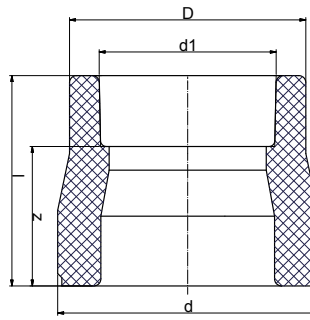
## REDUCING SOCKET, SOCKET WELDING

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

**Material:** Fusiolen® PP-R

**Standard:** DIN 16962, DIN EN ISO 15874

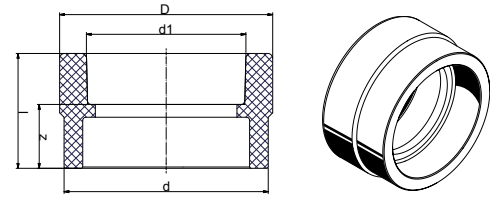
**Colour:** green



SDR	Art.-No.	Dimension d [mm]	Dimension d1 [mm]	l	z	D	Weight [kg]	System	PU	Box unit	Price € m/pc
double-sided socket welding											
	11109	20	16	39,00	26,00	24,50	0,009	•	10	2000	
	11110	25	16	38,00	25,00	26,00	0,012	•	10	2000	
	11112	25	20	38,50	24,00	29,50	0,012	• • •	10	1500	
	11114	32	20	37,50	23,00	29,50	0,015	• • •	5	1000	
	11116	32	25	38,00	22,00	34,00	0,016	• • •	5	1000	
	11118	40	20	45,00	30,50	29,50	0,025	• • •	5	750	
	11120	40	25	50,00	34,00	34,00	0,028	• • •	5	600	
	11122	40	32	50,00	32,00	43,00	0,032	• • •	5	500	
	11124	50	20	55,00	40,50	29,50	0,045	• • •	5	500	
	11126	50	25	55,00	39,00	34,00	0,044	• • •	5	500	
	11128	50	32	54,00	36,00	43,00	0,048	• • •	5	350	
	11130	50	40	52,50	32,00	52,00	0,053	• • •	5	300	
	11131	63	20	65,00	50,50	29,50	0,073	• • •	1	200	
	11132	63	25	65,00	49,00	34,00	0,071	• • •	1	200	
6	11134	63	32	62,00	44,00	43,00	0,080	• • •	1	200	
7.4	11136	63	40	65,00	44,50	52,00	0,089	• • •	1	200	
9	11138	63	50	63,50	40,00	68,00	0,107	• • •	1	150	
11	11139	75	40	69,50	49,00	52,00	0,131	• • •	1	150	
17.6	11140	75	50	63,00	39,50	68,00	0,141	• • •	1	100	
	11142	75	63	71,00	43,50	84,00	0,170	• • •	1	100	
	11143	75	20	65,50	51,00	34,50	0,113	• • •	1	200	
	11144	75	25	65,50	49,50	34,50	0,111	• • •	1	200	
	11145	75	32	69,50	51,50	52,00	0,140	• • •	1	150	
	11151	90	50	75,00	51,50	68,00	0,193	• • •	1	100	
	11152	90	63	78,00	50,50	84,00	0,224	• • •	1	75	
	11153	90	75	81,50	51,50	100,00	0,273	• • •	1	60	
	11155	110	63	86,00	58,50	84,00	0,356	• • •	1	50	
	11157	110	75	89,00	59,00	100,00	0,383	• • •	1	50	
	11159	110	90	99,00	66,00	120,00	0,500	• • •	1	40	
	11161	125	75	101,00	71,00	100,00	0,518	• • •	1	35	
	11163	125	90	99,00	66,00	120,00	0,588	• • •	1	35	
	11165	125	110	112,00	75,00	147,00	0,832	• • •	1	25	

## REDUCING SOCKET, SOCKET & BUTT WELDING

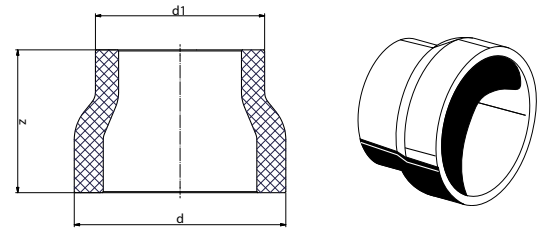
**Systems:** [aquatherm green pipe](#),  
[aquatherm blue pipe](#)  
**Material:** Fusiolen® PP-R & PP-RP  
**Standard:** DIN 16962, DIN EN ISO 15874  
**Colour:** green



SDR	Art.-No.	Dimension d [mm]	Dimension d1 [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	87,00	50,00	147,00	0,730	• •	1	25	
	11176	160	125	90,00	50,00	167,00	0,837	• •	1	20	
	11182	200	125	135,00	95,00	167,00	1,644	• •	1	25	
9	311174	160	110	87,00	50,00	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	25	
	11177	160	125	90,00	50,00	167,00	0,636	• •	1	20	
	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	25	
	2511176	160	125	90,00	50,00	167,00	0,628	•	1	25	
	2511182	200	125	135,00	95,00	167,00	1,055	•	1		

## REDUCING SOCKET, BUTT WELDING

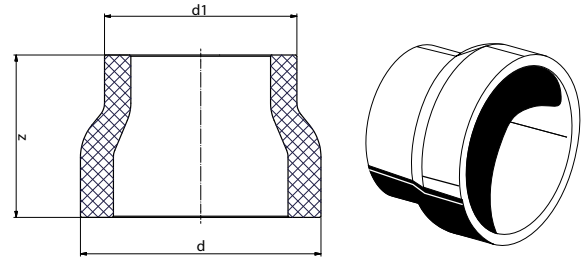
**Systems:** [aquatherm green pipe](#),  
[aquatherm blue pipe](#)  
**Material:** Fusiolen® PP-R & PP-RP  
**Standard:** DIN 16962, DIN EN ISO 15874  
**Colour:** green



SDR	Art.-No.	Dimension d [mm]	Dimension d1 [mm]	z	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	12	
	11188	250	160	172,50	2,881	•	1		
	11190	250	200	172,50	3,250	•	1	5	
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	12	
	11189	250	160	172,50	2,313	• •	1	5	
	11191	250	200	172,50	2,389	• •	1	5	
	11193	315	200	225,00	4,389	• •	1		
	11195	315	250	233,00	4,786	• •	1	1	
	11197	355	250	245,00	4,431	• •	1		
	11199	355	315	160,00	4,532	• •	1	3	
	11201	400	250	260,00	7,475	• •	1		
	11203	400	315	260,00	6,095	• •	1		
	11204	400	355	260,00	5,520	• •	1		
	11206	450	315	230,00	9,200	• •	1		
11207	450	355	230,00	7,590	• •	1			
11208	450	400	230,00	7,590	• •	1			

## REDUCING SOCKET, BUTT WELDING

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

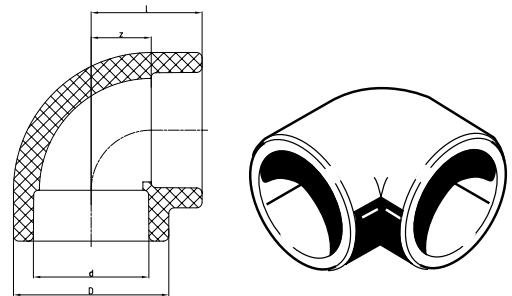


SDR	Art.-No.	Dimension d [mm]	Dimension d1 [mm]	z	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>double-sided butt welding</i>									
17.6	2511184	200	160	135,00	1,012	•	1		
	2511188	250	160	172,50	1,500	•	1		
	2511190	250	200	172,50	1,338	•	1		
	2511193	315	200	225,00	4,141	•	1		
	2511195	315	250	225,00	3,420	•	1		
	2511197	355	250	245,00	3,099	•	1		
	2511199	355	315	160,00	3,108	•	1		
	2511201	400	250	260,00	4,482	•	1		
	2511203	400	315	260,00	3,366	•	1		
	2511204	400	355	260,00	3,049	•	1		
	2511206	450	315	230,00	4,891	•	1		
	2511207	450	355	230,00	4,688	•	1		
	2511208	450	400	230,00	4,287	•	1		
	2511209	500	315	230,00	8,100	•	1		
	2511210	500	355	230,00	6,500	•	1		
	2511211	500	400	230,00	6,700	•	1		
	2511212	500	450	230,00	5,500	•	1		
	2511213	560	400	230,00	9,000	•	1		
	2511214	560	450	200,00	8,600	•	1		
2511215	560	500	200,00	7,600	•	1			
2511216	630	400	230,00	15,100	•	1			
2511217	630	450	200,00	13,700	•	1			
2511218	630	500	200,00	11,000	•	1			
2511219	630	560	200,00	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	29,50	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	15	
	12126	125	76,50	116,50	167,00	2,004	• • •	1	10	

## ELBOW 90° BUTT WELDING

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

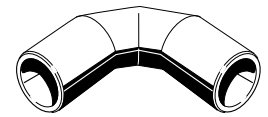
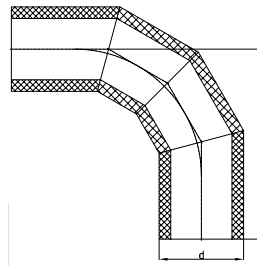
**Material:** Fusiolen® PP-R & PP-RP

**Standard:** DIN 16962, DIN EN ISO 15874

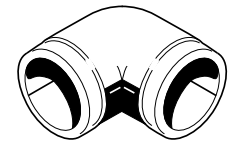
**Notice** There is a gradual conversion of the XXL-fittings made of pipe segments to an injection molded design. The table shows which articles are already available in new design at the time of printing this catalogue. In the aquatherm technews we will inform you of further changes, but first the current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

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

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



Fitting made of pipe segments



Injection molded fitting  
Colour: green

SDR	Art.-No.	Dimension d [mm]	z	Weight [kg]	System	pipe segments	NEW injection molded* (green)	PU	Box unit	Price € m/pc
<i>butt welding</i>										
7.4	12130	160	145,00	2,561	•	•		1	8	
	12134	200	450,00	11,685	•	•		1	16	
	12138	250	625,00	26,000	•	•		1	7	
9	312130	160	145,00	2,371	•		•	1		
	312134	200	175,00	4,339	•		•	1		
	312138	250	220,00	8,250	•		•	1		
	312142	315	773,00	42,300	•	•		1		
	312144	355	833,00	57,628	•	•		1		
11	12131	160	145,00	2,145	•	•	•	1	8	
	12135	200	175,00	4,056	•	•	•	1	12	
	12139	250	220,00	7,331	•	•	•	1	6	
	12143	315	773,00	37,850	•		•	1	2	
	12145	355	833,00	37,400	•		•	1		
	12147 <sup>1)</sup>	400	900,00	62,800	•		•	1		
	12149 <sup>1)</sup>	450	975,00	89,500	•		•	1		
<sup>1)</sup> mechanically stabilized through a fibre mix integrated in the middle layer of the fusiolen® PP-R										
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	3,118		•	•	1		
	2512138	250	220,00	5,623		•	•	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

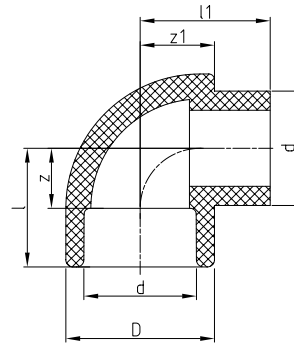
## ELBOW 90° FEMALE/MALE

**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	12,00	0,010	•	10	2000	
	12308	20	11,00	25,50	29,50	25,50	15,00	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	

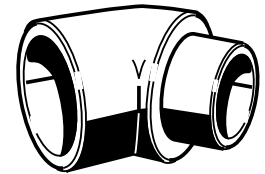
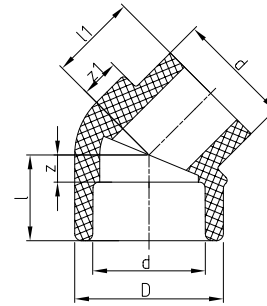
## ELBOW 45° FEMALE/MALE

**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	

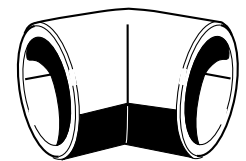
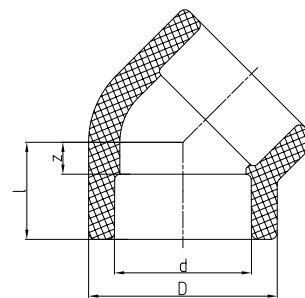
## ELBOW 45° SOCKET WELDING

**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	15	

## ELBOW 45° BUTT WELDING

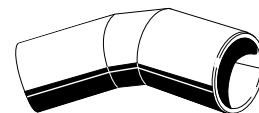
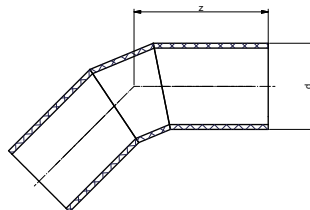
**Systems:** aquatherm green pipe, aquatherm blue pipe  
**Material:** Fusiolen® PP-R & PP-RP  
**Standard:** DIN 16962, DIN EN ISO 15874

### Notice

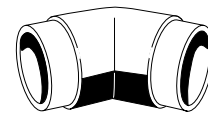
There is a gradual conversion of the XXL-fittings made of pipe segments to an injection molded design. The table shows which articles are already available in new design at the time of printing this catalogue. In the aquatherm technews we will inform you of further changes, but first the current stock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



Fitting made of pipe segments



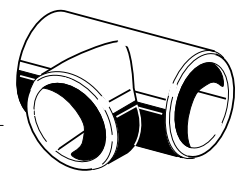
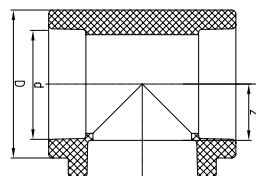
Injection molded fitting  
Colour: green

SDR	Art.-No.	Dimension d [mm]	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	250,00	3,994	•	•		1		
	312534	200	274,00	6,745	•	•		1		
	312538	250	412,00	15,928	•	•		1		
	312542	315	517,00	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	517,00	27,300	•	•		1		
	12545	355	520,00	26,650	•	•		1		
	12547 <sup>1)</sup>	400	548,00	44,900	•	•		1		
	12549 <sup>1)</sup>	450	580,00	60,500	•	•		1		
<i><sup>1)</sup>mechanically stabilized through a fibre mix integrated in the middle layer of the fusiolen® PP-R</i>										
11	2012535	200	274,00	6,285	•	•		1		
	2012539	250	412,00	14,181	•	•		1		
	2012543	315	517,00	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	249,00	1,730	•	•		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



SDR	Art.-No.	Dimension d [mm]	z	l	D	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>										
6	13106	16	9,00	22,00	24,50	0,015	•	10	1500	
	13108	20	11,00	25,50	29,50	0,022	•	10	800	
	13110	25	15,00	31,00	34,00	0,033	•	10	500	
7.4	13112	32	17,00	35,00	43,00	0,054	•	5	300	
	13114	40	20,00	40,50	52,00	0,099	•	5	200	
9	13116	50	26,00	49,50	68,00	0,177	•	5	100	
11	13118	63	32,50	60,00	84,00	0,368	•	1	50	
17.6	13120	75	38,50	68,50	100,00	0,541	•	1	30	
	13122	90	46,00	79,00	120,00	0,920	•	1	25	
	13124	110	56,00	93,00	147,00	1,598	•	1	14	
	13126	125	76,50	116,50	167,00	2,673	•	1	8	



## T-PIECE BUTT WELDING

**Systems:**

aquatherm green pipe,  
aquatherm blue pipe

**Material:**

Fusiolen® PP-R & PP-RP

**Standard:**

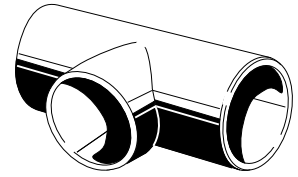
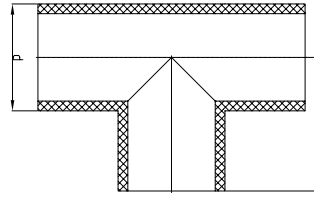
DIN 16962, DIN EN ISO 15874

**Notice**

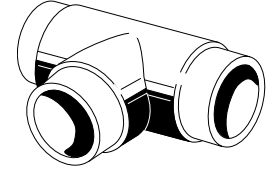
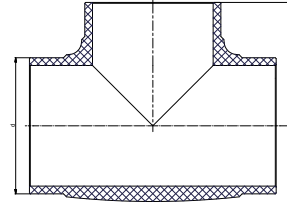
There is a gradual conversion of the XXL-fittings made of pipe segments to an injection molded design. The table shows which articles are already available in new design at the time of printing this catalogue. In the aquatherm technews we will inform you of further changes, but first the current stock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

SDR	Art.-No.	Dimension d [mm]	z	Weight [kg]	System	pipe segments	<b>NEW</b> injection molded* (green)	PU	Box unit	Price € m/pc
<i>butt welding</i>										
7.4	<b>13130</b>	<b>160</b>	145,00	3,600	•	•		1	5	
	<b>13134</b>	<b>200</b>	250,00	9,825	•	•		1	2	
	<b>13138</b>	<b>250</b>	375,00	24,000	•	•		1	8	
<b>NEW</b>	<b>313130</b>	<b>160</b>	145,00		•		•	1		
	<b>313134</b>	<b>200</b>	250,00	9,367	•	•		1		
	<b>313138</b>	<b>250</b>	375,00	21,949	•	•		1		
	<b>313142</b>	<b>315</b>	460,00	42,609	•	•		1		
	<b>313144</b>	<b>355</b>	480,00	56,452	•	•		1		
<b>NEW</b>	<b>13131</b>	<b>160</b>	145,00	3,005	•	•	•	1	5	
	<b>13135</b>	<b>200</b>	250,00	6,865	•	•		1	2	
	<b>13139</b>	<b>250</b>	375,00	16,000	•	•		1	8	
	<b>13143</b>	<b>315</b>	460,00	20,450	•	•		1		
	<b>13145</b>	<b>355</b>	480,00	45,072	•	•		1		
	<b>13147<sup>1)</sup></b>	<b>400</b>	500,00	63,100	•	•		1		
	<b>13149<sup>1)</sup></b>	<b>450</b>	525,00	83,300	•	•		1		
<i>1) mechanically stabilized through a fibre mix integrated in the middle layer of the fusiolen® PP-R</i>										
11	<b>2013135</b>	<b>200</b>	250,00	8,171	•	•		1		
	<b>2013139</b>	<b>250</b>	375,00	18,827	•	•		1		
	<b>2013143</b>	<b>315</b>	460,00	36,674	•	•		1		
	<b>2013145</b>	<b>355</b>	480,00	40,000	•	•		1		
	<b>2013147</b>	<b>400</b>	500,00	62,100	•	•		1		
	<b>2013149</b>	<b>450</b>	525,00	82,792	•	•		1		
<b>NEW</b>	<b>2513130</b>	<b>160</b>	145,00	2,348	•		•	1		
	<b>2513134</b>	<b>200</b>	250,00	4,660	•	•		1		
	<b>2513138</b>	<b>250</b>	375,00	11,500	•	•		1		
	<b>2513142</b>	<b>315</b>	460,00	19,800	•	•		1		
	<b>2513144</b>	<b>355</b>	480,00	27,500	•	•		1		
	<b>2513146</b>	<b>400</b>	500,00	40,395	•	•		1		
	<b>2513148</b>	<b>450</b>	525,00	45,400	•	•		1		
	<b>2513150</b>	<b>500</b>	600,00	75,726	•	•		1		
	<b>2513152</b>	<b>560</b>	630,00	99,320	•	•		1		
	<b>2513154</b>	<b>630</b>	665,00	122,500	•	•		1		

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

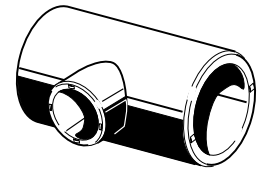
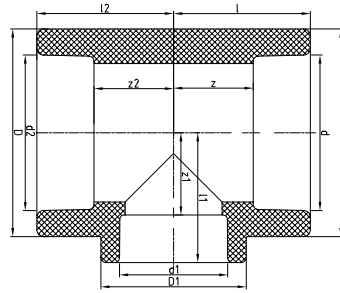
## RED.- T-PIECE, SOCKET WELDING

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

**Material:** Fusiolen® PP-R

**Standard:** DIN 16962, DIN EN ISO 15874

**Colour:** green



SDR	Art.-No.	d	d1	d2	l	l1	l2	z	z1	z2	D	D1	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>																	
	13506	20	16	16	25,50	25,50	25,50	11,00	12,00	12,50	29,50	29,50	0,025	•	10	1000	
	13508	20	16	20	25,50	25,50	25,50	11,00	12,00	11,00	29,50	29,50	0,024	•	10	1000	
	13510	20	20	16	25,50	25,50	25,50	11,00	11,00	12,50	29,50	29,50	0,023	•	10	1000	
	13511	20	25	20	31,00	30,50	31,00	16,50	14,50	16,50	34,00	34,00	0,040	• • •	10	500	
	13512	25	16	16	31,00	30,50	31,00	15,00	17,50	18,00	34,00	34,00	0,043	•	10	500	
	13514	25	16	20	31,00	30,50	31,00	15,00	17,50	16,50	34,00	34,00	0,041	•	10	500	
	13516	25	16	25	31,00	30,50	31,00	15,00	17,50	15,00	34,00	34,00	0,038	•	10	500	
	13520	25	20	20	31,00	30,50	31,00	15,00	16,00	16,50	34,00	34,00	0,039	• • •	10	500	
	13522	25	20	25	31,00	30,50	31,00	15,00	16,00	15,00	34,00	34,00	0,036	• • •	10	500	
	13528	32	16	32	35,00	31,00	35,00	17,00	18,00	17,00	43,00	29,50	0,053	• • •	5	300	
	13532	32	20	20	36,50	37,00	36,50	18,75	22,50	22,25	43,00	43,00	0,076	• • •	5	300	
	13534	32	20	32	35,00	31,00	35,00	17,00	16,50	17,00	43,00	29,50	0,053	• • •	5	300	
	13538	32	25	25	35,00	34,50	35,00	17,00	18,50	15,00	43,00	43,00	0,069	• • •	5		
	13540	32	25	32	35,00	34,50	35,00	17,00	18,50	17,00	43,00	43,00	0,050	• • •	5	300	
	13542	40	20	40	41,50	36,00	41,50	21,00	21,50	21,00	52,00	34,00	0,091	• • •	5	200	
	13544	40	25	40	41,50	36,00	41,50	21,00	20,00	21,00	52,00	34,00	0,089	• • •	5	200	
	13546	40	32	40	42,00	40,50	42,00	21,50	22,50	21,50	52,00	52,00	0,092	• • •	5	200	
	13547	50	20	50	49,50	40,50	49,50	26,00	26,00	26,00	68,00	29,50	0,162	• • •	5	100	
	13548	50	25	50	49,50	44,50	49,50	26,00	28,50	26,00	68,00	43,00	0,157	• • •	5	100	
6	13550	50	32	50	49,50	44,50	49,50	26,00	26,50	26,00	68,00	43,00	0,160	• • •	5	100	
7.4	13551	50	40	50	49,50	49,50	49,50	26,00	29,00	26,00	68,00	68,00	0,161	• • •	5	100	
9	13552	63	20	63	60,00	48,50	60,00	32,50	34,00	32,50	84,00	34,00	0,335	• • •	1	50	
11	13554	63	25	63	60,00	48,50	60,00	32,50	32,50	32,50	84,00	34,00	0,331	• • •	1	50	
17.6	13556	63	32	63	60,00	53,50	60,00	32,50	35,50	32,50	84,00	52,00	0,340	• • •	1	50	
	13558	63	40	63	60,00	53,50	60,00	32,50	33,00	32,50	84,00	52,00	0,332	• • •	1	50	
	13560	63	50	63	60,00	60,00	60,00	32,50	36,50	32,50	84,00	84,00	0,398	• • •	1	50	
	13561	75	20	75	68,50	54,50	68,50	38,50	40,00	38,50	100,00	34,00	0,501	• • •	1	35	
	13562	75	25	75	68,50	54,50	68,50	38,50	38,50	38,50	100,00	34,00	0,497	• • •	1	35	
	13564	75	32	75	68,50	59,00	68,50	38,50	41,00	38,50	100,00	52,00	0,505	• • •	1	35	
	13566	75	40	75	68,50	59,00	68,50	38,50	38,50	38,50	100,00	52,00	0,497	• • •	1	35	
	13568	75	50	75	68,50	66,00	68,50	38,50	42,50	38,50	100,00	84,00	0,550	• • •	1	35	
	13570	75	63	75	68,50	66,00	68,50	38,50	38,50	38,50	100,00	84,00	0,515	• • •	1	35	
	13576	90	32	90	79,00	65,00	79,00	46,00	47,00	46,00	120,00	52,00	0,880	• • •	1	25	
	13578	90	40	90	79,00	65,00	79,00	46,00	44,50	46,00	120,00	52,00	0,862	• • •	1	25	
	13580	90	50	90	79,00	75,00	79,00	46,00	51,50	46,00	120,00	84,00	0,905	• • •	1	25	
	13582	90	63	90	79,00	75,00	79,00	46,00	47,50	46,00	120,00	84,00	0,876	• • •	1	25	
	13584	90	75	90	79,00	81,00	79,00	46,00	51,00	46,00	120,00	120,00	0,991	• • •	1	25	
	13586	110	63	110	93,00	87,50	93,00	56,00	60,00	56,00	147,00	100,00	1,562	• • •	1	15	
	13588	110	75	110	93,00	87,50	93,00	56,00	57,50	56,00	147,00	100,00	1,511	• • •	1	15	
	13590	110	90	110	93,00	89,00	93,00	56,00	56,00	56,00	147,00	120,00	1,548	• • •	1	15	
	13592	125	75	125	116,50	106,50	116,50	76,50	76,50	76,50	167,00	100,00	2,427	• • •	1	8	
	13594	125	90	125	116,50	109,50	116,50	76,50	76,50	76,50	167,00	120,00	2,509	• • •	1	8	
	13596	125	110	125	116,50	113,50	116,50	76,50	76,50	76,50	167,00	147,00	2,563	• • •	1	8	

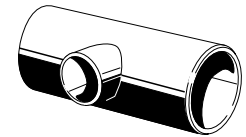
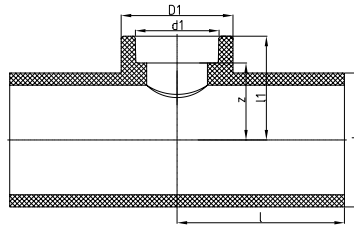
aquatherm green pipe

aquatherm blue pipe

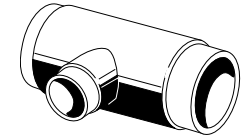
aquatherm lilac pipe

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

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



Fitting made of pipe segments



Injection molded fitting

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

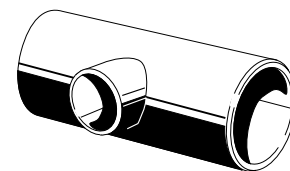
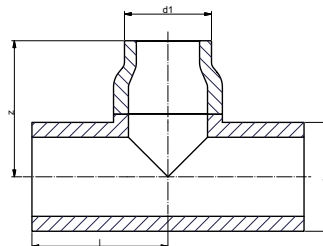
**Please note!** Electrofusion sockets can not be processed directly with injection molded fittings. When using electrofusion sockets either segment welded special fittings must be used or pipe pieces must be welded to the injection molded fittings.

SDR	Art.-No.	d	d1	l	l1	z	D1	Weight [kg]	System	pipe segments	injection molded*	PU	Box unit	Price € m/pc
<i>branch: socket welding</i>														
7.4	13600	160	75	230,00	122,00	92,00	100,00	4,414	•		•	1	4	
	13602	160	90	230,00	125,00	92,00	120,00	4,515	•		•	1	4	
	13608	200	75	250,00	142,00	112,00	100,00	7,110	•		•	1	1	
	13610	200	90	250,00	145,00	112,00	120,00	7,540	•		•	1	1	
	13612	200	110	250,00	149,00	112,00	147,00	7,325	•		•	1	1	
	13614	200	125	250,00	155,00	115,00	167,00	7,645	•		•	1	1	
	13624	250	75	375,00	167,00	137,00	100,00	16,600	•		•	1	10	
	13626	250	90	375,00	170,00	137,00	120,00	16,800	•		•	1	10	
	13628	250	110	375,00	174,00	137,00	147,00	16,800	•		•	1	10	
13630	250	125	375,00	180,00	140,00	167,00	17,000	•		•	1	10		
9	313600	160	75	230,00	122,00	92,00	100,00	3,903	•		•	1		
	313602	160	90	230,00	125,00	92,00	120,00	4,039	•		•	1		
	313608	200	75	250,00	142,00	112,00	100,00	6,476	•		•	1		
	313610	200	90	250,00	145,00	112,00	120,00	6,581	•		•	1		
	313612	200	110	250,00	149,00	112,00	147,00	6,863	•		•	1		
	313614	200	125	250,00	155,00	115,00	167,00	7,114	•		•	1		
	313624	250	75	375,00	167,00	137,00	100,00	14,802	•		•	1		
	313626	250	90	375,00	170,00	137,00	120,00	14,932	•		•	1		
	313628	250	110	375,00	174,00	137,00		15,178			•	1		
	313630	250	125	375,00	180,00	140,00	167,00	15,398	•		•	1		
	313904	315	125	460,00	212,50	167,00		29,196	•		•	1		
313916	355	125	480,00	232,50	192,50		38,466	•		•	1			
11	13601	160	75	230,00	122,00	92,00	100,00	3,140	•	•	•	1	4	
	13603	160	90	230,00	125,00	92,00	120,00	3,176	•	•	•	1	4	
	13609	200	75	250,00	142,00	112,00	100,00	5,284	•		•	1	1	
	13611	200	90	250,00	145,00	112,00	120,00	5,168	•		•	1	1	
	13613	200	110	250,00	149,00	112,00	147,00	5,648	•		•	1	1	
	13615	200	125	250,00	155,00	115,00	167,00	5,786	•		•	1	1	
	13625	250	75	375,00	167,00	137,00	100,00	12,000	•		•	1	10	
	13627	250	90	375,00	170,00	137,00	120,00	12,000	•		•	1	10	
	13629	250	110	375,00	174,00	137,00	147,00	13,000	•		•	1	10	
	13631	250	125	375,00	180,00	140,00	167,00	12,000	•		•	1	10	
	13651	315	125	460,00	213,00	173,00	167,00	25,150	•		•	1		
	13663	355	125	480,00	233,00	193,00	167,00	30,851	•		•	1		
	13676	400	125	500,00	255,00	215,00	167,00	42,169	•		•	1		
	13690	450	125	525,00	280,00	240,00	167,00	55,794	•		•	1		

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

## RED.- T-PIECE, BUTT WELDING

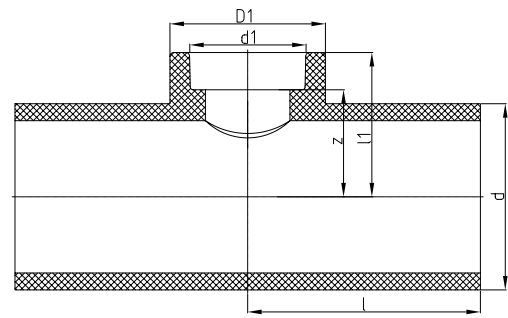
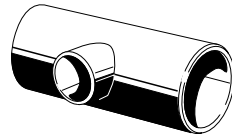
**Systems:** aquatherm green pipe  
**Material:** Fusiolen® PP-R & PP-RP  
**Standard:** DIN 16962, DIN EN ISO 15874  
**Branch:** butt welding



SDR	Art.-No.	d	d1	l	z	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>branch: butt welding</i>										
7.4	13618	200	160	300,00	300,00	10,891	•	1		
	13634	250	160	375,00	682,00	28,000	•	1	4	
	13640	250	200	375,00	375,00	27,000	•	1	4	
9	313618	200	160	300,00	300,00	9,332	•	1		
	313634	250	160	375,00	682,00	21,547	•	1	1	
	313640	250	200	375,00	548,00	21,853	•	1	1	
	313906	315	160	460,00	238,00	29,237	•	1	1	
	313908	315	200	460,00	460,00	42,166	•	1	1	
	313910	315	250	460,00	460,00	42,557	•	1	1	
	313918	355	160	480,00	258,00	38,479	•	1	1	
	313920	355	200	480,00	268,00	39,237	•	1	1	
	313922	355	250	480,00	480,00	52,683	•	1	1	
313924	355	315	480,00	480,00	55,511	•	1	1		
11	13619	200	160	300,00	300,00	7,445	•	1		
	13635	250	160	375,00	375,00	19,500	•	1	4	
	13641	250	200	375,00	375,00	18,500	•	1	4	
	13653	315	160	460,00	238,00	24,850	•	1		
	13655	315	200	460,00	460,00	29,400	•	1		
	13657	315	250	460,00	460,00	30,250	•	1		
	13665	355	160	480,00	258,00	30,893	•	1		
	13667	355	200	480,00	268,00	31,651	•	1		
	13669	355	250	480,00	480,00	41,635	•	1		
	13671	355	315	480,00	480,00	44,721	•	1		
	13678	400	160	500,00	354,00	44,111	•	1		
	13680	400	200	500,00	318,00	44,111	•	1		
	13682	400	250	500,00	280,00	44,111	•	1		
	13684	400	315	500,00	500,00	46,162	•	1		
	13685	400	355	500,00	500,00	54,361	•	1		
	13692	450	160	525,00	379,00	57,962	•	1		
	13694	450	200	525,00	343,00	57,962	•	1		
13696	450	250	525,00	305,00	57,962	•	1			
13698	450	315	525,00	315,00	58,818	•	1			
13699	450	355	525,00	525,00	78,330	•	1			
13700	450	400	525,00	525,00	78,330	•	1			

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

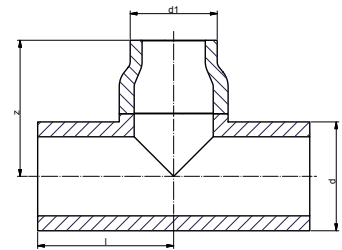
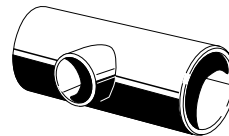
**Systems:** aquatherm blue pipe  
**Material:** Fusiolen® PP-R  
**Standard:** DIN 16962, DIN EN ISO 15874  
**Colour:** blue/green  
**Branch:** socket welding



SDR	Art.-No.	d	d1	l	l1	z	D	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>branch: socket welding</i>												
11	2013609	200	75	250,00	142,00	112,00	100,00	5,460	•	1		
	2013611	200	90	250,00	145,00	112,00	120,00	5,580	•	1		
	2013613	200	110	250,00	149,00	112,00	147,00	5,810	•	1		
	2013615	200	125	250,00	155,00	115,00	167,00	6,100	•	1		
	2013625	250	75	375,00	167,00	137,00	100,00	12,440	•	1		
	2013627	250	90	375,00	170,00	137,00	120,00	12,420	•	1		
	2013629	250	110	375,00	174,00	137,00	147,00	12,760	•	1		
	2013631	250	125	375,00	180,00	140,00	167,00	13,030	•	1		
	2013651	315	125	460,00	213,00	173,00	167,00	25,000	•	1		
	2013663	355	125	480,00	233,00	193,00	167,00	32,500	•	1		
	2013676	400	125	500,00	255,00	215,00	167,00	42,100	•	1		
2013690	450	125	525,00	280,00	240,00	167,00	55,700	•	1			

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

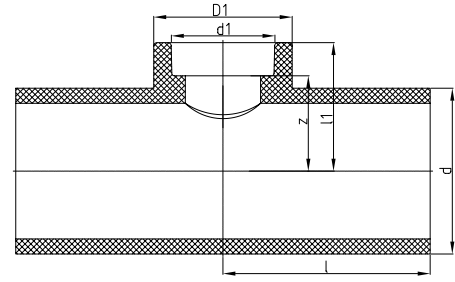
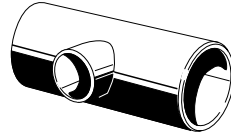
**Systems:** aquatherm blue pipe  
**Material:** Fusiolen® PP-R  
**Standard:** DIN 16962, DIN EN ISO 15874  
**Colour:** blue/green  
**Branch:** butt welding



SDR	Art.-No.	d	d1	l	z	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>branch: butt welding</i>										
11	2013619	200	160	300,00	300,00	7,650	•	1		
	2013635	250	160	375,00	375,00	19,030	•	1		
	2013641	250	200	375,00	548,00	21,100	•	1		
	2013653	315	160	460,00	238,00	25,000	•	1		
	2013655	315	200	460,00	460,00	33,200	•	1		
	2013657	315	250	460,00	460,00	34,200	•	1		
	2013665	355	160	480,00	258,00	32,500	•	1		
	2013667	355	200	480,00	268,00	30,200	•	1		
	2013669	355	250	480,00	480,00	40,000	•	1		
	2013671	355	315	480,00	480,00	40,000	•	1		
	2013678	400	160	500,00	354,00	44,100	•	1		
	2013680	400	200	500,00	318,00	44,100	•	1		
	2013682	400	250	500,00	280,00	46,000	•	1		
	2013684	400	315	500,00	500,00	56,000	•	1		
	2013685	400	355	500,00	500,00	54,300	•	1		
	2013692	450	160	525,00	379,00	57,900	•	1		
	2013694	450	200	525,00	343,00	57,900	•	1		
	2013696	450	250	525,00	305,00	57,900	•	1		
	2013698	450	315	525,00	315,00	58,400	•	1		
	2013699	450	355	525,00	525,00	75,000	•	1		
2013700	450	400	525,00	525,00	76,000	•	1			

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

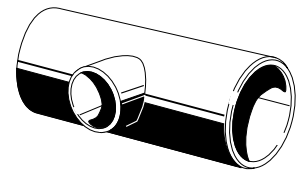
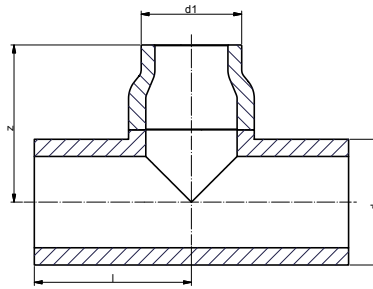
**Systems:** aquatherm blue pipe  
**Material:** Fusiolen® PP-R  
**Standard:** DIN 16962, DIN EN ISO 15874  
**Colour:** blue  
**Branch:** socket welding



SDR	Art.-No.	d	d1	l	l1	z	D	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>branch: socket welding</i>												
17.6	2513600	160	75	230,00	122,00	92,00	100,00	2,227	•	1		
	2513602	160	90	230,00	125,00	92,00	120,00	2,364	•	1		
	2513608	200	75	250,00	142,00	112,00	100,00	3,620	•	1		
	2513610	200	90	250,00	145,00	112,00	120,00	3,742	•	1		
	2513612	200	110	250,00	149,00	112,00	147,00	3,976	•	1		
	2513614	200	125	250,00	155,00	115,00	167,00	4,269	•	1		
	2513624	250	75	375,00	167,00	137,00	100,00	8,149	•	1		
	2513626	250	90	375,00	170,00	137,00	120,00	8,274	•	1		
	2513628	250	110	375,00	174,00	137,00	147,00	8,504	•	1		
	2513630	250	125	375,00	180,00	140,00	167,00	9,000	•	1		
	2513651	315	125	460,00	213,00	173,00	167,00	17,570	•	1		
	2513663	355	125	480,00	233,00	193,00	167,00	21,500	•	1		
	2513676	400	125	500,00	255,00	215,00	167,00	27,690	•	1		
	2513690	450	125	525,00	280,00	240,00	167,00	36,470	•	1		
	2513804	500	125	600,00	305,00	265,00	167,00	51,250	•	1		
	2513821	560	125	630,00	335,00	295,00	167,00	66,900	•	1		
	2513839	630	125	665,00	370,00	330,00	167,00	89,170	•	1		

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

Systems: aquatherm blue pipe  
 Standard: DIN 16962, DIN EN ISO 15874  
 Colour: blue  
 Branch: butt welding



SDR	Art.-No.	d	d1	l	z	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>butt welding</i>										
	2513618	200	160	300,00	300,00	5,000	•	1		
	2513634	250	160	375,00	375,00	11,600	•	1		
	2513640	250	200	375,00	375,00	11,500	•	1		
	2513653	315	160	460,00	238,00	16,500	•	1		
	2513655	315	200	460,00	460,00	23,600	•	1		
	2513657	315	250	460,00	460,00	22,600	•	1		
	2513665	355	160	480,00	258,00	21,500	•	1		
	2513667	355	200	480,00	268,00	21,900	•	1		
	2513669	355	250	480,00	480,00	28,300	•	1		
	2513671	355	315	480,00	480,00	30,500	•	1		
	2513678	400	160	500,00	354,00	29,700	•	1		
	2513680	400	200	500,00	318,00	29,700	•	1		
	2513682	400	250	500,00	280,00	29,000	•	1		
	2513684	400	315	500,00	500,00	35,800	•	1		
	2513685	400	355	500,00	500,00	39,700	•	1		
	2513692	450	160	525,00	379,00	37,000	•	1		
	2513694	450	200	525,00	343,00	37,000	•	1		
	2513696	450	250	525,00	305,00	37,000	•	1		
	2513698	450	315	525,00	315,00	37,000	•	1		
	2513699	450	355	525,00	525,00	50,500	•	1		
	2513700	450	400	525,00	525,00	50,100	•	1		
	2513806	500	160	600,00	404,00	53,400	•	1		
17.6	2513808	500	200	600,00	368,00	53,500	•	1		
	2513810	500	250	600,00	330,00	53,500	•	1		
	2513812	500	315	600,00	340,00	54,000	•	1		
	2513813	500	355	600,00	600,00	72,500	•	1		
	2513814	500	400	600,00	600,00	72,700	•	1		
	2513815	500	450	600,00	600,00	71,500	•	1		
	2513823	560	160	630,00	434,00	69,000	•	1		
	2513825	560	200	630,00	398,00	69,000	•	1		
	2513827	560	250	630,00	360,00	69,000	•	1		
	2513829	560	315	630,00	370,00	66,700	•	1		
	2513830	560	355	630,00	674,00	73,409	•	1		
	2513831	560	400	630,00	630,00	96,200	•	1		
	2513832	560	450	630,00	630,00	97,400	•	1		
	2513833	560	500	630,00	630,00	96,400	•	1		
	2513841	630	160	665,00	474,00	91,530	•	1		
	2513843	630	200	665,00	438,00	91,500	•	1		
	2513845	630	250	665,00	400,00	91,500	•	1		
	2513847	630	315	665,00	405,00	92,350	•	1		
	2513848	630	355	665,00	779,00	100,064	•	1		
	2513849	630	400	665,00	665,00	133,800	•	1		
	2513850	630	450	665,00	665,00	133,400	•	1		
	2513851	630	500	665,00	665,00	130,700	•	1		
	2513852	630	560	665,00	665,00	128,700	•	1		

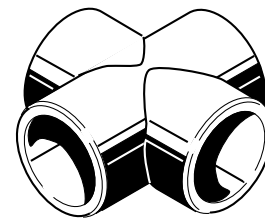
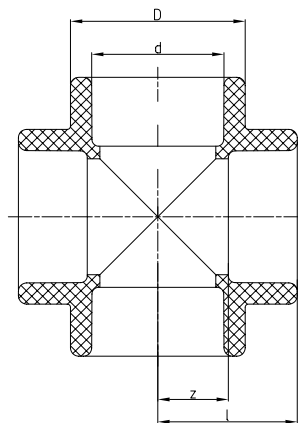
**CROSS**

**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]	z	l	D	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>										
6	13708	20	26,00	11,50	29,50	0,025	• • •	10	500	
7.4	13710	25	29,50	13,50	34,00	0,035	• • •	10	500	
9	13712	32	35,00	17,00	43,00	0,062	• • •	5	250	
11	13714	40	41,50	21,00	52,00	0,099	• • •	5	150	

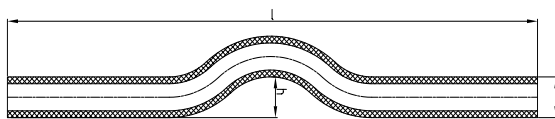
**CROSS OVER FITTING**

**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	600	
7.4	16108	20	22,00	352,00	0,060	• • •	10	400	
9	16110	25	25,00	352,00	0,091	• • •	10	250	
11	16112	32	32,00	352,00	0,154	• • •	5	120	



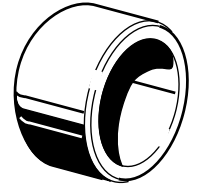
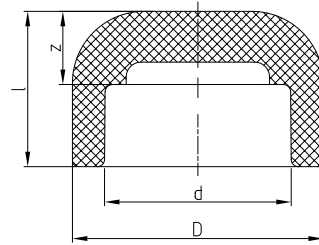
## END CAP

**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]	l	z	D	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>										
6 7.4 9 11	14106	16	26,50	13,50	26	0,008	•	10	2000	
	14108	20	24,00	9,50	29,5	0,009	• • •	10	2000	
	14110	25	24,00	8,00	34	0,011	• • •	10	1500	
	14112	32	31,50	13,50	43	0,023	• • •	5	1000	
	14114	40	38,00	17,50	52	0,042	• • •	5	500	
	14116	50	44,50	21,00	68	0,082	• • •	5	300	
	14118	63	52,00	24,50	84	0,146	• • •	1	150	
	14120	75	58,50	28,50	100	0,243	• • •	1	90	
	14122	90	57,50	34,50	120	0,365	• • •	1	60	
	14124	110	65,00	28,00	147	0,635	• • •	1	40	
14126	125	70,00	30,00	167	0,872	• • •	1	30		

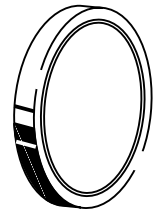
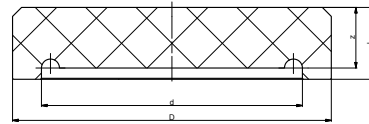
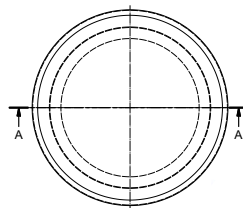
## END CAP BUTT-WELDING

**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			0,876	• •	1	30	
	14134	200	80,00			1,398	• •	1	24	
	14138	250	90,00			2,530	• •	1	10	
9	314130	160	70,00	21,90	124,20	0,847	•	1		
	314134	200	80,00	27,40	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	30	
	14135	200	80,00	18,20	163,60	1,070	• •	1	24	
	14139	250	90,00	22,70	204,60	1,989	• •	1	10	
	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	18,20	177,20	0,925	•	1		
	2514138	250	90,00	34,20	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		

aquatherm green pipe

aquatherm blue pipe

aquatherm lilac pipe

## WELD-IN SADDLE

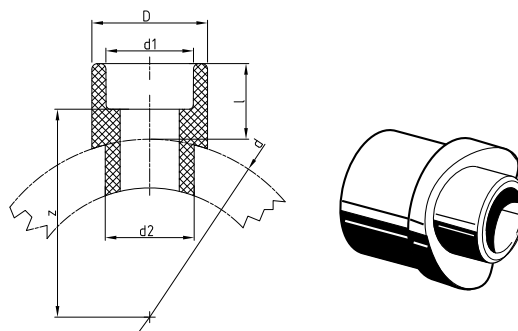
**Systems:** aquatherm green pipe,  
aquatherm blue pipe,  
aquatherm lilac pipe

**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	d2	l	z	D	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>												
	15156*	40	20	25	27,00	32,50	29,50	0,016	• • •	5	1000	
	15158*	40	25	25	28,50	32,50	34,00	0,017	• • •	5	1000	
	15160	50	20	25	27,50	38,00	29,50	0,018	• • •	5	1000	
	15162	50	25	25	28,50	37,50	34,00	0,019	• • •	5	1000	
	15164	63	20	25	27,50	44,50	29,50	0,017	• • •	5	1000	
	15166	63	25	25	28,50	44,00	34,00	0,019	• • •	5	750	
	15168	63	32	32	30,00	43,50	43,00	0,028	• • •	5	750	
	15170	75	20	25	27,50	50,50	29,50	0,018	• • •	5	1000	
	15172	75	25	25	28,50	50,00	34,00	0,019	• • •	5	750	
	15174	75	32	32	30,00	49,50	43,00	0,028	• • •	5	750	
	15175	75	40	40	34,00	51,00	52,00	0,049	• • •	5	400	
	15176	90	20	25	27,50	58,00	29,50	0,018	• • •	5	1000	
	15178	90	25	25	28,50	57,50	34,00	0,019	• • •	5	1000	
	15180	90	32	32	30,00	57,00	43,00	0,029	• • •	5	750	
	15181	90	40	40	34,00	58,50	52,00	0,048	• • •	5	500	
	15182	110	20	25	27,50	68,00	29,50	0,019	• • •	5	1000	
	15184	110	25	25	28,50	67,50	34,00	0,020	• • •	5	1000	
	15186	110	32	32	30,00	67,00	43,00	0,030	• • •	5	750	
	15188	110	40	40	34,00	68,50	52,00	0,050	• • •	5	450	
	15189	110	50	50	34,00	65,50	68,00	0,091	• • •	5	200	
	15190	125	20	25	27,50	75,50	29,50	0,019	• • •	5	1000	
	15192	125	25	25	28,50	75,00	34,00	0,020	• • •	5	1000	
	15194	125	32	32	30,00	74,50	43,00	0,029	• • •	5	750	
6	15196	125	40	40	34,00	76,00	52,00	0,050	• • •	5	450	
7.4	15197	125	50	50	34,00	73,00	68,00	0,090	• • •	5	200	
9	15198	125	63	63	38,00	73,00	84,00	0,149	• • •	5	125	
11	15206	160	20	25	27,50	62,00	29,50	0,021	• • •	5	700	
17.6	15208	160	25	25	28,50	92,50	34,00	0,023	• • •	5	700	
	15210	160	32	32	30,00	92,00	43,00	0,034	• • •	5	500	
	15212	160	40	40	34,00	93,50	52,00	0,054	• • •	5	300	
	15214	160	50	50	34,00	90,50	68,00	0,094	• • •	5	200	
	15216	160	63	63	38,00	90,50	84,00	0,157	• • •	5	120	
	15218	160	75	75	42,00	92,00	100,00	0,238	• • •	5	80	
	15220	160	90	90	45,00	92,00	120,00	0,360	• • •	5	40	
	15228	200-250	20	25	27,50	113,00	29,50	0,020	• • •	5	100	
	15229	200-250	25	25	28,50	112,50	34,00	0,021	• • •	5	100	
	15230	200-250	32	32	30,00	112,00	43,00	0,031	• • •	5	50	
	15231	200	40	40	34,00	113,50	52,00	0,049	• • •	5	200	
	15232	200	50	50	34,00	110,50	68,00	0,087	• • •	5	200	
	15233	200	63	63	37,50	110,00	84,00	0,146	• • •	5	120	
	15234	200	75	75	42,00	112,00	100,00	0,225	• • •	5	100	
	15235	200	90	90	45,00	112,00	120,00	0,356	• • •	5	5	
	15236	200	110	110	49,00	112,00	147,00	0,638	• • •	5	2	
	15237	200	125	125	55,00	115,00	167,00	0,862	• • •	5	20	
	15251	250	40	40	34,00	138,50	52,00	0,053	• • •	5	150	
	15252	250	50	50	34,00	135,50	68,00	0,090	• • •	5	100	
	15253	250	63	63	37,50	135,00	84,00	0,152	• • •	5	140	
	15254	250	75	75	42,00	137,00	100,00	0,222	• • •	5	5	
	15255	250	90	90	45,00	137,00	120,00	0,348	• • •	5	5	
	15256	250	110	110	49,00	137,00	147,00	0,602	• • •	5	20	
	15257	250	125	125	55,00	140,00	167,00	0,820	• • •	5	20	

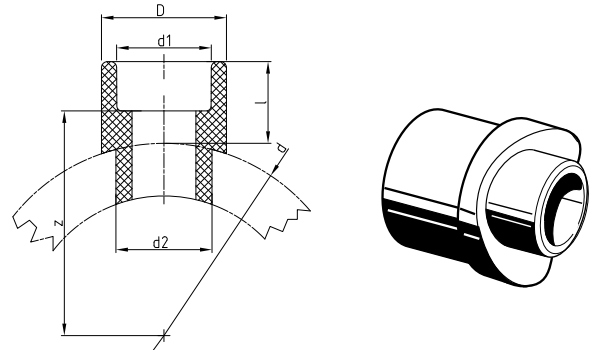
## WELD-IN SADDLES

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

**Material:** Fusiolen® PP-R

**Standard:** DIN 16962, DIN EN ISO 15874

**Colour:** green



SDR	Art.-No.	d	d1	d2	l	z	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	167,50	84,00	0,153	• •	1			
	15261	315-355	75	75	42,00	169,50	100,00	0,230	• •	1			
	15262	315	90	90	45,00	169,50	120,00	0,363	• •	1			
	15263	315	110	110	49,00	169,50	147,00	0,592	• •	1			
	15264	315	125	125	55,00	172,50	167,00	0,830	• •	1			
	15268	355	90	90	45,00	189,50	120,00	0,355	• •	1			
	15269	355	110	110	49,00	189,50	147,00	0,586	• •	1			
	15270	355	125	125	55,00	192,50	167,00	0,813	• •	1			
	15275	400-500	75	75	42,00	212,00	100,00	0,216	• •	1			
	15277	400-450	110	110	49,00	212,00	147,00	0,535	• •	1			
	15278	400	125	125	55,00	215,00	167,00	0,693	• •	1			
	15288	400-500	90	90	45,00	237,00	120,00	0,330	• •	1			
	15290	450-500	125	125	55,00	240,00	167,00	0,671	• •	1			
	15300	400-630	63	63	37,50	260,00	84,00	0,498	• •	1			
	15303	500-560	110	110	49,00	262,00	147,00	0,533	• •	1			
	15315	560-630	75	75	42,00	292,00	100,00	0,260	• •	1			
	15316	560-630	90	90	45,00	292,00	120,00	0,350	• •	1			
	15318	560-630	125	125	55,00	295,00	167,00	0,689	• •	1			
15331	630	110	110	49,00	327,00	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 64 onwards.

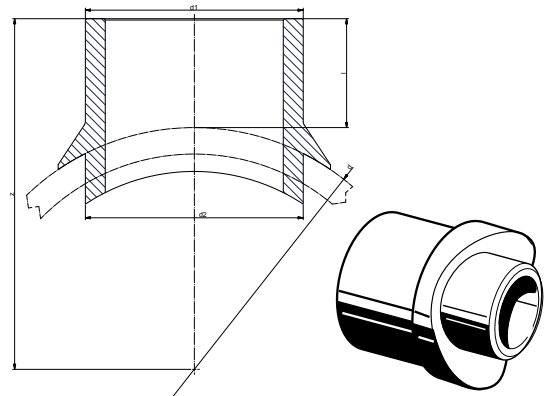
## WELD-IN SADDLE BUTT WELDING

**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	d2	l	z	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 64 onwards.

## WELD-IN SADDLE WITH FEMALE THREAD

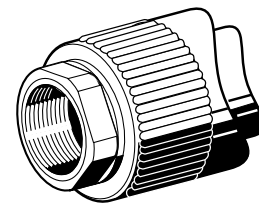
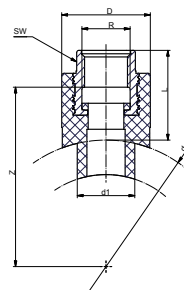
**Systems:** aquatherm green pipe, aquatherm blue pipe, aquatherm lilac pipe

**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	z	D	R	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>													
6 7.4 9 11 17.6	28214*	40	25	39,00	43,00	38,50	1/2"	24,00	0,088	• • •	5	300	
	28216	50	25	39,00	48,00	38,50	1/2"	24,00	0,090	• • •	5	300	
	28218	63	25	39,00	54,50	38,50	1/2"	24,00	0,089	• • •	5	300	
	28220	75	25	39,00	53,50	38,50	1/2"	24,00	0,083	• • •	5	300	
	28222	90	25	39,00	68,00	38,50	1/2"	24,00	0,090	• • •	5	300	
	28224	110	25	39,00	78,00	38,50	1/2"	24,00	0,089	• • •	5	300	
	28226	125	25	39,00	85,50	38,50	1/2"	24,00	0,092	• • •	5	250	
	28230	160	25	39,00	103,00	38,50	1/2"	24,00	0,092	• • •	5	250	
	28232	200	25	39,00	38,00	38,50	1/2"	24,00	0,092	• • •	5	50	
	28234	40	25	39,00	43,00	43,50	3/4"	31,00	0,107	• • •	5	300	
	28236	50	25	39,00	49,50	43,50	3/4"	31,00	0,110	• • •	5	300	
	28238	63	25	39,00	55,50	43,50	3/4"	31,00	0,109	• • •	5	300	
	28240	75	25	39,00	63,00	43,50	3/4"	31,00	0,109	• • •	5	300	
	28242	90	25	39,00	73,00	43,50	3/4"	31,00	0,110	• • •	5	300	
	28244	110	25	39,00	80,50	43,50	3/4"	31,00	0,110	• • •	5	300	
	28246	125	25	39,00	96,00	43,50	3/4"	31,00	0,112	• • •	5	300	
	28250	160	25	39,00	58,50	43,50	3/4"	31,00	0,112	• • •	5	250	
	28254	200	25	39,00	66,00	43,50	3/4"	31,00	0,112	• • •	5	250	
	28260	75	32	43,00	76,00	60,00	1"	39,00	0,223	• • •	5	125	
	28262	90	32	43,00	83,50	60,00	1"	39,00	0,223	• • •	5	125	
28264	110	32	43,00	101,00	60,00	1"	39,00	0,223	• • •	5	125		
28266	125	32	43,00	123,00	60,00	1"	39,00	0,224	• • •	5	125		
28270	160	32	43,00	118,00	60,00	1"	39,00	0,226	• • •	5	125		
28274	200	32	43,00	121,00	60,00	1"	39,00	0,244	• • •	5	25		

## WELD-IN SADDLE WITH MALE THREAD

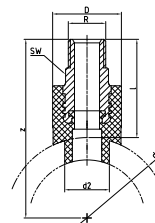
**Systems:** aquatherm green pipe, aquatherm blue pipe, aquatherm lilac pipe

**Material:** Fusiolen® PP-R

**Standard:** DIN 16962, DIN EN ISO 15874

**Colour:** green

**Notice** \*do not use with aquatherm blue pipe OT



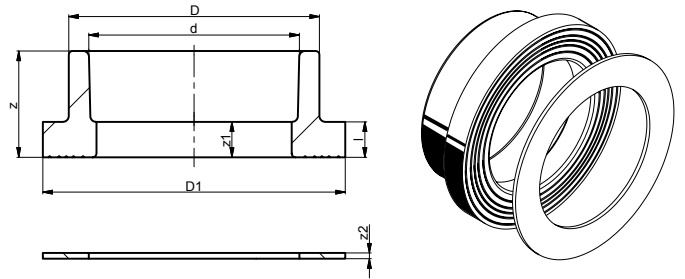
SDR	Art.-No.	d	d2	l	z	D	R	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>													
6 7.4 9 11 17.6	28314*	40	25	55,00	75,00	38,50	R1/2	21,00	0,088	• • •	5	300	
	28316	50	25	55,00	80,00	38,50	R1/2	21,00	0,090	• • •	5	300	
	28318	63	25	55,00	86,50	38,50	R1/2	21,00	0,089	• • •	5	300	
	28320	75	25	55,00	92,50	38,50	R1/2	21,00	0,097	• • •	5	300	
	28322	90	25	55,00	100,00	38,50	R1/2	21,00	0,090	• • •	5	300	
	28324	110	25	55,00	110,00	38,50	R1/2	21,00	0,089	• • •	5	300	
	28326	125	25	55,00	117,50	38,50	R1/2	21,00	0,092	• • •	5	300	
	28330	160	25	55,00	135,00	38,50	R1/2	21,00	0,092	• • •	5	300	
	28334	40	25	56,00	76,00	43,50	R3/4	24,00	0,107	• • •	5	250	
	28336	50	25	56,00	81,00	43,50	R3/4	24,00	0,110	• • •	5	250	
	28338	63	25	56,00	87,50	43,50	R3/4	24,00	0,109	• • •	5	250	
	28340	75	25	56,00	93,50	43,50	R3/4	24,00	0,109	• • •	5	250	
	28342	90	25	56,00	101,00	43,50	R3/4	24,00	0,110	• • •	5	250	
	28344	110	25	56,00	111,00	43,50	R3/4	24,00	0,110	• • •	5	250	
	28346	125	25	56,00	118,50	43,50	R3/4	24,00	0,112	• • •	5	250	
	28350	160	25	56,00	136,00	43,50	R3/4	24,00	0,112	• • •	5	250	

With hex shaped male thread, weld-in surface and weld-in socket for fusion with the inner wall of the pipe. The necessary tools for the fusion of aquatherm green pipe weld-in saddles are listed from page 64 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



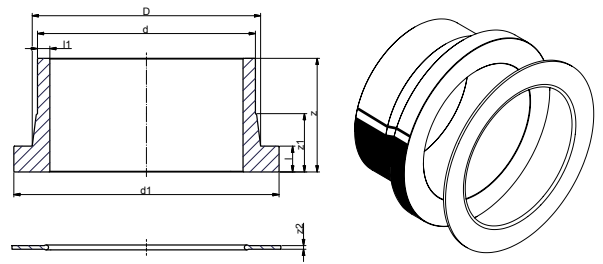
SDR	Art.-No.	Dimension d [mm]	l	z	D	D1	z1	z2	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>													
6 7.4 9 11	15512	32	11,00	35,00	41,00	68,00	17,00	3,00	0,053	• • •	1	500	
	15514	40	12,00	36,50	50,00	78,00	16,00	3,00	0,071	• • •	1	250	
	15516	50	13,00	40,50	61,00	88,00	17,00	3,00	0,071	• • •	1	200	
	15518	63	15,00	44,50	76,00	102,00	17,00	3,00	0,112	• • •	1	150	
	15520	75	17,00	47,00	90,00	122,00	17,00	3,00	0,169	• • •	1	80	
	15522	90	17,00	50,00	108,00	138,00	17,00	3,00	0,261	• • •	1	50	
	15524	110	18,50	55,50	131,00	158,00	18,50	3,00	0,329	• • •	1	40	
	15526*	125	18,50	202,00	131,00	158,00	18,50	3,00	1,263	• • •	1	16	
15527	125	20,00	63,00	165,00	188,00	23,00	3,00	0,724	• • •	1	25		

\* 125mm fitting with 110mm flange adaptor suitable for plastic coated steel flange Art. No. 15724

## 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



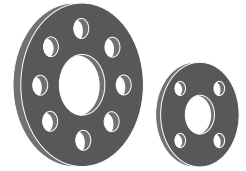
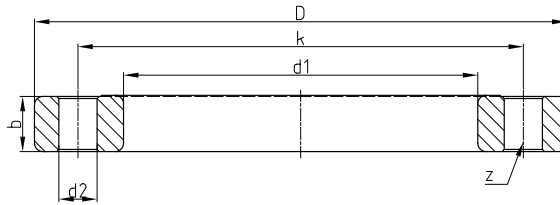
SDR	Art.-No.	Dimension d [mm]	l	z	D	D1	l1	z1	z2	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>butt welding</i>														
7.4	15530	160	25,00	93,00	175,00	212	21,90	53,00	3,00	1,163	• •	1	16	
	15534	200	32,00	130,00	232,00	268	27,40	72,00	6,00	2,292	• •	1	6	
	15538	250	35,00	130,00	285,00	320	34,20	75,00	6,00	3,298	• •	1	5	
9	315530	160	25,00	93,00	175,00	212	17,90	53,00	3,00	1,150	•	1		
	315534	200	32,00	130,00	232,00	268	22,40	72,00	6,00	2,292	•	1		
	315538	250	35,00	130,00	285,00	320	27,90	75,00	6,00	3,313	•	1		
	315542	315	35,00	170,00	335,00	370	35,20	81,00	6,00	5,640	•	1		
	315544	355	42,00	185,00	372,00	432	39,70	95,00	6,00	7,900	•	1		
11	15531	160	25,00	93,00	175,00	212	14,60	53,00	3,00	0,955	• •	1	16	
	15535	200	32,00	130,00	232,00	268	18,20	72,00	6,00	1,957	• •	1	6	
	15539	250	35,00	130,00	285,00	320	22,70	75,00	6,00	2,717	• •	1	5	
	15543	315	35,00	170,00	335,00	370	28,60	81,00	6,00	5,650	• •	1		
	15545	355	42,00	185,00	372,00	432	32,20	95,00	6,00	9,000	• •	1	1	
	15547	400	50,00	195,00	425,00	484	36,30	98,00	6,00	12,000	• •	1		
	15549	450	75,00	220,00	512,00	586	40,90	140,00	7,00	16,500	• •	1		
17.6	2515530	160	25,00	93,00	175,00	212	9,10	53,00	3,00	0,821	•	1		
	2515534	200	32,00	130,00	232,00	268	11,40	72,00	6,00	1,849	•	1		
	2515538	250	35,00	130,00	285,00	320	14,20	75,00	6,00	2,736	•	1		
	2515542	315	35,00	170,00	335,00	370	17,90	81,00	6,00	4,500	•	1		
	2515544	355	42,00	185,00	372,00	432	20,10	95,00	6,00	6,500	•	1		
	2515546	400	33,00	199,00	425,00	484	22,70	89,00	6,00	8,500	•	1		
	2515548	450	46,00	140,00	512,00	586	25,70	76,00	7,00	12,000	•	1		
	2515550	500	47,00	141,00	525,00	585	28,40	74,00	7,00	9,800	•	1		
	2515552	560	50,00	141,00	612,00	685	31,70	81,00	7,00	13,800	•	1		
	2515554	630	50,00	142,00	640,00	688	35,70	82,00	7,00	12,600	•	1		

## PLASTIC COATED STEEL FLANGE

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

**Material:** PP/steel

**Colour:** grey



SDR	Art.-No.	Dimension	fits to Art.-No.	d1	D	K	d2	b	z	Weight [kg]	System	PU	Box unit	Price € m/pc
socket welding														
	15712	32	15512	42	116,00	85,00	14	15,50	4,00	0,469	• • •	1		
	15714	40	15514	51	141,00	100,00	18	17,50	4,00	0,722	• • •	1		
	15716	50	15516	62	151,00	110,00	18	17,50	4,00	0,770	• • •	1		
	15718	63	15518	78	166,00	125,00	18	19,00	4,00	0,911	• • •	1		
	15720	75	15520	92	186,00	145,00	18	19,00	4,00	1,132	• • •	1		
	15722	90	15522	110	201,00	160,00	18	21,00	8,00	1,356	• • •	1		
	15724	110	15524/26	133	221,00	180,00	18	22,00	8,00	1,475	• • •	1		
	15726	125	15527	167	251,00	210,00	18	26,00	8,00	2,082	• • •	1		
	15730	160	15530	178	286,00	240,00	22	27,00	8,00	3,671	• •	1		
15531														
315530														
2515530														
	15734	200	15534	235	341,00	295,00	22	28,00	8,00	4,709	• •	1		
15535														
315534														
2515534														
6 7.4 9 11 17.6	15738	250	15538	288	406,00	350,00	22	31,00	12,00	7,094	• •	1		
15539														
315538														
2515538														
	15742	315	15543	340	460,00	400,00	22	34,50	12,00	9,500	• •	1		
315542														
	15744	355	15545	380	520,00	460,00	22	39,00	16,00	15,300	• •	1		
315544														
	15746	400	15547	430	565,00	515,00	26	34,00	16,00	19,680	• •	1		
2515546														
	15748	450	15549	517	670,00	620,00	26	42,00	20,00	22,880	• •	1		
2515548														
	15750	500	2515550	533	670,00	620,00	26	38,00	20,00	19,000	• •	1		
	15752	560	2515552	618	785,00	725,00	30	50,00	20,00	37,200	• •	1		
	15754	630	2515554	645	785,00	725,00	30	40,00	20,00	25,800	• •	1		

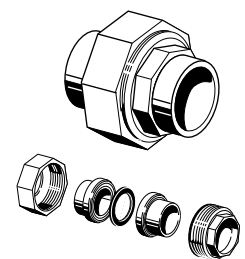
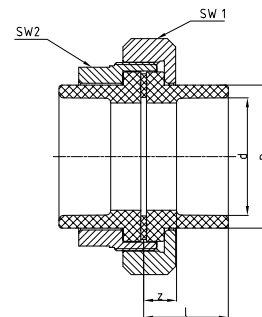
## COUPLING SCREW JOINT

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

**Material:** Fusiolen® PP-R, brass

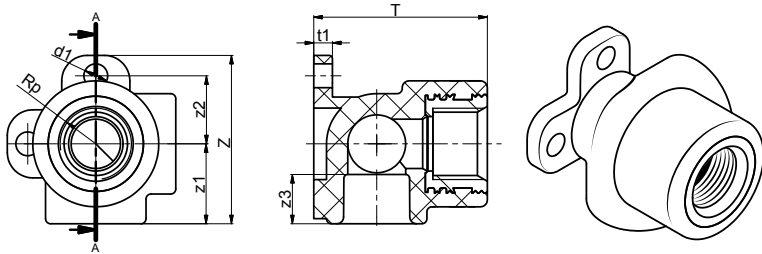
**Standard:** DIN 16962, DIN EN ISO 15874

**Colour:** green, brassy



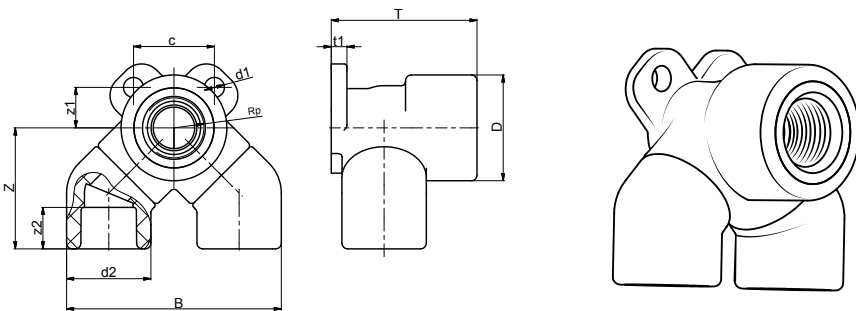
SDR	Art.-No.	Dimension d [mm]	l	z	D	SW1	SW2	Weight [kg]	System	PU	Box unit	Price € m/pc
socket welding												
	15812	32	36,50	18,50	41,00	64,00	50,00	0,479	• • •	1		
	15814	40	38,00	17,50	50,00	80,00	60,00	0,841	• • •	1		
	15816	50	41,00	17,50	61,00	86,00	70,00	0,821	• • •	1		
	15818	63	45,00	17,50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

**NEW PRINCIPLE OF FLOW-THROUGH BACK PLATE ELBOW**



**NEW aquatherm green pipe FLOW-THROUGH BACK PLATE ELBOW 90°**

Art.- No.	Dimension	d1	Z	z1	z2	z3	t1	T	Rp	PU	Box unit	Price € m/pc
<b>20197</b>	20 mm x 1/2" f x 20 mm	7,00	49,50	23,50	20,00	14,50	5,50	51,00	1/2"	1		



**NEW aquatherm green pipe FLOW-THROUGH BACK PLATE ELBOW, PARALLEL**

Art.- No.	Dimension	D	d1	d2	Z	z1	z2	t1	T	c	PU	Box unit	Price € m/pc
<b>20198</b>	20 mm x 1/2" f x 20 mm	37,00	7,00	29,50	42,30	14,14	14,50	5,50	51,00	28,11	1		

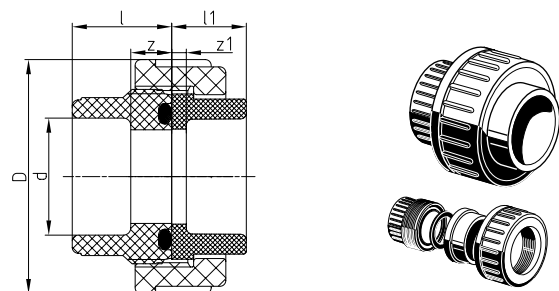
**COUPLING SCREW JOINT**

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

**Material:** Fusiolen® PP-R

**Standard:** DIN 16962, DIN EN ISO 15874

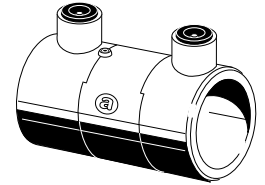
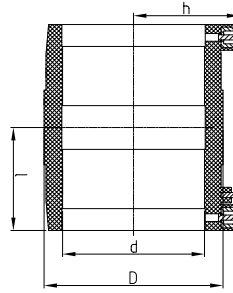
**Colour:** green



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	<b>15838</b>	<b>20</b>	26,00	12,00	20,00	5,50	46,00	0,036	• • •	10	300	
	<b>15840</b>	<b>25</b>	28,00	12,00	21,00	5,00	56,00	0,058	• • •	10	250	
	<b>15842</b>	<b>32</b>	32,00	12,00	23,00	5,00	66,00	0,089	• • •	5	200	
	<b>15844</b>	<b>40</b>	38,00	14,00	25,50	5,00	79,00	0,136	• • •	5	150	
	<b>15846</b>	<b>50</b>	45,00	16,00	28,50	5,00	87,00	0,170	• • •	5	100	
	<b>15848</b>	<b>63</b>	55,50	20,00	32,50	5,00	107,00	0,240	• • •	1	60	
	<b>15850</b>	<b>75</b>	50,00	20,00	36,00	6,00	128,00	0,546	• • •	1		

## ELECTROFUSION SOCKET

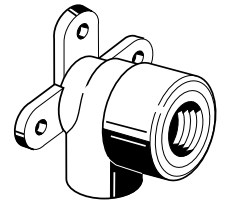
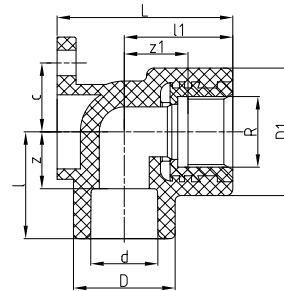
- Systems:** aquatherm green pipe,  
aquatherm blue pipe,  
aquatherm lilac pipe
- Material:** Fusiolen® PP-R
- Standard:** DIN 16962, DIN EN ISO 15874
- Colour:** green
- Notice** do not use with 160 mm - 250 mm fittings  
\*do not use with aquatherm green pipe MF OT



SDR	Art.-No.	Dimension d [mm]	l	h	D	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>Electro-socket welding</i>										
	17208	20	35,00	36,00	31,50	0,049	• • •	1	500	
	17210	25	39,00	38,50	36,50	0,057	• • •	1	350	
	17212	32	40,00	42,50	45,00	0,077	• • •	1	300	
	17214	40	46,00	47,00	54,00	0,103	• • •	1	200	
6	17216	50	51,50	52,00	65,00	0,142	• • •	1	130	
7.4	17218	63	59,00	58,00	81,50	0,239	• • •	1	75	
9	17220	75	65,00	64,50	96,00	0,347	• • •	1	45	
11	17222	90	72,50	72,00	113,50	0,501	• • •	1	30	
17.6	17224	110	80,00	82,50	139,00	0,821	• • •	1	22	
	17226	125	86,00	90,00	156,00	1,097	• • •	1	16	
	17230*	160	93,00	109,50	197,00	1,754	• • •	1	10	
	17234*	200	105,00	134,00	243,00	3,625	• • •	1		
	17238*	250	125,00	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
- Standard:** DIN 16962, DIN EN ISO 15874
- Colour:** green



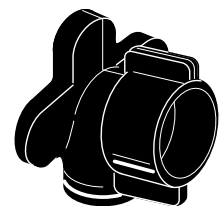
SDR	Art.-No.	d	R	l	z	D	l1	z1	D1	L	c	Weight [kg]	System	PU	Box unit	Price € m/pc
<i>socket welding</i>																
6	20106	16	1/2"	31,00	18,00	29,50	31,50	15,50	37,00	51,00	20,00	0,080	•	10	200	
7.4	20108	20	1/2"	31,00	16,50	29,50	31,50	15,50	37,00	51,00	20,00	0,079	• • •	10	200	
11	20110	20	3/4"	37,00	22,50	34,00	37,00	24,00	44,00	54,00	25,00	0,106	• • •	10	150	
	20112	25	3/4"	37,00	21,00	34,00	37,00	24,00	44,00	54,00	25,00	0,105	• • •	10	150	
	20113	25	1/2"	33,50	17,50	34,00	31,00	15,00	37,00	53,00	20,00	0,080	• • •	10	200	

## **DISCONTINUED** SOUND ISOLATION COVER

for aquatherm green pipe back plate elbow 1/2"

**Please note:** This is a discontinued article that is no longer available after sale of stocks.

Art.- No.	Dimension	PU	Box unit	Price € m/St
20120	Thickness approx. 5 mm	1		





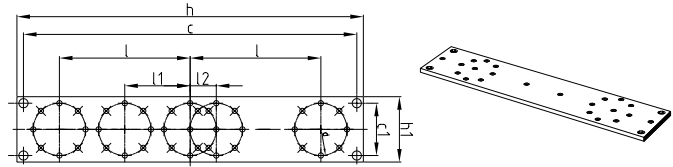
## MOUNTING PLATE

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	100,00	50,00	20,00	255,00	40,00	265,00	50,00	0,221	• • •	1		

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

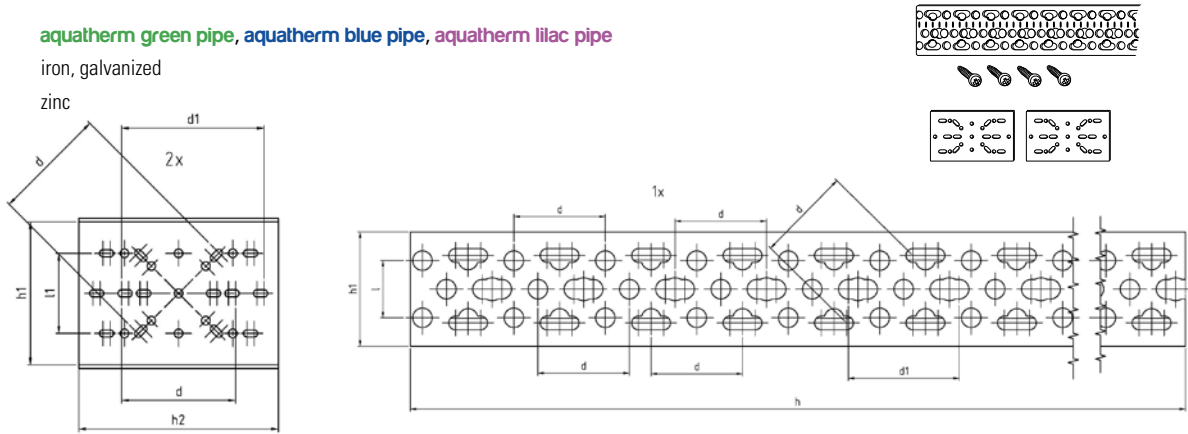
## MOUNTING PLATE

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	25,00	28,00	560,00	50,00	70,00	0,546	• • •	1		

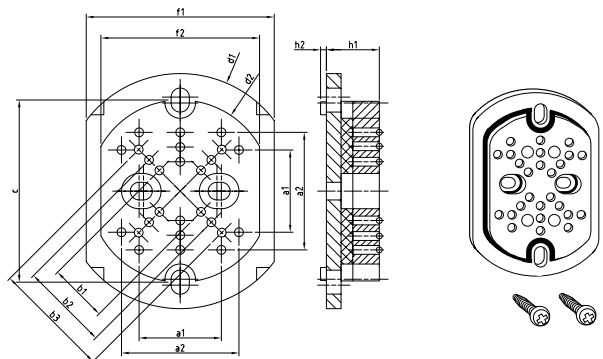
## SOUND ISOLATION PLATE

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



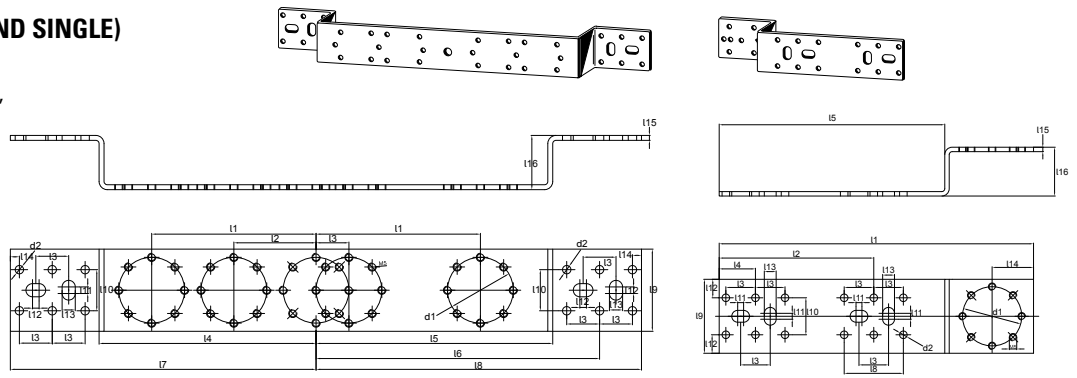
Art.-No.	a1	a2	b1	b2	b3	c	d1	d2	f1	f2	h1	h2	Weight [kg]	System	PU	Box unit	Price € m/pc
79080	28,00	40,00	20,00	30,00	40,00	62,00	80	62	64,00	54,00	18,00	2,00	0,058	• • •	2		

### MOUNTING RAIL (DOUBLE AND SINGLE)

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

**Material:** iron, galvanized

**Colour:** zinc

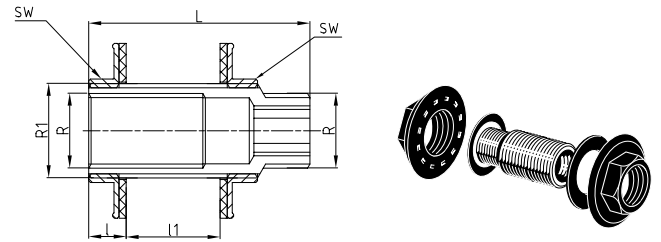


Art.-No.	ø d1	ø d2	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	Weight [kg]	System	PU	Price € m/pc
79095	40	5,1	100,00	50,00	20,00	132,00	144,00	172,50	186,00	198,00	50,00	25,00	4,00	4,00	8,00	5,50	3,00	33,00	0,412	• • •	2	6,89
79096	40	5,1	212,50	104,50	20,00	24,50	152,50	-	-	40,00	50,00	25,00	4,00	12,50	8,00	28,00	3,00	33,00	0,235	• • •	2	3,39

### DRY CONSTRUCTION WALL FITTING

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

**Material:** brass



Art.-No.	R	R1	L	SW	Weight [kg]	System	PU	Box unit	Price € m/pc		
20114	1/2"	3/4"	10,50	26,00	62,00	30,00	0,213	• • •	10	300	

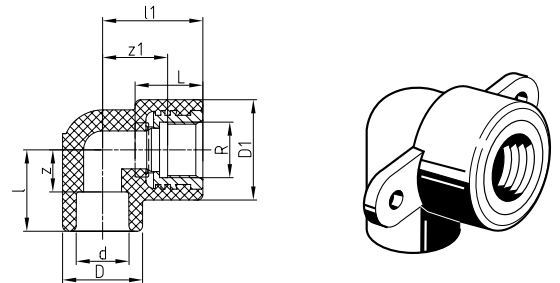
### BACK PLATE ELBOW FOR DRY CONSTRUCTION

**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	z1	D1	L	c	Weight [kg]	System	PU	Box unit	Price € m/pc
6	<i>socket welding</i>															
7.4	20156	16	1/2"	30,00	17,00	29,50	37,00	24,00	37,00	25,00	59,00	0,081	•	10	250	
11	20158	20	1/2"	30,00	15,50	29,50	37,00	24,00	37,00	25,00	59,00	0,079	• • •	10	200	

### TRANSITION PIECE

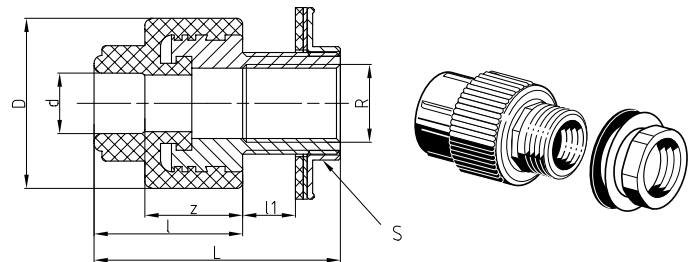
with counternut, gasket and tension washer

**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	
6	<i>socket welding</i>														
7.4	20204	20	1/2"	40,00	25,50	43,50	13,50	65,00	29,00	0,204	• • •	10			

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

## TRANSITION ELBOW

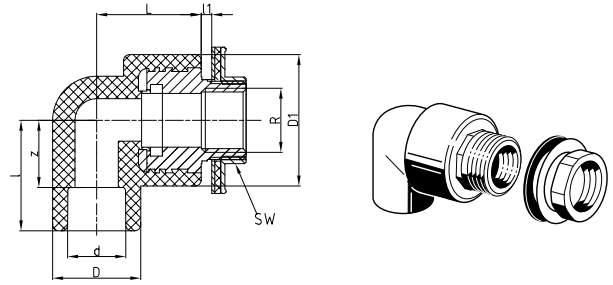
with counter nut, gasket and tension washer

**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	L	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	29,00	0,201	•	10		
7.4	20208	20	1/2"	37,00	22,50	29,50	3,50	35,00	44,00	29,00	0,154	• • •	10		
11	20209	25	1/2"	37,00	21,00	34,00	3,50	37,00	44,00	29,00	0,206	• • •	10		

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

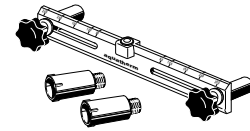
## ASSEMBLING JIG

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.	a	b	h1	l1	l2	d	l	R	Weight [kg]	System	PU	Box unit	Price € m/pc
50700	280,00	36,00	8,00	80,00	250,00	28	55,50	1/2"	0,252	• • •	1		

## PLUG FOR PRESSURE TESTS

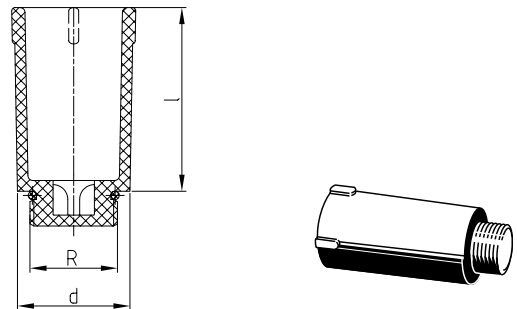
with gasket

**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	Weight [kg]	System	PU	Box unit	Price € m/pc
50708	28	1/2"	55,50	0,022	• • •	10		
50710	34	3/4"	55,50	0,027	• • •	10		

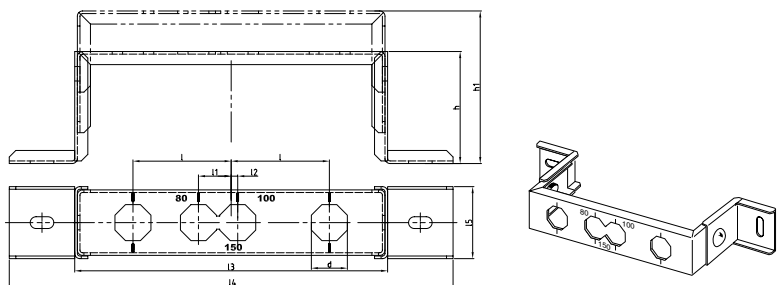
## MOUNTING UNIT

double

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

**Material:** iron/galvanized

**Colour:** zinc



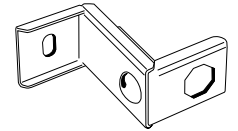
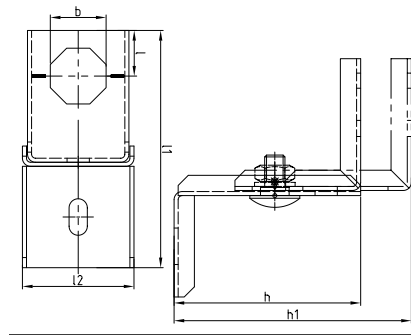
Art.-No.	b	l	l1	l2	h	h1	l3	l4	l5	Weight [kg]	System	PU	Box unit	Price € m/pc
60110	27,50	75,00	25,00	5,00	92,50	122,50	239,00	339,00	55,00	0,630	• • •	1		

## 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	27,50	118,00	22,50	55,00	92,50	122,50	0,278	• • •	1		

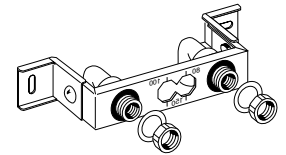
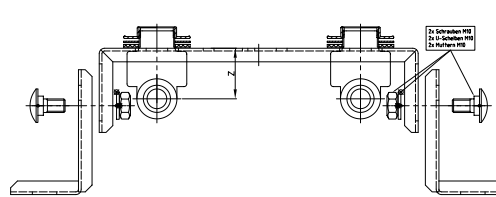
## MOUNTING UNIT

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	27,50	75,00	25,00	5,00	92,50	122,50	239,00	339,00	55,00	0,942	• • •	1		

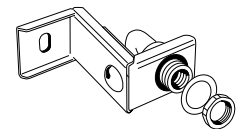
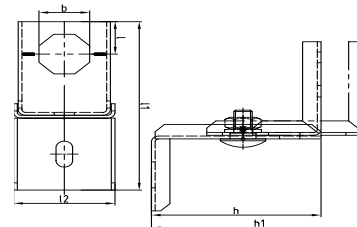
## MOUNTING UNIT

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



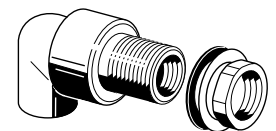
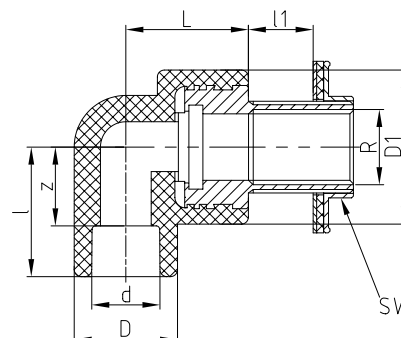
Art.-No.	b	l	l1	l2	h	h1	Weight [kg]	System	PU	Box unit	Price € m/pc
60155	27,50	22,50	118,00	55,00	92,50	122,50	0,434	• • •	1		

## 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	20210	20	1/2"	37,00	22,50	29,50	35,00	18,50	44,00	29,00	0,223	• • •	10		
7.4															
11															

with 30 mm thread, counternut, gasket and tension washer

## TRANSITION PIECE WITH FEMALE THREAD

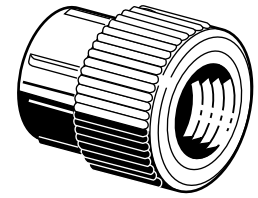
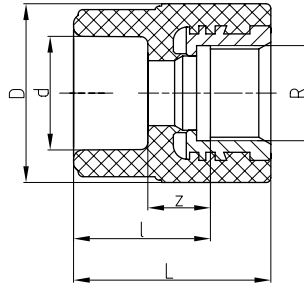
round

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

**Material:** Fusiolen® PP-R, brass

**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 7.4 9 11	21006	16	1/2"	28,00	15,00	38,50	41,00	0,066	•	10	400	
	21008	20	1/2"	27,50	13,00	37,50	40,50	0,064	• • •	10	400	
	21010	20	3/4"	27,50	13,00	43,50	40,50	0,089	• • •	10	300	
	21011	25	1/2"	29,00	13,00	37,50	42,00	0,065	• • •	10	400	
	21012	25	3/4"	27,50	11,50	43,50	40,50	0,087	• • •	10	300	
	21013	32	3/4"	30,50	12,50	43,50	43,50	0,092	• • •	5	200	

## TRANSITION PIECE WITH FEMALE THREAD

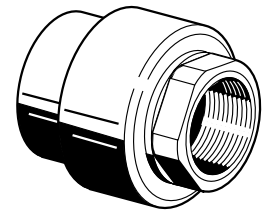
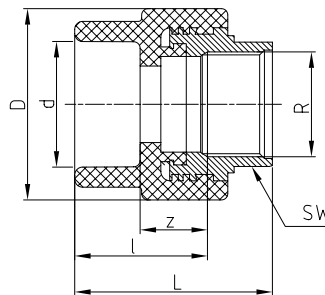
hex shaped threaded transition

**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	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7.4 9 11	21106	16	1/2"	34,50	21,50	38,50	50,50	24,00	0,089	•	10	400	
	21108	20	1/2"	34,50	20,00	37,50	50,50	24,00	0,078	• • •	10	400	
	21110	20	3/4"	29,00	14,50	43,50	50,00	31,00	0,112	• • •	10	300	
	21111	25	1/2"	36,00	20,00	37,50	52,00	24,00	0,089	• • •	10	300	
	21112	25	3/4"	29,00	13,00	43,50	50,00	31,00	0,109	• • •	10	300	
	21113	32	3/4"	32,00	14,00	43,50	53,00	31,00	0,114	• • •	5	150	
	21114	32	1"	37,50	19,50	60,00	59,50	39,00	0,239	• • •	5	125	
	21115	40	1"	40,00	19,50	60,00	62,00	39,00	0,227	• • •	5	125	
	21116	40	1 1/4"	40,00	19,50	74,00	63,00	50,00	0,385	• • •	5	80	
	21117	50	1 1/4"	43,00	19,50	74,00	66,00	50,00	0,404	• • •	5	75	
	21118	50	1 1/2"	45,00	21,50	85,50	67,00	55,00	0,418	• • •	5	60	
	21119	63	1 1/2"	51,50	24,00	84,00	73,50	55,00	0,442	• • •	1	50	
	21120	63	2"	51,00	23,50	101,00	77,00	67,00	0,600	• • •	1	35	
	21122	75	2"	51,00	21,00	100,00	77,00	67,00	0,608	• • •	1	25	

## TRANSITION PIECE WITH MALE THREAD

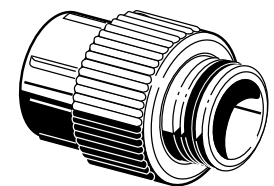
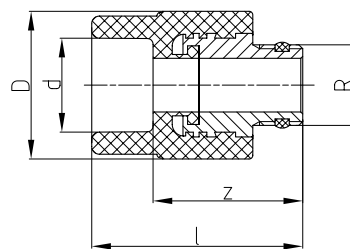
round, self sealing

**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	D	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7.4 11	21258	20	1/2"	52,50	38,00	38,50	0,090	• • •	10		
	21261	25	1/2"	54,00	38,00	38,50	0,078	• • •	10		
	21262	25	3/4"	53,50	37,50	38,50	0,085	• • •	10		

## TRANSITION PIECE WITH MALE THREAD

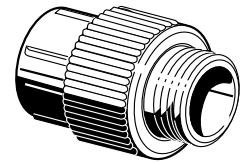
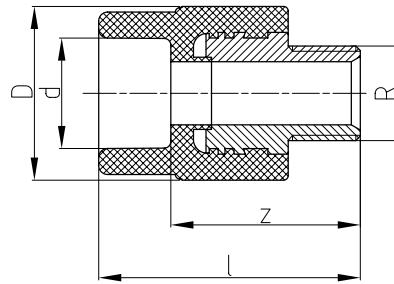
round

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

**Material:** Fusiolen® PP-R, brass

**Standard:** DIN 16962, DIN EN ISO 15874

**Colour:** green



SDR	Art.-No.	d	R	l	z	D	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7.4 9 11	21206	16	1/2"	56,50	43,50	38,50	0,097	•	10	400	
	21208	20	1/2"	56,50	42,00	38,50	0,084	• • •	10	400	
	21210	20	3/4"	57,50	43,00	38,50	0,109	• • •	10	300	
	21211	25	1/2"	58,00	42,00	38,50	0,098	• • •	10	300	
	21212	25	3/4"	57,50	41,50	38,50	0,090	• • •	10	350	
	21213	32	3/4"	59,50	41,50	43,00	0,115	• • •	5	250	

## TRANSITION PIECE WITH MALE THREAD

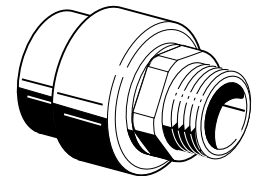
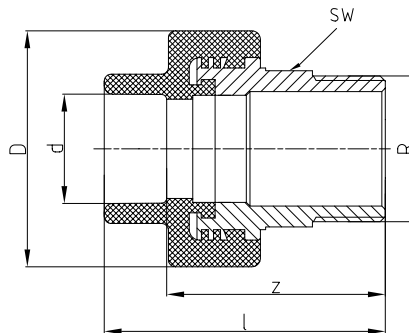
with hexagon or \*octagon

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

**Material:** Fusiolen® PP-R, brass

**Standard:** DIN 16962, DIN EN ISO 15874

**Colour:** green



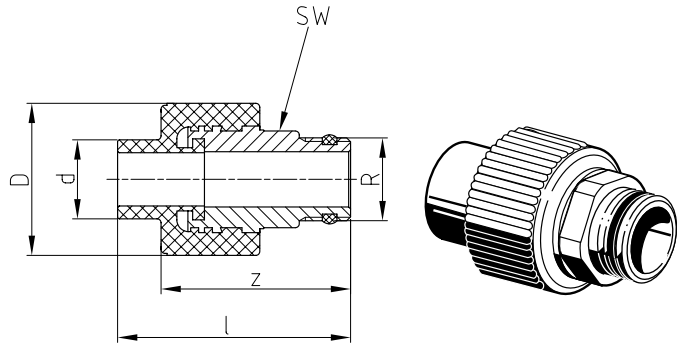
SDR	Art.-No.	d	R	l	z	D	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7.4 9 11	21306	16	1/2"	66,50	53,50	38,50	0,119	•	10	300	
	21308	20	1/2"	66,50	52,00	38,50	0,104	• • •	10	300	
	21310	20	3/4"	67,50	53,00	38,50	0,129	• • •	10	300	
	21312	25	3/4"	67,50	51,50	38,50	0,103	• • •	10	300	
	21314	32	1"	78,50	60,50	53,00	0,216	• • •	5	125	
	21316	32	1 1/4"	81,00	63,00	68,00	0,318	• • •	5	100	
	21317	40	1"	81,00	60,50	52,00	0,222	• • •	5	100	
	21318	40	1 1/4"	84,50	64,00	68,00	0,324	• • •	5	80	
	21319	50	1 1/4"	85,50	62,00	68,00	0,351	• • •	5	75	
	21320	50	1 1/2"	88,50	65,00	74,00	0,425	• • •	5	60	
	21321	63	1 1/2"	94,50	67,00	72,50	0,467	• • •	1	40	
	21322	63	2"	102,50	75,00	84,00	0,685	• • •	1	40	
	21323	75	2"	102,00	72,00	84,00	0,733	• • •	1	25	
	21324	75	2 1/2"	105,00	75,00	100,00	0,970	• • •	1	25	
	21325*	90	3"	121,00	88,00	120,00	1,326	• • •	1	20	
	21327*	110	4"	148,00	111,00	147,00	2,730	• • •	1	8	

**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. aquatherm green pipe stainless steel price list Order- No.: E53180 on request!!

## 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

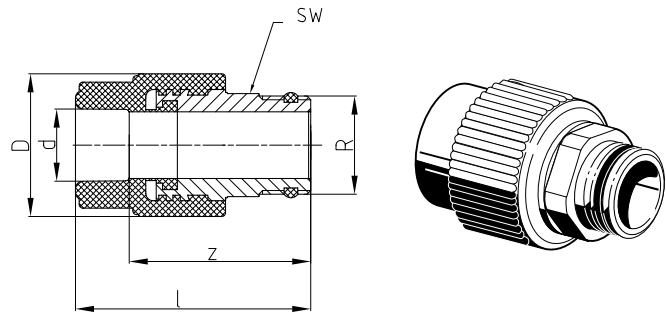


SDR	Art.-No.	d	R	l	z	D	Weight [kg]	System	PU	Box unit	Price € m/pc
7.4	21355	20	1/2"	59,00	48,00	38,50	0,107	• • •	10		

## TRANSITION PIECE WITH MALE THREAD

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

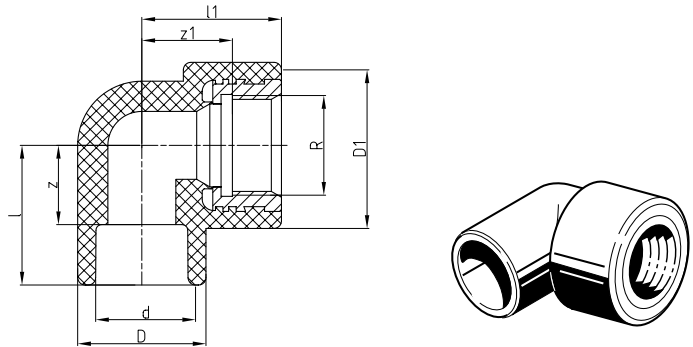
**Systems:** aquatherm green pipe,  
aquatherm blue pipe,  
aquatherm lilac pipe  
**Material:** Fusiolen® PP-R, brass  
**Standard:** DIN 16962, DIN EN ISO 15874  
**Colour:** green



SDR	Art.-No.	d	R	l	z	D	Weight [kg]	System	PU	Box unit	Price € m/pc
6	21356	16	1/2"	63,50	50,50	38,50	0,112	•	10		
7.4											
11	21358	20	1/2"	63,50	49,00	38,50	0,111	• • •	10		

## 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	D	l1	z1	D1	Weight [kg]	System	PU	Box unit	Price € m/pc
	23006	16	1/2"	31,50	18,50	29,50	37,00	24,00	37,00	0,072	•	10	300	
	23008	20	3/4"	37,00	22,50	34,00	37,00	24,00	44,00	0,102	• • •	10	250	
6	23010	20	1/2"	31,50	17,00	29,50	31,50	18,50	37,00	0,076	• • •	10	300	
7.4	23012	25	3/4"	37,00	21,00	34,00	37,00	24,00	44,00	0,100	• • •	10	200	
9														
11	23014	25	1/2"	34,00	18,00	34,00	37,00	24,00	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	150	
	23018	32	1"	34,00	16,00	43,00	66,50	44,50	60,50	0,249	• • •	5	100	

**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. aquatherm green pipe stainless steel price list Order- No.: E53180 on request!!

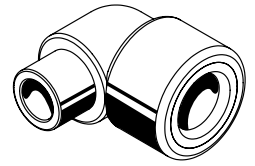
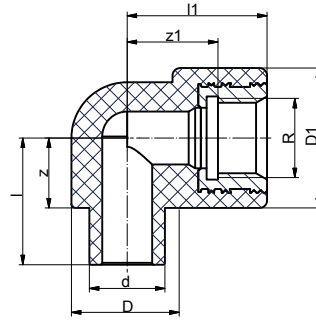
## TRANSITION ELBOW WITH FEMALE THREAD

**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	D	l1	z1	D1	Weight [kg]	System	PU	Box unit	Price € m/pc
6														
7.4	23208	20	1/2"	33,50	18,50	29,50	37,00	24,00	37,00	0,076	• • •	10	300	
11														

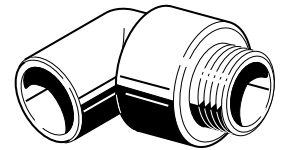
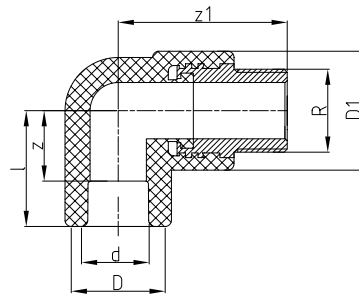
## TRANSITION ELBOW WITH MALE THREAD

**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	z1	D1	Weight [kg]	System	PU	Box unit	Price € m/pc
	23504	16	1/2"	31,50	18,50	29,50	53,00	37,00	0,109	•	10	400	
	23506	20	1/2"	31,50	17,00	29,50	53,00	37,00	0,108	• • •	10	300	
6													
7.4	23508	20	3/4"	37,00	22,50	34,00	54,00	38,00	0,128	• • •	10	200	
9	23510	25	3/4"	37,00	21,00	34,00	54,00	38,00	0,104	• • •	10	250	
11	23512	32	3/4"	27,50	9,50	43,00	68,00	38,00	0,112	• • •	5	150	
	23514	32	1"	31,00	13,00	43,00	85,50	52,00	0,231	• • •	5	100	

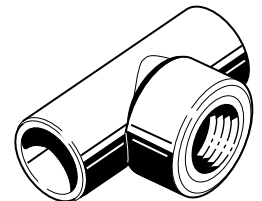
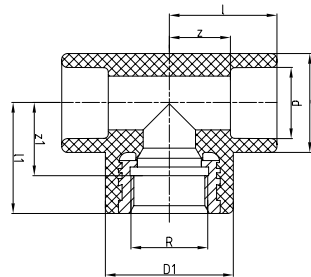
## THREADED BRANCH TEE WITH FEMALE THREAD

**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	l1	z1	D1	Weight [kg]	System	PU	Box unit	Price € m/pc
	25004	16	1/2"	31,50	18,50	29,50	37,00	24,00	37,00	0,089	•	10	250	
	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"	34,00	18,00	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	
6	25013	32	1/2"	35,00	17,00	43,00	37,00	24,00	37,00	0,103	• • •	5		
7.4	25014	32	3/4"	27,50	9,50	43,00	51,00	38,00	44,00	0,111	• • •	5	100	
9	25016	32	1"	31,50	13,50	43,00	65,00	43,00	60,00	0,255	• • •	5	80	
11	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	44,00	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	43,50	68,00	0,385	• • •	5	40	
	25030	50,00	1/2"	49,50	26,00	68,00	44,50	31,50	43,00	0,237	• • •	5		
	25031	50,00	3/4"	49,50	26,00	68,00	44,50	31,50	43,00	0,243	• • •	5		

**Notice:** aquatherm green pipe-metal compound fittings are manufactured from fusiolen PP-R and brass. Metal inserts, without hex shaped spanner flat, with 1/2" and 3/4" f are also available in stainless steel. aquatherm green pipe stainless steel price list Order- No.: E53180 on request!!



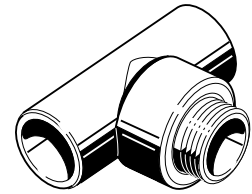
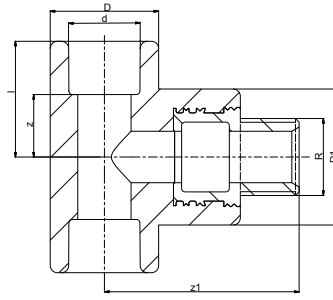
## THREADED BRANCH TEE WITH MALE THREAD

**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	z1	D1	Weight [kg]	System	PU	Box unit	Price € m/pc
6													
7.4	25506	20	1/2"	31,50	17,00	29,50	53,00	37,00	0,102	• • •	10	200	
11													

## TRANSITION COUPLING WITH MALE THREAD

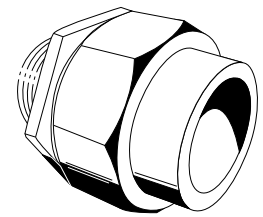
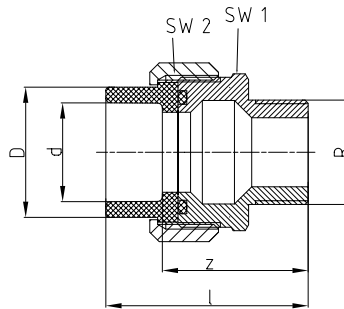
with union nut and welding socket

**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	D	SW1	SW2	Weight [kg]	System	PU	Box unit	Price € m/pc
	26608	20	1/2"	54,50	40,00	27,50	36,00	36,00	0,145	• • •	1		
	26610	25	3/4"	59,50	43,50	36,00	46,00	46,00	0,243	• • •	1		
6													
7.4	26612	32	1"	64,50	46,50	41,50	52,00	50,00	0,336	• • •	1		
9													
11	26614	40	1 1/4"	70,00	49,50	53,00	64,00	65,00	0,632	• • •	1		
	26616	50	1 1/2"	86,50	63,00	59,00	72,00	57,00	0,624	• • •	1		
	26618	63	2"	95,50	68,00	74,00	89,00	66,00	1,045	• • •	1		

## TRANSITION COUPLING WITH FEMALE THREAD

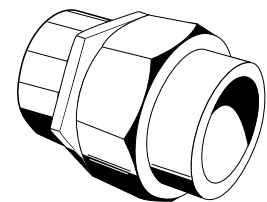
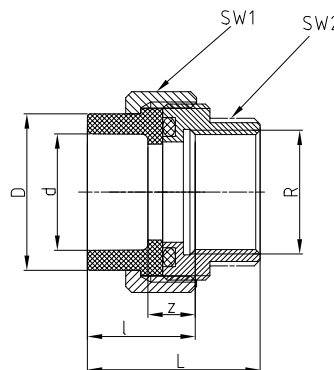
with union nut and welding socket

**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	l	z	D	L	SW1	SW2	Weight [kg]	System	PU	Box unit	Price € m/pc
	26638	20	1/2"	30,00	15,50	27,50	45,00	36,00	25,00	0,083	• • •	1		
	26640	25	3/4"	32,00	16,00	36,00	49,00	45,00	32,00	0,193	• • •	1		
6														
7.4	26642	32	1"	37,00	19,00	41,50	54,00	52,00	40,00	0,291	• • •	1		
9														
11	26644	40	1 1/4"	36,50	16,00	53,00	58,50	64,00	47,00	0,423	• • •	1		
	26646	50	1 1/2"	45,50	22,00	59,00	64,50	72,00	57,00	0,610	• • •	1		
	26648	63	2"	50,50	23,00	74,00	74,50	89,00	68,00	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. aquatherm green pipe stainless steel price list Order-. No.: E53180 on request!!

## LOOSE NUT ADAPTER

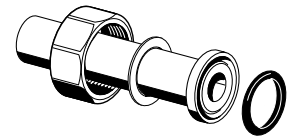
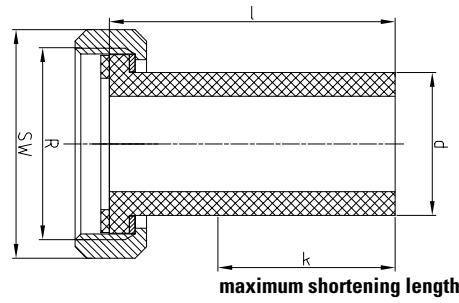
length: 100 mm, with gasket

**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	k	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7.4 9 11	26708	20	1"	100,00	65,00	36,00	0,079	• • •	1	150	
	26710	25	1 1/4"	100,00	62,00	46,00	0,104	• • •	1	125	
	26712	32	1 1/2"	100,00	58,00	52,00	0,175	• • •	1	100	
	26714	40	2"	100,00	53,00	64,00	0,258	• • •	1	75	
	26716	50	2 1/4"	100,00	49,00	72,00	0,344	• • •	1	60	
	26718	63	2 3/4"	100,00	43,00	89,00	0,583	• • •	1	40	
	26720	75	3 1/2"	100,00	34,00	110,00	0,918	• • •	1	30	
	26722	90	4"	100,00	26,00	120,00	1,238	• • •	1	20	

## WATER METER NUT ADAPTER

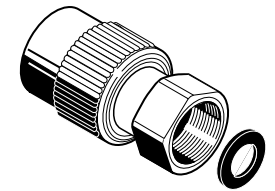
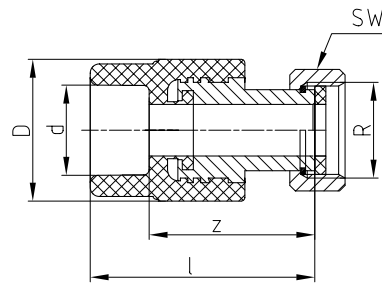
with gasket

**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	Nut R	l	z	D	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
6	26808	20	3/4"	59,50	45,00	38,50	30,00	0,136	• • •	1		
7.4	26810	25	3/4"	61,00	45,00	38,50	30,00	0,155	• • •	1		
9	26812	32	3/4"	62,00	44,00	43,50	30,00	0,162	• • •	1		

## NUT ADAPTER

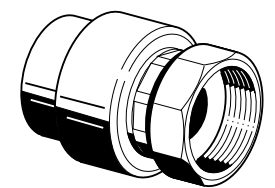
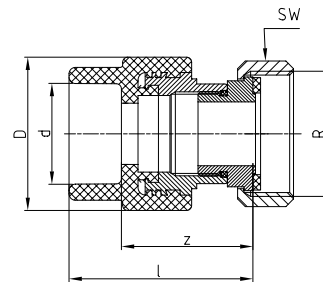
ISO-standard

**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	z	D	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7.4 9 11	27010	20	1"	58,50	36,00	38,50	36,00	0,182	• • •	10		
	27011	25	1"	60,00	44,00	38,50	36,00	0,186	• • •	10		
	27012	25	1 1/4"	60,00	44,00	43,50	46,00	0,274	• • •	10		
	27013	32	1 1/4"	63,00	45,00	43,50	46,00	0,279	• • •	5		
	27014	32	1 1/2"	69,50	51,50	60,00	52,00	0,446	• • •	5		
	27015	40	1 1/2"	72,00	51,50	60,00	52,00	0,421	• • •	5		
	27016	40	2"	72,00	51,50	74,00	64,00	0,719	• • •	5		
	27017	50	2"	77,00	53,50	74,00	64,00	0,736	• • •	5		
	27018	50	2 1/4"	77,00	54,50	84,00	72,00	0,831	• • •	5		
	27019	63	2 1/4"	83,50	56,00	84,00	72,00	0,889	• • •	1		
	27020	63	2 3/4"	84,00	56,50	101,00	89,00	1,306	• • •	1		
	27021	75	2 3/4"	85,00	55,00	100,00	89,00	1,275	• • •	1		
	27022	75	3 1/2"	91,00	61,00	100,00	110,00	1,818	• • •	1		

## COUNTERPART

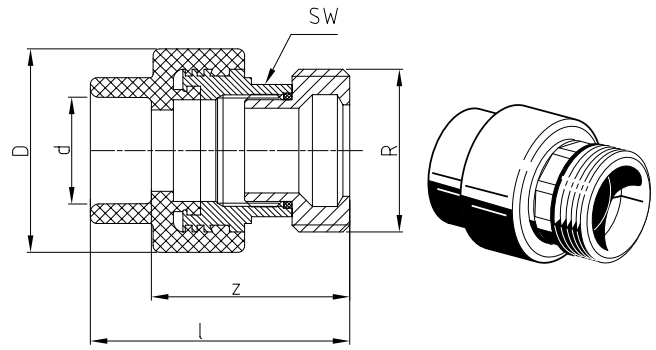
with welding socket and male thread for ISO-standard adapter

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

**Material:** Fusiolen® PP-R, brass

**Standard:** DIN 16962, DIN EN ISO 15874

**Colour:** green



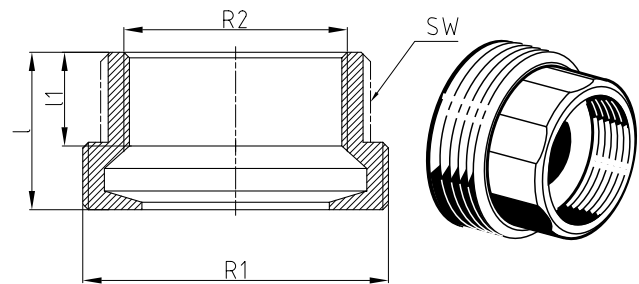
SDR	Art.-No.	d	Thread R	l	z	D	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7.4 9 11	27310	20	1"	61,50	47,00	38,50	24,00	0,151	• • •	10	300	
	27311	25	1"	63,00	47,00	38,50	24,00	0,153	• • •	10	300	
	27312	25	1 1/4"	63,00	47,00	43,50	31,00	0,221	• • •	10	250	
	27313	32	1 1/4"	66,00	48,00	43,50	31,00	0,226	• • •	5	175	
	27314	32	1 1/2"	76,50	58,50	60,00	39,00	0,408	• • •	5	125	
	27315	40	1 1/2"	79,00	58,50	60,00	39,00	0,414	• • •	5	125	
	27316	40	2"	81,00	60,50	74,00	50,00	0,650	• • •	5	70	
	27317	50	2"	84,00	60,50	74,00	50,00	0,634	• • •	5	70	
	27318	50	2 1/4"	83,00	59,50	84,00	55,00	0,750	• • •	5	50	
	27319	63	2 1/4"	89,50	62,00	84,00	55,00	0,728	• • •	1	45	
	27320	63	2 3/4"	94,00	66,50	101,00	67,00	1,093	• • •	1	30	
	27321	75	2 3/4"	95,00	65,00	100,00	67,00	1,117	• • •	1	30	
27322	75	3 1/2"	100,00	70,00	100,00	67,00	1,436	• • •	1	30		

## 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	l1	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7.4 9 11	27510	1"	1/2"	25,00	15,00	25,00	0,063	• • •	10	400	
	27512	1 1/4"	3/4"	28,00	18,00	32,00	0,119	• • •	10	200	
	27514	1 1/2"	1"	31,00	17,00	40,00	0,175	• • •	5	125	
	27516	2"	1 1/4"	33,00	22,00	47,00	0,263	• • •	5	75	
	27518	2 1/4"	1 1/2"	36,00	19,00	57,00	0,333	• • •	5	60	
	27520	2 3/4"	2"	42,00	24,00	68,00	0,517	• • •	1	35	
	27522	3 1/2"	2 1/2"	46,00	27,00	84,00	0,801	• • •	1	25	
	27524	4"	3"	46,00	27,00	97,00	0,943	• • •	1	25	

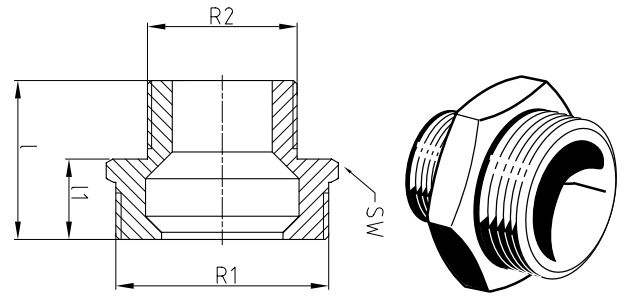
**Notice:** aquatherm green pipe-metal compound fittings are manufactured from fusiolen PP-R and brass. Metal inserts, without hex shaped spanner flat, with 1/2" and 3/4" f are also available in stainless steel. aquatherm green pipe stainless steel price list Order-. No.: E53180 on request!!

## 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	SW	Weight [kg]	System	PU	Box unit	Price € m/pc
	27710	1"	1/2"	34,50	18,50	36,00	0,109	• • •	10	250	
	27712	1 1/4"	3/4"	38,50	21,00	46,00	0,188	• • •	10	140	
6	27714	1 1/2"	1"	41,50	22,50	50,00	0,211	• • •	5	100	
7.4	27716	2"	1 1/4"	44,50	22,50	65,00	0,363	• • •	5	60	
9	27718	2 1/4"	1 1/2"	58,00	36,00	57,00	0,472	• • •	5	50	
11	27720	2 3/4"	2"	63,00	38,00	66,00	0,803	• • •	1	25	
	27722	3 1/2"	2 1/2"	70,00	42,00	82,00	1,189	• • •	1	15	
	27724	4"	3"	74,00	42,00	97,00	1,398	• • •	1	10	

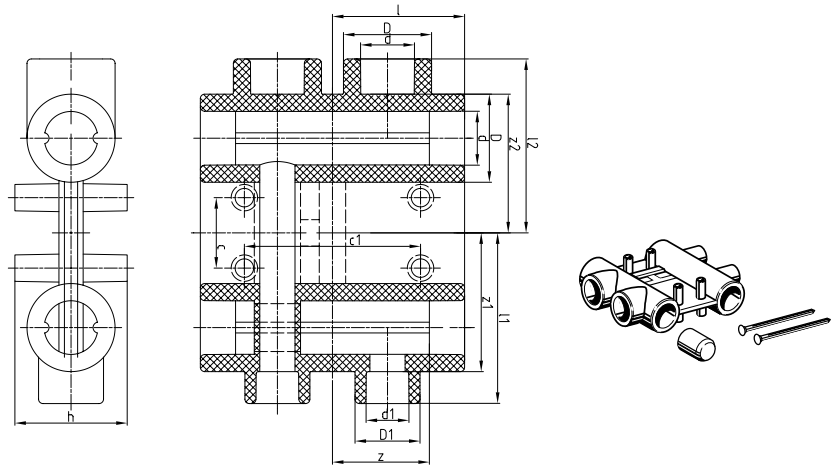
## DISTRIBUTION BLOCK PLUMBING

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	30115	25	60,00	44,00	40,00	20	77,50	63,00	29,50	79,00	63,00	32,00	80,00	100,00	36,00	51,00	0,273	• • •	1		
11																					

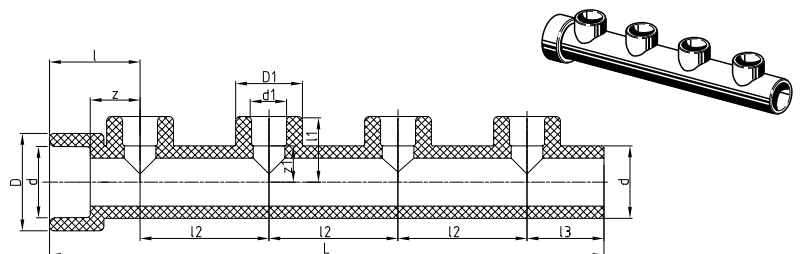
## FOUR-PORT MANIFOLD

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	40,00	22,00	43,00	29,00	16,00	29,50	57,00	36,00	245,00	0,148	•	1		
9																	
11	30604	32	20	40,00	22,00	43,00	29,00	14,50	29,50	57,00	36,00	245,00	0,134	• • •	1		

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

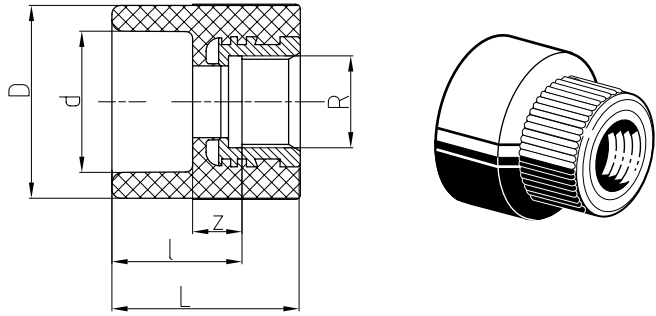
## MANIFOLD END PIECE WITH FEMALE THREAD\*

**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

**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. aquatherm green pipe stainless steel price list Order- No.: E53180 on request!!

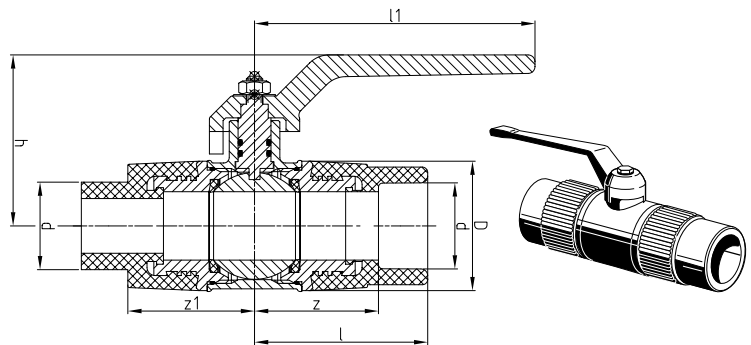
## BALL VALVE FOR MANIFOLD

female/male

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

**Material:** Fusiolen® PP-R, brass

**Colour:** green

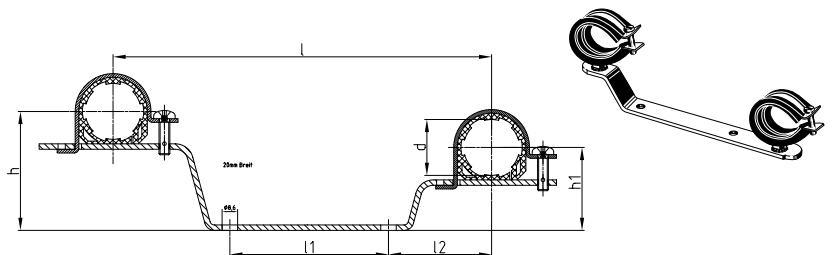


SDR	Art.-No.	d	l	z	D	z1	h	l1	Weight [kg]	System	PU	Box unit	Price € m/pc
6	78000	32	63,00	45,00	47,50	46,50	78,00	108,00	0,575	• • •	2		
7.4													
9													
11													

## 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		

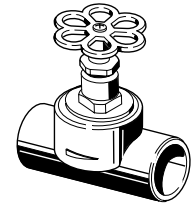
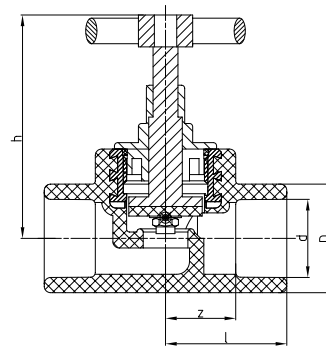
## GLOBE VALVE

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	70,00	0,165	• • •	1	100	
7.4	40810	25	38,00	22,00	34,00	70,00	0,172	• • •	1	100	
9	40812	32	49,00	31,00	43,00	86,50	0,314	• • •	1	60	
11	40814	40	60,00	39,50	52,00	100,50	0,585	• • •	1	35	

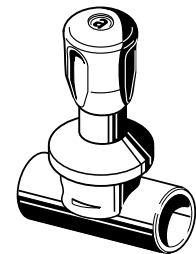
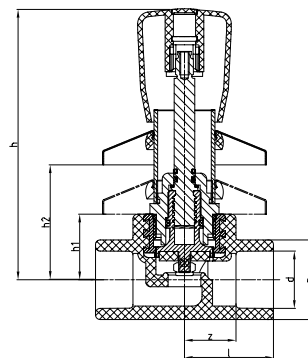
## CONCEALED VALVE

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	40	
7.4	40860	25	38,00	22,00	34,00	116,00	28,00	59,00	0,330	• • •	1	40	
9	40862	32	49,00	31,00	43,00	121,00	34,00	59,00	0,416	• • •	1	30	

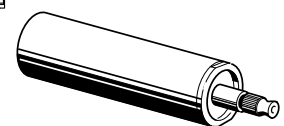
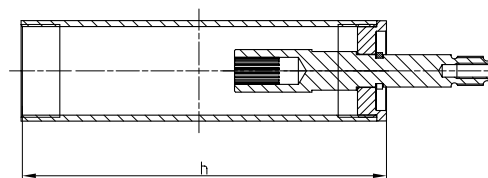
## EXTENSION FOR CONCEALED VALVE

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	300	
40902	132,00	0,209	• • •	1	200	

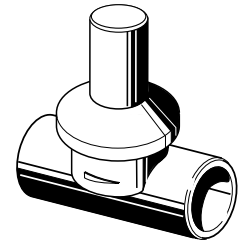
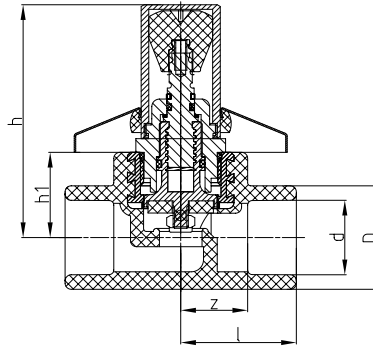
## CONCEALED VALVE

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	50	
9												
11	40872	32	49,00	31,00	43,00	82,50	34,00	0,376	• • •	1	30	

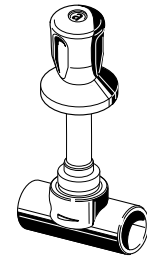
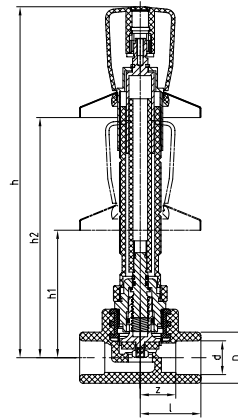
## CONCEALED VALVE

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	40	
7.4	40880	25	38,00	22,00	34,00	213,00	59,00	147,00	0,369	• • •	1	40	
9													
11	40882	32	49,00	31,00	43,00	219,00	65,00	153,00	0,455	• • •	1	20	

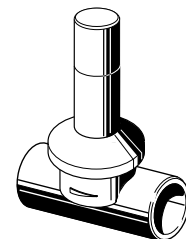
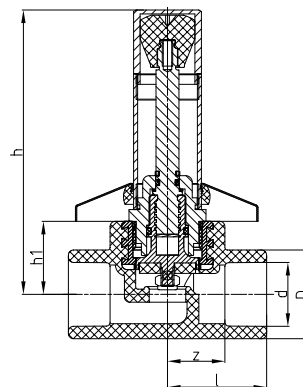
## CONCEALED VALVE

tamper proof, chromium-plated

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

**Material:** Fusiolen® PP-R, brass

**Colour:** green, chrom



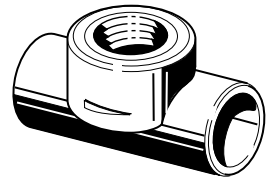
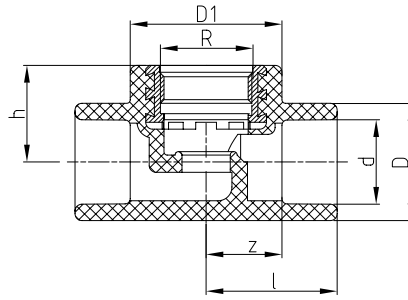
SDR	Art.-No.	d	l	z	D	h	h1	Weight [kg]	System	PU	Box unit	Price € m/pc
6	40888	20	35,00	20,50	29,50	109,00	28,00	0,342	• • •	1	50	
7.4	40890	25	38,00	22,00	34,00	109,00	28,00	0,350	• • •	1	50	
9												
11	40892	32	49,00	31,00	43,00	115,00	34,00	0,432	• • •	1	40	

## 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	150	
7.4	40910	25	3/4"	38,00	22,00	34,00	28,00	44,00	0,101	• • •	1	150	
9	40912	32	1"	49,00	31,00	43,00	34,00	52,00	0,146	• • •	1	100	
11	40914	40	1 1/4"	60,00	39,50	52,00	41,00		0,313	• • •	1	50	

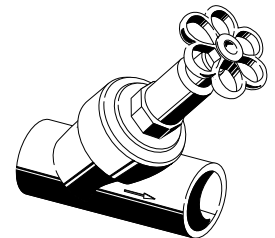
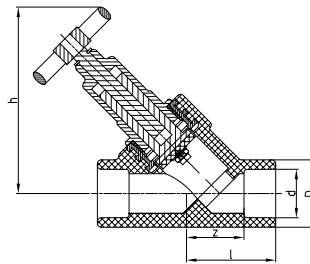
## INCLINED VALVE

*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	100	
7.4	41110	25	45,00	29,00	34,00	95,50	0,283	• • •	1	80	
9	41112	32	56,00	38,00	43,00	111,50	0,421	• • •	1	50	
11	41114	40	65,00	44,50	52,00	135,00	0,834	• • •	1	25	

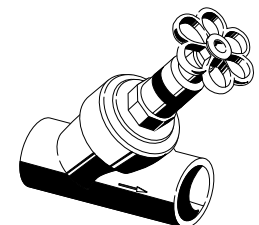
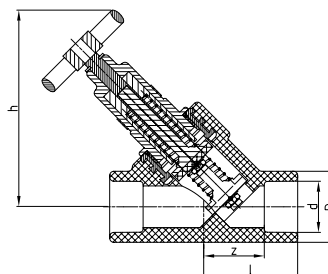
## NON-RETURN VALVE

*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	80	
7.4	41210	25	45,00	29,00	34,00	95,50	0,292	• • •	1	80	
9	41212	32	56,00	38,00	43,00	111,50	0,432	• • •	1	50	
11	41214	40	65,00	44,50	52,00	135,00	0,840	• • •	1	25	

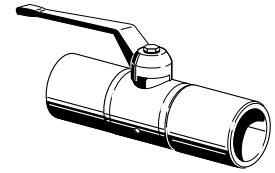
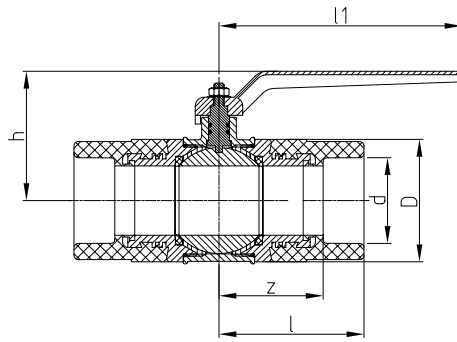


## BALL VALVE PP/BRASS

**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	55,00	40,50	32,00	66,00	85,00	0,280	• • •	1	100	
	41310	25	55,00	39,00	41,00	73,00	85,00	0,375	• • •	1	100	
	41312	32	63,50	45,50	47,00	82,00	108,00	0,592	• • •	1	60	
	41314	40	72,50	52,00	58,00	93,00	108,00	1,015	• • •	1	40	
	41316	50	83,50	60,00	70,50	114,00	140,00	1,689	• • •	1	25	
	41318	63	102,50	75,00	87,00	132,00	140,00	2,874	• • •	1	15	

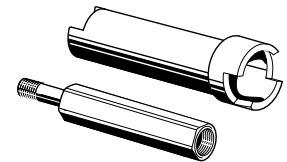
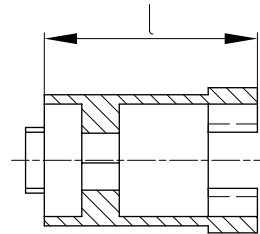
## EXTENSION FOR AQUATHERM GREEN PIPE-BALL VALVE

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

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

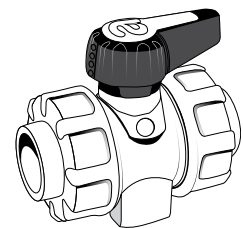
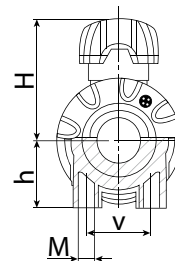
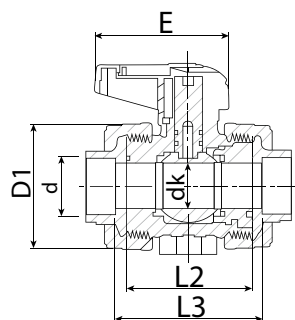
## PP-BALL VALVE

with union nut and welding socket

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

**Material:** Fusiolen® PP-R

**Colour:** green



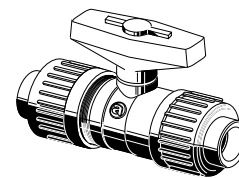
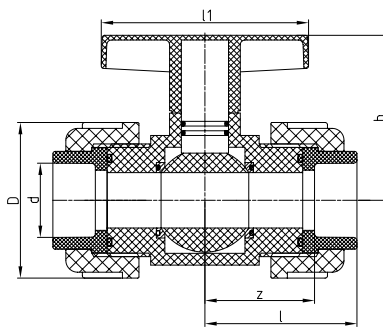
SDR	Art.-No.	d	dk	D1	E	h	H	L2	L3	DN	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7.4 9 11	41488	20	13,5	50,30	66	27,00	48	56,50	68,00	15	0,118	• • •	1	200	
	41490	25	18,5	59,00	81	30,00	56,5	65,50	78,50	20	0,188	• • •	1	120	
	41492	32	23,9	70,30	81,5	40,00	64,5	72,00	84,50	25	0,277	• • •	1	80	
	41494	40	31,0	85,90	91,5	46,00	83,3	85,00	100,00	32	0,434	• • •	1	55	
	41496	50	38,5	99,50	91,5	55,00	89,4	89,00	107,00	40	0,549	• • •	1	45	
	41498	63	50,0	125,50	141,5	70,00	115	101,00	118,00	50	0,922	• • •	1	25	

**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



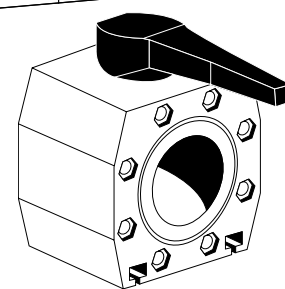
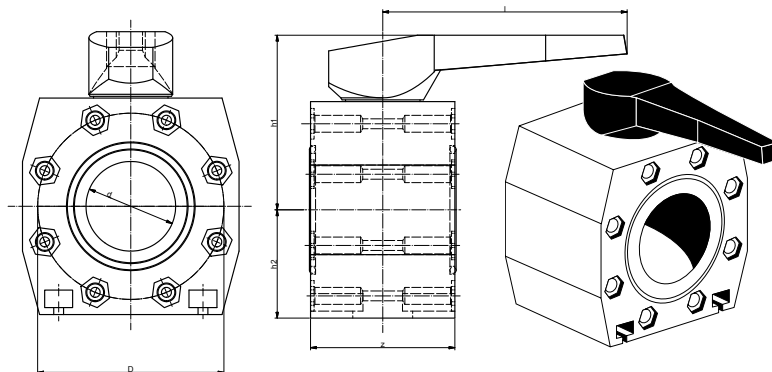
SDR	Art.-No.	d	l	z	D	h	l1	Inch R	DN	Weight [kg]	System	PU	Box unit	Price € m/pc
6	41400	75	138,00	108,00	129,00	137,00	186,00		65	2,441	• • •	1	10	
7.4														
9														
11														

**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	DN	Weight [kg]	System	PU	Box unit	Price € m/pc
6	41602	90	77	210,00	124,00	160,00	150,00	93,00	80	4,196	• • •	1		
7.4	41604	110	94	260,00	145,00	180,00	165,00	103,00	100	5,612	• • •	1		
9	41607	160	135	310,00	205,00	240,00	210,00	136,50	150	13,420	• • •	1		
11														

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

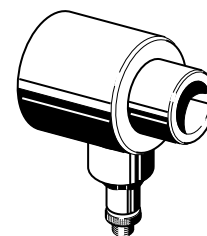
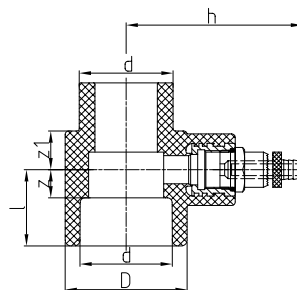
NOTICE: These are not included in delivery.

**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

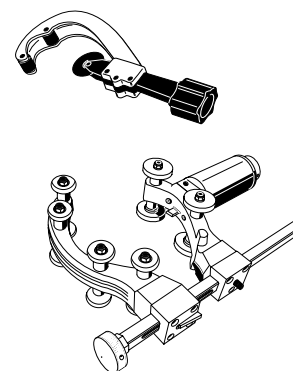


SDR	Art.-No.	d	z	l	D	z1	h	Weight [kg]	System	PU	Box unit	Price € m/pc
6 7.4 9 11	41408	20	11,50	26,00	34,00	16,50	67,00	0,098	• • •	1	200	
	41410	25	10,00	26,00	34,00	16,50	67,00	0,096	• • •	1	200	
	41412	32	14,00	32,00	43,00	17,00	70,50	0,118	• • •	1	150	
	41414	40	12,00	32,50	52,00	16,50	76,50	0,140	• • •	1	100	
	41416	50	15,50	39,00	68,00	17,00	83,75	0,202	• • •	1	40	
	41418	63	16,50	44,00	84,00	16,50	93,00	0,288	• • •	1	25	

**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.

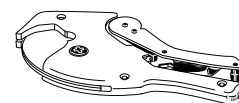
## PIPE CUTTER

Art.-No.	for pipe dimensions	PU	Box unit	Price € m/pc
50102	ø 16 - 40 mm	1		
50105	ø 50 - 125 mm	1		
50106	ø 110 - 160 mm	1		



## PIPE CUTTER

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



## ORBITAL CIRCULAR SAW

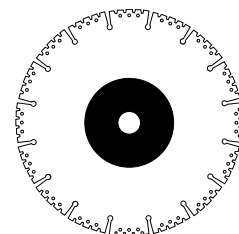
Art.-No.	for pipe dimensions	PU	Box unit	Price € m/pc
50108	ø 160 - 355 mm	1		

This orbital circular saw can be ordered directly from Rothenberger with Art.-No. 5.5620 ([www.rothenberger.com](http://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 125 mm	22,2 mm	1		
50109	ø 230 mm	22,2 mm	1		

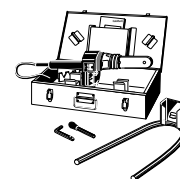
Application: for each angle grinder  
Design: diamant galvanized cutting disc



## MANUAL WELDING DEVICE (500 W)

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

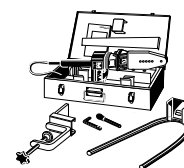
for one tool, with base and case for tools  
Also available: 110 V (art.-no. 450336)



## MANUAL WELDING DEVICE (800 W)

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

for two tools, with base and case for tools  
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 - 125 mm	1		

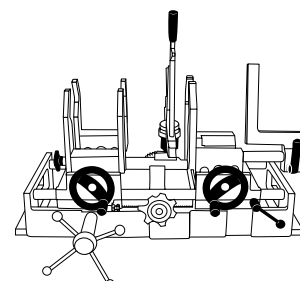
with base and case for tools, including handle  
Also available: 110 V (art.-no. 450341)



**WELDING MACHINE (1400 W)**

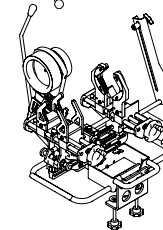
Art.-No.	for pipe dimensions	PU	Box unit	Price € m/pc
<b>50148</b>	ø 50 - 125 mm - 230 V	1		

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

**WELDING MACHINE (1400 W) LIGHT**

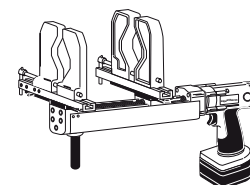
Art.-No.	for pipe dimensions	PU	Box unit	Price € m/pc
<b>50145</b>	ø 63 - 125 mm	1		

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

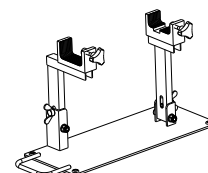
**ELECTRIC WELDING JIG**

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

including standby accumulator, charging station and metal case

**BASE FOR ART.-NO. 50159**

Art.-No.	Dimension	PU	Box unit	Price € m/pc
<b>50151</b>		1		

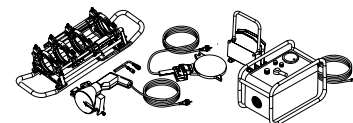
**BUTT WELDING MACHINES ROTHENBERGER**

Art.-No.	for pipe dimensions	PU	Box unit	Price € m/pc
<b>50163 *</b>	ø 160 - 250 mm	1		
<b>50178</b>	ø 160 - 355 mm	1		

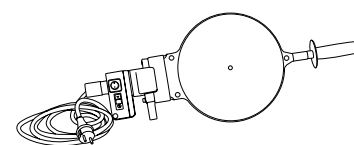
including wooden transport box.

The butt welding machine can be obtained directly from Rothenberger ([www.rothenberger.com](http://www.rothenberger.com))

\* Also available: 110 V (art.-no. 450163)

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

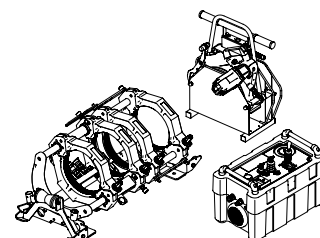
Art.-No.	for pipe dimensions	PU	Box unit	Price € m/pc
<b>50330</b>	Ø 50 - 160 mm	1		

**BUTT WELDING MACHINES RITMO**

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

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

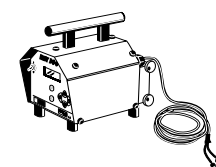
\* Also available: 110 V (art.-no. 450165 for ø 160-250 mm / art.-no. 450166 for ø 160-315 mm)

**ELECTROFUSION DEVICE**

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

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

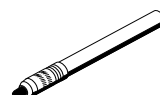
Special calibration-tools - obtainable on request - are required



## 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 PREDECTIVE GLOVE

for tool change

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



## CLEANING WIPES

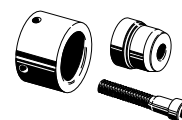
Art.-No.	Dimension	PU	Box unit	Price € m/pc
50193	Box with 100 towels	1		

for electrofusion sockets



## WELDING TOOLS

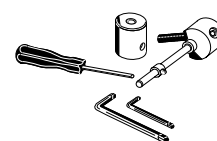
Art.-No.	Dimension	PU	Box unit	Price € m/pc
50206	16 mm	1		
50208	20 mm	1		
50210	25 mm	1		
50212	32 mm	1		
50214	40 mm	1		
50216	50 mm	1		
50218	63 mm	1		
50220	75 mm	1		
50222	90 mm	1		
50224	110 mm	1		
50226	125 mm	1		



## REPAIR SET

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

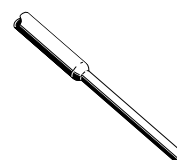
to close holes of up to 10 mm in the pipe (pipe repair stick Art.-No. 60600)



## PIPE REPAIR STICK

for pipe repairs

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



## aquatherm UNIVERSAL PEELING TOOLS

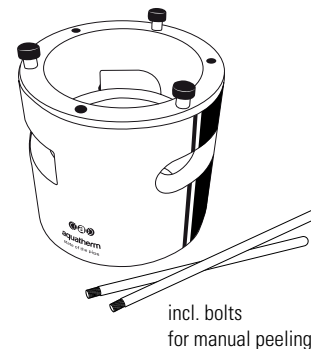
for aquatherm green pipe MF UV, aquatherm green pipe MF RP UV, aquatherm blue pipe MF UV, aquatherm green pipe MS and aquatherm blue pipe MF OT



Required for the socket welding  
(in combination with socket welding fittings from page 18 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		



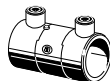
incl. bolts  
for manual peeling

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 faser, **MS** = multilayer stabi, **OT** = oxygen tight, **UV** = ultraviolet protected, **TI** = thermal insulation, **RP** = raised pressure

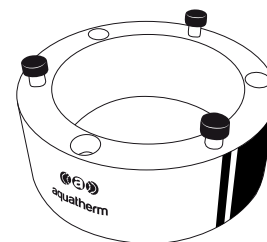
## aquatherm EXTENSION FOR UNIVERSAL PEELING TOOL

Required for the electrofusion socket welding  
(aquatherm electrofusion sockets on page 40)



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)

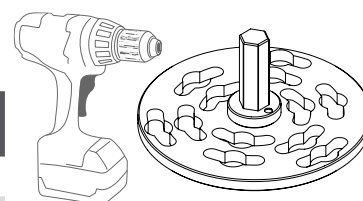
Art.-No.	Dimension	PU	Box unit	Price € m/pc
50489	for peeling tool 20 mm art.-no. 50479	1		
50490	for peeling tool 25 mm art.-no. 50480	1		
50491	for peeling tool 32 mm art.-no. 50481	1		
50492	for peeling tool 40 mm art.-no. 50482	1		
50493	for peeling tool 50 mm art.-no. 50483	1		
50494	for peeling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

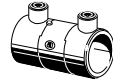


Delivery without drilling machine!

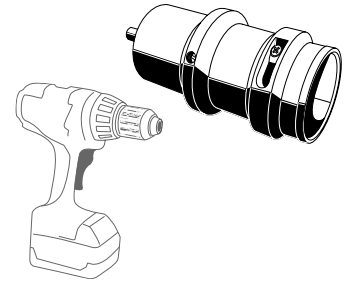
**aquatherm PEELING TOOLS FOR ELECTROFUSION SOCKET WELDING (ART.-NO.17208-17238)**

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 40)



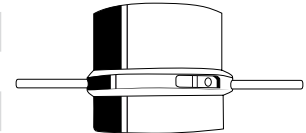
Art.-No.	Dimension	PU	Box unit	Price € m/pc
<i>In combination with a drilling machine</i>				
50558	20 mm	1		
50560	25 mm	1		
50562	32 mm	1		
50564	40 mm	1		
50566	50 mm	1		
50568	63 mm	1		
50570	75 mm	1		
50572	90 mm	1		



Art.-No. 50558-50572

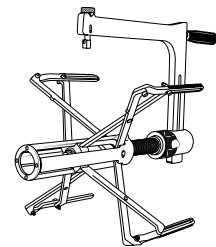
In combination with a drilling machine (not included!)

<i>For manual peeling</i>				
50574	110 mm	1		
50576	125 mm	1		
50580	160 mm	1		



Art.-No. 50574-50580

<i>For manual peeling</i>				
50592	200 + 250 mm	1		



Art.-No. 50592

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

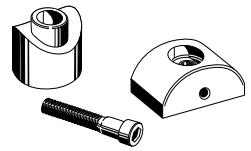
**S** = single, **MF** = multilayer faser, **MS** = multilayer stabi, **OT** = oxygen tight, **UV** = ultraviolet protected, **TI** = thermal insulation, **RP** = raised pressure

Spare parts such as blades can be requested under [service@aquatherm.de](mailto:service@aquatherm.de)!

## SADDLE WELDING TOOLS

for welding saddles

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50614	40 x 20/25 mm	1		
50616	50 x 20/25 mm	1		
50619	63 x 20/25 mm	1		
50620	63 x 32 mm	1		
50623	75 x 20/25 mm	1		
50624	75 x 32 mm	1		
50625	75 x 40 mm	1		
50627	90 x 20/25 mm	1		
50628	90 x 32 mm	1		
50629	90 x 40 mm	1		
50631	110 x 20/25 mm	1		
50632	110 x 32 mm	1		
50634	110 x 40 mm	1		
50635	110 x 50 mm	1		
50636	125 x 20/25 mm	1		
50638	125 x 32 mm	1		
50640	125 x 40 mm	1		
50642	125 x 50 mm	1		
50644	125 x 63 mm	1		
50648	160 x 20/25 mm	1		
50650	160 x 32 mm	1		
50652	160 x 40 mm	1		
50654	160 x 50 mm	1		
50656	160 x 63 mm	1		
50657	160 x 75 mm	1		
50658	160 x 90 mm	1		
50660	200 x 20/25 mm	1		
50662	200 x 32 mm	1		
50664	200 x 40 mm	1		
50666	200 x 50 mm	1		
50667	200 x 75 mm	1		
50668	200 x 63 mm	1		
50669	200 x 90 mm	1		
50670	200 x 110 mm	1		
50671	200 x 125 mm	1		
50672	250 x 20/25 mm	1		
50674	250 x 32 mm	1		
50676	250 x 40 mm	1		
50678	250 x 50 mm	1		
50680	250 x 63 mm	1		
50682	250 x 75 mm	1		

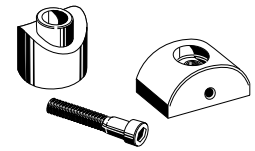




## SADDLE WELDING TOOLS

for welding saddles

Art.-No.	Dimension	PU	Box unit	Price € m/pc
50684	250 x 90 mm	1		
50686	250 x 110 mm	1		
50688	250 x 125 mm	1		
50690	315 x 63 mm	1		
50692	315 x 75 mm	1		
50694	315 x 90 mm	1		
50696	315 x 110 mm	1		
50698	315 x 125 mm	1		
50699	315 x 160 mm	1		
50712	355 x 63 mm	1		
50714	355 x 75 mm	1		
50716	355 x 90 mm	1		
50718	355 x 110 mm	1		
50720	355 x 125 mm	1		
50722	355 x 160 mm	1		
50726	400-630 x 63 mm	1		
50728	400-500 x 75 mm	1		
50730	560-630 x 75 mm	1		
50732	400-500 x 90 mm	1		
50734	560-630 x 90 mm	1		
50736	400-450 x 110 mm	1		
50738	500-560 x 110 mm	1		
50740	630 x 110 mm	1		
50742	400 x 125 mm	1		
50744	450-500 x 125 mm	1		
50746	560-630 x 125 mm	1		



aquatherm green pipe

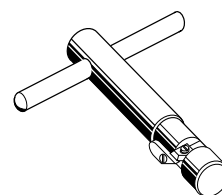
aquatherm blue pipe

aquatherm lilac pipe

**CHAMFERING DEVICES**

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

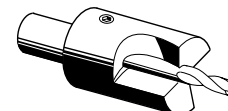
for removal of the aluminium swarfs at the drill hole only with stabi-composite pipes - to prepare the saddle welding



Only for stabi-composite pipes!

**DRILLS** for installation of weld-in saddles

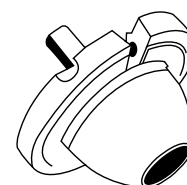
Art.-No.	Dimension	PU	Box unit	Price € m/pc
50940	20 & 25 mm (for pipes 40 - 160 mm)	1		
50941	20 & 25 mm (for pipes 63 - 250 mm)	1		
50942	32 mm	1		
50944	40 mm	1		
50946*	50 mm	1		
50948*	63 mm	1		
<i>* may only be used in fixed drilling machines!</i>				
50950**/**	75 mm	1		
50952**/**	90 mm	1		
50954**/**	110 mm	1		
50956**/**	125 mm	1		
50958**/**	160 mm	1		



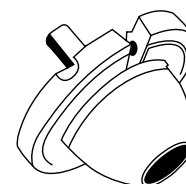
\*\* tool holder MK4

**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	1	
50422	for welding saddles ø 32 mm	1	1	
50424	for welding saddles ø 40 mm	1	1	
50426	for welding saddles ø 50 mm	1	1	
50428	for welding saddles ø 63 mm	1	1	





## TOOLS AND EQUIPMENT

The following tables provide an overview of necessary tools and equipment for different processing methods and welding methods of the aquatherm systems. For proper and professional processing of the aquatherm PP-R medium pipes only original aquatherm welding machines and welding tools should be used, respectively devices and tools released by aquatherm.

*p. 68/69*

Welding process 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

*p. 70/71*

Welding process 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 lilac pipe

SDR 7,4/11 S

*p. 72*

Sliding sleeve technology (see also p. 87)

### 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

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

# WELDING PROCESS TOOLS AND EQUIPMENT

for pipes *with* additional outer layer / protection layer

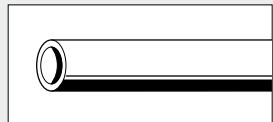
**aquatherm green pipe** SDR 7,4 MS & SDR 7,4/9 MF UV

**aquatherm blue pipe** SDR 7,4/11/17,6 MF UV & SDR 7,4/11 MF OT

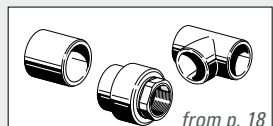
PIPES & FITTINGS      CUTTING      PEELING      DRILLING      SADDLE PEELING / CHAMFERING

1

## 1. SOCKET WELDING 16-125 mm

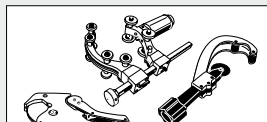


Pipes specified above



Socket welding fittings

from p. 18



Pipe cutter p. 59 / 104

50104 ø 16-40 mm

50102 ø 16-40 mm

50105 ø 50-125 mm

50106 ø 110-160 mm



Universal peeling tool p. 62

50479-50488

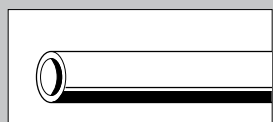
20-125 mm (16 mm on request)

+ (opt.) Attachment plate\* p. 62

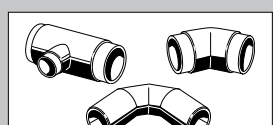
50499/50500

2

## 2. BUTT WELDING 160-630 mm

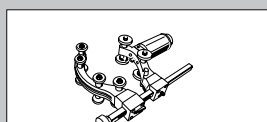


Pipes specified above



Butt welding fittings

from p. 20

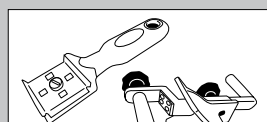


Pipe cutter p. 59

50106 ø 110-160 mm

Orbital circular saw p. 59

50108 ø 160-355 mm



Scraper/Chamfering tool for OT-pipes

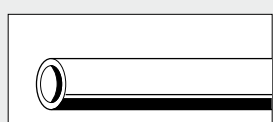
not available with aquatherm!

Cutter for UV-pipes

not available with aquatherm!

3

## 3. SADDLE WELDING 20-160 mm

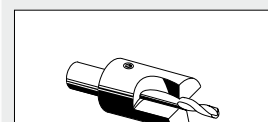


Pipes specified above



Weld-in saddles

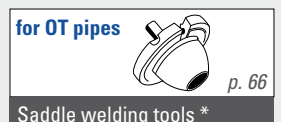
from p. 34



Drill S. 66

50940-50958

20-160 mm



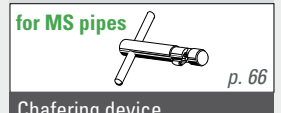
for OT pipes

p. 66

Saddle welding tools \*

50921-50928 for ø 50-125 mm

50421-50428 for ø 160-250 mm



for MS pipes

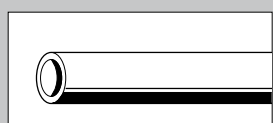
p. 66

Chamfering device

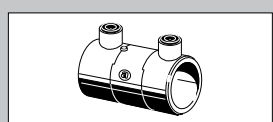
50910-50914 for ø 20-40 mm

4

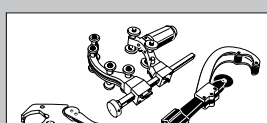
## 4. ELECTROFUSION SOCKET WELDING 20-125 mm



Pipes specified above



Electrofusion sockets p. 40



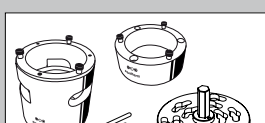
Pipe cutter p. 59 / 104

50104 ø 16-40 mm

50102 ø 16-40 mm

50105 ø 50-125 mm

50106 ø 110-160 mm



Universal peeling tool p. 62

50479-50488 for ø 20-125 mm

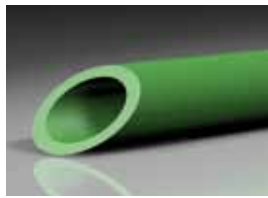
+ Extension p. 62

50489-50498

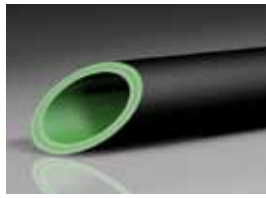
+ (opt.) Attachment plate\* p. 62

50499/50500

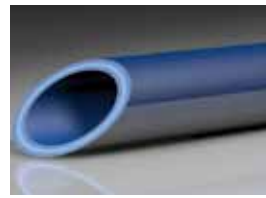
PIPES & FITTINGS      CUTTING      PEELING      DRILLING      SADDLE PEELING / CHAMFERING



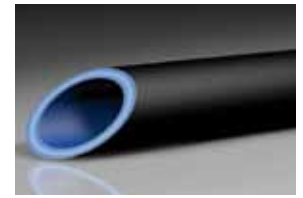
**aquaTherm green pipe**  
SDR 7.4 MS  
Page 11



**aquaTherm green pipe**  
SDR 7.4/9 MF UV  
Page 9



**aquaTherm blue pipe**  
SDR 7.4/11 MF OT  
Page 15



**aquaTherm blue pipe**  
SDR 7.4/11/17.6 MF UV  
Page 14

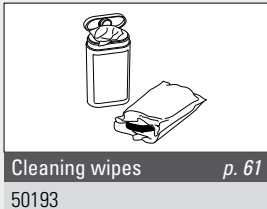
CLEANING

MEASUREMENT  
OF TEMPERATURE

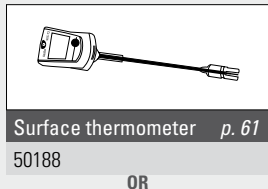
WELDING TOOLS

MANUAL WELDING DEVICES OR

WELDING MACHINES

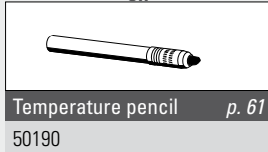


Cleaning wipes p. 61  
50193

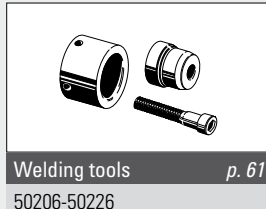


Surface thermometer p. 61  
50188

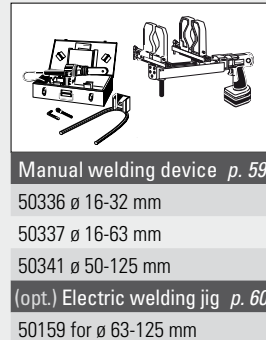
OR



Temperature pencil p. 61  
50190

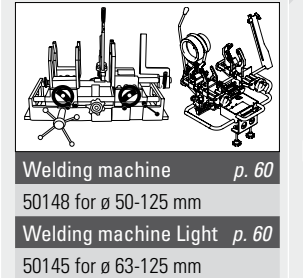


Welding tools p. 61  
50206-50226



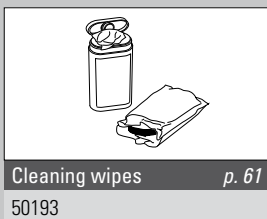
Manual welding device p. 59

50336 ø 16-32 mm  
50337 ø 16-63 mm  
50341 ø 50-125 mm  
(opt.) Electric welding jig p. 60  
50159 for ø 63-125 mm

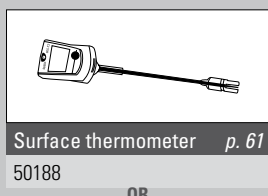


Welding machine p. 60

50148 for ø 50-125 mm  
Welding machine Light p. 60  
50145 for ø 63-125 mm

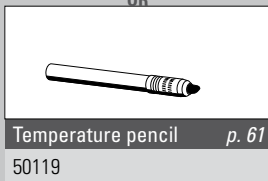


Cleaning wipes p. 61  
50193

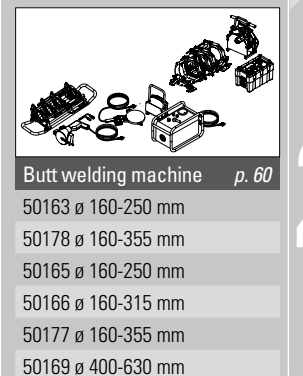


Surface thermometer p. 61  
50188

OR

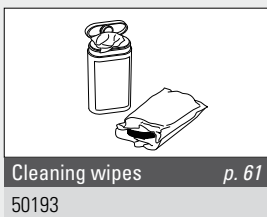


Temperature pencil p. 61  
50119

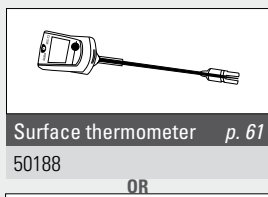


Butt welding machine p. 60

50163 ø 160-250 mm  
50178 ø 160-355 mm  
50165 ø 160-250 mm  
50166 ø 160-315 mm  
50177 ø 160-355 mm  
50169 ø 400-630 mm

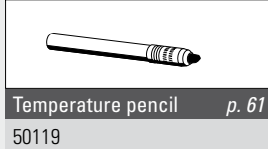


Cleaning wipes p. 61  
50193



Surface thermometer p. 61  
50188

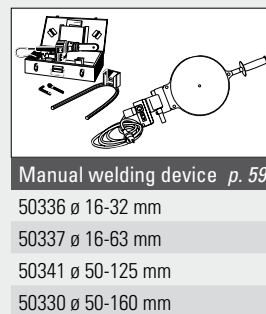
OR



Temperature pencil p. 61  
50119

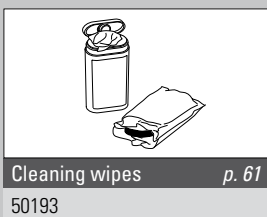


Saddle welding tools p. 64  
50614-50746

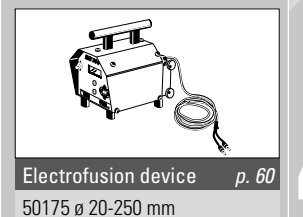


Manual welding device p. 59

50336 ø 16-32 mm  
50337 ø 16-63 mm  
50341 ø 50-125 mm  
50330 ø 50-160 mm



Cleaning wipes p. 61  
50193



Electrofusion device p. 60

50175 ø 20-250 mm

CLEANING

MEASUREMENT  
OF TEMPERATURE

WELDING TOOLS

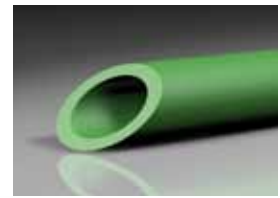
MANUAL WELDING DEVICES OR

WELDING MACHINES

# WELDING PROCESS TOOLS AND EQUIPMENT

for pipes *without* additional outer layer / protection layer

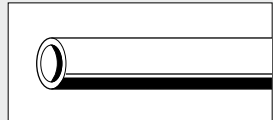
**aquatherm green pipe** SDR 6/7,4/11 S & SDR 7,4 MF & SDR 9 MF RP  
**aquatherm blue pipe** SDR 11 S & SDR 7,4/11/17,6 MF



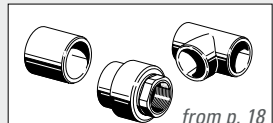
**aquatherm green pipe**  
 SDR 6/7,4 S  
 Page 10-11

PIPES & FITTINGS	CUTTING	PEELING	DRILLING	SADDLE PEELING / CHAMFERING
------------------	---------	---------	----------	-----------------------------

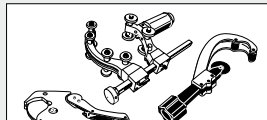
## 1. SOCKET WELDING 16-125 mm



Pipes specified above



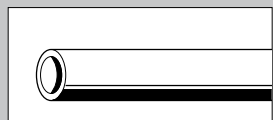
Socket welding fittings



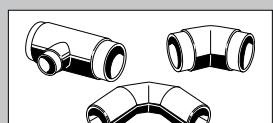
Pipe cutter *p. 59 / 104*

- 50104 ø 16-40 mm
- 50102 ø 16-40 mm
- 50105 ø 50-125 mm
- 50106 ø 110-160 mm

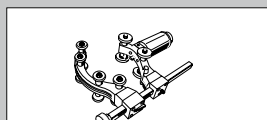
## 2. BUTT WELDING 160-630 mm



Pipes specified above



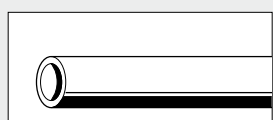
Butt welding fittings



Pipe cutter *p. 59*

- 50106 ø 110-160 mm
- Orbital circular saw *p. 59*
- 50108 ø 160-355 mm

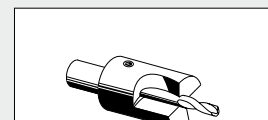
## 3. SADDLE WELDING 20-160 mm



Pipes specified above



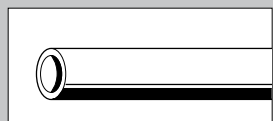
Weld-in saddles



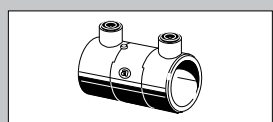
Drill *S. 66*

- 50940-50958
- 20-160 mm

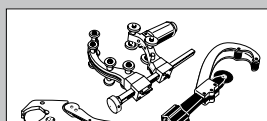
## 4. ELECTROFUSION SOCKET WELDING 20-250 mm



Pipes specified above

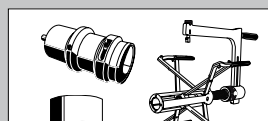


Electrofusion sockets *p. 40*



Pipe cutter *p. 59 / 104*

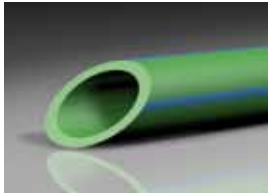
- 50104 ø 16-40 mm
- 50102 ø 16-40 mm
- 50105 ø 50-125 mm
- 50106 ø 110-160 mm



Peeling tools \* *p. 63*

- 50558-50572
- 20-90 mm
- Manual peeling tools *p. 63*
- 50574-50592
- 110-250 mm

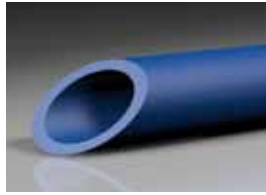
PIPES & FITTINGS	CUTTING	PEELING	DRILLING	SADDLE PEELING / CHAMFERING
------------------	---------	---------	----------	-----------------------------



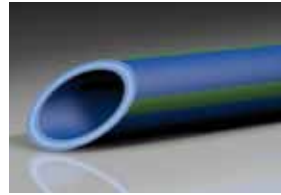
**aquaTherm green pipe**  
SDR 11 S  
Page 10-11



**aquaTherm green pipe**  
SDR 7.4 MF / SDR 9 MF RP  
Page 8



**aquaTherm blue pipe**  
SDR 11 S  
Page 15



**aquaTherm blue pipe**  
SDR 7.4/11/17.6 MF  
Page 13



**aquaTherm lilac pipe**  
SDR 7.4/11 S  
Page 16

CLEANING

MEASUREMENT  
OF TEMPERATURE

WELDING TOOLS

MANUAL WELDING DEVICES OR

WELDING MACHINES



Cleaning wipes p. 61  
50193



Cleaning wipes p. 61  
50193



Cleaning wipes p. 61  
50193



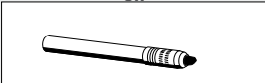
Cleaning wipes p. 61  
50193



Surface thermometer p. 61

50188

OR



Temperature pencil p. 61

50190



Surface thermometer p. 61

50188

OR



Temperature pencil p. 61

50119



Surface thermometer p. 61

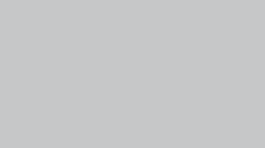
50188

OR



Temperature pencil p. 61

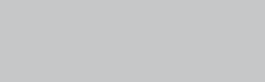
50119



Surface thermometer p. 61

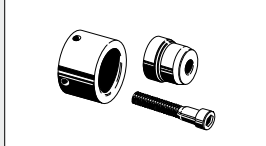
50188

OR



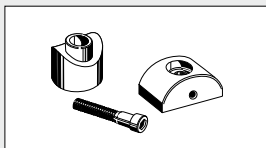
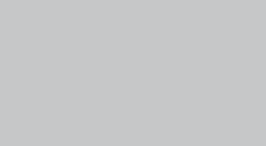
Temperature pencil p. 61

50119



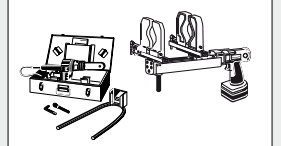
Welding tools p. 61

50206-50226



Saddle welding tools p. 64

50614-50746



Manual welding device p. 59

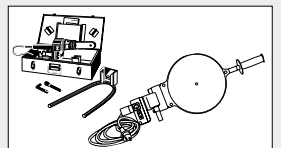
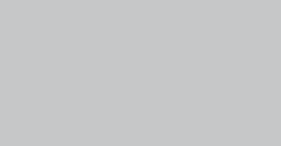
50336  $\varnothing$  16-32 mm

50337  $\varnothing$  16-63 mm

50341  $\varnothing$  50-125 mm

(opt.) Electric welding jig p. 60

50159 for  $\varnothing$  63-125 mm



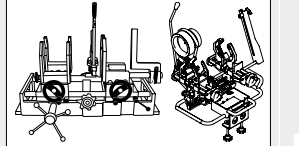
Manual welding device p. 59

50336  $\varnothing$  16-32 mm

50337  $\varnothing$  16-63 mm

50341  $\varnothing$  50-125 mm

50330  $\varnothing$  50-160 mm

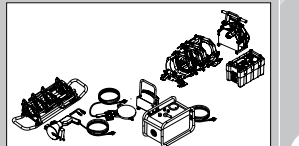


Welding machine p. 60

50148 for  $\varnothing$  50-125 mm

Welding machine Light p. 60

50145 for  $\varnothing$  63-125 mm



Butt welding machine p. 60

50163  $\varnothing$  160-250 mm

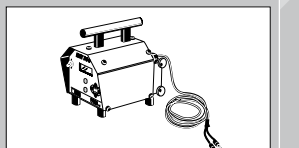
50178  $\varnothing$  160-355 mm

50165  $\varnothing$  160-250 mm

50166  $\varnothing$  160-315 mm

50177  $\varnothing$  160-355 mm

50169  $\varnothing$  400-630 mm



Electrofusion device p. 60

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

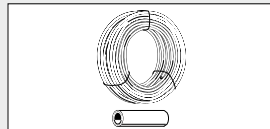
FALSE JAWS

EXPANDING

TOOL INSERTS

MOUNTING

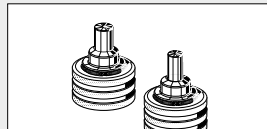
### 1. MANUAL ASSEMBLY MULTI-LAYER METAL COMPOSITE PIPE 16-40 mm



Pipes specified above

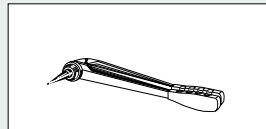


Fittings with sliding sleeves  
*from p. 110*



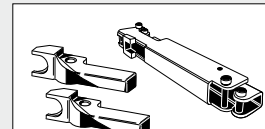
False jaws *p. 104*

50857-50864  
ø 16-40 mm



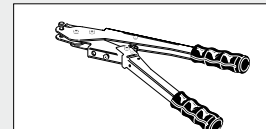
Expanding tool *p. 104*

50800  
ø 10-40 mm



Tool insert *p. 106*

50824-50834 for ø 10-40 mm  
+(opt.) Angle attachment *p.105*  
50803



Mounting tool *p. 105*

50802  
ø 10-40 mm

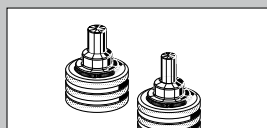
### OR 2. MACHINE ASSEMBLY MULTI-LAYER METAL COMPOSITE PIPE 16-40 mm



Pipes specified above

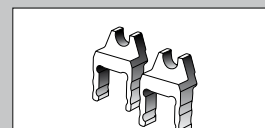


Fittings with sliding sleeves  
*from p. 110*



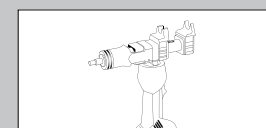
False jaws *p. 104*

50857-50864  
ø 16-40 mm



Tool inserts *p. 105*

50875-50882  
ø 16-40 mm



Hydraulic accumulator mounting tool *p. 105*

50809  
ø 16-40 mm

PIPES & FITTINGS

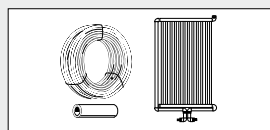
FALSE JAWS

EXPANDING

TOOL INSERTS

MOUNTING

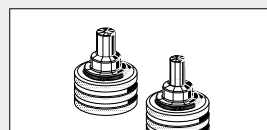
### 3. MANUAL ASSEMBLY PB-PIPE 16-25 mm, PE-RT-PIPE 10-25 mm, DRY WALL HEATING ELEMENT sliding sleeve connection



Pipes specified above

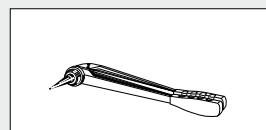


Fittings with sliding sleeves  
*from p. 110*



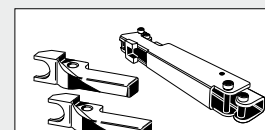
False jaws *p. 104*

50814-50820  
ø 10-25 mm



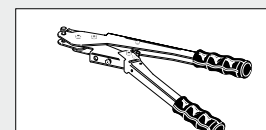
Expanding tool *S. 104*

50800  
ø 10-40 mm



Tool insert *p. 106*

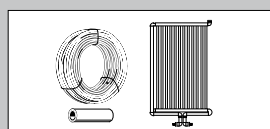
50824-50834 for ø 10-40 mm  
+(opt.) Angle attachment *p.105*  
50803



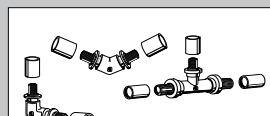
Mounting tool *p. 105*

50802  
ø 10-40 mm

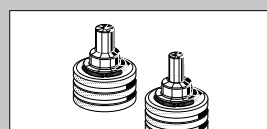
### OR 4. MACHINE ASSEMBLY PB PIPE 16-25 mm, PE-RT PIPE 10-25 mm, DRY WALL HEATING ELEMENT sliding sleeve connection



Pipes specified above

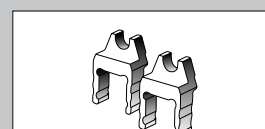


Fittings with sliding sleeves  
*from p. 110*



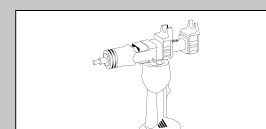
False jaws *p. 104*

50814-50820  
ø 10-25 mm



Tool inserts *p. 105*

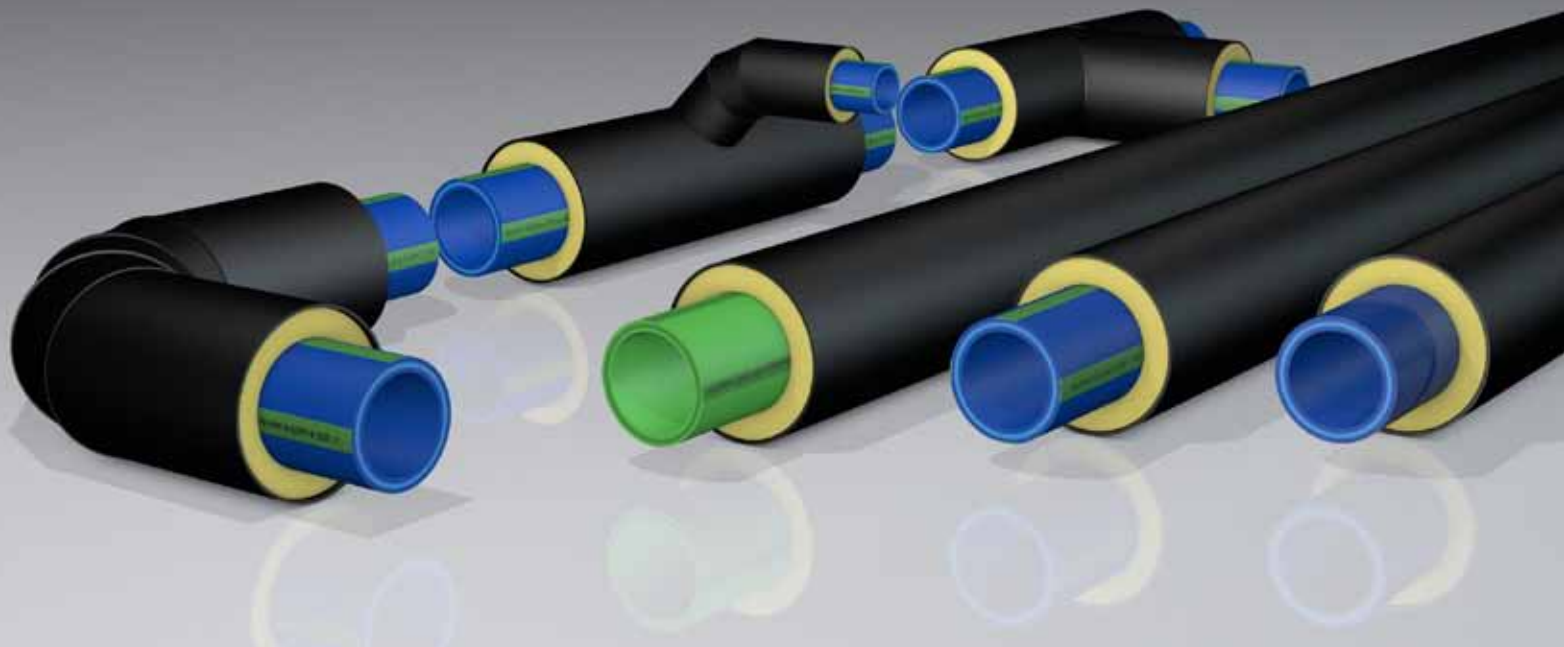
50875-50882  
ø 16-40 mm



Hydraulic accumulator mounting tool *p. 105*

50809  
ø 16-40 mm





# 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 32-250 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 160-315 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 160-315 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*

<b>Max. operating pressure:</b>	20 bar
<b>Max. operating temperature:</b>	70°C
<b>Colour:</b>	green with 4 moss-green stripes

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

<b>Max. operating pressure:</b>	10 bar
<b>Max. operating temperature:</b>	80°C
<b>Colour:</b>	blue with 4 wide green stripes

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

<b>Max. operating pressure:</b>	10 bar
<b>Max. operating temperature:</b>	80°C
<b>Colour:</b>	blue

*The manufacturer's operating instructions are valid.*

### INSULATION

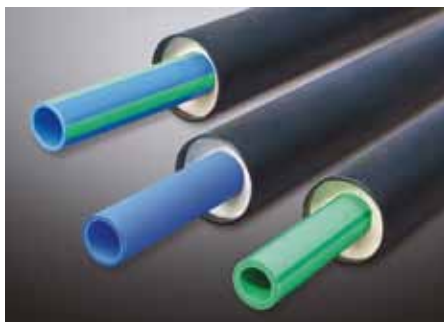
aquatherm ti pipes and fittings are insulated with polyurethane rigid foam (PUR), tested according to EN253. In the production line discontinuously foamed between medium and casing pipe, a high-class insulation with outstanding thermal conductivity  $\lambda_{\text{PUR}}=0,0275 \text{ W/mK}$  and low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

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

### CASING PIPE

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

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



### aquatherm ti FASER COMPOSITE PIPES

faser composite pipe , 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	Casing pipe	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	m/pc	
32 mm	90 mm	1370711		2270111		2470711*				5,8	
40 mm	110 mm	1370713		2270113		2470113				5,8	
50 mm	110 mm	1370715		2270115		2470115				5,8	
63 mm	125 mm	1370717		2270117		2470117				5,8	
75 mm	140 mm	1370719		2270119		2470119				5,8	
90 mm	160 mm	1370721		2270121		2470121				5,8	
110 mm	200 mm	1370723		2270123		2470123				5,8	
125 mm	225 mm	1370725		2270125		2470125				5,8	
160 mm	250 mm	1370729		2270129		2470129		2770129		5,8	
200 mm	315 mm	1370733		2270133		2470133		2770133		5,8	
250 mm	400 mm	1370737		2270137		2470137		2770137		5,8	
315 mm	450 mm	1370741		2270141				2770141		5,8	

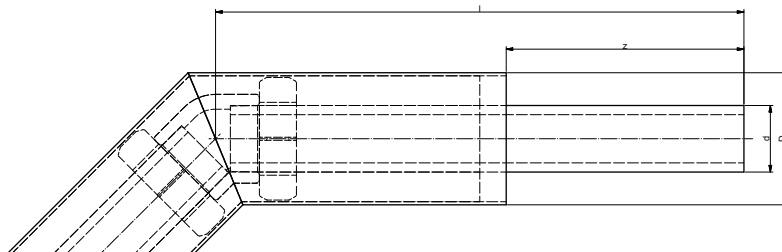
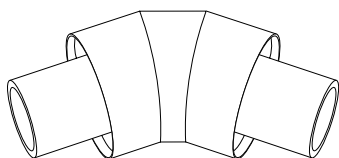
On request available: aquatherm green pipe ti SDR 7.4

### 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	Casing pipe	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	m/pc	
32 mm	90 mm	1370712		2270112		2470712*				11,6	
40 mm	110 mm	1370714		2270114		2470114				11,6	
50 mm	110 mm	1370716		2270116		2470116				11,6	
63 mm	125 mm	1370718		2270118		2470118				11,6	
75 mm	140 mm	1370720		2270120		2470120				11,6	
90 mm	160 mm	1370722		2270122		2470122				11,6	
110 mm	200 mm	1370724		2270124		2470124				11,6	
125 mm	225 mm	1370726		2270126		2470126				11,6	
160 mm	250 mm	1370730		2270130		2470130		2770130		11,6	
200 mm	315 mm	1370734		2270134		2470134		2770134		11,6	
250 mm	400 mm	1370738		2270138		2470138		2770138		11,6	
315 mm	450 mm	1370742		2270142				2770142		11,6	

On request available: aquatherm green pipe ti SDR 7.4



### aquatherm ti ELBOW 45° SL 500

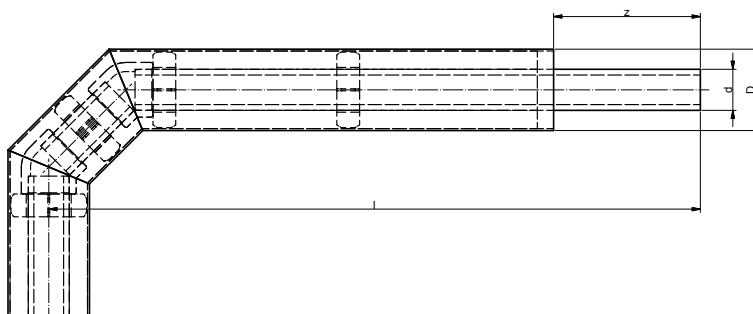
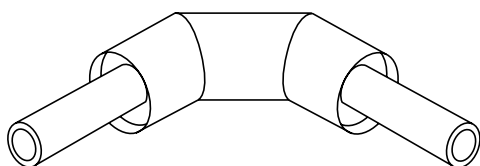
with PUR rigid foam and coated with a casing pipe made of PEHD

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	225,00	500,00	1312512		2212512		2412512				1
40	110	225,00	500,00	1312514		2212514		2412514				1
50	110	225,00	500,00	1312516		2212516		2412516				1
63	125	225,00	500,00	1312518		2212518		2412518				1
75	140	225,00	500,00	1312520		2212520		2412520				1
90	160	225,00	500,00	1312522		2212522		2412522				1
110	200	225,00	500,00	1312524		2212524		2412524				1
125	225	225,00	500,00	1312526		2212526		2412526				1
160	250	225,00	500,00	1312530		2212531		2412531		2712530		1
200	315	225,00	500,00	1312534		2212535		2412535		2712534		1
250	400	225,00	500,00	1312538		2212539		2412539		2712538		1
315	450	225,00	500,00	1312542		2212543				2712542		1

Also available in design 15° and 30°

On request available: aquatherm green pipe ti SDR 7.4

aquatherm ti



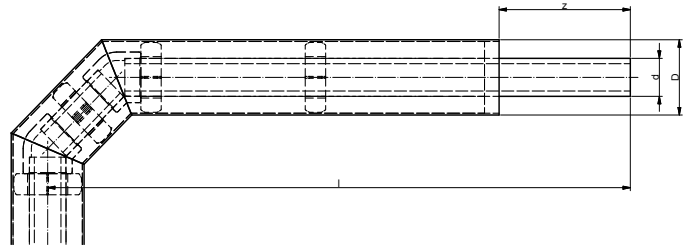
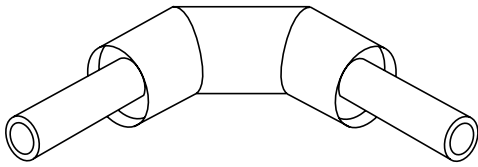
### aquatherm ti ELBOW 90° SL 500

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	225,00	500,00	1312212		2212212		2412212		1
40	110	225,00	500,00	1312214		2212214		2412214		1
50	110	225,00	500,00	1312216		2212216		2412216		1
63	125	225,00	500,00	1312218		2212218		2412218		1
75	140	225,00	500,00	1312220		2212220		2412220		1

Also available in design 60° and 75°

On request available: aquatherm green pipe ti SDR 7.4



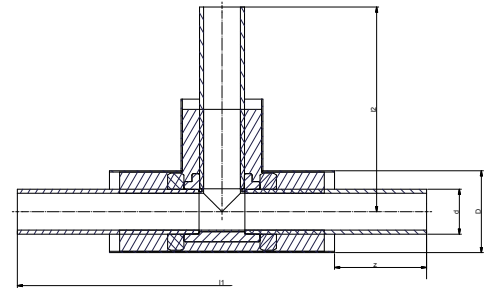
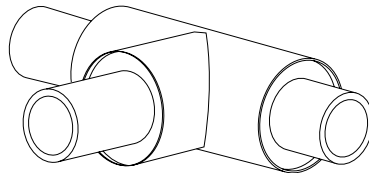
### aquatherm ti ELBOW 90° SL 1000

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	225,00	1000,00	1312112		2212112		2412112				1	
40	110	225,00	1000,00	1312114		2212114		2412114				1	
50	110	225,00	1000,00	1312116		2212116		2412116				1	
63	125	225,00	1000,00	1312118		2212118		2412118				1	
75	140	225,00	1000,00	1312120		2212120		2412120				1	
90	160	225,00	1000,00	1312122		2212122		2412122				1	
110	200	225,00	1000,00	1312124		2212124		2412124				1	
125	225	225,00	1000,00	1312126		2212126		2412126				1	
160	250	225,00	1000,00	1312130		2212131		2412131		2712130		1	
200	315	225,00	1000,00	1312134		2212135		2412135		2712134		1	
250	400	225,00	1000,00	1312138		2212139		2412139		2712138		1	
315	450	225,00	1000,00	1312142		2212143				2712142		1	

Also available in design 60° and 75°

On request available: aquatherm green pipe ti SDR 7.4

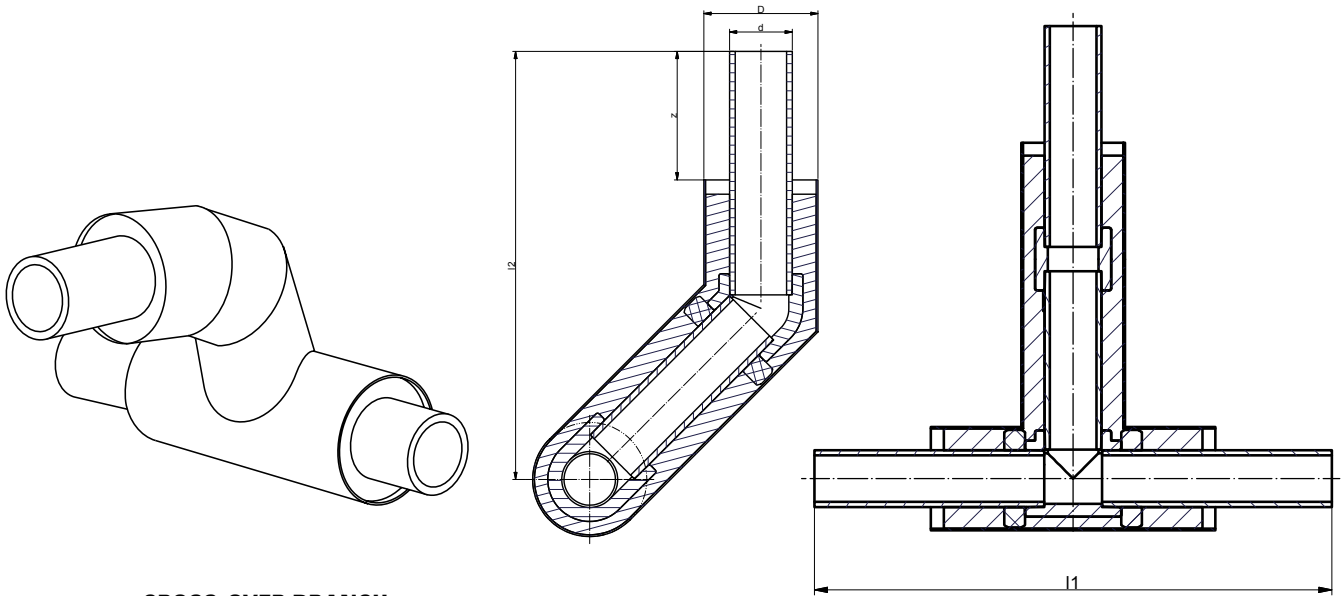


### aquatherm ti BRANCH

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	l1	l2	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	m/pc	
32	90	225,00	1000,00	500,00	1313112		2213112		2413112				1	
40	110	225,00	1000,00	500,00	1313114		2213114		2413114				1	
50	110	225,00	1000,00	500,00	1313116		2213116		2413116				1	
63	125	225,00	1000,00	500,00	1313118		2213118		2413118				1	
75	140	225,00	1000,00	500,00	1313120		2213120		2413120				1	
90	160	225,00	1000,00	500,00	1313122		2213122		2413122				1	
110	200	225,00	1000,00	500,00	1313124		2213124		2413124				1	
125	225	225,00	1000,00	500,00	1313126		2213126		2413126				1	
160	250	225,00	1000,00	500,00	1313130		2213131		2413131		2713130		1	
200	315	225,00	1500,00	750,00	1313134		2213135		2413135		2713134		1	
250	400	225,00	1500,00	750,00	1313138		2213139		2413139		2713138		1	
315	450	225,00	1500,00	750,00	1313142		2213143				2713142		1	

On request available: aquatherm green pipe ti SDR 7.4

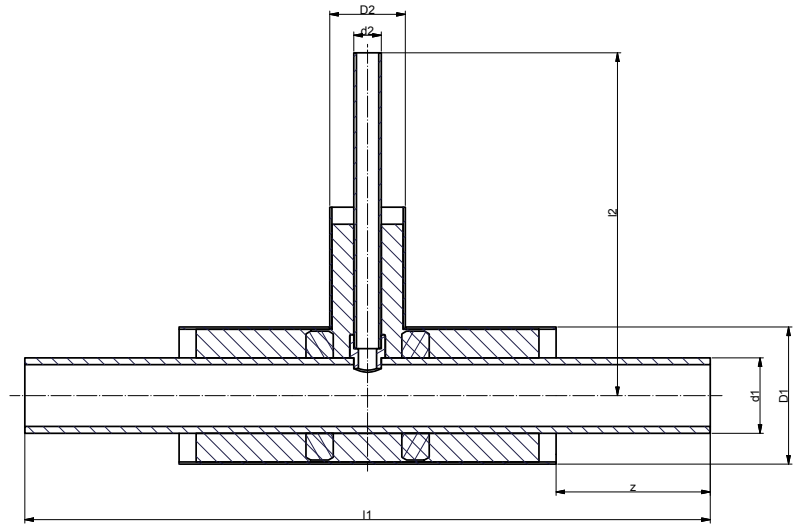
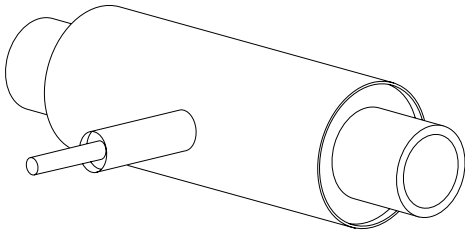


### aquatherm ti CROSS-OVER BRANCH

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	aquatherm blue pipe ti SDR 17.6	PU	Box unit				
d Medium pipe	D Casing pipe	z	l1	l2	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	m/pc	
32	90	225,00	1000,00	750,00	1318112		2218112		2418112				1	
40	110	225,00	1000,00	750,00	1318114		2218114		2418114				1	
50	110	225,00	1000,00	750,00	1318116		2218116		2418116				1	
63	125	225,00	1000,00	750,00	1318118		2218118		2418118				1	
75	140	225,00	1000,00	750,00	1318120		2218120		2418120				1	
90	160	225,00	1000,00	750,00	1318122		2218122		2418122				1	
110	200	225,00	1000,00	750,00	1318124		2218124		2418124				1	
125	225	225,00	1000,00	750,00	1318126		2218126		2418126				1	
160	250	225,00	1000,00	1000,00	1318130		2218131		2418131		2718130		1	
200	315	225,00	1500,00	1000,00	1318134		2218135		2418135		2718134		1	
250	400	225,00	1500,00	1000,00	1318138		2218139		2418139		2718138		1	
315	450	225,00	1500,00	1250,00	1318142		2218143				2718142		1	

On request available: aquatherm green pipe ti SDR 7.4



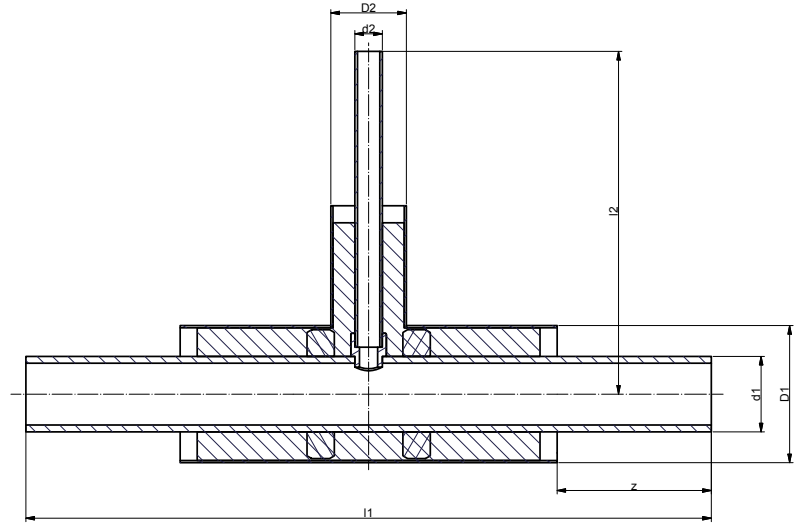
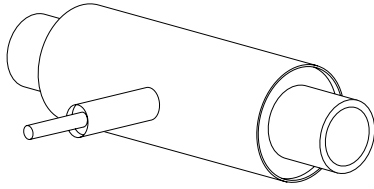
**aquatherm ti RED.-BRANCH SL 500**

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				
d1 Medium pipe	d2 Medium pipe	D1 Casing pipe	D2 Casing pipe	z	l1	l2	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc		
40	32	110	90	225,00	1000,00	500,00	1313202		2213202		2413202				1	
50	32	110	90	225,00	1000,00	500,00	1313206		2213206		2413206				1	
50	40	110	110	225,00	1000,00	500,00	1313208		2213208		2413208				1	
63	32	125	90	225,00	1000,00	500,00	1313212		2213212		2413212				1	
63	40	125	110	225,00	1000,00	500,00	1313214		2213214		2413214				1	
63	50	125	110	225,00	1000,00	500,00	1313216		2213216		2413216				1	
75	32	140	90	225,00	1000,00	500,00	1313220		2213220		2413220				1	
75	40	140	110	225,00	1000,00	500,00	1313222		2213222		2413222				1	
75	50	140	110	225,00	1000,00	500,00	1313224		2213224		2413224				1	
75	63	140	125	225,00	1000,00	500,00	1313226		2213226		2413226				1	
90	32	160	90	225,00	1000,00	500,00	1313230		2213230		2413230				1	
90	40	160	110	225,00	1000,00	500,00	1313232		2213232		2413232				1	
90	50	160	110	225,00	1000,00	500,00	1313234		2213234		2413234				1	
90	63	160	125	225,00	1000,00	500,00	1313236		2213236		2413236				1	
90	75	160	140	225,00	1000,00	500,00	1313238		2213238		2413238				1	
110	32	200	90	225,00	1000,00	500,00	1313242		2213242		2413242				1	
110	40	200	110	225,00	1000,00	500,00	1313244		2213244		2413244				1	
110	50	200	110	225,00	1000,00	500,00	1313246		2213246		2413246				1	
110	63	200	125	225,00	1000,00	500,00	1313248		2213248		2413248				1	
110	75	200	140	225,00	1000,00	500,00	1313250		2213250		2413250				1	
110	90	200	160	225,00	1000,00	500,00	1313252		2213252		2413252				1	
125	32	225	90	225,00	1000,00	500,00	1313256		2213256		2413256				1	
125	40	225	110	225,00	1000,00	500,00	1313258		2213258		2413258				1	
125	50	225	110	225,00	1000,00	500,00	1313260		2213260		2413260				1	
125	63	225	125	225,00	1000,00	500,00	1313262		2213262		2413262				1	
125	75	225	140	225,00	1000,00	500,00	1313264		2213264		2413264				1	
125	90	225	160	225,00	1000,00	500,00	1313266		2213266		2413266				1	
125	110	225	200	225,00	1000,00	500,00	1313268		2213268		2413268				1	
160	32	250	90	225,00	1000,00	500,00	1313290		2213291		2413291		2713290		1	
160	40	250	110	225,00	1000,00	500,00	1313292		2213293		2413293		2713292		1	
160	50	250	110	225,00	1000,00	500,00	1313294		2213295		2413295		2713294		1	
160	63	250	125	225,00	1000,00	500,00	1313296		2213297		2413297		2713296		1	
160	75	250	140	225,00	1000,00	500,00	1313298		2213299		2413299		2713298		1	
160	90	250	160	225,00	1000,00	500,00	1313300		2213301		2413301		2713300		1	
160	110	250	200	225,00	1500,00	750,00	1313302		2213303		2413303		2713302		1	
160	125	250	225	225,00	1500,00	750,00	1313304		2213305		2413305		2713304		1	

On request available: aquatherm green pipe ti SDR 7.4

aquatherm ti



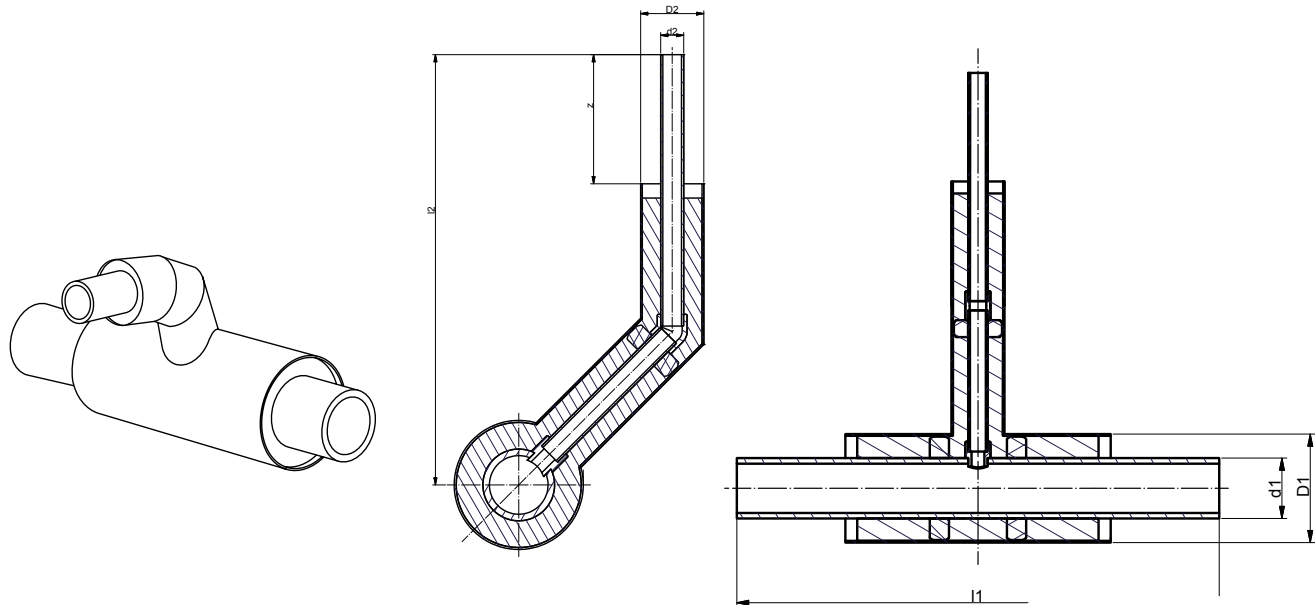
### aquatherm ti RED.-BRANCH SL 750

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	
d1 Medium pipe	d2 Medium pipe	D1 Casing pipe	D2 Casing pipe	z	l1	l2	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc		
200	32	315	90	225,00	1500,00	750,00	1313332		2213333		2413333		2713332		1	
200	40	315	110	225,00	1500,00	750,00	1313334		2213335		2413335		2713334		1	
200	50	315	110	225,00	1500,00	750,00	1313336		2213337		2413337		2713336		1	
200	63	315	125	225,00	1500,00	750,00	1313338		2213339		2413339		2713338		1	
200	75	315	140	225,00	1500,00	750,00	1313340		2213341		2413341		2713340		1	
200	90	315	160	225,00	1500,00	750,00	1313342		2213343		2413343		2713342		1	
200	110	315	200	225,00	1500,00	750,00	1313344		2213345		2413345		2713344		1	
200	125	315	225	225,00	1500,00	750,00	1313346		2213347		2413347		2713346		1	
200	160	315	250	225,00	1500,00	750,00	1313350		2213351		2413351		2713350		1	
250	32	400	90	225,00	1500,00	750,00	1313382		2213383		2413383		2713382		1	
250	40	400	110	225,00	1500,00	750,00	1313384		2213385		2413385		2713384		1	
250	50	400	110	225,00	1500,00	750,00	1313386		2213387		2413387		2713386		1	
250	63	400	125	225,00	1500,00	750,00	1313388		2213389		2413389		2713388		1	
250	75	400	140	225,00	1500,00	750,00	1313390		2213391		2413391		2713390		1	
250	90	400	160	225,00	1500,00	750,00	1313392		2213393		2413393		2713392		1	
250	110	400	200	225,00	1500,00	750,00	1313394		2213395		2413395		2713394		1	
250	125	400	225	225,00	1500,00	750,00	1313396		2213397		2413397		2713396		1	
250	160	400	250	225,00	1500,00	750,00	1313400		2213401		2413401		2713400		1	
250	200	400	315	225,00	1500,00	750,00	1313402		2213403		2413403		2713402		1	
315	32	450	90	225,00	1500,00	750,00	1313406		2213407				2713406		1	
315	40	450	110	225,00	1500,00	750,00	1313408		2213409				2713408		1	
315	50	450	110	225,00	1500,00	750,00	1313410		2213411				2713410		1	
315	63	450	125	225,00	1500,00	750,00	1313412		2213413				2713412		1	
315	75	450	140	225,00	1500,00	750,00	1313414		2213415				2713414		1	
315	90	450	160	225,00	1500,00	750,00	1313416		2213417				2713416		1	
315	110	450	200	225,00	1500,00	750,00	1313418		2213419				2713418		1	
315	125	450	225	225,00	1500,00	750,00	1313420		2213421				2713420		1	
315	160	450	250	225,00	1500,00	750,00	1313424		2213425				2713424		1	
315	200	450	315	225,00	1500,00	750,00	1313428		2213429				2713428		1	
315	250	450	400	225,00	1500,00	750,00	1313432		2213433				2713432		1	

On request available: aquatherm green pipe ti SDR 7.4



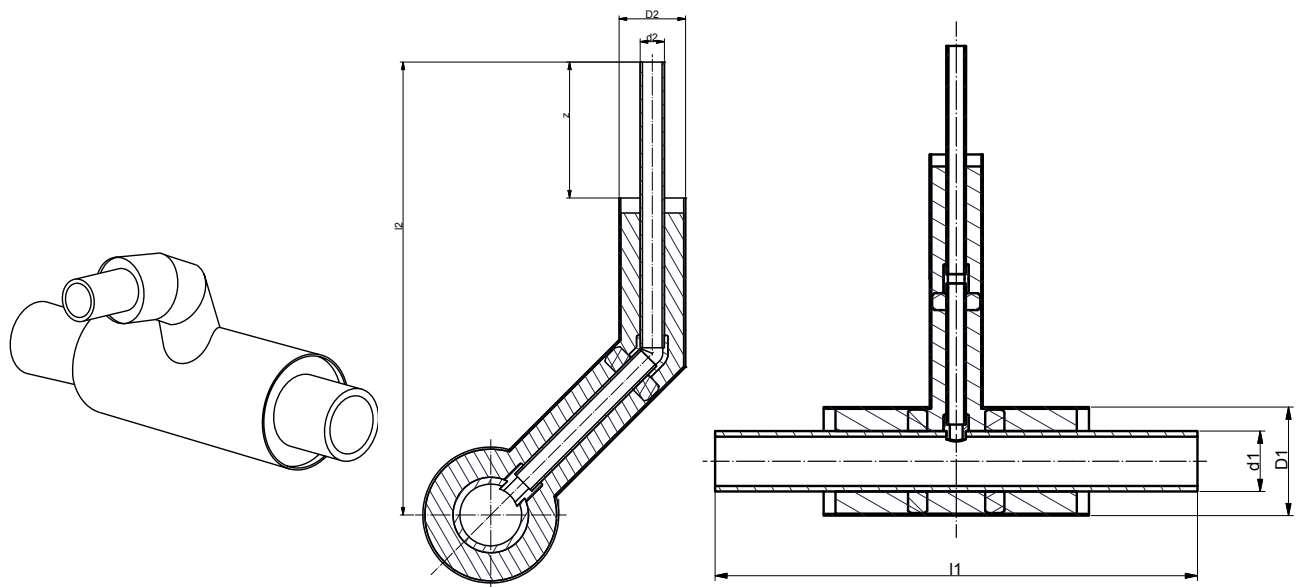


### aquatherm ti RED. CROSS-OVER BRANCH SL 500/750

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					
d1 Medium pipe	d2 Medium pipe	D1 Casing pipe	D2 Casing pipe	z	l1	l2	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc		
40	32	110	90	225,00	1000,00	750,00	1318202		2218202		2418202				1	
50	32	110	90	225,00	1000,00	750,00	1318206		2218206		2418206				1	
50	40	110	110	225,00	1000,00	750,00	1318208		2218208		2418208				1	
63	32	125	90	225,00	1000,00	750,00	1318212		2218212		2418212				1	
63	40	125	110	225,00	1000,00	750,00	1318214		2218214		2418214				1	
63	50	125	110	225,00	1000,00	750,00	1318216		2218216		2418216				1	
75	32	140	90	225,00	1000,00	750,00	1318220		2218220		2418220				1	
75	40	140	110	225,00	1000,00	750,00	1318222		2218222		2418222				1	
75	50	140	110	225,00	1000,00	750,00	1318224		2218224		2418224				1	
75	63	140	125	225,00	1000,00	750,00	1318226		2218226		2418226				1	
90	32	160	90	225,00	1000,00	750,00	1318230		2218230		2418230				1	
90	40	160	110	225,00	1000,00	750,00	1318232		2218232		2418232				1	
90	50	160	110	225,00	1000,00	750,00	1318234		2218234		2418234				1	
90	63	160	125	225,00	1000,00	750,00	1318236		2218236		2418236				1	
90	75	160	140	225,00	1000,00	750,00	1318238		2218238		2418238				1	
110	32	200	90	225,00	1000,00	750,00	1318242		2218242		2418242				1	
110	40	200	110	225,00	1000,00	750,00	1318244		2218244		2418244				1	
110	50	200	110	225,00	1000,00	750,00	1318246		2218246		2418246				1	
110	63	200	125	225,00	1000,00	750,00	1318248		2218248		2418248				1	
110	75	200	140	225,00	1000,00	750,00	1318250		2218250		2418250				1	
110	90	200	160	225,00	1000,00	750,00	1318252		2218252		2418252				1	
125	32	225	90	225,00	1000,00	750,00	1318256		2218256		2418256				1	
125	40	225	110	225,00	1000,00	750,00	1318258		2218258		2418258				1	
125	50	225	110	225,00	1000,00	750,00	1318260		2218260		2418260				1	
125	63	225	125	225,00	1000,00	750,00	1318262		2218262		2418262				1	
125	75	225	140	225,00	1000,00	750,00	1318264		2218264		2418264				1	
125	90	225	160	225,00	1000,00	750,00	1318266		2218266		2418266				1	
125	110	225	200	225,00	1000,00	750,00	1318268		2218268		2418268				1	
160	32	250	90	225,00	1000,00	750,00	1318290		2218291		2418291		2718290		1	
160	40	250	110	225,00	1000,00	750,00	1318292		2218293		2418293		2718292		1	
160	50	250	110	225,00	1000,00	750,00	1318294		2218295		2418295		2718294		1	
160	63	250	125	225,00	1000,00	750,00	1318296		2218297		2418297		2718296		1	
160	75	250	140	225,00	1000,00	750,00	1318298		2218299		2418299		2718298		1	
160	90	250	160	225,00	1000,00	750,00	1318300		2218301		2418301		2718300		1	
160	110	250	200	225,00	1000,00	750,00	1318302		2218303		2418303		2718302		1	
160	125	250	225	225,00	1000,00	1000,00	1318304		2218305		2418305		2718304		1	

On request available: aquatherm green pipe ti SDR 7.4

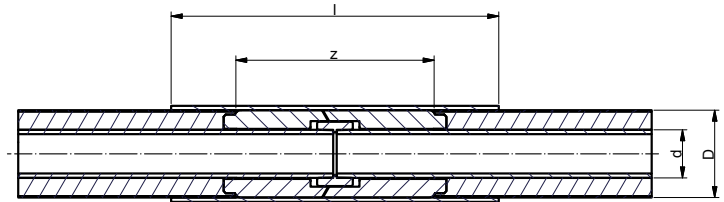


### aquatherm ti RED. CROSS-OVER BRANCH SL 500/750

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					
d1 Medium pipe	d2 Medium pipe	D1 Casing pipe	D2 Casing pipe	z	l1	l2	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc		
200	32	315	90	225,00	1000,00	750,00	1318332		2218333		2418333		2718332		1	
200	40	315	110	225,00	1000,00	1000,00	1318334		2218335		2418335		2718334		1	
200	50	315	110	225,00	1000,00	1000,00	1318336		2218337		2418337		2718336		1	
200	63	315	125	225,00	1000,00	1000,00	1318338		2218339		2418339		2718338		1	
200	75	315	140	225,00	1000,00	1000,00	1318340		2218341		2418341		2718340		1	
200	90	315	160	225,00	1000,00	1000,00	1318342		2218343		2418343		2718342		1	
200	110	315	200	225,00	1000,00	1000,00	1318344		2218345		2418345		2718344		1	
200	125	315	225	225,00	1500,00	1000,00	1318346		2218347		2418347		2718346		1	
200	160	315	250	225,00	1500,00	1000,00	1318350		2218351		2418351		2718350		1	
250	32	400	90	225,00	1000,00	1000,00	1318382		2218383		2418383		2718382		1	
250	40	400	110	225,00	1000,00	1000,00	1318384		2218385		2418385		2718384		1	
250	50	400	110	225,00	1000,00	1000,00	1318386		2218387		2418387		2718386		1	
250	63	400	125	225,00	1000,00	1000,00	1318388		2218389		2418389		2718388		1	
250	75	400	140	225,00	1000,00	1000,00	1318390		2218391		2418391		2718390		1	
250	90	400	160	225,00	1000,00	1000,00	1318392		2218393		2418393		2718392		1	
250	110	400	200	225,00	1000,00	1000,00	1318394		2218395		2418395		2718394		1	
250	125	400	225	225,00	1000,00	1000,00	1318396		2218397		2418397		2718396		1	
250	160	400	250	225,00	1500,00	1000,00	1318400		2218401		2418401		2718400		1	
250	200	400	315	225,00	1500,00	1000,00	1318402		2218403		2418403		2718402		1	
315	32	450	90	225,00	1000,00	1000,00	1318406		2218407				2718406		1	
315	40	450	110	225,00	1000,00	1000,00	1318408		2218409				2718408		1	
315	50	450	110	225,00	1000,00	1000,00	1318410		2218411				2718410		1	
315	63	450	125	225,00	1000,00	1000,00	1318412		2218413				2718412		1	
315	75	450	140	225,00	1000,00	1000,00	1318414		2218415				2718414		1	
315	90	450	160	225,00	1000,00	1000,00	1318416		2218417				2718416		1	
315	110	450	200	225,00	1000,00	1000,00	1318418		2218419				2718418		1	
315	125	450	225	225,00	1000,00	1000,00	1318420		2218421				2718420		1	
315	160	450	250	225,00	1000,00	1000,00	1318424		2218425				2718424		1	
315	200	450	315	225,00	1500,00	1000,00	1318428		2218429				2718428		1	
315	250	450	400	225,00	1500,00	1000,00	1318432		2218433				2718432		1	

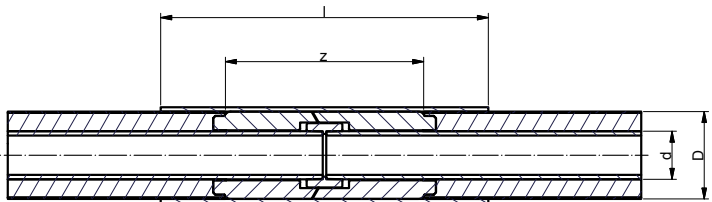
On request available: aquatherm green pipe ti SDR 7.4



### 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.

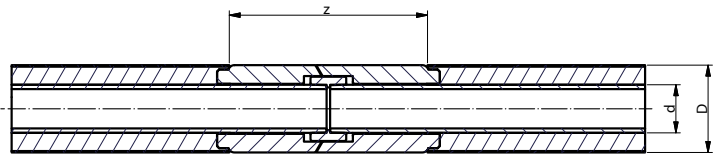
Outside diameter		aquatherm ti		PU	Box unit
Medium pipe d	Casing pipe D	z	l	Art.-No.	Price € m/pc
<i>Socket welding: the fitting for the connection of the medium pipes is included in delivery.</i>					
32	90	454,50	650,00	<b>2211012</b>	1
40	110	456,50	650,00	<b>2211014</b>	1
50	110	456,00	650,00	<b>2211016</b>	1
63	125	455,50	650,00	<b>2211018</b>	1
75	140	456,50	650,00	<b>2211020</b>	1
90	160	456,50	650,00	<b>2211022</b>	1
110	200	458,00	650,00	<b>2211024</b>	1
125	225	460,00	650,00	<b>2211026</b>	1
<i>Butt welding: no fitting is required for the connection of the medium pipes</i>					
160	250	445,00	650,00	<b>2211030</b>	1
200	315	444,00	650,00	<b>2211034</b>	1
250	400	444,00	650,00	<b>2211038</b>	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.

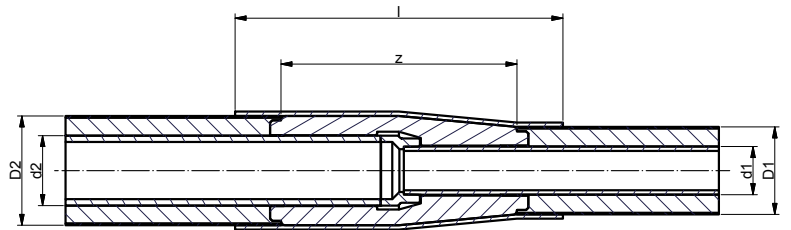
Outside diameter		aquatherm ti		PU	Box unit
Medium pipe d	Casing pipe D	z	l	Art.-No.	Price € m/pc
<i>Socket welding: the fitting for the connection of the medium pipes is included in delivery.</i>					
32	90	454,50	750,00	<b>1211012</b>	1
40	110	456,50	750,00	<b>1211014</b>	1
50	110	456,00	750,00	<b>1211016</b>	1
63	125	455,50	750,00	<b>1211018</b>	1
75	140	456,50	750,00	<b>1211020</b>	1
90	160	456,50	750,00	<b>1211022</b>	1
110	200	458,00	750,00	<b>1211024</b>	1
125	225	460,00	750,00	<b>1211026</b>	1
<i>Butt welding: no fitting is required for the connection of the medium pipes</i>					
160	250	445,00	750,00	<b>1211030</b>	1
200	315	444,00	750,00	<b>1211034</b>	1
250	400	444,00	750,00	<b>1211038</b>	1
315	450	444,00	750,00	<b>1211042</b>	1



### aquatherm ti INSULATION-SOCKET-SET

Consists of PUR-rigid foam elements and a fitting (socket up to 125 mm) depending on the dimension.  
 Required accessories for the installation: insulating tape and primer (p. 86)

Outside diameter			aquatherm ti		PU	Box unit
Medium pipe d	Casing pipe D	z	Art.-No.	Price € m/pc		
<i>Socket welding: the fitting for the connection of the medium pipes is included in delivery.</i>						
32	90	454,50	<b>2411012</b>		1	
40	110	456,50	<b>2411014</b>		1	
50	110	456,00	<b>2411016</b>		1	
63	125	455,50	<b>2411018</b>		1	
75	140	456,50	<b>2411020</b>		1	
90	160	456,50	<b>2411022</b>		1	
110	200	458,00	<b>2411024</b>		1	
125	225	460,00	<b>2411026</b>		1	
<i>Butt welding: no fitting is required for the connection of the medium pipes</i>						
160	250	445,00	<b>2411030</b>		1	
200	315	444,00	<b>2411034</b>		1	
250	400	444,00	<b>2411038</b>		1	
315	450	444,00	<b>2411042</b>		1	

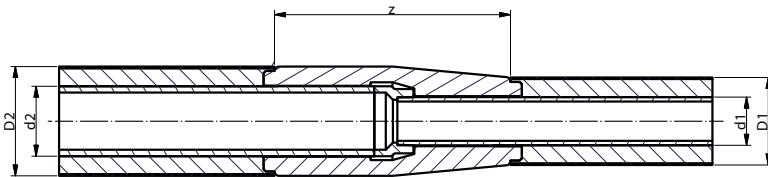


### aquatherm ti REDUCING SOCKET

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 SDR 9 aquatherm blue pipe ti SDR 11		PU	Box unit
d1 Medium pipe	d2 Medium pipe	D1 Casing pipe	D2 Casing pipe	z	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	456,00	900,00	<b>1211222</b>	1
50	32	90	110	456,00	900,00	<b>1211228</b>	1
50	40	110	125	456,00	900,00	<b>1211230</b>	1
63	40	110	125	455,50	900,00	<b>1211236</b>	1
63	50	110	140	455,50	900,00	<b>1211238</b>	1
75	50	110	140	456,50	900,00	<b>1211240</b>	1
75	63	125	160	456,50	900,00	<b>1211242</b>	1
90	63	125	160	456,50	900,00	<b>1211252</b>	1
90	75	140	200	456,50	900,00	<b>1211253</b>	1
110	75	140	200	458,00	900,00	<b>1211257</b>	1
110	90	160	225	458,00	900,00	<b>1211259</b>	1
125	90	160	225	458,00	900,00	<b>1211263</b>	1
125	110	200	250	460,00	900,00	<b>1211265</b>	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		
d1 Medium pipe	d2 Medium pipe	D1 Casing pipe	D2 Casing pipe	z	l	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	
160	110	200	250	540,00	750,00	1311274		2211275		2711274		1
160	125	225	315	540,00	750,00	1311276		2211277		2711276		1
200	125	225	315	585,00	750,00	1311282		2211283		2711282		1
<i>Double-sided butt welding</i>												
200	160	250	400	585,00	750,00	1311284		2211285		2711284		1
250	160	250	400	622,00	750,00	1311288		2211289		2711288		1
250	200	315	400	622,00	750,00	1311290		2211291		2711290		1
200	315	315	450	622,00	750,00	1311296		2211297		2711296		1
250	315	400	450	622,00	750,00	1311298		2211299		2711298		1



### aquatherm ti INSULATION-REDUCING SOCKET-SET

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

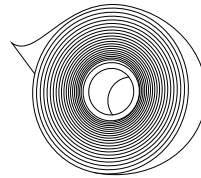
Outside diameter						aquatherm ti		PU	Box unit
d2	d1	D1	D2	z	l	Art.-No.	Price € m/pc		
<i>Socket welding: up to 125 x 110 mm, than onesided socket- and onesided butt welding</i>									
40	32	90	110	456,00	900,00	2411222			1
50	32	90	110	456,00	900,00	2411228			1
50	40	110	125	456,00	900,00	2411230			1
63	40	110	125	455,50	900,00	2411236			1
63	50	110	140	455,50	900,00	2411238			1
75	50	110	140	456,50	900,00	2411240			1
75	63	125	160	456,50	900,00	2411242			1
90	63	125	160	456,50	900,00	2411252			1
90	75	140	200	456,50	900,00	2411253			1
110	75	140	200	458,00	900,00	2411257			1
110	90	160	225	458,00	900,00	2411259			1
125	90	160	225	458,00	900,00	2411263			1
125	110	200	250	460,00	900,00	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	z	l	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	Art.-No.	Price € m/pc	
160	110	200	250	540,00	750,00	1311275		2411275		2711275		1
160	125	225	315	540,00	750,00	1311277		2411277		2711277		1
200	125	225	315	585,00	750,00	1311283		2411283		2711283		1
<i>Double-sided butt welding</i>												
200	160	250	400	585,00	750,00	1311285		2411285		2711285		1
250	160	250	400	622,00	750,00	1311289		2411289		2711289		1
250	200	315	400	622,00	750,00	1311291		2411291		2711291		1
315	200	315,00	450	622,00	750,00	1311297		2411297		2711297		1
315	250	400	450	622,00	750,00	1311299		2411299		2711299		1

## aquatherm ti MONO TOP 40 INSULATION TAPE

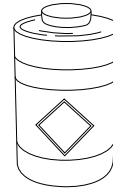
for post-insulation of connections with the aquatherm-insulation-socket set

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



## aquatherm ti PRIMER

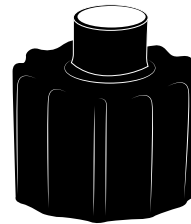
Art.-No.	Amount	Price € m/pc	PU	Box unit
2411002	1 liter		1	



## aquatherm ti CLOSING COLLAR

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

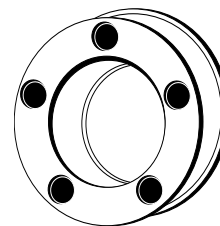
Outside diameter		aquatherm ti		PU	Box unit
Medium pipe	Casing pipe	Art.-No.	Price € m/pc		
32 mm	90 mm	1214112		1	
40-50 mm	110 mm	1214114		1	
63-75 mm	125-140 mm	1214118		1	
90 mm	160 mm	1214122		1	
110 mm	200 mm	1214124		1	
125 mm	225 mm	1214126		1	
160 mm	250 mm	1214130		1	
200 mm	315 mm	1214134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



## aquatherm ti COMPACT SEALS

Pipe collar for wall duct.

Outside diameter			aquatherm ti		PU	Box unit
Core drill hole	Medium pipe	Casing pipe	Art.-No.	Price € m/pc		
150	32	90	1214212		1	
200	40-50	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	

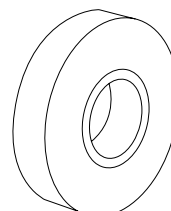


## aquatherm ti WARNING TAPE

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

Colour: yellow

Printing in black: "Attention district heating pipeline"





# aquatherm grey pipe

## POTABLE WATER AND HEATING CONNECTION SYSTEM

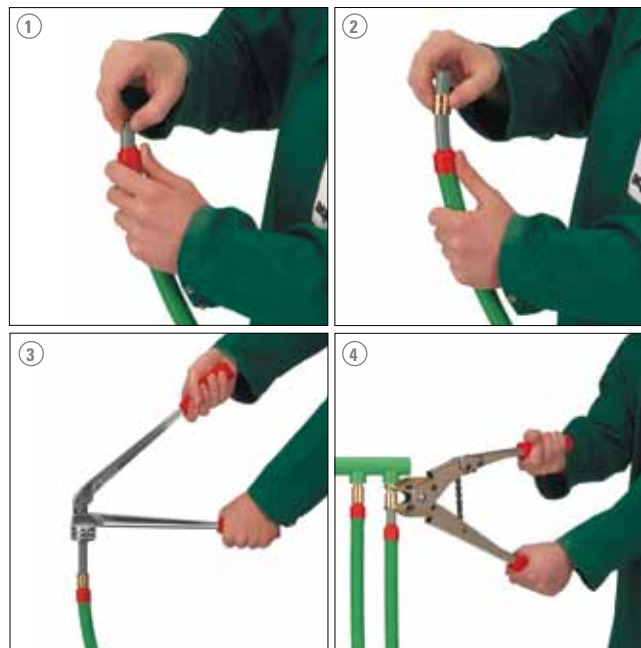
The aquatherm grey pipe installation system consists of high-quality multi-layer metal composite pipe or optional flexible polybutene pipe.

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

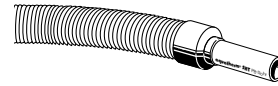


## aquatherm grey pipe POTABLE WATER AND RADIATOR CONNECTION PIPE

in corrugated pipe, with oxygen barrier

Art.-No.	Dimension	PU	Price € m/pc
<b>77000</b>	16 x 2,0 mm	100	
<b>77002</b>	20 x 2,0 mm	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

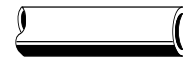
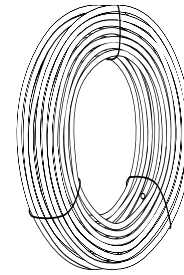
with oxygen barrier

Art.-No.	Dimension	PU	Price € m/pc
<b>77020</b>	16 x 2,0 mm	100	
<b>77022</b>	20 x 2,0 mm	100	
<b>77024</b>	25 x 2,3 mm	50	

... in length á 4 m

<b>77040</b>	16 x 2,0 mm	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

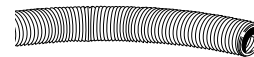


## aquatherm grey pipe MULTI LAYER METAL COMPOSITE PIPE on page 107

### aquatherm grey pipe CORRUGATED PIPE

Art.-No.	for pipe dimensions	PU	Price € m/pc
<b>77010</b>	16 mm	100	
<b>77012</b>	20 mm	50	

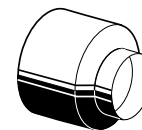
Material: PE  
 Colour: green  
 Form supplied: ring



### aquatherm grey pipe END SLEEVE FOR CORRUGATED PIPE

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

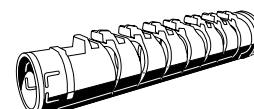
Material: PE  
 Colour: 77080-77082: red / 77090-77092: blue



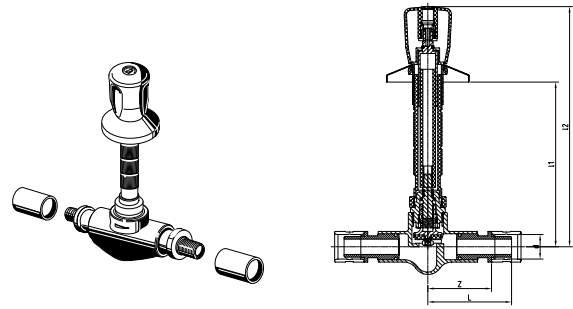
### aquatherm grey pipe SNAP IN RADIUS SUPPORT

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

Material: PE  
 Colour: black



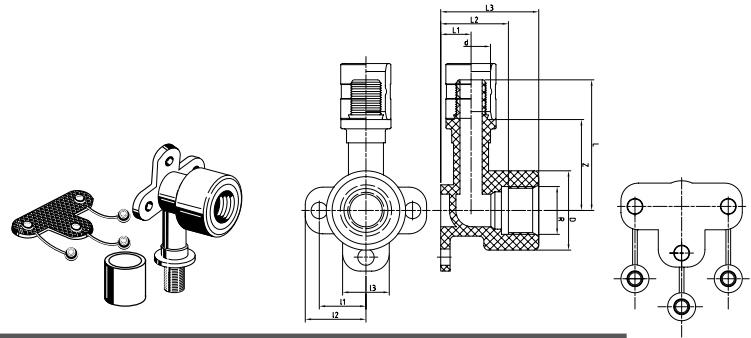




**aquatherm grey pipe CONCEALED STOP VALVE**  
including sliding sleeve

Art.-No.	d	Z	L	I1	I2	PU	Price € m/pc
79858	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
79000	16	G1/2	34,00	39,00	56,00	13,00	29,00	42,00	20,00	26,00	20,00	1	
79002	20	G3/4	40,00	42,00	59,00	13,00	29,00	42,00	25,00	31,00	20,00	1	
79004	20	G1/2	34,00	39,00	56,00	13,00	29,00	42,00	20,00	26,00	20,00	1	
79006	25	G3/4	33,00	36,00	54,00	27,00	29,00	48,00	20,00	26,00	20,00	1	

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

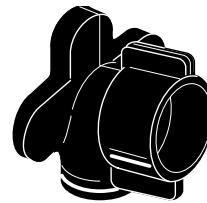
**DISCONTINUED aquatherm grey pipe SOUND INSULATION COVER**

for Art.-No. 79000-79006

**Please note:** This is a discontinued article that is no longer available after sale of stocks.

Art.-No.	Dimension	PU	Price € m/pc
79008	Thickness = 5mm	2	

Material: PE



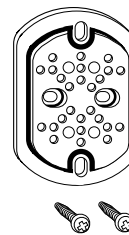
**aquatherm grey pipe SOUND INSULATION PLATE**

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

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

suitable with the mousing rail Art.-No. 79090

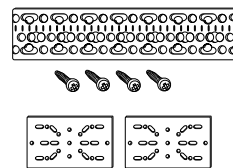
See z-measures, page 41.



**MOUNTING RAIL**

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

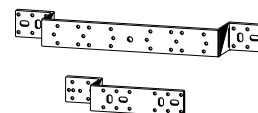
galvanized, for assembly of back plate elbow, including 2 fixing plates and 4 screws  
See Z-measures, page 41.



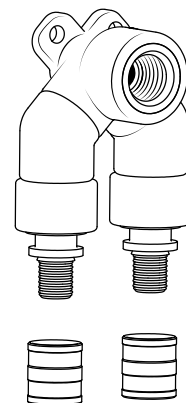
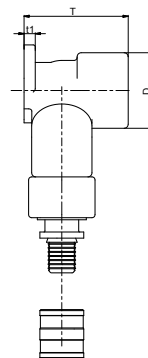
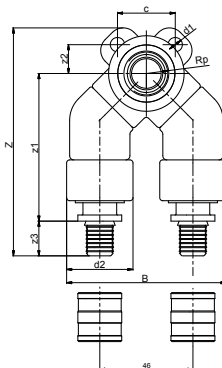
**MOUNTING RAIL (TWIN AND SINGLE)**

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

galvanized, for fixing of back plate  
See Z-measures, page 42.

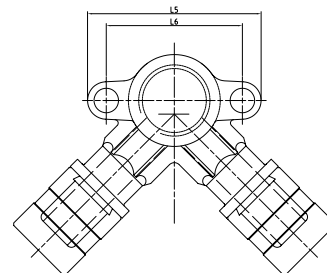
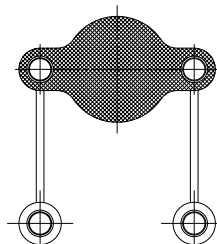
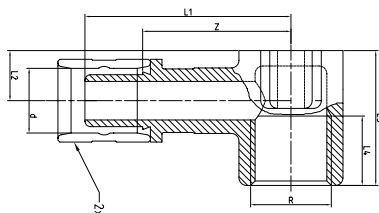
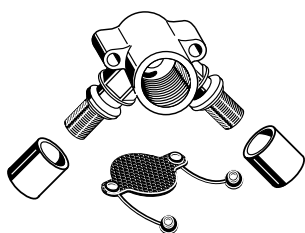


**NEW PRINCIPLE OF FLOW-THROUGH BACK PLATE ELBOW**



**NEW aquatherm grey pipe FLOW-THROUGH BACK PLATE ELBOW, PARALLEL**

Art.-No.	Dimensions	D	d1	d2	Z	z1	z2	z3	t1	T	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	17,00	5,50	51,00	1		
779052	20 mm x 1/2" f x 20 mm	37,00	7,00	32,50	111,65	72,30	14,14	17,00	5,50	51,00	1		



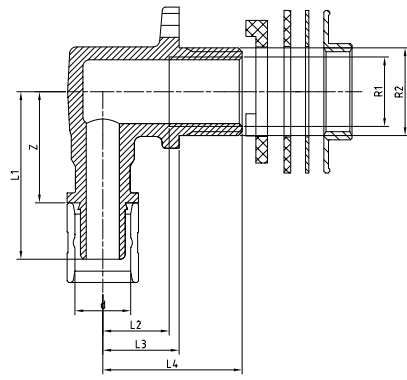
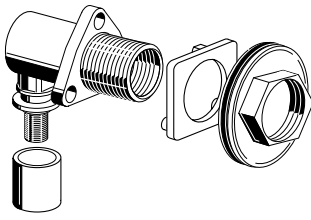
**aquatherm grey pipe BACK PLATE ELBOW, TWIN**

*including sliding sleeves*

Art.-No.	d	Z	L1	L2	L3	R	L4	L5	PU	Price € m/pc
79010	16	38,50	53,50	13,00	35,00	G1/2	18,00	51,00		

Material: brass  
including acoustic panel (PP)

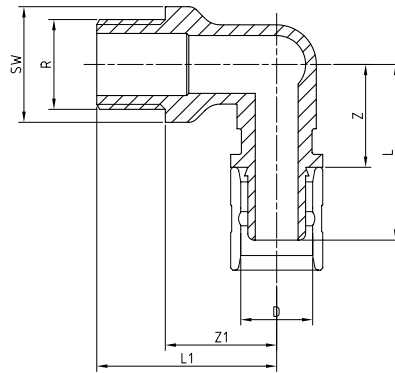
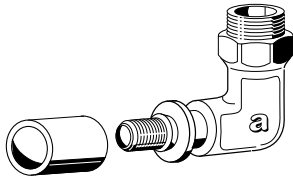
aquatherm grey pipe



**aquatherm grey pipe CONNECTING ELBOW FOR CONCEALED CISTERN**  
including sliding sleeve

Art.-No.	d	Z	L1	L2	L3	R	L4	L5	PU	Price € m/pc
<b>79020</b>	<b>16</b>	<b>33,50</b>	<b>50,50</b>	<b>20,00</b>	<b>23,00</b>	<b>G1/2</b>	<b>42,00</b>	<b>51,00</b>	<b>1</b>	

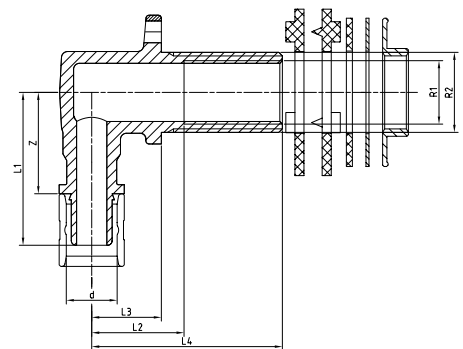
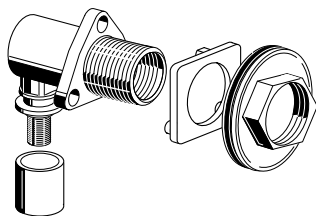
Material: brass  
including counter nut, gasket and spring washer



**aquatherm grey pipe TRANSITION ELBOW**  
including sliding sleeve

Art.-No.	d	R	Z	Z1	L	L1	SW	PU	Price € m/pc
<b>79030</b>	<b>16</b>	<b>G1/2</b>	<b>24,00</b>	<b>26,00</b>	<b>41,00</b>	<b>42,00</b>	<b>24,00</b>	<b>2</b>	
<b>79032</b>	<b>20</b>	<b>G1/2</b>	<b>24,00</b>	<b>26,00</b>	<b>41,00</b>	<b>42,00</b>	<b>24,00</b>	<b>2</b>	
<b>79033</b>	<b>20</b>	<b>G3/4</b>	<b>25,50</b>	<b>21,00</b>	<b>42,50</b>	<b>38,00</b>	<b>-</b>	<b>2</b>	
<b>79034</b>	<b>25</b>	<b>G3/4</b>	<b>26,00</b>	<b>21,00</b>	<b>44,00</b>	<b>38,00</b>	<b>-</b>	<b>2</b>	

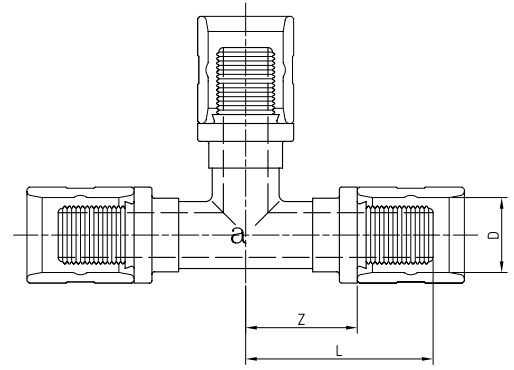
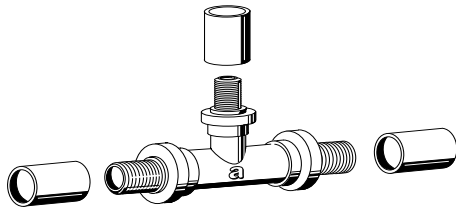
Material: brass



**aquatherm grey pipe CONNECTING ELBOW**  
for dry construction, including sliding sleeve

Art.-No.	d	R1	Z	L1	R2	L2	L3	L4	PU	Price € m/pc
<b>79040</b>	<b>16</b>	<b>G1/2</b>	<b>33,50</b>	<b>50,50</b>	<b>G3/4</b>	<b>30,50</b>	<b>23,00</b>	<b>63,00</b>	<b>2</b>	

Material: brass  
including counter nut, gasket and 2 spring washers

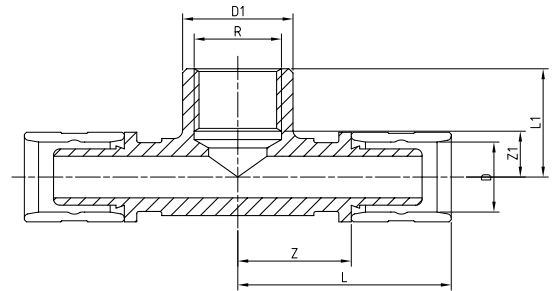
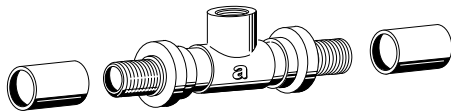


### aquatherm grey pipe TEE

including sliding sleeves

Art.-No.	d	Z	L	PU	Price € m/pc
<b>79100</b>	<b>16</b>	25,00	42,00	2	
<b>79102</b>	<b>20</b>	24,00	41,00	2	
<b>79104</b>	<b>25</b>	27,00	45,00	2	

Material: PPSU/brass

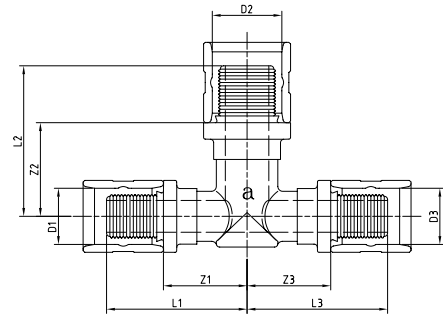
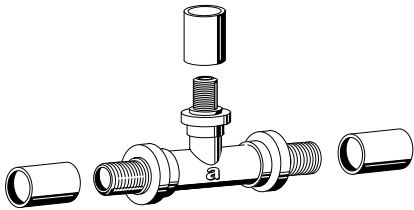


### aquatherm grey pipe TEE WITH FEMALE THREAD

including sliding sleeve

Art.-No.	d	R	Z	L	D1	L1	Z1	PU	Price € m/pc
<b>79160</b>	<b>16</b>	<b>G1/2</b>	27,25	44,25	26,50	26,00	11,00	2	
<b>79162</b>	<b>20</b>	<b>G1/2</b>	26,25	43,25	26,25	26,00	11,00	2	
<b>79163</b>	<b>25</b>	<b>G1/2</b>	30,00	54,00	32,00	28,00	9,00	2	
<b>79164</b>	<b>25</b>	<b>G3/4</b>	31,00	48,00	32,00	28,00	11,00	2	

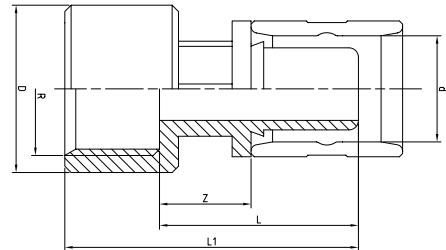
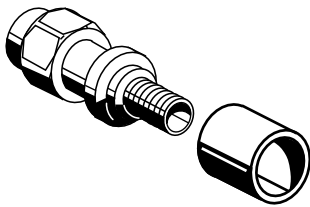
Material: brass



### aquatherm grey pipe REDUCING TEE

including sliding sleeves

Art.-No.	d1	d2	d3	Z1	L1	Z2	L2	Z3	L3	PU	Price € m/pc
79110	16	20	16	25,00	42,00	28,00	45,00	25,00	42,00	2	
79112	20	16	16	25,00	42,00	25,00	42,00	25,00	42,00	2	
79114	20	16	20	25,00	42,00	25,00	42,00	25,00	42,00	2	
79116	20	20	16	25,00	42,00	25,00	42,00	25,00	42,00	2	
79118	25	20	25	27,00	45,00	28,00	45,00	27,00	45,00	2	
79120	25	20	20	27,00	45,00	28,00	45,00	28,00	45,00	2	
79122	25	20	16	27,00	45,00	28,00	45,00	28,00	45,00	2	
79123	25	16	25	27,00	45,00	28,00	45,00	27,00	45,00	2	
79124	25	16	20	27,00	45,00	28,00	45,00	28,00	45,00	2	
79126	20	25	20	28,00	45,00	27,00	45,00	28,00	45,00	2	

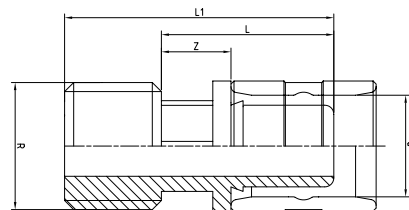
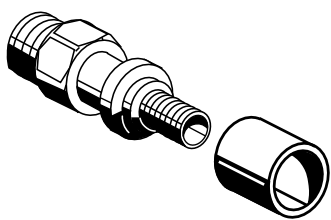


### aquatherm grey pipe TRANSITION PIECE

with female thread, including sliding sleeve

Art.-No.	d	R	Z	L	L1	D	PU	Price € m/pc
79182	16	G1/2	14,50	31,50	46,50	26,50	2	
79184	20	G1/2	14,50	31,50	46,50	26,50	2	
79186	20	G3/4	14,50	31,50	48,50	32,50	2	
79188	25	G3/4	16,50	34,50	51,50	32,50	2	

Material: brass

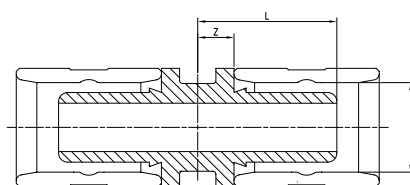
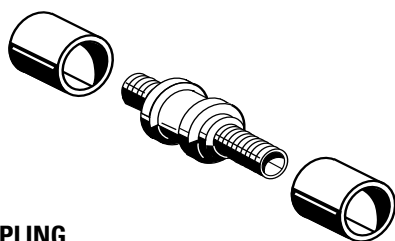


### aquatherm grey pipe **TRANSITION PIECE**

with male thread, including sliding sleeve

Art.-No.	d	R	Z	L	L1	PU	Price € m/pc
79200	16	G1/2	11,50	28,50	44,50	2	
79202	20	G1/2	11,50	28,50	44,50	2	
79203	20	G3/4	12,50	29,50	45,50	2	
79204	25	G3/4	14,50	31,50	47,50	2	
79205	25	G1/2	11,50	29,50	45,50	2	

Material: brass

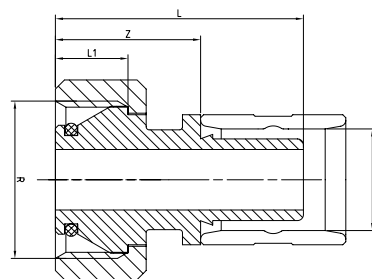
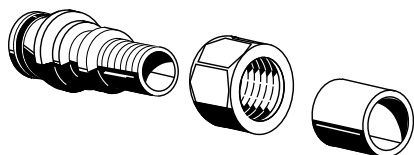


### aquatherm grey pipe **COUPLING**

including sliding sleeves

Art.-No.	d	Z	L	PU	Price € m/pc
79210	16	6,00	23,00	2	
79212	20	6,00	23,00	2	
79214	25	7,25	25,25	2	

Material: brass

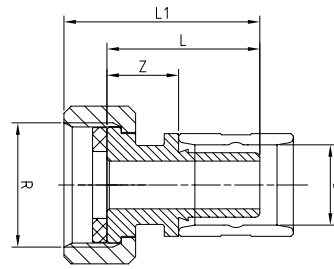
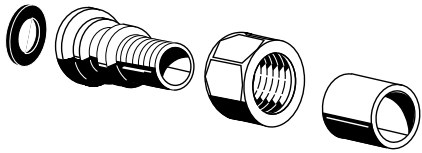


### aquatherm grey pipe **EUROCONUS ADAPTER**

including sliding sleeve

Art.-No.	d	R	Z	L	L1	PU	Price € m/pc
79220	16	G3/4	24,00	41,00	12,00	2	
79222	20	G3/4	30,00	47,00	15,00	2	

Material: brass  
for customary manifolds/joints

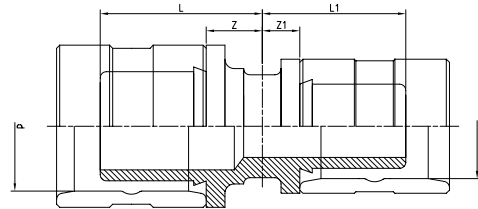
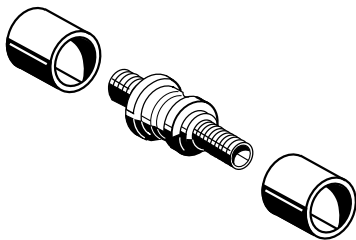


### aquatherm grey pipe TRANSITION SCREW JOINT

including sliding sleeve and gasket

Art.-No.	d	R	Z	L	L1	PU	Price € m/pc
79230	16	G3/4	15,00	32,00	41,00	2	
79232	20	G1	15,50	32,50	45,00	2	
79240	20	G3/4	22,00	39,00	48,00	2	
79242	25	G1	28,00	46,00	57,50	1	

Material: brass

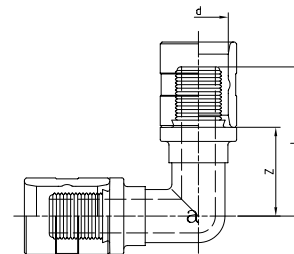
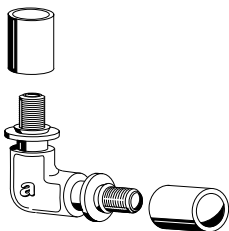


### aquatherm grey pipe REDUCING COUPLING

including sliding sleeve

Art.-No.	d	d1	Z	L	Z1	L1	PU	Price € m/pc
79250	20	16	9,00	26,00	6,00	23,00	2	
79252	25	20	10,00	28,00	6,00	23,00	2	
79254	25	16	10,00	28,00	6,00	23,00	2	

Material: brass



### aquatherm grey pipe ELBOW 90°

including sliding sleeve

Art.-No.	d	Z	L	PU	Price € m/pc
79300	16	25,00	42,00	2	
79302	20	25,00	42,00	2	
79304	25	27,00	45,00	2	

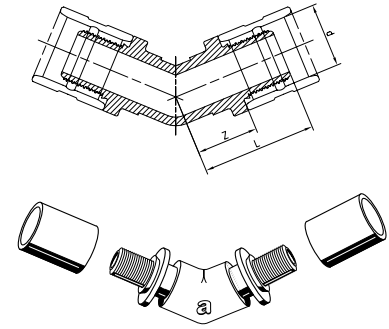
Material: PPSU/brass

### aquatherm grey pipe ELBOW 45°

including sliding sleeve

Art.-No.	d	Z	L	PU	Price € m/pc
<b>79322</b>	<b>20</b>	20,00	37,00	2	
<b>79324</b>	<b>25</b>	22,00	40,00	2	

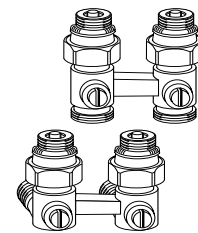
Material: PPSU/brass



### aquatherm grey pipe RADIATOR VALVE

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

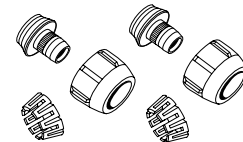
Material: brass



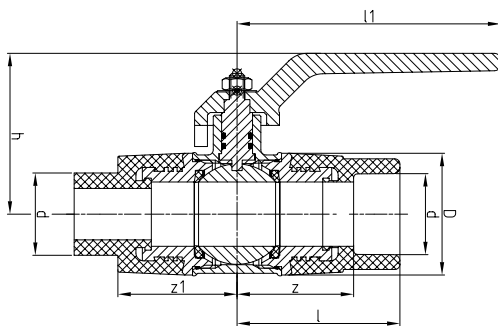
### aquatherm grey pipe COMPRESSION FITTING

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

Material: brass



aquatherm grey pipe

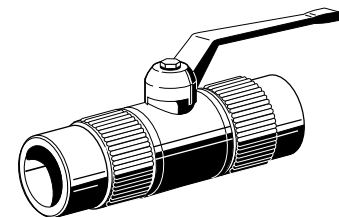


### aquatherm grey pipe BALL VALVE FOR MANIFOLD

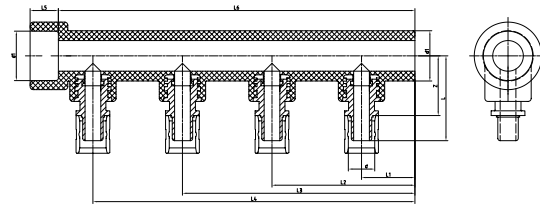
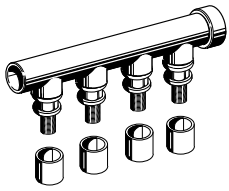
female/male

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

Material: PP-R/brass





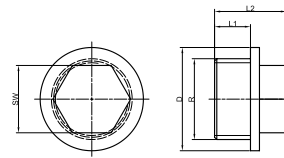
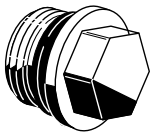


**aquatherm grey pipe FOUR-PORT MANIFOLD**

4 branches with sliding sleeve connection including sliding sleeves

Art.-No.	d	d1	Z	L	L1	L2	L3	L4	L5	L6	PU	Price € m/pc
<b>78003</b>	<b>16</b>	<b>32</b>	38,00	54,00	34,00	91,00	148,00	205,00	18,00	227,00	2	

Material: PP-R/brass  
Colour: green

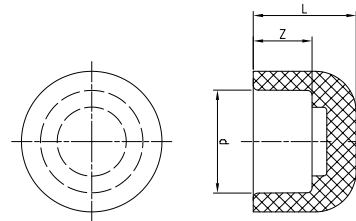
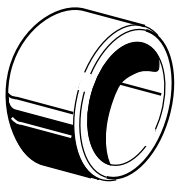


**aquatherm grey pipe BLIND PLUG**

for manifold branches

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

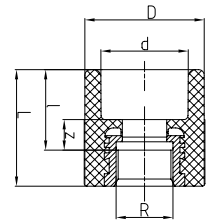
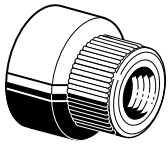
Material: brass



**aquatherm grey pipe END CAP**

Art.-No.	d	Z	L	PU	Price € m/pc
<b>14112</b>	<b>32</b>	18,00	31,50	5	

Material: PP-R  
Colour: green



**aquatherm grey pipe MANIFOLD END PIECE WITH FEMALE THREAD\***

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

Material: PP-R/brass

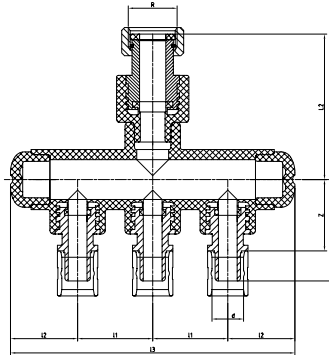
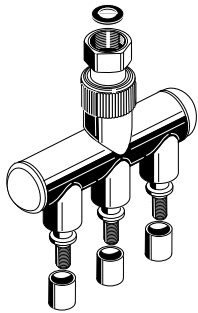
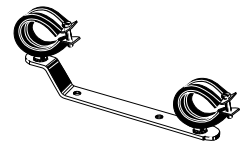
Colour: green

\* 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	1	



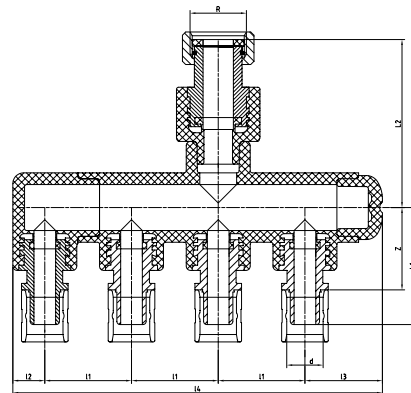
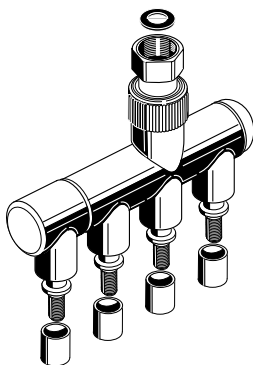
**aquatherm grey pipe UNIVERSAL MANIFOLD TRIPLE**

with water meter connecting union including sliding sleeves

Art.-No.	d	R	Z	L1	L2	I1	I2	PU	Price € m/pc
78050	16	G3/4	38,00	54,00	77,50	40,00	151,50	1	
78051	16	G1	38,00	55,00	73,50	40,00	169,22	1	

Material: PP-R/brass

Colour: green



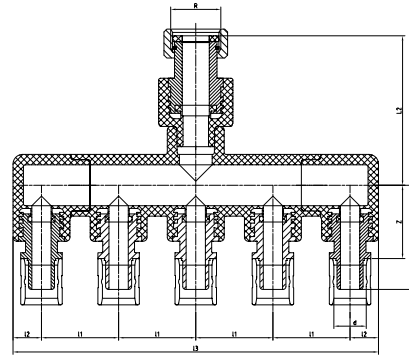
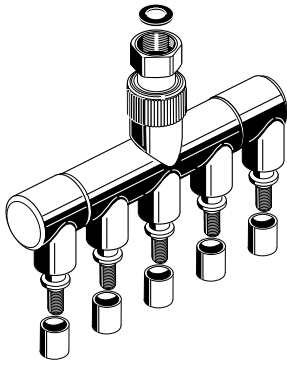
**aquatherm grey pipe UNIVERSAL MANIFOLD FOURFOLD**

with water meter connecting union including sliding sleeves

Art.-No.	d	R	Z	L1	L2	I1	I2	PU	Price € m/pc
78052	16	G3/4	38,00	54,00	77,50	40,00	170,50	1	
78053	16	G1	38,00	55,00	73,50	40,00	180,50	1	

Material: PP-R/brass

Colour: green

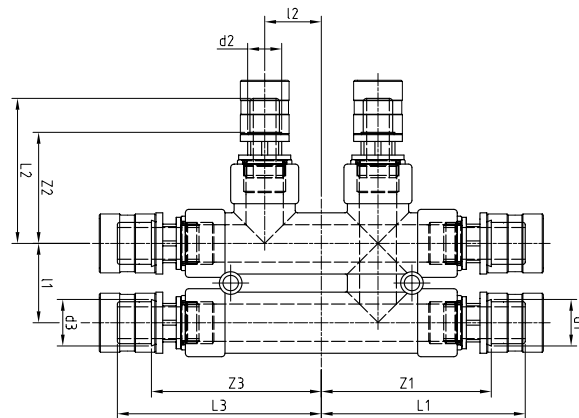
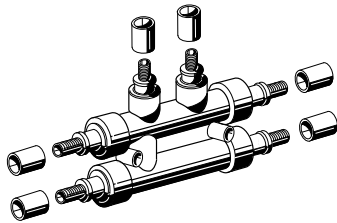


### aquatherm grey pipe UNIVERSAL MANIFOLD FIVEFOLD

with water meter connecting union including sliding sleeves

Art.-No.	d	R	Z	L1	L2	I1	I2	PU	Price € m/pc
<b>78054</b>	<b>16</b>	<b>G3/4</b>	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

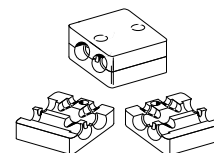
Art.-No.	d1	d2	d3	Z1	L1	Z2	L2	Z3	L3	I1	I2	PU	Price € m/pc
<b>78200</b>	<b>20</b>	<b>16</b>	<b>20</b>	75,00	90,00	49,00	64,00	75,00	90,00	35,00	50,00	1	
<b>78201</b>	<b>20</b>	<b>20</b>	<b>16</b>	73,00	90,00	48,00	65,00	73,00	89,00	35,00	50,00	1	
<b>78202</b>	<b>20</b>	<b>16</b>	<b>16</b>	73,00	90,00	48,00	64,00	73,00	89,00	35,00	50,00	1	
<b>78204</b>	<b>16</b>	<b>20</b>	<b>16</b>	73,00	89,00	48,00	65,00	73,00	89,00	35,00	50,00	1	
<b>78206</b>	<b>16</b>	<b>16</b>	<b>16</b>	73,00	89,00	48,00	64,00	73,00	89,00	35,00	50,00	1	
<b>78208</b>	<b>20</b>	<b>20</b>	<b>20</b>	73,00	90,00	48,00	65,00	73,00	90,00	35,00	50,00	1	

applicable as distribution end block,  
including 2 end plugs  
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
<b>78220</b>	height = 50 mm	1	

Material: PPS/PS



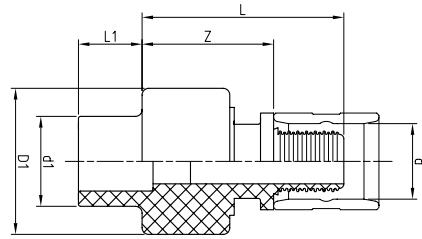
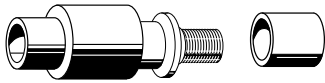
### aquatherm grey pipe END PIECE

for manifold and distribution blocks

Art.-No.	Dimension	PU	Price € m/pc
<b>78228</b>	16 mm - Length = 100 mm	2	

Material: PB



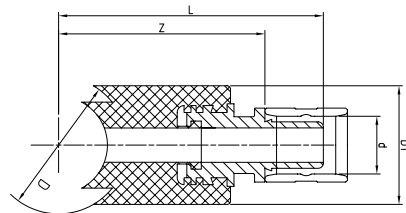
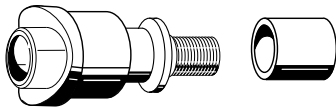


### aquatherm grey pipe ADAPTER

to aquatherm green pipe-fittings including sliding sleeve

Art.-No.	Dimension	d1	d	D1	Z	L	L1	PU	Price € m/pc
78320*	aquatherm green pipe 16 mm x aquatherm grey pipe 16 mm	16	16	32,50	31,50	47,50	13,00	2	
78300	aquatherm green pipe 20 mm x aquatherm grey pipe 16 mm	20	16	32,50	30,00	46,00	14,50	2	
78302	aquatherm green pipe 20 mm x aquatherm grey pipe 20 mm	20	20	34,50	30,00	47,00	11,00	2	
78304	aquatherm green pipe 25 mm x aquatherm grey pipe 20 mm	25	20	34,50	30,00	47,00	12,00	2	
78306	aquatherm green pipe 25 mm x aquatherm grey pipe 25 mm	25	25	43,50	35,00	52,00	14,60	2	
78308	aquatherm green pipe 32 mm x aquatherm grey pipe 25 mm	32	25	43,50	36,00	54,00	16,00	1	

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



### aquatherm grey pipe WELD-IN SADDLE ADAPTER

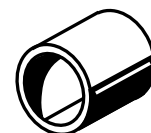
including sliding sleeve

Art.-No.	Dimension	D	d	Z	L	D1	PU	Price € m/pc
78402	aquatherm green pipe 40 mm x aquatherm grey pipe 16 mm	40,00	16	60,00	77,00	34,50	2	
78404	aquatherm green pipe 40 mm x aquatherm grey pipe 20 mm	40,00	20	58,00	75,00	38,50	2	
78406	aquatherm green pipe 50 mm x aquatherm grey pipe 16 mm	50,00	16	65,00	82,00	32,50	2	
78408	aquatherm green pipe 50 mm x aquatherm grey pipe 20 mm	50,00	20	64,00	81,00	38,50	2	
78410	aquatherm green pipe 63 mm x aquatherm grey pipe 16 mm	63,00	16	71,50	88,50	34,50	2	
78412	aquatherm green pipe 63 mm x aquatherm grey pipe 20 mm	63,00	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

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



Material: brass

### aquatherm grey pipe CONNECTING BEND\*...

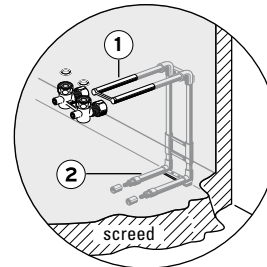
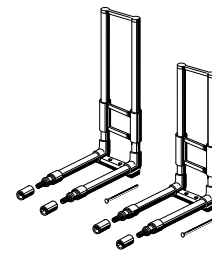
Art.-No.	Dimension	PU	Price € m/pc
<b>79500</b>	aquatherm grey pipe-pipe connection and radiator connection 16 x 2,0 mm height= 340 mm length = 200 mm	1	
<b>79510</b>	aquatherm grey pipe-pipe connection and radiator connection 16 x 2,0 mm height= 200 mm length = 200 mm	1	

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)

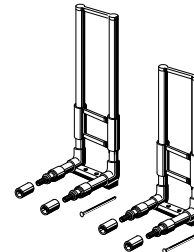
- 1. Art.-No.: 85120
- 2. Art.-No.: 79500



### aquatherm grey pipe CONNECTING BEND\*...

Art.-No.	Dimension	PU	Price € m/pc
<b>79502</b>	aquatherm grey pipe-pipe connection and radiator connection 16 x 2,0 mm height= 340 mm length = 45 mm	1	
<b>79512</b>	aquatherm grey pipe-pipe connection and radiator connection 16 x 2,0 mm height= 200 mm length = 45 mm	1	

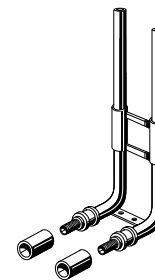
with sliding sleeve connection including sliding sleeves and one fastening plug  
 Pipe spacing: 50 mm  
 Material: PP-R/brass  
 Colour: white



### aquatherm grey pipe METAL CONNECTING BEND

Art.-No.	Dimension	PU	Price € m/pc
<b>79532</b>	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-T-CONNECTING SET

Art.-No.	Dimension	PU	Price € m/pc
<b>79534</b>	aquatherm grey pipe-pipe connection 16 x 2,0 mm radiator connection 15 x 1,0 mm height = 350 mm	1	
<b>79536</b>	aquatherm grey pipe-pipe connection 20 x 2,0 mm radiator connection 15 x 1,0 mm height = 350 mm	1	

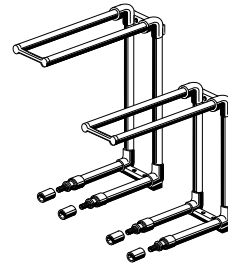
with sliding sleeve connections including sliding sleeves  
 Material: copper nickel-plated



### aquatherm grey pipe RADIATOR CONNECTING SET

Art.-No.	Dimension	PU	Price € m/pc
<b>79540</b>	aquatherm grey pipe-pipe connection and radiator connection 16 x 2,0 mm height= 260 mm length = 200 mm	1	
<b>79542</b>	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
<b>79550</b>	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



### aquatherm grey pipe RED.-NIPPLE

Art.-No.	Dimension	PU	Price € m/pc
<b>85115</b>	1/2" male x 3/4" male	2	

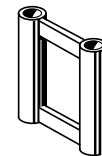
for the connection of radiator valves with compact valve radiators with connection 1/2" f



### aquatherm grey pipe PROTECTION SLEEVE

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

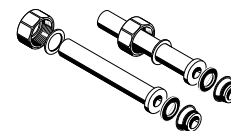
for protection of connection pipes of vertical radiator connection (from the floor) made of PP-R  
 - Colour: green  
 Pipe spacing: 50 mm



### aquatherm grey pipe RADIATOR CONNECTION SET

Art.-No.	Dimension	PU	Price € m/pc
<b>83006</b>	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

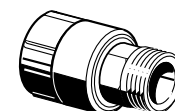


### aquatherm grey pipe RADIATOR CONNECTION PIECE

with hex shaped threaded connection

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

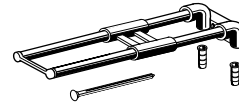
Material: PP-R  
 brass thread



### aqualtherm grey pipe **CONNECTING BEND**

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

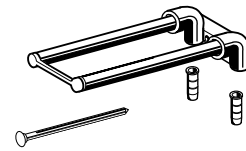
Length: 350 mm  
 Including 2 sliding sleeves (Ø 11,7 mm) and 1 fastening plug  
 Material: PP-R  
 Colour: white  
 Connection with two 16 mm welding tools (Art.-No. 50206)  
 Suitable distances for fixing at the welding device (Art.-No. 50337) are available



### aqualtherm grey pipe **CONNECTING BEND**

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

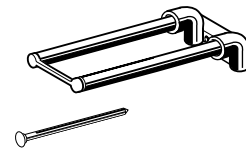
Length: 200 mm  
 Including 2 sliding sleeves (Ø 11,7 mm) and 1 fastening plug  
 Material: PP-R  
 Colour: white  
 Connection with two 16 mm welding tools (Art.-No. 50206)  
 Suitable distances for fixing at the welding device (Art.-No. 50337) are available



### aqualtherm grey pipe **CONNECTING BEND**

Art.-No.	Dimension	PU	Price € m/pc
<b>85121</b>	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

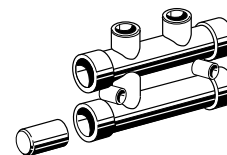


### aqualtherm grey pipe **DISTRIBUTION BLOCK**

*for skirting or floor installation*

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

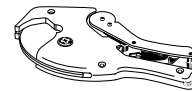
Passage 20 mm, 2 branches, including 1 plug 20 mm  
 Material: PP-R  
 Colour: green  
 Double welding with welding-device (Art.-No. 50337) in connection with two 16 mm and two 20 mm tools is possible.



### aquatherm grey pipe PIPE CUTTER

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

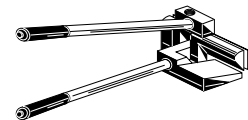
for aquatherm grey pipe- and aquatherm surface heating pipes



### aquatherm grey pipe BENDING TOOL

for mounting rail Art.-No. 79090

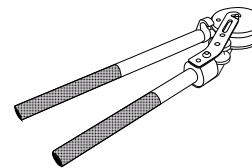
Art.-No.	Dimension	PU	Price € m/pc
<b>50840</b>		1	



### aquatherm grey pipe MANUAL PIPE BENDING TOOL

for multi-layer metal composite pipes

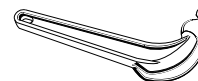
Art.-No.	Dimension	PU	Price € m/St
<b>50970</b>	for ø 16 mm	1	
<b>50972</b>	for ø 20 mm	1	



### aquatherm grey pipe BENDING TEMPLATE

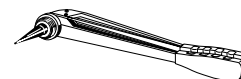
for multi-layer metal composite pipes

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



### aquatherm grey pipe EXPANDING TOOL

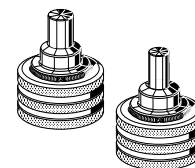
Art.-No.	Dimension	PU	Price € m/pc
<b>50800</b>	for ø 10-40 mm	1	



### FALSE JAWS FOR THE AQUATHERM GREY PIPE-EXPANDING TOOL

for aquatherm grey pipe PB-pipes

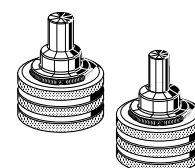
Art.-No.	Dimension	PU	Price € m/pc
<b>50814</b>	10 mm	1	
<b>50815</b>	14 mm	1	
<b>50817</b>	16 & 20 mm	1	
<b>50820</b>	25 mm	1	



### FALSE JAWS FOR THE AQUATHERM GREY PIPE-EXPANDING TOOL

for aquatherm grey pipe multi-layer metal composite pipes

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

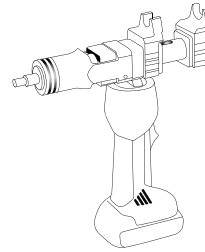




**aquatherm grey pipe HYDRAULIC ACCUMULATOR MOUNTING TOOL**  
for aquatherm grey pipe pipes

Art.-No.	Dimension	PU	Price € m/pc
<b>50809</b>	for ø 16-40 mm	1	

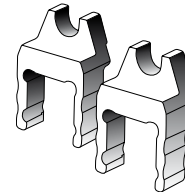
with recharger, expanding adapter and plastic suitcase



**aquatherm grey pipe TOOL INSERTS**

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

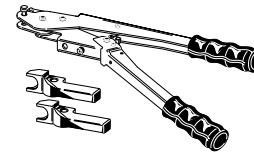
Art.-No.	Dimension	PU	Price € m/St
<b>50875</b>	16 mm	1	
<b>50876</b>	20 mm	1	
<b>50878</b>	25 mm	1	
<b>50880</b>	32 mm	1	
<b>50882</b>	40 mm	1	



**aquatherm grey pipe MOUNTING TOOL**

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

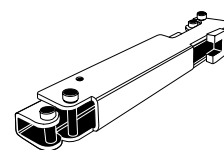
with tools for ø 16 and 20 mm, for the mechanical sliding sleeve connection



**aquatherm grey pipe ANGLE ATTACHMENT**

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

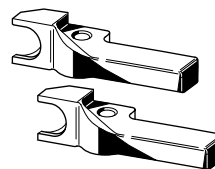
Art.-No.	Dimension	PU	Price € m/pc
<b>50803</b>		1	



## aquatherm grey pipe TOOL INSERT

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

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



## aquatherm grey pipe TOOL CASE

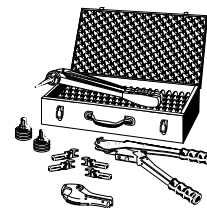
Art.-No.	Dimension	PU	Price € m/pc
50804	for ø 16-20 mm	1	

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 aquatherm grey pipe multi-layer metal composite pipe (Art.-No. 50857, 50860, 50862) have to be ordered separately.



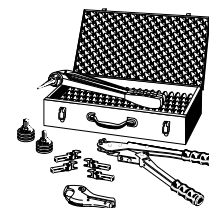
## aquatherm grey pipe TOOL CASE

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)



## ATTENTION

Caused by a product change of the aquatherm grey pipe multilayer-metal composite pipe, sliding sleeves with different dimensions must necessarily be used in the processing. The base body of the fittings remains the same. For a precise marking the new article-numbers start with a 7 before the five-figure product number.

For example:

**777070** aquatherm grey pipe multilayer-metal composite pipe 16 mm (formerly art.-no. 77070)

**779000** aquatherm grey pipe back plate elbow 16 x 1/2" (formerly art.-no. 79000)

On processing the previous aquatherm grey pipe multilayer-metal composite pipes, art.-no. 77070-77072 and 77050-77058 the previous sliding sleeves (art.-no. 79990-79998) are used.

The same applies for the aquatherm grey pipe potable water connection pipes made of PB with the article-numbers 77000-77040.

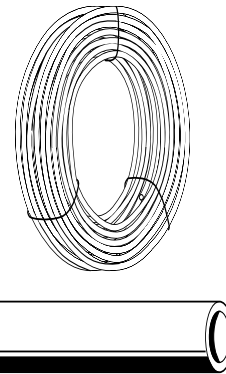
## aquatherm grey pipe MULTI LAYER METAL COMPOSITE PIPE

with oxygen barrier

Art.-No.	Dimension	PU	Price € m/pc
<b>777070</b>	16 mm	100	
<b>777072</b>	20 mm	100	
... in length á 5 m			
<b>777050</b>	16 mm	100	
<b>777052</b>	20 mm	65	
<b>777054</b>	25 x 3,0 mm	45	
<b>777056</b>	32 mm	35	
... in length á 4 m			
<b>777058</b>	40 mm	40	

Material:	PE-X	Application field:	Potable water/heating
Colour:	white	Operating temperature:	70°C
Form supplied:	ring/straight lengths	DVGW-Registr.-No.:	DW-8216 BT0628
		according to:	DIN 4726 with oxygen barrier

Please apply only the suitable expanding tools Art.-No. 50857-50864 for the multi layer metal composite pipe.



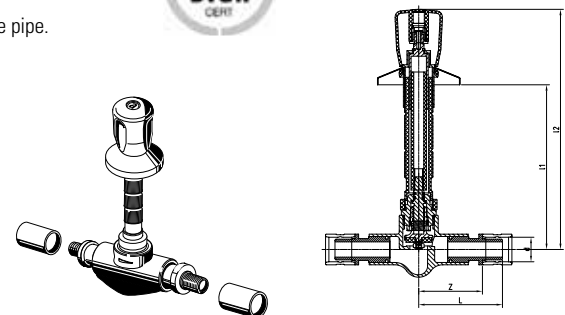
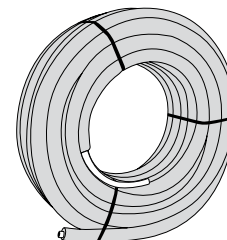
## NEW aquatherm grey pipe MULTI LAYER METAL COMPOSITE PIPE

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

Art.-No.	Dimension	PU	Price € m/pc
<b>777030</b>	16x2mm	50	
<b>777032</b>	20x2mm	50	

Material:	PE-X	Operating temperature:	70°C
Colour:	white	DVGW-Registr.-No.:	DW-8216 BT0628
Form supplied:	ring	according to:	DIN 4726 with oxygen barrier
Application field:	Potable water/ heating	Coefficient of thermal conductivity:	0,040 W/mK
		Thickness of insulation:	10 mm

Please apply only the suitable expanding tools Art.-No. 50857-50864 for the multi layer metal composite pipe.

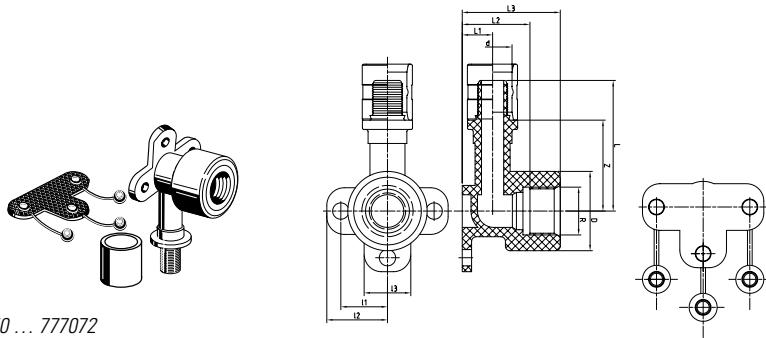


## aquatherm grey pipe CONCEALED STOP VALVE

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

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

suitable for construction depth from 55 mm - 100 mm



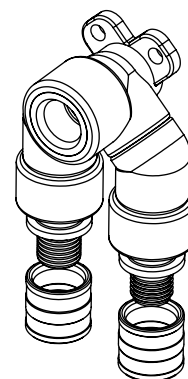
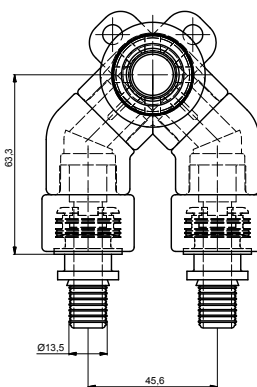
### aquatherm grey pipe **BACK PLATE ELBOW**

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

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	20,00	26,00	20,00	1	
779002	20	G3/4	40,00	42,00	59,00	13,00	29,00	42,00	25,00	31,00	20,00	1	
779004	20	G1/2	34,00	39,00	56,00	13,00	29,00	42,00	20,00	26,00	20,00	1	
779006	25	G3/4	33,00	36,00	54,00	27,00	29,00	48,00	20,00	26,00	20,00	1	

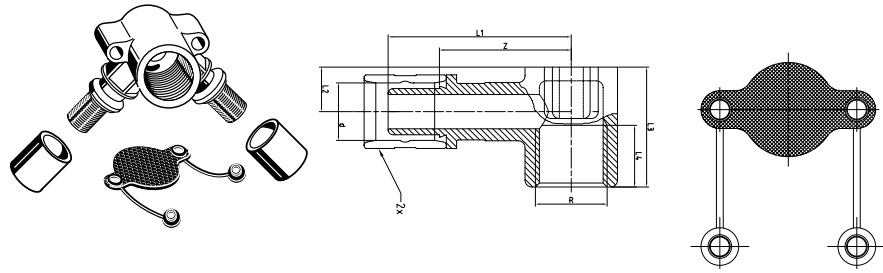
Material: PPSU/brass | including acoustic panel (PP) | proper to sound insulation plate Art.-No. 79080

### **NEW** PRINCIPLE OF FLOW-THROUGH BACK PLATE ELBOW



### **NEW** aquatherm grey pipe **FLOW-THROUGH BACK PLATE PARALLEL**

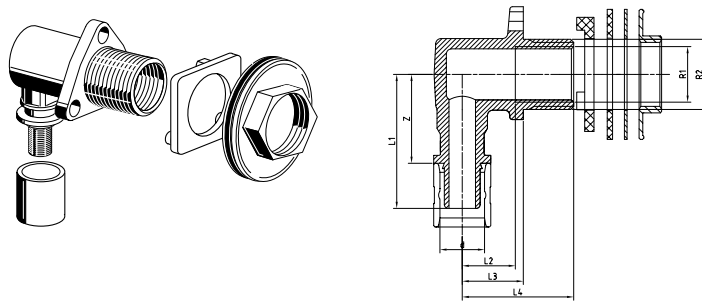
Art.-No.	Dimension	PU	Price € m/pc
79050	16 mm x 1/2" IG x 16 mm		
79052	20 mm x 1/2" IG x 20 mm		



**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
<b>779010</b>	<b>16</b>	38,50	53,50	13,00	35,00	G1/2	18,00	51,00		

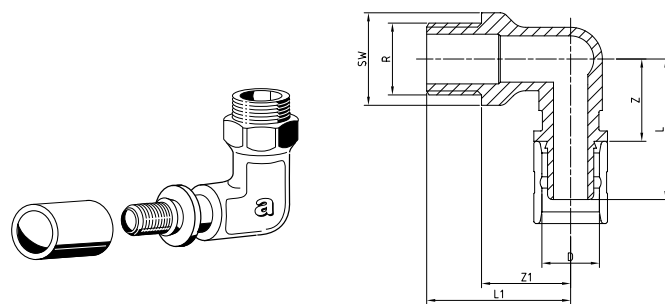
Material: brass  
 including acoustic panel (PP)



**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
<b>779020</b>	<b>16</b>	33,50	50,50	20,00	23,00	G1/2	42,00	51,00	1	

Material: brass  
 including counternut, gasket and spring washer

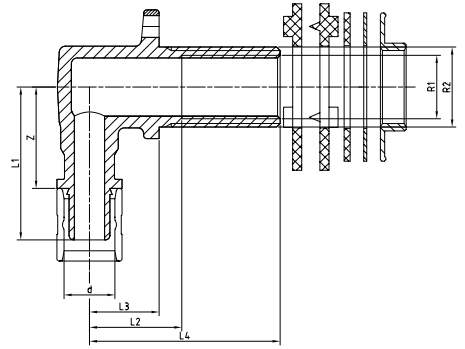
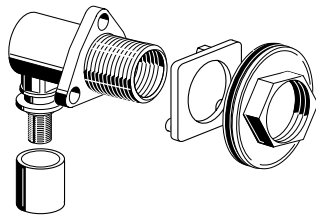


**aquatherm grey pipe TRANSITION ELBOW**  
 including sliding sleeve - for aquatherm grey pipe Art.-No. 777050 ... 777072

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

Material: brass

aquatherm grey pipe

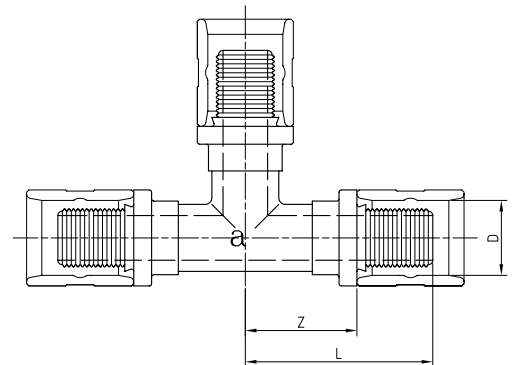
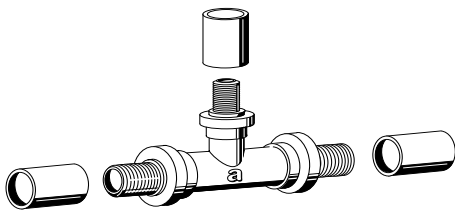


### aquatherm grey pipe **CONNECTING ELBOW**

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 m/St	Price € m/pc
<b>779040</b>	<b>16</b>	<b>G1/2</b>	33,50	50,50	G3/4	30,50	23,00	63,00	2	

Material: brass  
including counternut, gasket and 2 spring washers

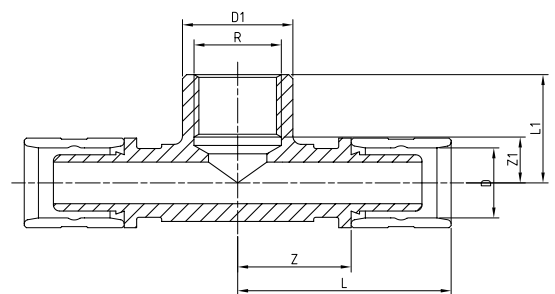
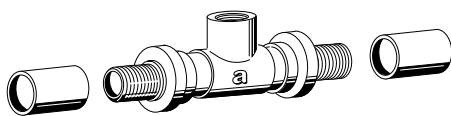


### aquatherm grey pipe **TEE**

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

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

Material: PPSU/brass

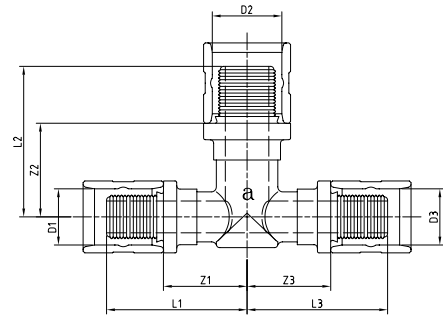
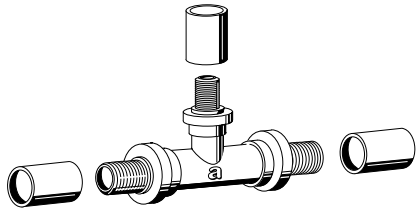


### aquatherm grey pipe **TEE WITH FEMALE THREAD**

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

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

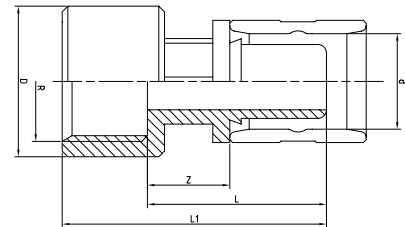
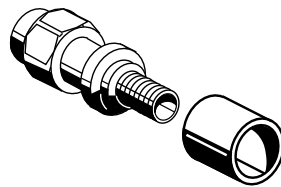
Material: brass



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

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	
<b>NEW</b> 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	

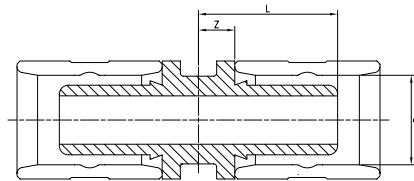
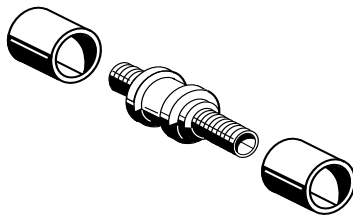
Material: brass

## 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
<b>NEW</b> 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

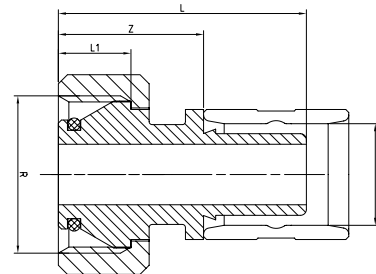
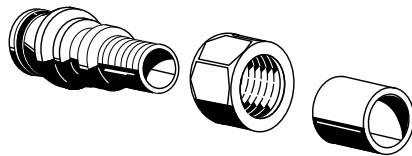


## aquatherm grey pipe COUPLING

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	2	

Material: brass



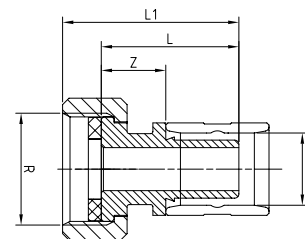
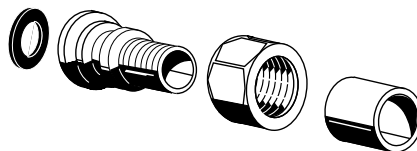
## aquatherm grey pipe EUROCONUS ADAPTER

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



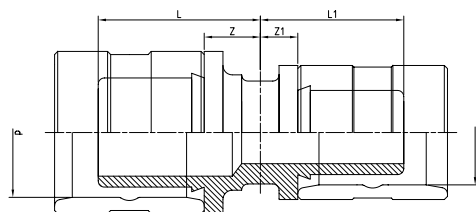
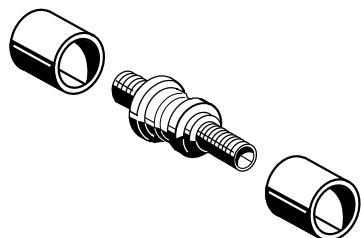
## aquatherm grey pipe TRANSITION SCREW JOINT

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



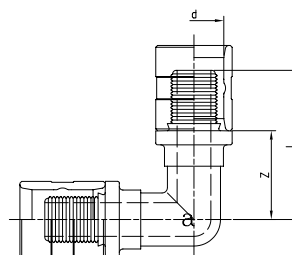
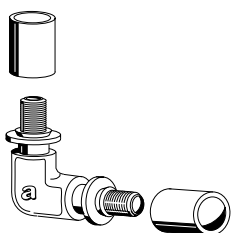


### aquatherm grey pipe REDUCING COUPLING

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					1	

Material: brass

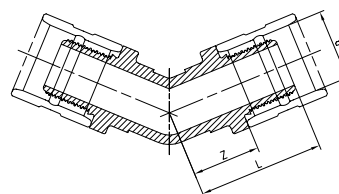
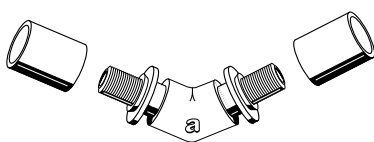


### aquatherm grey pipe ELBOW 90°

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

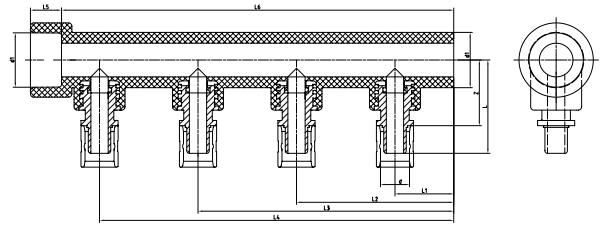
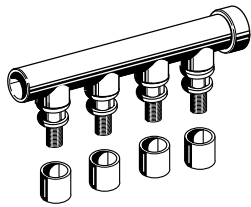


### aquatherm grey pipe ELBOW 45°

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

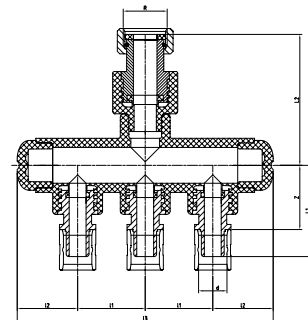
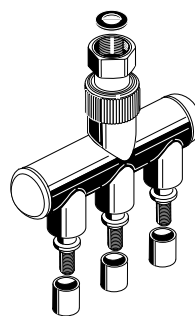


### aquatherm grey pipe **FOUR-PORT MANIFOLD**

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

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

Material: PP-R/brass  
Colour: green

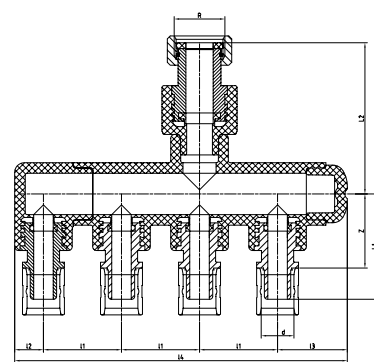
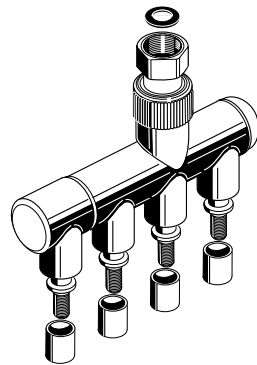


### aquatherm grey pipe **UNIVERSAL MANIFOLD TRIPLE**

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

Art.-No.	d	R	Z	L1	L2	I1	I2	PU	Price € m/pc
<b>778050</b>	<b>16</b>	<b>G3/4</b>	38,00	54,00	77,50	40,00	151,50	1	
<b>778051</b>	<b>16</b>	<b>G1</b>	38,00	55,00	73,50	40,00	169,22	1	

Material: PP-R/brass  
Colour: green

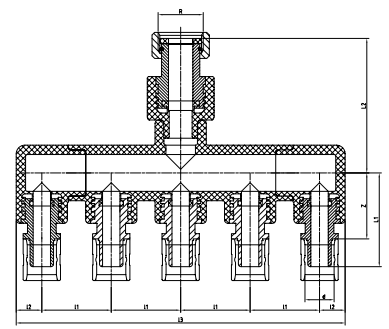
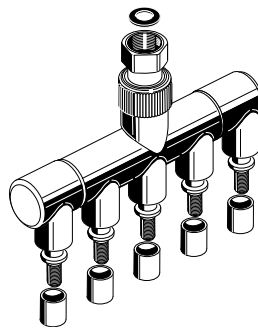


### aquatherm grey pipe **UNIVERSAL MANIFOLD FOURFOLD**

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

Art.-No.	d	R	Z	L1	L2	I1	I2	PU	Price € m/pc
<b>778052</b>	<b>16</b>	<b>G3/4</b>	38,00	54,00	77,50	40,00	170,50	1	
<b>778053</b>	<b>16</b>	<b>G1</b>	38,00	55,00	73,50	40,00	180,50	1	

Material: PP-R/brass  
Colour: green

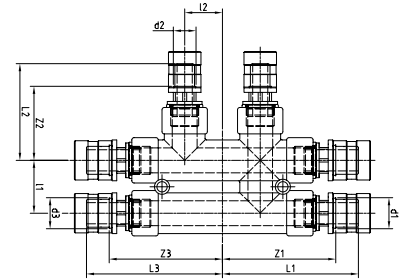
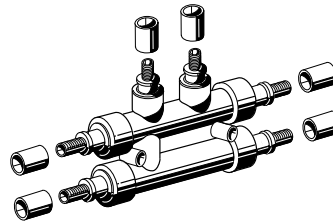


### aquatherm grey pipe UNIVERSAL MANIFOLD FIVEFOLD

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

Art.-No.	d	R	Z	L1	L2	I1	I2	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

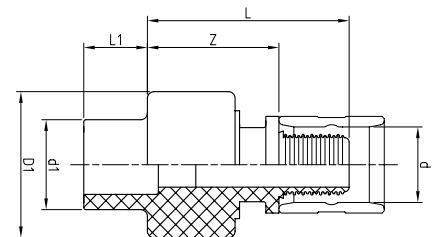
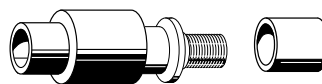
with sliding sleeve connection including sliding sleeves - for aquatherm grey pipe Art.-No. 777050 ... 777072

Art.-No.	d1	d2	d3	Z1	L1	Z2	L2	Z3	L3	I1	I2	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	

applicable as distribution end block,  
including 2 end plugs

Material: PP-R/brass  
Colour: green

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

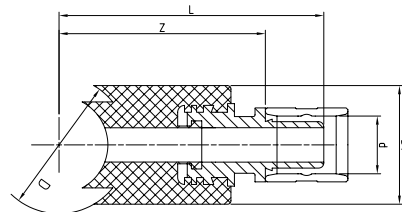
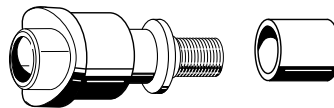


### aquatherm grey pipe ADAPTER

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	32,50	30,00	46,00	14,50	2	
778304	aquatherm green pipe 25 mm x aquatherm grey pipe 20 mm	25	20	34,50	30,00	47,00	11,00	2	
778306	aquatherm green pipe 25 mm x aquatherm grey pipe 25 mm	25	25	34,50	30,00	47,00	12,00	2	
778308	aquatherm green pipe 32 mm x aquatherm grey pipe 25 mm	32	25	43,50	35,00	52,00	14,60	2	
778310	aquatherm green pipe 32 mm x aquatherm grey pipe 32 mm	32	32	43,50	36,00	54,00	16,00	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	40,00	16	60,00	77,00	34,50	2	
778404	aquatherm green pipe 40 mm x aquatherm grey pipe 20 mm	40,00	20	58,00	75,00	38,50	2	
778406	aquatherm green pipe 50 mm x aquatherm grey pipe 16 mm	50,00	16	65,00	82,00	32,50	2	
778408	aquatherm green pipe 50 mm x aquatherm grey pipe 20 mm	50,00	20	64,00	81,00	38,50	2	
778410	aquatherm green pipe 63 mm x aquatherm grey pipe 16 mm	63,00	16	71,50	88,50	34,50	2	
778412	aquatherm green pipe 63 mm x aquatherm grey pipe 20 mm	63,00	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	16mm	10	
779992	20mm	10	
779994	25mm	10	
779996	32mm	10	
779998	40 mm	10	

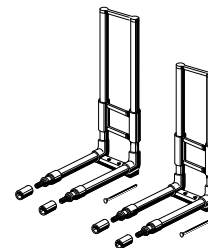


Material: brass

### 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	

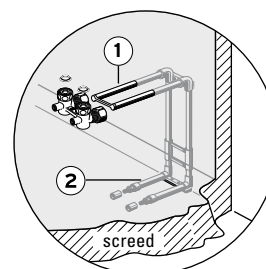


with sliding sleeve connection including sliding sleeves and one fastening plug  
Pipe spacing: 50 mm  
Material: PP-R/brass  
Colour: white

### ... FOR RADIATOR CONNECTIONS COMING OUT OF THE WALL

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

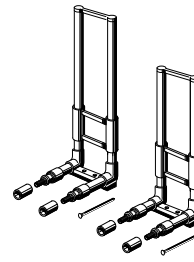
- Art.-No.: 85120
- Art.-No.: 79500



### aquatherm grey pipe **CONNECTING BEND\*...**

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

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

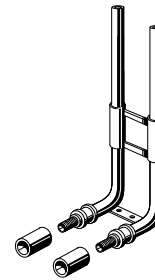


### aquatherm grey pipe **METAL CONNECTING BEND**

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

Art.-No.	Dimension	PU	Price € m/pc
<b>779532</b>	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-T-CONNECTING SET**

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

Art.-No.	Dimension	PU	Price € m/pc
<b>779534</b>	aquatherm grey pipe-pipe connection 16 x 2,0 mm radiator connection 15 x 1,0 mm height = 350 mm	1	
<b>779536</b>	aquatherm grey pipe-pipe connection 20 x 2,0 mm radiator connection 15 x 1,0 mm height = 350 mm	1	

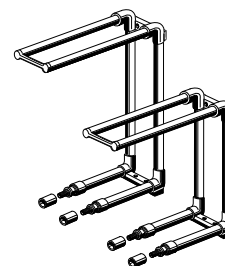
with sliding sleeve connections including sliding sleeves  
Material: copper nickel-plated



### aquatherm grey pipe **RADIATOR CONNECTING SET**

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

## HEATING AND COOLING SYSTEM FOR CEILING, WALL AND OTHER APPLICATIONS

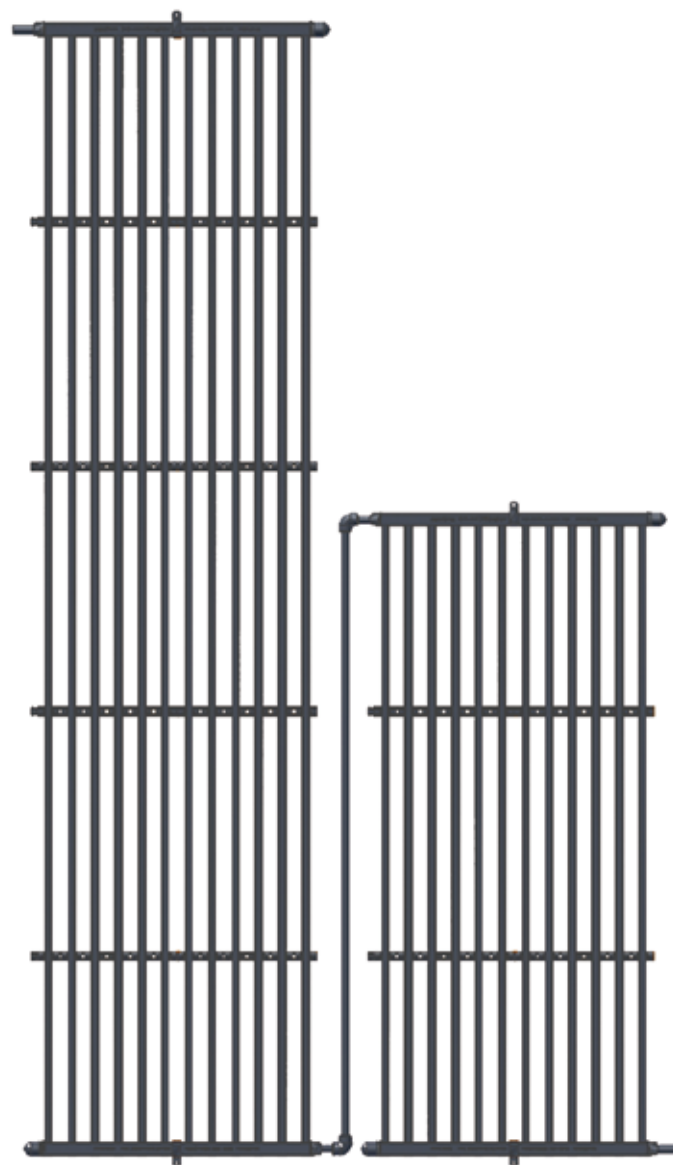
An individual's physical well being directly depends on the basic environmental conditions of the surroundings. Working efficiency varies according to temperature with every cooling degree.

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.

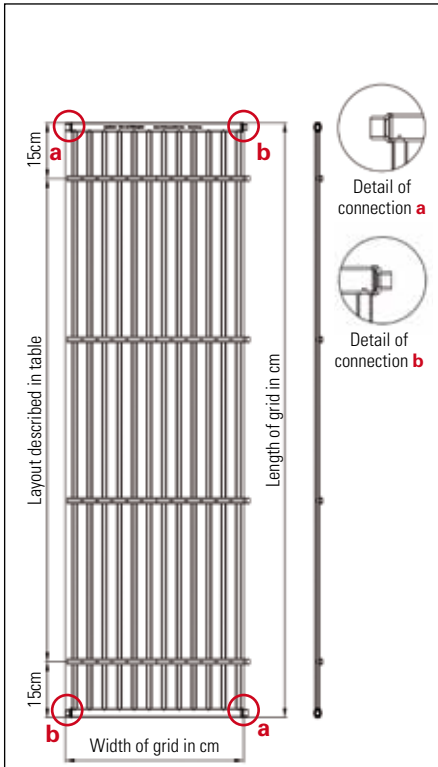
- ▶ For wet and dry construction
- ▶ No draughts
- ▶ Noiseless
- ▶ Dust reduction
- ▶ Simple control technique
- ▶ Thermal properties of the building are enhanced
- ▶ System extendable
- ▶ Quick installation thanks to high degree of prefabrication
- ▶ Even temperature distribution
- ▶ Safe connection 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.



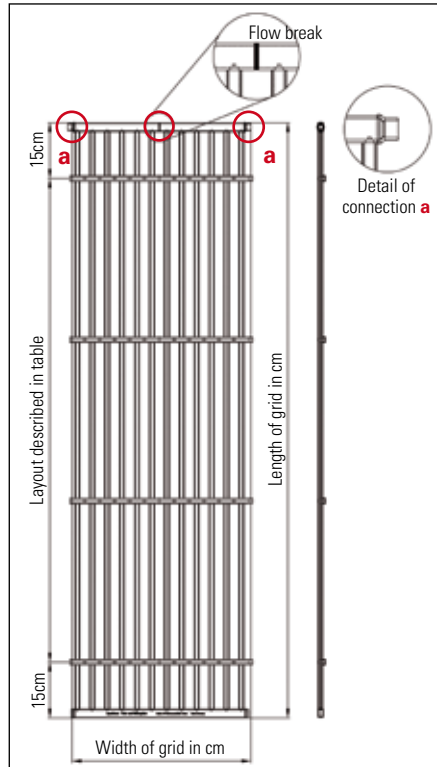
# TYPES OF CONNECTION

## aquatherm black system HEATING AND COOLING GRIDS



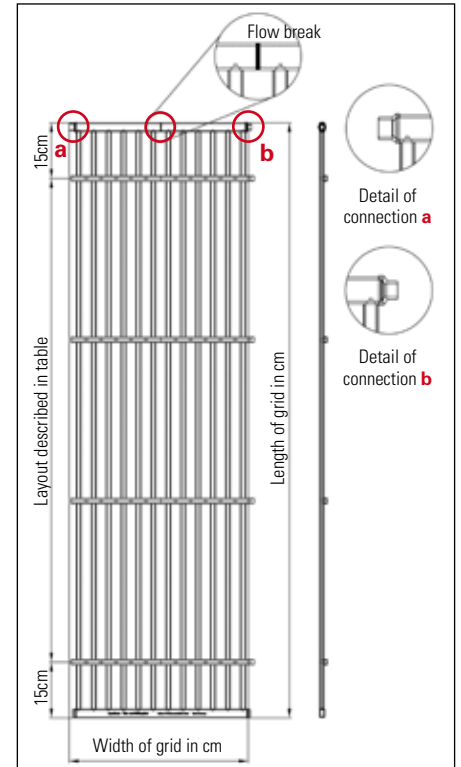
**Connection type 50 = side by side welded connections**

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



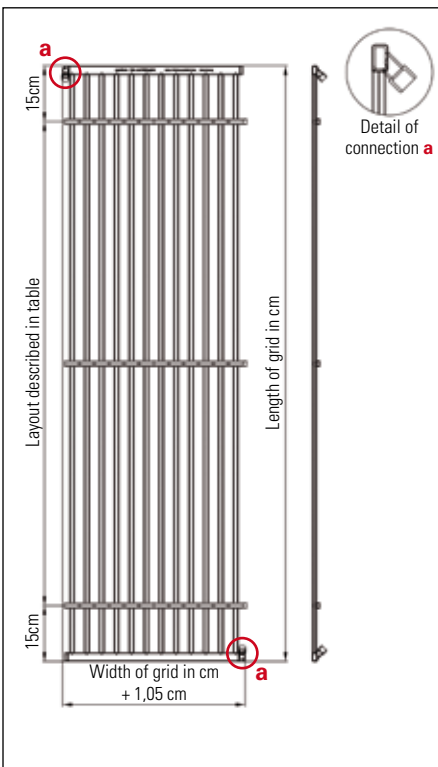
**Connection type 64 = welded connection left, right**

- a** Welding socket 16mm



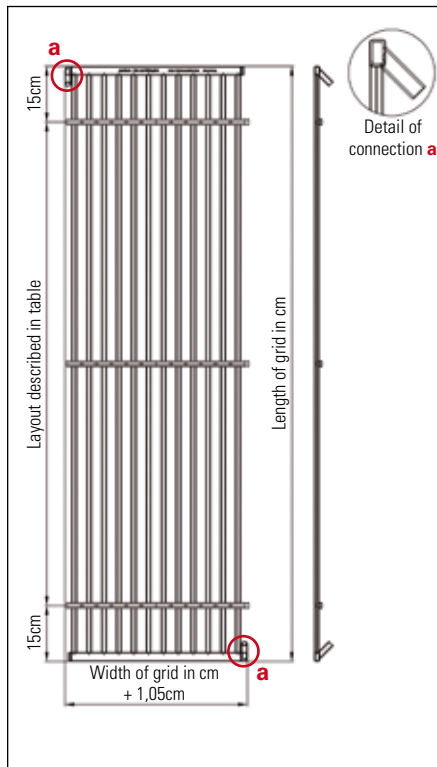
**Connection type 65 = welded connection female, left / welded connection male, right**

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



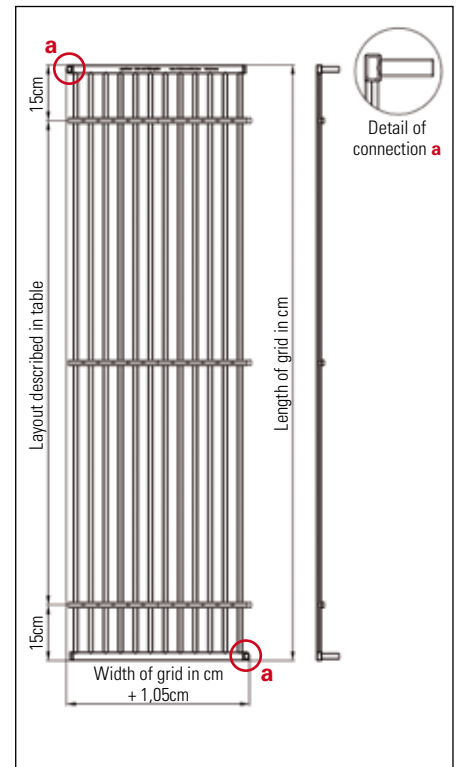
**Connection type 59 = welded connection 45° top left, lower right**

- a** Welding socket 16mm



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

- a** plug socket 16mm

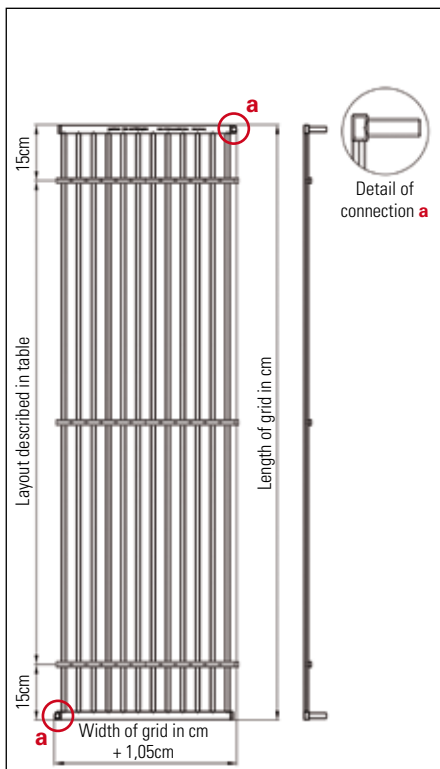


**Connection type 52 = plug connection 90° top left, lower right**

- a** plug socket 16mm

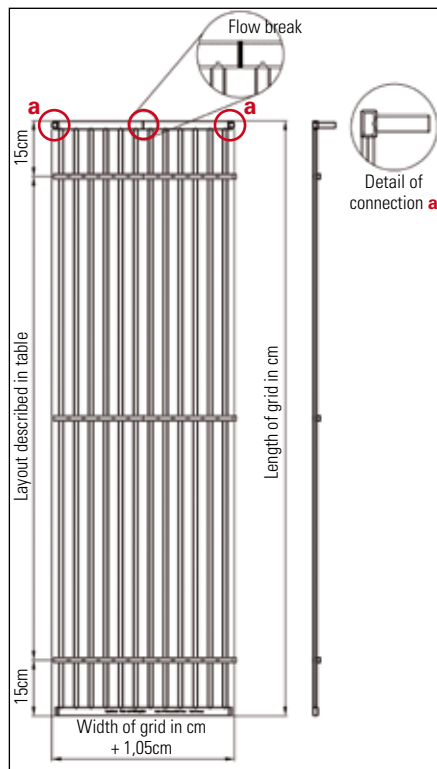
# TYPES OF CONNECTION

## aquatherm black system HEATING AND COOLING GRIDS



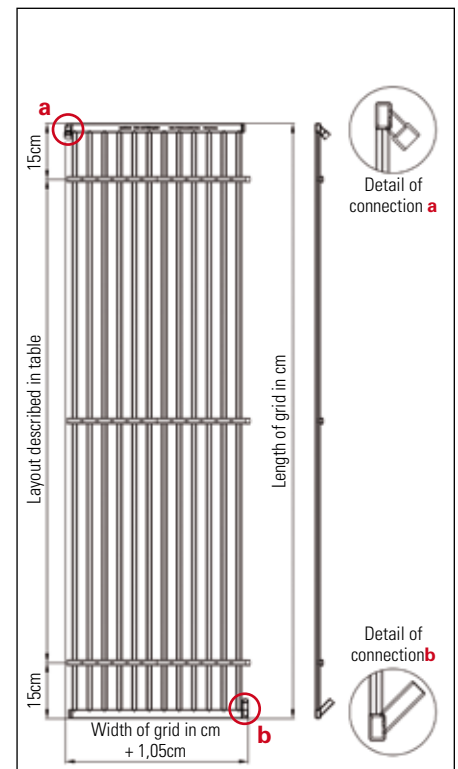
**Connection type 53 = plug connection 90° top right, lower left**

**a plug socket 16mm**



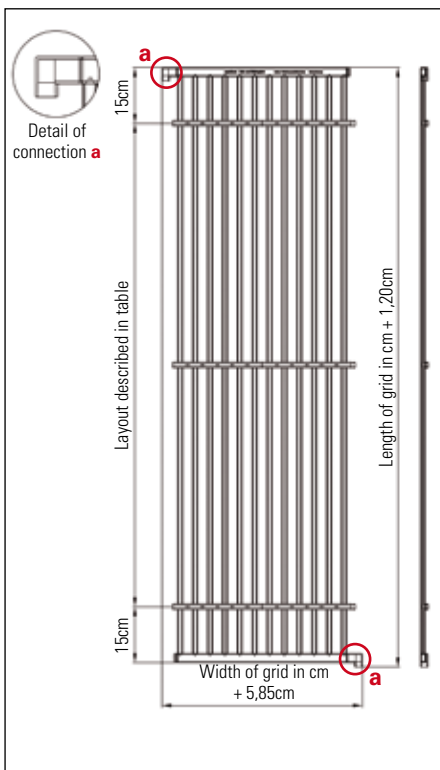
**Connection type 62 = plug connection 90° links, rechts**

**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 56 = welded connection 90° top left, lower right**

**a welding socket 16mm**

### Connection types of the grids

- 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

56 = Weldable connecting elbow TL/LR (please note: Connection type 56 only available as dry wall heating element)

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

Width of grids	Length of grids	
24 cm	40 cm	225 cm
28 cm	50 cm	250 cm
32 cm	60 cm	275 cm
36 cm	70 cm	300 cm
40 cm	80 cm	325 cm
48 cm	90 cm	350 cm
56 cm	100 cm	375 cm
60 cm	120 cm	400 cm
68 cm	140 cm	425 cm
80 cm	160 cm	450 cm
100 cm	180 cm	475 cm
	200 cm	500 cm

Special sizes on request

### Composition of the Article-numbers:

**59 40 120**

- 59** Connection type of the grids
- 40** Width of the grids (number of grid pipes x 4 cm)
- 120** Length of the grids (total length in cm)

**Please consider the differing composition of the article number of the connection type 56:**

**56 62 200**

- 56** Connection type of the grids
- 62** Connection internal piping (62 = PP-R 16 mm, weldable) (63 = SHT-sliding sleeve technique)

The width of the cement board is always 62,5 cm

- 200** Length of gypsum plaster board (050 = Length 50 cm) (100 = Length 100 cm) (200 = Length 200 cm)

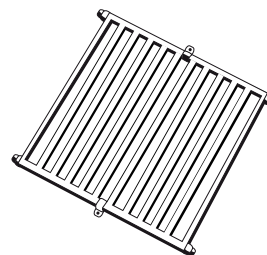
The aquatherm black system-grid with the connection type 56 is mounted on a cement board and is **only** applied for installation in a drywall.



## aquatherm black system HEATING AND COOLING GRIDS

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

	Art.-No.	Wide/m	Length/m	Area/m <sup>2</sup>	PU	Price € m/pc
<b>NEW</b>	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	
<b>NEW</b>	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	



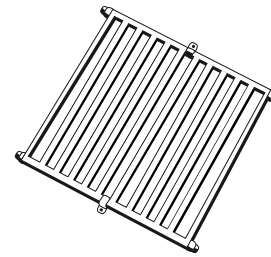
### Attention:

As mentioned on pages 119 & 120 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“ ...).

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)



### Attention:

As mentioned on pages 119 & 120 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“ ...).

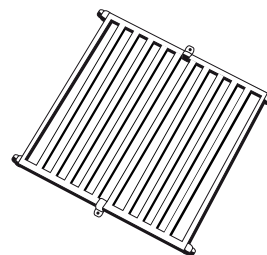
	Art.-No.	Wide/m	Length/m	Area/m <sup>2</sup>	PU	Price € m/pc
<b>NEW</b>	5032040	0,32	0,40	0,13	1	
	5032050	0,32	0,50	0,16	1	
	5032060	0,32	0,60	0,19	1	
	5032070	0,32	0,70	0,22	1	
	5032080	0,32	0,80	0,26	1	
	5032090	0,32	0,90	0,29	1	
	5032100	0,32	1,00	0,32	1	
	5032120	0,32	1,20	0,38	1	
	5032140	0,32	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	
<b>NEW</b>	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	

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)

	Art.-No.	Wide/m	Length/m	Area/m <sup>2</sup>	PU	Price € m/pc
<b>NEW</b>	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	
<b>NEW</b>	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	



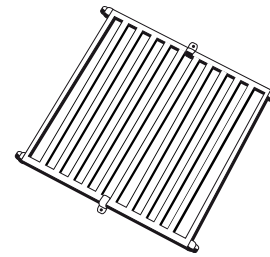
### Attention:

As mentioned on pages 119 & 120 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“ ...).

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)



### Attention:

As mentioned on pages 119 & 120 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“....).

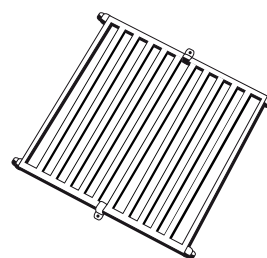
	Art.-No.	Wide/m	Length/m	Area/m <sup>2</sup>	PU	Price € m/pc
<b>NEW</b>	5056040	0,56	0,40	0,22	1	
	5056050	0,56	0,50	0,28	1	
	5056060	0,56	0,60	0,34	1	
	5056070	0,56	0,70	0,39	1	
	5056080	0,56	0,80	0,45	1	
	5056090	0,56	0,90	0,50	1	
	5056100	0,56	1,00	0,56	1	
	5056120	0,56	1,20	0,67	1	
	5056140	0,56	1,40	0,78	1	
	5056160	0,56	1,60	0,90	1	
	5056180	0,56	1,80	1,01	1	
	5056200	0,56	2,00	1,12	1	
	5056225	0,56	2,25	1,26	1	
	5056250	0,56	2,50	1,40	1	
	5056275	0,56	2,75	1,54	1	
	5056300	0,56	3,00	1,68	1	
	5056325	0,56	3,25	1,82	1	
	5056350	0,56	3,50	1,96	1	
	5056375	0,56	3,75	2,10	1	
	5056400	0,56	4,00	2,24	1	
	5056425	0,56	4,25	2,38	1	
	5056450	0,56	4,50	2,52	1	
	5056475	0,56	4,75	2,66	1	
	5056500	0,56	5,00	2,80	1	
<b>NEW</b>	5060040	0,60	0,40	0,24	1	
	5060050	0,60	0,50	0,30	1	
	5060060	0,60	0,60	0,36	1	
	5060070	0,60	0,70	0,42	1	
	5060080	0,60	0,80	0,48	1	
	5060090	0,60	0,90	0,54	1	
	5060100	0,60	1,00	0,60	1	
	5060120	0,60	1,20	0,72	1	
	5060140	0,60	1,40	0,84	1	
	5060160	0,60	1,60	0,96	1	
	5060180	0,60	1,80	1,08	1	
	5060200	0,60	2,00	1,20	1	
	5060225	0,60	2,25	1,35	1	
	5060250	0,60	2,50	1,50	1	
	5060275	0,60	2,75	1,65	1	
	5060300	0,60	3,00	1,80	1	
	5060325	0,60	3,25	1,95	1	
	5060350	0,60	3,50	2,10	1	
	5060375	0,60	3,75	2,25	1	
	5060400	0,60	4,00	2,40	1	
	5060425	0,60	4,25	2,55	1	
	5060450	0,60	4,50	2,70	1	
	5060475	0,60	4,75	2,85	1	
	5060500	0,60	5,00	3,00	1	

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)

	Art.-No.	Wide/m	Length/m	Area/m <sup>2</sup>	PU	Price € m/pc
<b>NEW</b>	5068040	0,68	0,40	0,27	1	
	5068050	0,68	0,50	0,34	1	
	5068060	0,68	0,60	0,41	1	
	5068070	0,68	0,70	0,48	1	
	5068080	0,68	0,80	0,54	1	
	5068090	0,68	0,90	0,61	1	
	5068100	0,68	1,00	0,68	1	
	5068120	0,68	1,20	0,82	1	
	5068140	0,68	1,40	0,95	1	
	5068160	0,68	1,60	1,09	1	
	5068180	0,68	1,80	1,22	1	
	5068200	0,68	2,00	1,36	1	
	5068225	0,68	2,25	1,53	1	
	5068250	0,68	2,50	1,70	1	
	5068275	0,68	2,75	1,87	1	
	5068300	0,68	3,00	2,04	1	
	5068325	0,68	3,25	2,21	1	
	5068350	0,68	3,50	2,38	1	
	5068375	0,68	3,75	2,55	1	
	5068400	0,68	4,00	2,72	1	
	5068425	0,68	4,25	2,89	1	
	5068450	0,68	4,50	3,06	1	
	5068475	0,68	4,75	3,23	1	
	5068500	0,68	5,00	3,40	1	
<b>NEW</b>	5080040	0,80	0,40	0,32	1	
	5080050	0,80	0,50	0,40	1	
	5080060	0,80	0,60	0,48	1	
	5080070	0,80	0,70	0,56	1	
	5080080	0,80	0,80	0,64	1	
	5080090	0,80	0,90	0,72	1	
	5080100	0,80	1,00	0,80	1	
	5080120	0,80	1,20	0,96	1	
	5080140	0,80	1,40	1,12	1	
	5080160	0,80	1,60	1,28	1	
	5080180	0,80	1,80	1,44	1	
	5080200	0,80	2,00	1,60	1	
	5080225	0,80	2,25	1,80	1	
	5080250	0,80	2,50	2,00	1	
	5080275	0,80	2,75	2,20	1	
	5080300	0,80	3,00	2,40	1	
	5080325	0,80	3,25	2,60	1	
	5080350	0,80	3,50	2,80	1	
	5080375	0,80	3,75	3,00	1	
	5080400	0,80	4,00	3,20	1	
	5080425	0,80	4,25	3,40	1	
	5080450	0,80	4,50	3,60	1	
	5080475	0,80	4,75	3,80	1	
	5080500	0,80	5,00	4,00	1	



### Attention:

As mentioned on pages 119 & 120 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“ ...).

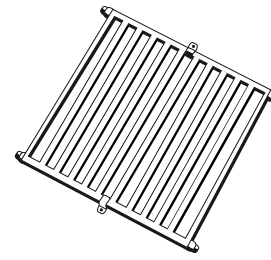
Special size on request!

## aquatherm black system HEATING AND COOLING GRIDS

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

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

Special size on request!



### Attention:

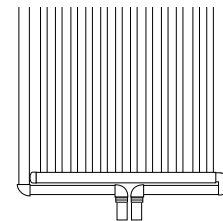
As mentioned on pages 119 & 120 all grids are available in the mentioned connection types at same prices. Simply replace the first two figures of the article number („50“...) with those of the required type of connection (i. e. „64“...).

## aquatherm black system DRY WALL HEATING ELEMENT

oxygen-tight, with pipe nozzle for welding connection

Art.-No.	Dimension	Dimension of the grids	PU	Price € m/pc
<b>5662050</b>	62,5 x 50 cm	48 cm x 45 cm	2	
<b>5662100</b>	62,5 x 100 cm	48 cm x 87 cm	2	
<b>5662200</b>	62,5 x 200 cm	48 cm x 187 cm	2	

Connection: PP-R 16 mm, weldable



## aquatherm black system CORRUGATED CONNECTING PIPE

oxygen-tight, weldable, for Art.-No. 5662050-5662200

Art.-No.	Dimension	PU	Price € m/pc
<b>81044</b>	59,5 cm	1	

with twosided 90° elbow

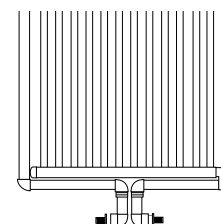


## aquatherm black system DRY WALL HEATING ELEMENT

oxygen tight, with aquatherm grey pipe connection

Art.-No.	Dimension	Dimension of the grids	PU	Price € m/pc
<b>5663050</b>	62,5 x 50 cm	48 cm x 45 cm	1	
<b>5663100</b>	62,5 x 100 cm	48 cm x 87 cm	1	
<b>5663200</b>	62,5 x 200 cm	48 cm x 187 cm	1	

Connection: aquatherm grey pipe- sliding sleeve technology

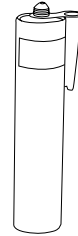


### aquatherm black system JOINT ADHESIVE

for aquatherm black system - dry wall heating element

Art.-No.	Dimension	PU	Price € m/pc
<b>81003</b>	for 310 mm cartridge	1	

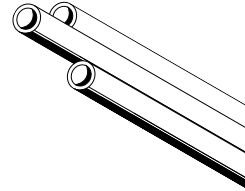
The Fermacell-joint adhesive and further Fermacell products (drywall screws etc.) may be purchased directly at wholesale.



### aquatherm black system PP-GRID CONNECTION PIPE

with oxygen barrier, in 2.5 m lengths

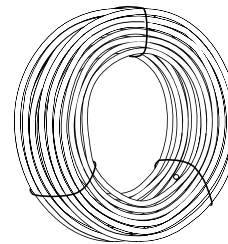
Art.-No.	Dimension	PU	Price € m/pc
<b>81006</b>	16 mm	50	
<b>81008</b>	20 mm	50	



### aquatherm black system PP-GRID CONNECTION PIPE

with oxygen barrier, in ring

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



### aquatherm black system CORRUGATED CONNECTING PIPE

with oxygen barrier, in ring

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

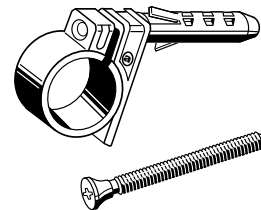
Connectable by welding with Art. 81288, 81289, 81290, 81291 separable every 25 cm



### PLASTIC PIPE CLAMPS

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

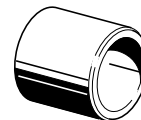
Colour: antrazit



### aquatherm black system SOCKET

for heating and cooling grids

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



### aquatherm black system ELBOW 90°

for heating and cooling grids

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



### aquatherm black system END CAP

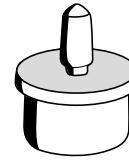
for heating and cooling grids

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



**aquatherm black system PP-R MALE END PLUG***for heating and cooling grids - type of connection: 50*

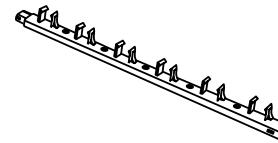
Art.-No.	Dimension	PU	Price € m/pc
<b>81092</b>	16 mm	50	

**aquatherm black system ELBOW 90°***male/female*

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

**aquatherm black system FIXING RAIL***for heating and cooling grids*

Art.-No.	Dimension	PU	Price € m/pc
<b>81506</b>	Length = 24 cm	10	

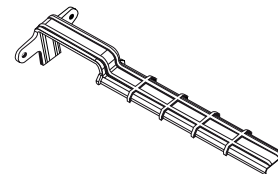
**aquatherm black system WALL BRACKET***for heating and cooling grids*

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

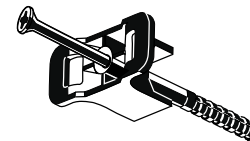
**aquatherm black system FIXING RAIL FOR DRY WALL***for heating and cooling grids*

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

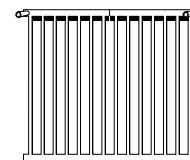
Please note, when ordering the fixing rail for drywall art.-no. 81297, that for each rail two cable ties with the art.-no. 99086 have to be ordered.

**aquatherm black system FIXING CLAMP WITH WALL PLUG***for wall and ceiling installation*

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

**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
<b>6256060</b>	for ceiling panels 62,5 x 62,5 weldable	1	
<b>6256056</b>	for ceiling panels 60,0 x 60,0 weldable	1	
<b>6252056</b>	for ceiling panels 60,0 x 60,0 push-fit connection	1	
<b>6256120</b>	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	

with safety pin



## 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	160 x 70 mm	1	



## NEU 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	

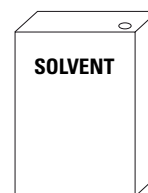
For the adhesion in metal ceiling panels the aquatherm black system adhesive is used dilutedly with the aquatherm black system solvent (Art.-No. 81194/81195) in the ratio of up to maximum 5:1. The adhesive is dosed sparingly and applied on the grids by a role. Then the grid is directly placed into the metal panel and pressed on. The approximate value for the consumption is about 35g/m<sup>2</sup>.



## NEU 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/m<sup>2</sup>.

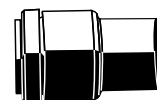


## aquatherm black system CONNECTOR

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

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

with safety pin

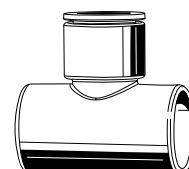


## aquatherm black system T-ADAPTER

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

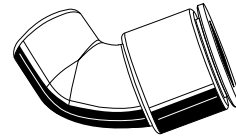


### aquatherm black system 90° ELBOW-ADAPTER

onesided plugable / onesided PP-R 16 mm weldable

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

with safety pin

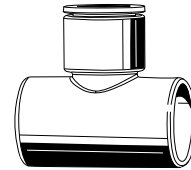


### aquatherm black system 45° ELBOW-ADAPTER

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		



### **NEW** aquatherm black system GRID CONNECTION SETS

or all types of connection - for details and figures of the connections see page 119 and 120

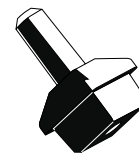
Art.-No.	for con- nection type	consisting of	PU	Price € m/pc
81099	51	2x end cap, 2x 45° plug connection	10	
81100	50	2x welding socket, 2x welding nozzle	10	
81102	52	2x end cap, 2x 90° plug connection	10	
81103	53	2x end cap, 2x 90° plug connection	10	
81106	56	2x end cap, 2x 90° connecting elbow	10	
81108	58	2x end cap, 1x 45° plug connection, 1x 45° welding socket	10	
81109	59	2x end cap, 2x 45° welding socket	10	
81112	62	2x end cap, 2x 90° plug connection	10	
81114	64	2x end cap, 2x welding socket	10	
81115	65	2x end cap, 1x welding socket, 1x welding nozzle	10	

### 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



### **NEW** aquatherm black system WELDING TOOL

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

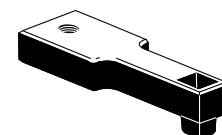
for grid connection sets 81099, 81100, 81102, 81103, 81106, 81108, 81109, 81112, 81114, 81115



### aquatherm black system WELDING TOOL

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

for sealing plug Art.-No. 81091





# 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*



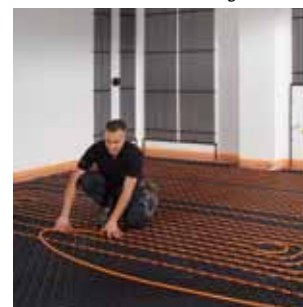
*Open space heating*



*Industrial floor heating*



*Chilled area, ice stadium*



*Underfloor heating living area*



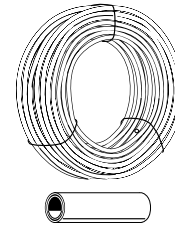
*Undersoil pitch heating*

## 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	10 x 1,25 mm	250	
90024	14 x 2,0 mm	250	
90034	14 x 2,0 mm	500	
90026	16 x 2,0 mm	250	
90036	16 x 2,0 mm	500	
90027	17 x 2,0 mm	250	
90037	17 x 2,0 mm	500	
90028	20 x 2,0 mm	250	
90038	20 x 2,0 mm	500	
90030	25 x 2,3 mm	250	

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

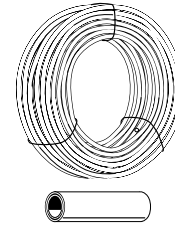


## aquatherm orange system SURFACE HEATING AND RADIATOR CONNECTING PIPE (PB)

with oxygen barrier according to DIN

Art.-No.	Dimension	PU	Price € m/pc
90306	16 x 2,0 mm	250	
90307	17 x 2,0 mm	250	
90316	16 x 2,0 mm	500	
90317	17 x 2,0 mm	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

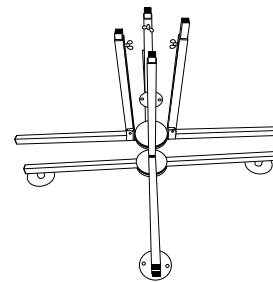
Art.-No.	Dimension	PU	Price € m/pc
50823	17 mm	1	



## aquatherm orange system PIPE HASP

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

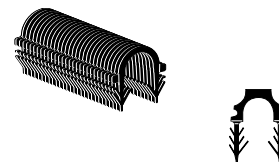
for winding the heating pipe



## aquatherm orange system PIPE CLAMP

Art.-No.	for pipe dimensions	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	

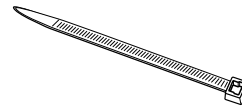
Note: Applicable with Art.- No 90504  
for fixing of heating pipe with pipe clips on the aquatherm orange system-system elements



### aquatherm orange system CABLE TIE

for industrial surface heating

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

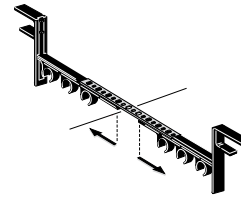


### aquatherm orange system PIPE GUIDING RAIL

for surface flexible sports floor, adjustable in length and height

Art.-No.	for pipe dimensions	PU	Price € m/pc
<b>90510</b>	Ø 20 mm	150	

Material: Polyamid



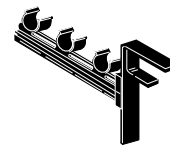
### aquatherm orange system END RAIL

for surface flexible sports floor, adjustable in height

Art.-No.	for pipe dimensions	PU	Price € m/pc
<b>90511</b>	Ø 20 mm	20	

available only as a part of the complete system

Material: Polyamid

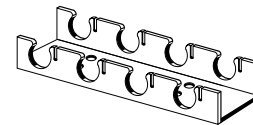


### aquatherm orange system PROFILE RAIL

for wall heating, surface heating and industrial heating

Art.-No.	for pipe dimensions	PU	Price € m/pc
<b>90512</b>	Ø 10 mm - adhesive	2	
<b>90515</b>	Ø 14 mm - adhesive	2	
<b>90517</b>	Ø 16 mm - adhesive	2	
<b>90518</b>	Ø 20 mm	2	
<b>90520</b>	Ø 25 mm	2	

Material: Polyamid

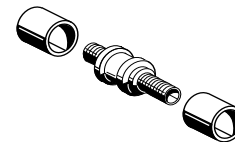


### aquatherm orange system COUPLING

for PE-RT and PB pipes, including sliding sleeve

Art.-No.	Dimension	PU	Price € m/pc
<b>95500</b>	10 mm	1	
<b>79209</b>	14 mm	2	
<b>79210</b>	16 mm	2	
<b>95537</b>	17 mm	1	
<b>79212</b>	20 mm	2	
<b>79214</b>	25 mm	2	

Material: brass

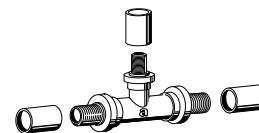


### aquatherm orange system REDUCER TEE

including sliding sleeve

Art.-No.	Dimension	PU	Price € m/pc
<b>95502</b>	16 x 10 x 10 mm	1	
<b>95504</b>	16 x 10 x 16 mm	1	

Material: PPSU

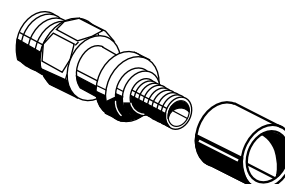


### aquatherm orange system TRANSITION PIECE, MALE

including sliding sleeve

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

Material: brass

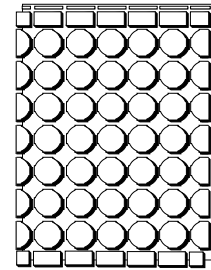


## aquatherm orange system SYSTEM ELEMENT 25

for surface heating

Art.-No.	Dimension	PU	Price € m/pc
<b>91039</b>	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/m<sup>2</sup> with pipe spacing of 125 mm  
 – Pipe requirement = 4 m/m<sup>2</sup> with pipe spacing of 250 mm  
 Rλ.B Dä = 0,714 m<sup>2</sup> K/W

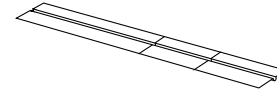


## aquatherm orange system HEAT CONDUCTING STEEL SHEET

for installation into system element 25

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

Requirement: 10 Pcs/m<sup>2</sup> pipe spacing 125 mm / 5 Pcs/m<sup>2</sup> pipe spacing 250 mm

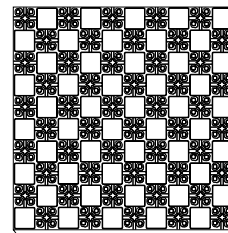


## aquatherm orange system SYSTEM ELEMENT KNOB PLATE F ND 11

with deep-drawing foil

Art.-No.	Dimension	PU	Price € m/pc
<b>91112</b>	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 / Rλ.B Dä = 0,31 m<sup>2</sup> K/W / Insulation thickness: = 11 mm / Total thickness including knobs = 30 mm

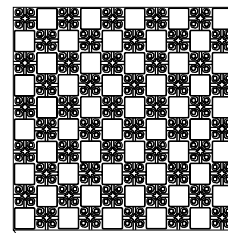


## aquatherm orange system SYSTEM ELEMENT KNOB PLATE F ND 30-2

with deep-drawing foil

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

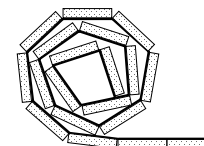
Just for ø14 and ø16 mm pipe. Knob spacing: 50 mm for installation without pipe clips / sound insulation  
 Rλ.B Dä = 0,75 m<sup>2</sup> K/W / Insulation thickness: = 30 mm / Total thickness including knobs = 49 mm



## aquatherm orange system INSULATION ROLL

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

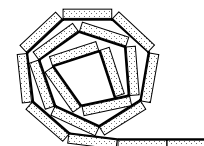
Material: EPS 040 DES sg, with:  
 - cloth-lined covering layer, protected against corrosion  
 - imprinted screen for placing  
 - impact sound insulation Rλ.B Dä = 0,75 m<sup>2</sup> K/W / Working load: 5 kPa / Improved impact sound insulation: 30 dB



## aquatherm orange system INSULATION ROLL

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

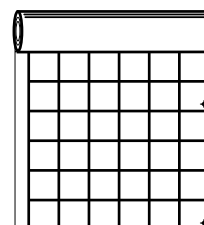
Material: EPS-045-DES sm - DIN 13163, with:  
 - cloth-lined covering layer, protected against corrosion  
 - imprinted screen for placing  
 - impact sound insulation Rλ.B Dä = 0,75 m<sup>2</sup> K/W  
 Working load: 4 kPa / Improved impact sound insulation: 29 dB



## aquatherm orange system FOIL WITH IMPRINTED GRID

Art.-No.	Dimension	PU	Price € m/pc
<b>91210</b>	W = 1030 m <sup>2</sup>	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) made of polystyrene EPS/DEO/DES

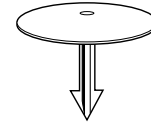


### aquatherm orange system PLASTIC NAIL

for fixing of the grid foil

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

Material: polyamide  
Requirement: 2 Pcs/m<sup>2</sup>

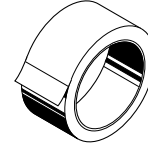


### aquatherm orange system ADHESIVE TAPE

for sealing of joint gaps in system elements

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

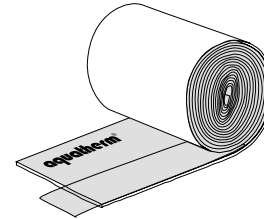
Requirement 1m/m<sup>2</sup>



### aquatherm orange system EDGE INSULATION

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

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

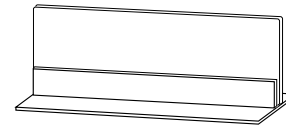


### aquatherm orange system EXPANSION JOINT SECTION

double-sided overlay

Art.-No.	Dimension	PU	Price € m/pc
<b>91107</b>	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



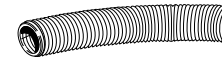
**Note:** Please use the aquatherm orange system corrugated pipe (Art.-No. 91111) to protect the connecting pipe in the area of screed moving joint.

### 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
<b>91111</b>	for heating pipes $\varnothing$ 14 - 17 mm	10	

Material: PE

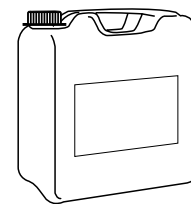


### aquatherm orange system SPECIAL FLOOR MIX

for thin-layer cement screeds

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

for increasing the screed density

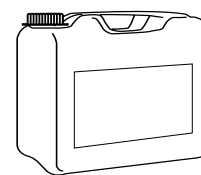


### aquatherm orange system SPECIAL FLOOR MIX

for thin-layer cement screeds

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

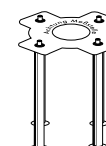
Screed-pipe covering: 30 mm



### aquatherm orange system SCREED MEASURING POINT

for marking the measuring points in the screed

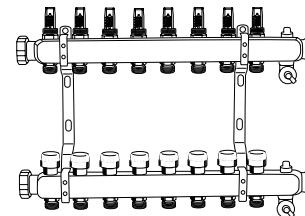
Art.-No.	Dimension	PU	Price € m/pc
<b>91109</b>	H = 100 mm	1	



## 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:

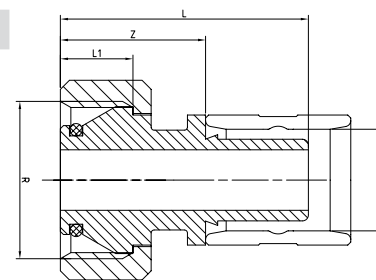
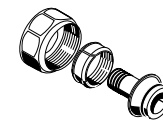
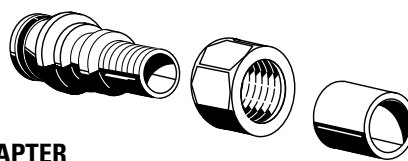
- flow- and return manifold are arranged separately
- flow indicator with shut-off in the flow
- control and shut-off valve with protection cap in return
- feed and drain valves
- air valves
- bracket set with bow and sound protection
- sealing plug

## aquatherm orange system EUROCONUS CONNECTOR

for heating circuit manifold, valves/couplings

Art.-No.	for pipe dimensions	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	ø 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
79220	16	G3/4	24,00	41,00	12,00	2	
79222	20	G3/4	30,00	47,00	15,00	2	

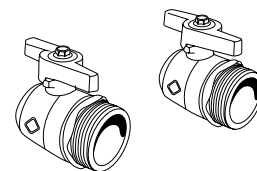
Material: brass

for customary manifolds/joints

## aquatherm orange system BALL VALVE SET

Straight design, for manifold Art.-No. 92302-92312

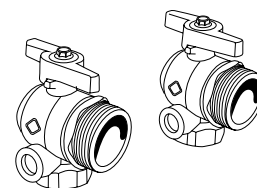
Art.-No.	Dimension	PU	Price € m/pc
92320	1" straight	1	



## aquatherm orange system BALL VALVE SET

Corner design, for manifold Art.-No. 92302-92312

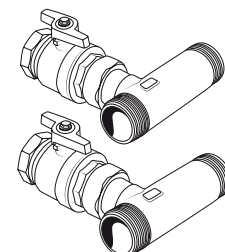
Art.-No.	Dimension	PU	Price € m/pc
92321	1" corner	1	



## NEW 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	

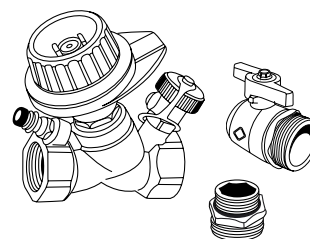




### aquatherm orange system LINE CONTROL VALVE SET FOR MANIFOLD

Art.-No.	Dimension	PU	Price € m/pc
92329	1"	1	

For restriction of flow rate respectively for hydraulic balancing of manifolds

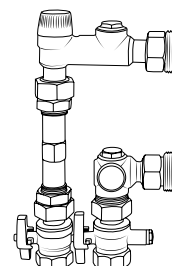


### aquatherm orange system UNIVERSAL-FLOW METER

add-on kit with elbow

Art.-No.	Dimension	PU	Price € m/pc
92323	1"	1	

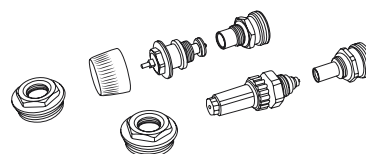
for mounting to aquatherm orange system -manifold



### aquatherm orange system HEATING CIRCUIT MANIFOLD EXTENSION SET

for Art.-No. 92302-92312

Art.-No.	Dimension	PU	Price € m/pc
92069		1	



### NEW aquatherm orange system LARGE-AREA HEATING CIRCUIT MANIFOLD

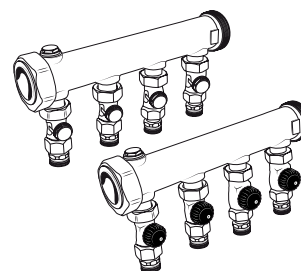
in modular construction

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:

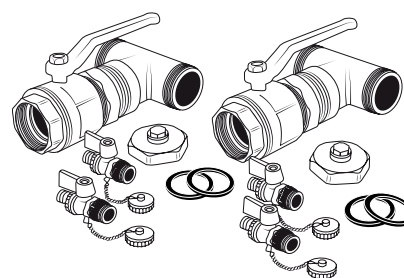
- control valve in flow
- thermostate valve in return
- Euroconus connection 3/4"
- flat sealing male screw with coupling ring 2"



### NEW aquatherm orange system MID CONNECTION SET FOR LARGE-AREA HEATING CIRCUIT MANIFOLD

with ball valve, for extension of Art.-No. 99062-99064

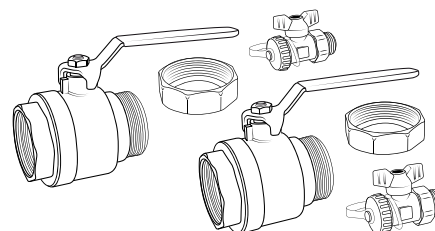
Art.-No.	Dimension	PU	Price € m/pc
99027	ball valve 2"	1	



### NEW 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"

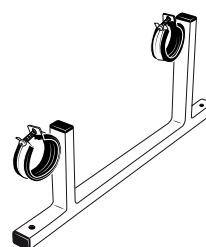
Art.-No.	Dimension	PU	Price € m/pc
99099	1 1/2"	1	

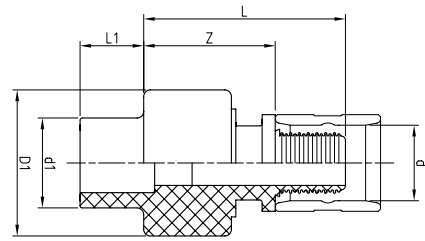
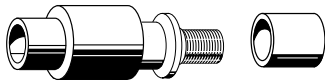


### NEW aquatherm orange system CONSOLE FOR LARGE AREA HEATING CIRCUIT MANIFOLD

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



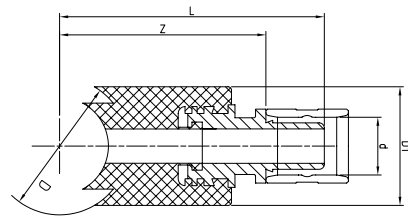
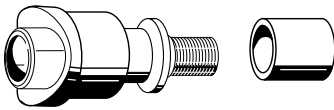


### aquatherm orange system ADAPTER

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	15	20					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	40,00	16	60,00	77,00	34,50	2	
78404	aquatherm green pipe 40 mm x aquatherm orange system 20 mm	40,00	20	58,00	75,00	38,50	2	
78406	aquatherm green pipe 50 mm x aquatherm orange system 16 mm	50,00	16	65,00	82,00	32,50	2	
78408	aquatherm green pipe 50 mm x aquatherm orange system 20 mm	50,00	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 PE-RT and PB pipes

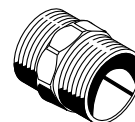
Art.-No.	Dimension	PU	Price € m/pc
79986	10 mm	10	
79988	14 mm	10	
79990	16mm	10	
79991	17mm	10	
79992	20mm	10	
79994	25mm	10	



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

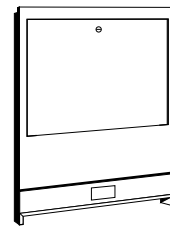
Art.-No.	Dimension	PU	Price € m/pc
95212	1/2" f - adapter for 1/2" m euroconus	5	
95214	1/2" m - adapter for 1/2" f euroconus	5	



Suitable euroconus connector Art.-No.: 92100-92108

## aquatherm orange system UNIVERSAL MANIFOLD CABINET

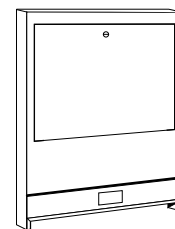
Art.-No.	Dimension	PU	Price € m/pc
93102	UP1, size 1 for 2 - 3 circuits, height = 700 - 850 mm, width = 400 mm, depth = 110 - 150 mm	1	
93104	UP2, size 2 for 4 - 6 circuits, height = 700 - 850 mm, width = 550 mm, depth = 110 - 150 mm	1	
93106	UP3, size 3 for 7 - 10 circuits, height = 700 - 850 mm, width = 750 mm, depth = 110 - 150 mm	1	
93108	UP4, size 4 for 11 - 12 circuits, height = 700 - 850 mm, width = 950 mm, depth = 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	
<b>NEW</b> 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	
<b>NEW</b> 93124	AP5, size 5 for max. 20 circuits in connection with mid connection, height = 730 mm, width = 1400 mm, depth = 150 mm	1	



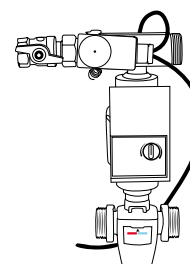
- for surface installation
- universal mounting, vertically and horizontally infinitely variable
  - made of hot galvanized sheet steel
  - with laquered design acc. to RAL 9010
  - with detachable screed impact and pipe reversing plate

## aquatherm orange system FIXED COMMAND CONTROL

Art.-No.	Dimension	PU	Price € m/pc
92162	1"	1	

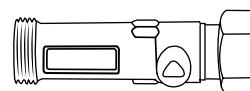
The adjustment and/or extension of an existing radiator system with underfloor heating can be performed safely, efficiently and well-priced with the aquatherm orange system fixed command control.

- 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

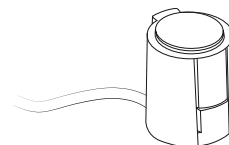
Art.-No.	Dimension	PU	Price € m/pc
92163	2-12 l/min.	1	



### aquatherm orange system ACTUATOR

for heating circuit manifolds and heating circuit control valves - flow

Art.-No.	Dimension	PU	Price € m/pc
94102	230 Volt	1	
94103	24 Volt	1	



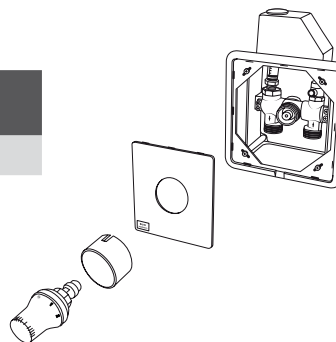
### NEW aquatherm orange system RETURN TEMPERATURE LIMITER

with Th-valve

Art.-Nr.	Abmessung	LE	Preis € m/St
94162		1	

Single room control for adjustment of

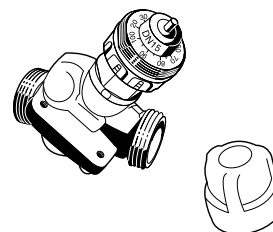
- return temperature
- room temperature
- with concealed case
- with cap
- with flow indicator
- with air valve



### aquatherm orange system 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	



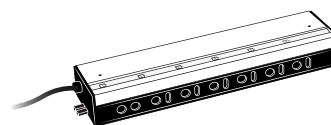
## CONNECTION SYSTEMS, THERMOSTATS 230 VOLT (HEATING)

### NEW aquatherm orange system CONNECTION SYSTEM B 2022 N

230 Volt

Art.-No.	Dimension	PU	Price € m/pc
94140		1	

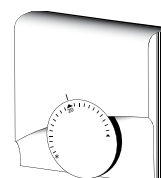
- up to 6 room thermostats connectable
- max. 12 actuators
- with pump control



### 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
94107		1	

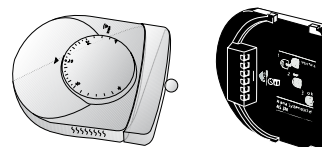


### aquatherm orange system

### PROGRAMMABLE ROOM THERMOSTAT, ANALOGUE

230 volt digital timer with day and week program, white

Art.-No.	Dimension	PU	Price € m/pc
94108		1	



## CONNECTION SYSTEMS, THERMOSTATS 230 VOLT - RADIO CONTROLLED (HEATING)

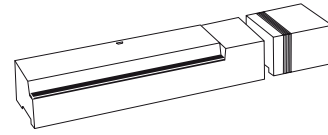
### NEW aquatherm orange system

#### AUTOMATIC CONTROL, WIRELESS BSF 20102-04

230 Volt

Art.-No.	Dimension	PU	Price € m/pc
94146		1	

up to 4 radio controls (wireless) connectable  
6 actuators (230 volt)  
operating voltage: 230 volt



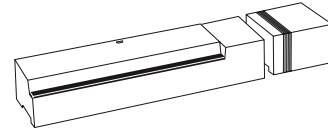
### NEW aquatherm orange system

#### AUTOMATIC CONTROL, WIRELESS BSF 20102-08

230 Volt

Art.-No.	Dimension	PU	Price € m/pc
94147		1	

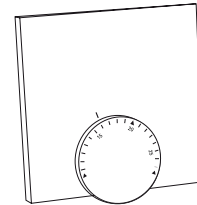
up to 8 radio controls (wireless) connectable  
12 actuators (230 volt)  
operating voltage: 230 volt



### NEW aquatherm orange system ROOM THERMOSTAT WIRELESS R 4070

Art.-No.	Dimension	PU	Price € m/pc
94151		1	

Room thermostats with wireless radio transmission (battery)  
temperature range: 4 - 28 °C

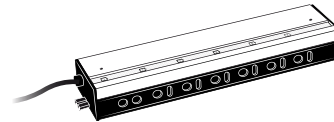


## CONNECTION SYSTEMS, THERMOSTATS 24 VOLT (HEATING / HEATING AND COOLING)

### NEW aquatherm orange system CONNECTION SYSTEM B HK 4022 N

Art.-No.	Dimension	PU	Price € m/pc
94152		1	

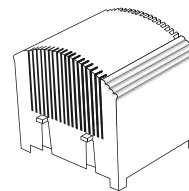
Connection options:  
6 room temperature controls  
12 actuators (24 volt)  
with integrated pump module  
external switching via co-signal



### NEW aquatherm orange system SYSTEM TRANSFORMATOR

Art.-No.	Dimension	PU	Price € m/pc
94145		1	

operating voltage: 230 V / 24 V  
fits to connection system art.-no. 94152



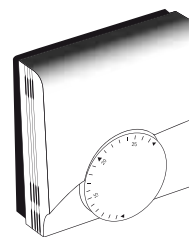
### NEW aquatherm orange system

#### ROOM THERMOSTAT FOR HEATING AND COOLING RHK 40122 N

24 Volt

Art.-No.	Dimension	PU	Price € m/pc
94154		1	

Room thermostat for heating and cooling in one system  
Temperature range: 10 - 28 °C  
Operating voltage: 24V, 50/60 Hz  
Including mounting base and electrical connection for room thermostats  
- suitable for wall installation and mounting on switch box

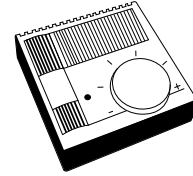


**aquatherm orange system ROOM THERMOSTAT FOR HEATING AND COOLING**

24 volt

Art.-No.	Dimension	PU	Price € m/pc
<b>94034</b>		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

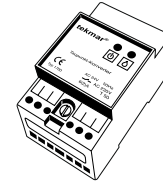


**aquatherm orange system DEWPOINT CONVERTER**

24 volt

Art.-No.	Dimension	PU	Price € m/pc
<b>94035</b>		1	

Dewpoint converter for switching off the cooling unit or for closing the mixer / valve via potential-free relay contact

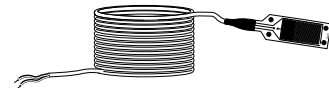


**aquatherm orange system DEWPOINT SENSOR**

24 volt

Art.-No.	Dimension	PU	Price € m/pc
<b>94036</b>		1	

Humidistat with flexible foil  
 Length of supply = 10 m  
 (LIYY 2 x 0.15 mm)

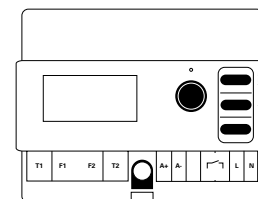


**AUTOMATIC CONTROL FOR KEEPING AREAS SNOW-AND ICE-FREE**

**aquatherm orange system DIGITAL ICE- AND SNOW DETECTOR**

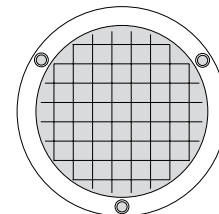
for activating open space heating systems if required

Art.-No.	Dimension	PU	Price € m/pc
<b>99258</b>		1	



**aquatherm orange system OPEN SPACE SENSOR**

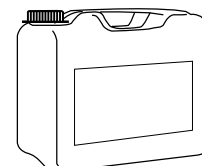
Art.-No.	Dimension	PU	Price € m/pc
<b>99259</b>	diameter 68 mm	1	



**aquatherm orange system ANTIFREEZER FOR OPEN-SPACE HEATING**

Art.-No.	Dimension	PU	Price € m/pc
<b>99743</b>		25	

environmental friendly antifreezer concentrate basing on ethyleneglycol for open space heatings and surface collectors.  
 Water pollution class: WGK 1



<b>aquatherm green pipe, aquatherm blue pipe, aquatherm lilac pipe</b>	Pipe systems	<b>PAGE 7-66</b>
<b>aquatherm ti</b>	Pre-insulated pipe systems for district heating	<b>PAGE 73-86</b>
<b>aquatherm grey pipe</b>	Portable water and heating installations	<b>PAGE 87-117</b>
<b>aquatherm black system</b>	Heating and cooling system	<b>PAGE 118-130</b>
<b>aquatherm orange system</b>	Heating systems	<b>PAGE 131-142</b>

<b>aquatherm green pipe</b>	
<b>aquatherm blue pipe</b>	
<b>aquatherm lilac pipe</b>	
aquatherm green pipe SDR 9 MF	7
aquatherm green pipe SDR 7.4 MF	8
aquatherm green pipe SDR 9 MF UV	9
aquatherm green pipe SDR 7.4 MF UV	10
aquatherm green pipe SDR 7.4 MS	10
aquatherm green pipe SDR 6/7.4 S	11
aquatherm green pipe SDR 11 S	12
aquatherm blue pipe SDR 7.4 / 11 MF / 17.6 MF	13
aquatherm blue pipe SDR 7.4 / 11 MF / 17.6 MF UV	14
aquatherm blue pipe SDR 7.4 / 11 MF OT	15
aquatherm blue pipe SDR 11 S	15
aquatherm lilac pipe SDR 11	16
adhesive tape	17
assembling jig	43
attachment plate for universal peeling tools	62
back plate elbow	40
back plate elbow for dry construction	42
ball valve	from 57
ball valve for manifold	53 / 96
butt welding machines	60
chamfering device	66
cleaning wipes	61
concealed valves	54
counterparts	51
coupling screw joints	38 / 39
cross over fittings	32

crosses	32
cutting disc	59
distribution block plumbing	52
draining branch	58
drills	66
dry construction wall fitting	42
elbows 45°	from 23
elbows 90°	from 21
electrofusion device	60
electrofusion sockets	40
end caps	33
extension for concealed valves	54
extension for ball valve	57
flange adapters	37
flanges	38
flow through back plate elbows	39
globe valves	54
inclined valve	56
loose nut adapters	50
manifold	52
manifold end piece	53 / 98
mounting plate	41
mounting rail	41 / 89
mounting unit	from 43
non-return valve	56
nut adapter	50
orbital circular saw	59
peeling tools	63
pipe clamps	17
pipe cutters	59
pipe fastening bow	17
pipe repair stick	61
pipe support	18
plastic pipe clamps	18
plug for pressure tests	43
red.- T-pieces	from 26
reducing sockets	from 18
repair set	61
saddle peeling tools	66

saddle welding tools	64
sockets	18
sound isolation cover	40
sound isolation plate	41 / 89
stop valve body	56
supporting strap	53 / 98
surface thermometer	61
T-pieces	24
temperature pencil	61
temperature predictive glove	61
threaded branch tees	48
transition couplings	49
transition elbows	43 / 44 / from 47
transition pieces	42 / 45
universal peeling tools + extension	62
water meter nut adapter	50
weld-in saddles	from 34
welding devices	59 / 60
welding jig + base	60
welding machines	60
welding tools	61



## aquatherm ti

branch	77
closing collar	86
compact seals	86
cross-over branch	73
elbow 45°	76
elbow 90°	76
faser composite pipes	from 75
insulation tape	86
insulation-reducing socket-set	85
insulation-socket-set	84
primer	86
red. cross-over branch	from 73
red.-branch	from 69
reducing socket	84
socket	83
warning tape	61

## aquatherm grey pipe

adapter	100 / 115
angle attachment	105
back plate elbow	89 / 90 from 107
ball valve	53 / 96
bending template	104
bending tool	104
blind plug	97
compression fitting	96
concealed stop valve	89 / 107
connecting bends	101 / 103 from 116
connecting elbow	91 from 109
corrugated pipe	88
coupling	94 / 133 / 112
distribution block + insulation	99 / 103 115
double rosette	102
elbow 45°	96 / 113
elbow 90°	95 / 113
end cap	33 / 97
end piece	99
end sleeve	88
euroconus adapter	94 / 112
expanding tool	104
flow-through back plate elbow	108 / 110
insulation cover	89
manifold end piece	53 / 98
manifolds	97 / 114
mounting rail	41 / 89
mounting tools	105 / 105
multi layer metal composite pipe	107
multi layer metal composite pipe with insulation	88
pipe cutter	104

potable water and radiator connection pipe	8
protection sleeve	102
radiator connecting sets	101 / 102 117
radiator valve	96
red-nipple	102
reducing coupling	95 / 113
reducing tee	93 / 111
snap in radius support	102
sound insulation plate	41 / 89
spare sliding sleeve	100 / 138 116
supporting strap	53 / 98
tee	92 / 110
tool case	106
tool inserts	105 / 106
transition elbow	91 / 109
transition piece	from 93 from 111
transition screw joint	95 / 112
universal manifold	98 / 114
weld-in saddle adapter	100 / 116

<b>aquatherm black system</b>	
45° elbow-adapter	130
90° elbow-adapter	130
adhesive	129
connection pipes	127
connector	129
corrugated connecting pipe	126 127 129
double socket	130
dry wall heating elements	126
elbow-adapter	130
elbow 90°	127
end cap	127
end plug	128
fixing clamp	128
fixing rails	128
grid connection set	130
heating and cooling grids	from 121
heating and cooling grids for ceiling panels	128
joint adhesive	127
pipe clamps	127
sealing plug	130
socket	127
solvent	129
T-adapter	129
thermography film	129
wall bracket	128
welding tool	130

<b>aquatherm orange system</b>	
AB-QM combination valve	140
actuator	140
adapter	137
adhesive tape	135
aluminium foil	135
antifreezer	142
automatic control	141
ball valve set	136
cable tie	133
connecting pipe (PB)	132
connecting pipe (PE-RT)	132
connection systems	141
coupling	133
coupling adapter	138
dewpoint converter	142
dewpoint sensor	142
edge insulation	135
end rail	133
Euroconus connector	136
expansion joint section	135
fixed command control	140
flow indicator for fixed value setting	140
heat conducting steel sheet	134
heating circuit manifold	136
heating circuit manifold extension set	138
heating circuit manifold mid connection set	136
ice- and snow detector	142
insulation roll	134
knob plates	134
large-area heating circuit manifold	137
large-area heating circuit manifold accessoires kit	137
large-area heating circuit manifold console	137

large-area heating circuit manifold mid connection set	137
line control valve set	138
open space sensor	142
pipe clamp	132
pipe guiding rail	133
pipe hasp	132
plastic nail	135
profile rail	133
protection pipe	135
reducer tee	133
return temperature limiter	140
room thermostat	from 141
screed measuring point	136
screw connection adapter	139
spare sliding sleeve	138
special floor mix	136
system elements	134
system transformer	141
tacker	132
transition piece	133
universal manifold cabinet	139
universal-flow meter	138
weld-in saddle adapter	100

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
10006	11	11022	18	11203	20	12522	23	13542	26
10008	11	11024	18	11204	20	12524	23	13544	26
10010	11	11026	18	11206	20	12526	23	13546	26
10012	11	11109	19	11207	20	12530	23	13547	26
10014	11	11110	19	11208	20	12531	24	13548	26
10016	11	11112	19	11222	18	12534	24	13550	26
10018	11	11114	19	11228	18	12535	24	13551	26
10020	11	11116	19	11230	18	12538	24	13552	26
10022	11	11118	19	11236	18	12539	24	13554	26
10024	11	11120	19	11238	18	12543	24	13556	26
10106	11	11122	19	11240	18	12545	24	13558	26
10108	11	11124	19	11242	18	12547	24	13560	26
10110	11	11126	19	11252	18	12549	24	13561	26
10186	18	11128	19	11253	18	12708	23	13562	26
10208	12	11130	19	11257	18	12710	23	13564	26
10210	12	11131	19	11259	18	12712	23	13566	26
10212	12	11132	19	11263	18	12714	23	13568	26
10214	12	11134	19	11265	18	13106	24	13570	26
10216	12	11136	19	12106	21	13108	24	13576	26
10218	12	11138	19	12108	21	13110	24	13578	26
10220	12	11139	19	12110	21	13112	24	13580	26
10222	12	11140	19	12112	21	13114	24	13582	26
10224	12	11142	19	12114	21	13116	24	13584	26
10226	12	11143	19	12116	21	13118	24	13586	26
10230	12	11144	19	12118	21	13120	24	13588	26
10234	12	11145	19	12120	21	13122	24	13590	26
10238	12	11151	19	12122	21	13124	24	13592	26
10242	12	11152	19	12124	21	13126	24	13594	26
10244	12	11153	19	12126	21	13130	25	13596	26
10246	12	11155	19	12130	22	13131	25	13600	27
10248	12	11157	19	12131	22	13134	25	13601	27
10308	12	11159	19	12134	22	13135	25	13602	27
10310	12	11161	19	12135	22	13138	25	13603	27
10312	12	11163	19	12138	22	13139	25	13608	27
10806	11	11165	19	12139	22	13143	25	13609	27
10808	11	11174	20	12143	22	13145	25	13610	27
10810	11	11175	20	12145	22	13147	25	13611	27
10812	11	11176	20	12147	22	13149	25	13612	27
10814	11	11177	20	12149	22	13506	26	13613	27
10816	11	11182	20	12306	23	13508	26	13614	27
10818	11	11183	20	12308	23	13510	26	13615	27
10871	17	11184	20	12310	23	13511	26	13618	28
10906	11	11185	20	12312	23	13512	26	13619	28
10908	11	11188	20	12314	23	13514	26	13624	27
11006	18	11189	20	12506	23	13516	26	13625	27
11008	18	11190	20	12508	23	13520	26	13626	27
11010	18	11191	20	12510	23	13522	26	13627	27
11012	18	11193	20	12512	23	13528	26	13628	27
11014	18	11195	20	12514	23	13532	26	13629	27
11016	18	11197	20	12516	23	13534	26	13630	27
11018	18	11199	20	12518	23	13538	26	13631	27
11020	18	11201	20	12520	23	13540	26	13634	28

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
13635	28	15160	34	15263	35	15750	38	21012	45
13640	28	15162	34	15264	35	15752	38	21013	45
13641	28	15164	34	15265	35	15754	38	21106	45
13651	27	15166	34	15268	35	15812	38	21108	45
13653	28	15168	34	15269	35	15814	38	21110	45
13655	28	15170	34	15270	35	15816	38	21111	45
13657	28	15172	34	15271	35	15818	38	21112	45
13663	27	15174	34	15275	35	15820	38	21113	45
13665	28	15175	34	15277	35	15838	39	21114	45
13667	28	15176	34	15278	35	15840	39	21115	45
13669	28	15178	34	15288	35	15842	39	21116	45
13671	28	15180	34	15290	35	15844	39	21117	45
13676	27	15181	34	15300	35	15846	39	21118	45
13678	28	15182	34	15303	35	15848	39	21119	45
13680	28	15184	34	15315	35	15850	39	21120	45
13682	28	15186	34	15316	35	16106	32	21122	45
13684	28	15188	34	15318	35	16108	32	21206	46
13685	28	15189	34	15331	35	16110	32	21208	46
13690	27	15190	34	15512	37	16112	32	21210	46
13692	28	15192	34	15514	37	17208	40	21211	46
13694	28	15194	34	15516	37	17210	40	21212	46
13696	28	15196	34	15518	37	17212	40	21213	46
13698	28	15197	34	15520	37	17214	40	21258	45
13699	28	15198	34	15522	37	17216	40	21261	45
13700	28	15206	34	15524	37	17218	40	21262	45
13708	32	15208	34	15526	37	17220	40	21306	46
13710	32	15210	34	15527	37	17222	40	21308	46
13712	32	15212	34	15530	37	17224	40	21310	46
13714	32	15214	34	15531	37	17226	40	21312	46
14106	33	15216	34	15534	37	17230	40	21314	46
14108	33	15218	34	15535	37	17234	40	21316	46
14110	33	15220	34	15538	37	17238	40	21317	46
14112	33 / 97	15228	34	15539	37	20106	40	21318	46
14114	33	15229	34	15543	37	20108	40	21319	46
14116	33	15230	34	15545	37	20110	40	21320	46
14118	33	15231	34	15547	37	20112	40	21321	46
14120	33	15232	34	15549	37	20113	40	21322	46
14122	33	15233	34	15712	38	20114	42	21323	46
14124	33	15234	34	15714	38	20120	40	21324	46
14126	33	15235	34	15716	38	20156	42	21325	46
14130	33	15236	34	15718	38	20158	42	21327	46
14131	33	15237	34	15720	38	20197	39	21355	47
14134	33	15251	34	15722	38	20198	39	21356	47
14135	33	15252	34	15724	38	20204	42	21358	47
14138	33	15253	34	15726	38	20206	43	23006	47
14139	33	15254	34	15730	38	20208	43	23008	47
14143	33	15255	34	15734	38	20209	43	23010	47
14145	33	15256	34	15738	38	20210	44	23012	47
14147	33	15257	34	15742	38	21006	45	23014	47
14149	33	15260	35	15744	38	21008	45	23016	47
15156	34	15261	35	15746	38	21010	45	23018	47
15158	34	15262	35	15748	38	21011	45	23208	48

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
23504	48	27020	50	28264	36	41212	56	50206	61
23506	48	27021	50	28266	36	41214	56	50208	61
23508	48	27022	50	28270	36	41308	57	50210	61
23510	48	27310	51	28274	36	41310	57	50212	61
23512	48	27311	51	28314	36	41312	57	50214	61
23514	48	27312	51	28316	36	41314	57	50216	61
25004	48	27313	51	28318	36	41316	57	50218	61
25006	48	27314	51	28320	36	41318	57	50220	61
25008	48	27315	51	28322	36	41378	57	50222	61
25010	48	27316	51	28324	36	41382	57	50224	61
25012	48	27317	51	28326	36	41386	57	50226	61
25013	48	27318	51	28330	36	41400	58	50283	130
25014	48	27319	51	28334	36	41408	58	50285	130
25016	48	27320	51	28336	36	41410	58	50307	61
25018	48	27321	51	28338	36	41412	58	50311	61
25019	48	27322	51	28340	36	41414	58	50330	60
25020	48	27510	51	28342	36	41416	58	50336	59
25022	48	27512	51	28344	36	41418	58	50337	59
25506	49	27514	51	28346	36	41488	57	50341	59
26608	49	27516	51	28350	36	41490	57	50421	66
26610	49	27518	51	30115	52	41492	57	50422	66
26612	49	27520	51	30602	52	41494	57	50424	66
26614	49	27522	51	30604	52	41496	57	50426	66
26616	49	27524	51	30804	53 / 98	41498	57	50428	66
26618	49	27710	52	40808	54	41602	58	50479	62
26638	49	27712	52	40810	54	41604	58	50480	62
26640	49	27714	52	40812	54	41607	58	50481	62
26642	49	27716	52	40814	54	50102	59	50482	62
26644	49	27718	52	40858	54	50103	104	50483	62
26646	49	27720	52	40860	54	50104	59 / 104	50484	62
26648	49	27722	52	40862	54	50105	59	50485	62
26708	50	27724	52	40868	55	50106	59	50486	62
26710	50	28214	36	40870	55	50107	59	50487	62
26712	50	28216	36	40872	55	50108	59	50488	62
26714	50	28218	36	40878	55	50109	59	50489	62
26716	50	28220	36	40880	55	50145	60	50490	62
26718	50	28222	36	40882	55	50148	60	50491	62
26720	50	28224	36	40888	55	50151	60	50492	62
26722	50	28226	36	40890	55	50159	60	50493	62
26808	50	28230	36	40892	55	50163	60	50494	62
26810	50	28232	36	40900	54	50165	60	50495	62
26812	50	28234	36	40902	54	50166	60	50496	62
27010	50	28236	36	40908	56	50169	60	50497	62
27011	50	28238	36	40910	56	50175	60	50498	62
27012	50	28240	36	40912	56	50177	60	50499	62
27013	50	28242	36	40914	56	50178	60	50500	62
27014	50	28244	36	41108	56	50186	129	50558	63
27015	50	28246	36	41110	56	50188	61	50560	63
27016	50	28250	36	41112	56	50190	61	50562	63
27017	50	28254	36	41114	56	50191	61	50564	63
27018	50	28260	36	41208	56	50193	61	50566	63
27019	50	28262	36	41210	56	50195	61	50568	63

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
50570	63	50694	65	50910	66	60660	17	77010	88
50572	63	50696	65	50912	66	60716	127	77012	88
50574	63	50698	65	50914	66	60720	127	77020	88
50576	63	50699	65	50921	66	60768	17	77022	88
50580	63	50700	43	50922	66	60770	17	77024	88
50592	63	50708	43	50924	66	60774	17	77040	88
50614	64	50710	43	50926	66	60778	17	77080	88
50616	64	50712	65	50928	66	60780	17	77082	88
50619	64	50714	65	50940	66	60782	17	77090	88
50620	64	50716	65	50941	66	60784	17	77092	88
50623	64	50718	65	50942	66	60786	17	78000	53 / 96
50624	64	50720	65	50944	66	60788	17	78003	97
50625	64	50722	65	50946	66	60790	17	78020	97
50627	64	50726	65	50948	66	70708	8	78050	98
50628	64	50728	65	50950	66	70710	8	78051	98
50629	64	50730	65	50952	66	70712	8	78052	98
50631	64	50732	65	50954	66	70714	8	78053	98
50632	64	50734	65	50956	66	70716	8	78054	99
50634	64	50736	65	50958	66	70718	8	78200	99
50635	64	50738	65	50970	104	70720	8	78201	99
50636	64	50740	65	50972	104	70722	8	78202	99
50638	64	50742	65	60010	41	70724	8	78204	99
50640	64	50744	65	60110	43	70726	8	78206	99
50642	64	50746	65	60115	44	70730	8	78208	99
50644	64	50800	104	60150	44	70734	8	78220	99
50648	64	50802	105	60155	44	70738	8	78228	99
50650	64	50803	105	60210	53 / 98	70758	10	78298	137
50652	64	50804	106	60516	17	70760	10	78300	100 / 137
50654	64	50805	106	60520	17	70762	10	78302	100 / 137
50656	64	50809	105	60525	17	70764	10	78304	100
50657	64	50814	104	60532	17	70766	10	78306	100
50658	64	50815	104	60540	17	70768	10	78308	100
50660	64	50817	104	60550	17	70770	10	78320	100
50662	64	50820	104	60563	17	70772	10	78402	100
50664	64	50824	106	60575	17	70774	10	78404	100
50666	64	50825	106	60590	17	70776	10	78406	100
50667	64	50826	106	60594	17	70780	10	78408	100
50668	64	50828	106	60595	17	70784	10	78410	100
50669	64	50830	106	60597	17	70788	10	78412	100
50670	64	50832	106	60600	61	70806	10	79000	89
50671	64	50834	106	60604	17	70808	10	79002	89
50672	64	50840	104	60606	17	70810	10	79004	89
50674	64	50857	104	60608	17	70812	10	79006	89
50676	64	50860	104	60610	17	70814	10	79008	89
50678	64	50862	104	60616	18	70816	10	79010	90
50680	64	50864	104	60620	18	70818	10	79020	91
50682	64	50874	104	60625	18	70820	10	79030	91
50684	65	50875	105	60632	18	70822	10	79032	91
50686	65	50876	105	60640	18	70824	10	79033	91
50688	65	50878	105	60650	17	70856	10	79034	91
50690	65	50880	105	60654	17	77000	8	79040	91
50692	65	50882	105	60658	17	77002	88	79050	108

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
79052	108	79512	101	81115	130	91107	135	94146	141
79080	41 / 89	79532	101	81192	129	91108	136	94147	141
79090	41 / 89	79534	101	81193	129	91109	136	94151	141
79095	41 / 89	79536	101	81194	129	91110	136	94152	141
79096	42 / 89	79540	102	81195	129	91111	135	94154	142
79100	92	79542	102	81288	129	91112	134	94162	140
79102	92	79550	102	81289	129	91115	134	94165	140
79104	92	79566	102	81290	130	91210	135	95210	138
79110	93	79568	88	81291	130	92069	138	95212	139
79112	93	79606	96	81296	128	92100	136	95214	139
79114	93	79608	96	81297	128	92104	136	95500	133
79116	93	79610	96	81298	128	92106	136	95502	133
79118	93	79858	89	81506	128	92107	136	95504	133
79120	93	79986	138	83006	102	92108	136	95510	133
79122	93	79988	138	83306	102	92162	140	95512	133
79123	93	79990	100 / 138	85110	18	92163	140	95537	133
79124	93	79991	138	85115	102	92302	136	96003	132
79126	93	79992	100 / 138	85119	103	92303	136	96004	132
79160	92	79994	100 / 138	85120	103	92304	136	99027	137
79162	92	81003	127	85121	103	92305	136	99060	137
79163	92	81006	127	85123	103	92306	136	99062	137
79164	92	81008	127	85125	102	92307	136	99063	137
79182	93	81026	127	90020	132	92308	136	99064	137
79184	93	81028	127	90024	132	92309	136	99086	133
79186	93	81030	129	90026	132	92310	136	99099	137
79188	93	81031	129	90027	132	92311	136	99258	142
79200	94	81032	129	90028	132	92312	136	99259	142
79202	94	81033	129	90030	132	92320	136	99743	142
79203	94	81034	129	90034	132	92321	136	311174	20
79204	94	81035	129	90036	132	92323	138	311176	20
79205	94	81036	129	90037	132	92329	138	311182	20
79209	133	81039	127	90038	132	92330	136	311184	20
79210	94 / 133	81040	129	90306	132	93102	139	311188	20
79212	95 / 133	81041	129	90307	132	93104	139	311190	20
79214	96 / 133	81042	129	90316	132	93106	139	311192	20
79220	94	81044	126	90317	132	93108	139	311194	20
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79502	101	81112	130	91104	135	94140	140	313138	25
79510	101	81114	130	91106	135	94145	141	313142	25

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
313144	27	370770	9	779033	109	779192	111	779992	116
313600	27	370772	9	779034	109	779194	111	779994	116
313602	27	370774	9	779036	109	779199	112	779996	116
313608	27	370776	9	779038	109	779200	112	779998	116
313610	27	370780	9	779039	109	779202	112	1211012	83
313612	27	370784	9	779040	110	779203	112	1211014	83
313614	28	370788	9	779050	110	779204	112	1211016	83
313618	27	370792	9	779052	110	779205	112	1211018	83
313624	27	370794	9	779100	110	779206	112	1211020	83
313626	27	777030	88	779102	110	779207	112	1211022	83
313628	27	777032	88	779104	110	779208	112	1211024	83
313630	28	777050	107	779106	110	779210	112	1211026	83
313634	28	777052	107	779108	110	779212	112	1211030	83
313640	27	777054	107	779110	111	779214	112	1211034	83
313904	28	777056	107	779112	111	779216	112	1211038	83
313906	28	777058	107	779114	111	779218	112	1211042	84
313908	28	777070	107	779116	111	779220	112	1211222	84
313910	27	777072	107	779118	111	779222	112	1211228	84
313916	28	778003	114	779120	111	779230	112	1211230	84
313918	28	778050	114	779122	111	779232	112	1211236	84
313920	28	778051	114	779123	111	779240	112	1211238	84
313922	28	778052	114	779124	111	779242	112	1211240	84
313924	33	778053	114	779126	111	779244	112	1211242	84
314130	33	778054	115	779128	111	779246	112	1211252	84
314134	33	778200	115	779130	111	779250	113	1211253	84
314138	33	778201	115	779132	111	779252	113	1211257	84
314142	33	778202	115	779134	111	779254	113	1211259	84
314144	35	778204	115	779136	111	779256	113	1211263	84
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315530	37	778300	115	779142	111	779268	113	1214114	86
315534	37	778302	115	779144	111	779270	113	1214118	86
315538	37	778304	115	779146	111	779300	113	1214122	86
315542	37	778306	115	779148	111	779302	113	1214124	86
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370742	7	779004	107	779182	111	779534	117	1214230	86
370744	7	779006	107	779184	111	779536	117	1214234	86
370762	9	779010	109	779186	111	779540	117	1311274	85
370764	9	779020	109	779188	111	779542	117	1311275	85
370766	9	779030	109	779189	111	779858	107	1311276	85
370768	9	779032	109	779190	111	779990	116	1311277	85



Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
1311282	85	1313142	77	1313394	80	1318264	81	1370722	75
1311283	85	1313202	79	1313396	80	1318266	81	1370723	75
1311284	85	1313206	79	1313400	80	1318268	81	1370724	75
1311285	85	1313208	79	1313402	80	1318290	81	1370725	75
1311288	85	1313212	79	1313406	80	1318292	81	1370726	75
1311289	85	1313214	79	1313408	80	1318294	81	1370729	75
1311290	85	1313216	79	1313410	80	1318296	81	1370730	75
1311291	85	1313220	79	1313412	80	1318298	81	1370733	75
1311296	85	1313222	79	1313414	80	1318300	81	1370734	75
1311297	85	1313224	79	1313416	80	1318302	81	1370737	75
1311298	85	1313226	79	1313418	80	1318304	81	1370738	75
1311299	85	1313230	79	1313420	80	1318332	82	1370741	75
1312112	77	1313232	79	1313424	80	1318334	82	1370742	15
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1312116	77	1313236	79	1313432	78	1318338	82	2010210	15
1312118	77	1313238	79	1318112	78	1318340	82	2010212	15
1312120	77	1313242	79	1318114	78	1318342	82	2010308	15
1312122	77	1313244	79	1318116	78	1318344	82	2010310	15
1312124	77	1313246	79	1318118	78	1318346	82	2010312	15
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1312130	77	1313250	79	1318122	78	1318382	82	2012145	22
1312134	77	1313252	79	1318124	78	1318384	82	2012147	22
1312138	77	1313256	79	1318126	78	1318386	82	2012149	22
1312142	77	1313258	79	1318130	78	1318388	82	2012535	24
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1312218	76	1313266	79	1318202	81	1318396	82	2012547	24
1312220	76	1313268	79	1318206	81	1318400	82	2012549	24
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1312514	76	1313292	79	1318212	81	1318406	82	2013139	25
1312516	76	1313294	79	1318214	81	1318408	82	2013143	25
1312518	76	1313296	79	1318216	81	1318410	82	2013145	25
1312520	76	1313298	79	1318220	81	1318412	82	2013147	25
1312522	76	1313300	79	1318222	81	1318414	82	2013149	25
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1313118	77	1313346	80	1318246	81	1370714	75	2013635	29
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1313134	77	1313390	80	1318260	81	1370720	75	2013663	29
1313138	77	1313392	80	1318262	81	1370721	75	2013665	29

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
2013667	29	2170114	15	2212518	76	2213297	79	2218216	81
2013669	29	2170116	15	2212520	76	2213299	79	2218220	81
2013671	29	2170118	15	2212522	76	2213301	79	2218222	81
2013676	29	2170120	15	2212524	76	2213303	79	2218224	81
2013678	29	2170122	15	2212526	76	2213305	79	2218226	81
2013680	29	2170124	15	2212531	76	2213333	80	2218230	81
2013682	29	2170126	15	2212535	76	2213335	80	2218232	81
2013684	29	2170130	15	2212539	76	2213337	80	2218234	81
2013685	29	2170134	15	2212543	76	2213339	80	2218236	81
2013690	29	2170138	15	2213112	77	2213341	80	2218238	81
2013692	29	2170708	15	2213114	77	2213343	80	2218242	81
2013694	29	2170710	15	2213116	77	2213345	80	2218244	81
2013696	29	2170712	15	2213118	77	2213347	80	2218246	81
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2013699	29	2211014	83	2213122	77	2213383	80	2218250	81
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2070142	13	2211285	85	2213220	79	2213413	80	2218299	81
2070144	13	2211289	85	2213222	79	2213415	80	2218301	81
2070146	13	2211291	85	2213224	79	2213417	80	2218303	81
2070148	13	2211297	85	2213226	79	2213419	80	2218305	81
2070162	14	2211299	85	2213230	79	2213421	80	2218333	82
2070164	14	2212112	77	2213232	79	2213425	80	2218335	82
2070166	14	2212114	77	2213234	79	2213429	80	2218337	82
2070168	14	2212116	77	2213236	79	2213433	80	2218339	82
2070170	14	2212118	77	2213238	79	2218112	78	2218341	82
2070172	14	2212120	77	2213242	79	2218114	78	2218343	82
2070174	14	2212122	77	2213244	79	2218116	78	2218345	82
2070176	14	2212124	77	2213246	79	2218118	78	2218347	82
2070180	14	2212126	77	2213248	79	2218120	78	2218351	82
2070184	14	2212131	77	2213250	79	2218122	78	2218383	82
2070188	14	2212135	77	2213252	79	2218124	78	2218385	82
2070192	14	2212139	77	2213256	79	2218126	78	2218387	82
2070194	14	2212143	77	2213258	79	2218131	78	2218389	82
2070196	14	2212212	76	2213260	79	2218135	78	2218391	82
2070198	14	2212214	76	2213262	79	2218139	78	2218393	82
2070708	13	2212216	76	2213264	79	2218143	78	2218395	82
2070710	13	2212218	76	2213266	79	2218202	81	2218397	82
2070712	13	2212220	76	2213268	79	2218206	81	2218401	82
2070758	14	2212512	76	2213291	79	2218208	81	2218403	82
2070760	14	2212514	76	2213293	79	2218212	81	2218407	82
2070762	14	2212516	76	2213295	79	2218214	81	2218409	82

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
2218411	82	2411238	85	2413131	77	2413391	80	2418305	81
2218413	82	2411240	85	2413135	77	2413393	80	2418333	82
2218415	82	2411242	85	2413139	77	2413395	80	2418335	82
2218417	82	2411252	85	2413202	79	2413397	80	2418337	82
2218419	82	2411253	85	2413206	79	2413401	80	2418339	82
2218421	82	2411257	85	2413208	79	2413403	80	2418341	82
2218425	82	2411259	85	2413212	79	2418112	78	2418343	82
2218429	82	2411263	85	2413214	79	2418114	78	2418345	82
2218433	82	2411265	85	2413216	79	2418116	78	2418347	82
2270111	75	2411275	85	2413220	79	2418118	78	2418351	82
2270112	75	2411277	85	2413222	79	2418120	78	2418383	82
2270113	75	2411283	85	2413224	79	2418122	78	2418385	82
2270114	75	2411285	85	2413226	79	2418124	78	2418387	82
2270115	75	2411289	85	2413230	79	2418126	78	2418389	82
2270116	75	2411291	85	2413232	79	2418131	78	2418391	82
2270117	75	2411297	85	2413234	79	2418135	78	2418393	82
2270118	75	2411299	77	2413236	79	2418139	78	2418395	82
2270119	75	2412112	77	2413238	79	2418202	81	2418397	82
2270120	75	2412114	77	2413242	79	2418206	81	2418401	82
2270121	75	2412116	77	2413244	79	2418208	81	2418403	82
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2270123	75	2412120	77	2413248	79	2418214	81	2470114	75
2270124	75	2412122	77	2413250	79	2418216	81	2470115	75
2270125	75	2412124	77	2413252	79	2418220	81	2470116	75
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2270130	75	2412135	77	2413260	79	2418226	81	2470119	75
2270133	75	2412139	77	2413262	79	2418230	81	2470120	75
2270134	75	2412212	76	2413264	79	2418232	81	2470121	75
2270137	75	2412214	76	2413266	79	2418234	81	2470122	75
2270138	75	2412216	76	2413268	79	2418236	81	2470123	75
2270141	75	2412218	76	2413291	79	2418238	81	2470124	75
2270142	75	2412220	76	2413293	79	2418242	81	2470125	75
2411000	86	2412512	76	2413295	79	2418244	81	2470126	75
2411001	86	2412514	76	2413297	79	2418246	81	2470129	75
2411002	86	2412516	76	2413299	79	2418248	81	2470130	75
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2411038	84	2413116	77	2413347	80	2418293	81	2511188	21
2411042	84	2413118	77	2413351	80	2418295	81	2511190	21
2411222	85	2413120	77	2413383	80	2418297	81	2511193	21
2411228	85	2413122	77	2413385	80	2418299	81	2511195	21
2411230	85	2413124	77	2413387	80	2418301	81	2511197	21
2411236	85	2413126	77	2413389	80	2418303	81	2511199	21

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
2511201	21	2513614	30	2513848	31	2711284	85	2713412	80
2511203	21	2513618	31	2513849	31	2711285	85	2713414	80
2511204	21	2513624	30	2513850	31	2711288	85	2713416	80
2511206	21	2513626	30	2513851	31	2711289	85	2713418	80
2511207	21	2513628	30	2513852	31	2711290	85	2713420	80
2511208	21	2513630	30	2514130	33	2711291	85	2713424	80
2511209	21	2513634	31	2514134	33	2711296	85	2713428	80
2511210	21	2513640	31	2514138	33	2711297	85	2713432	80
2511211	21	2513651	30	2514142	33	2711298	85	2718130	78
2511212	21	2513653	31	2514144	33	2711299	85	2718134	78
2511213	21	2513655	31	2514146	33	2712130	77	2718138	78
2511214	21	2513657	31	2514148	33	2712134	77	2718142	78
2511215	21	2513663	30	2514150	33	2712138	77	2718290	81
2511216	21	2513665	31	2514152	33	2712142	77	2718292	81
2511217	21	2513667	31	2514154	33	2712530	76	2718294	81
2511218	21	2513669	31	2515530	37	2712534	76	2718296	81
2511219	21	2513671	31	2515534	37	2712538	76	2718298	81
2512130	22	2513676	30	2515538	37	2712542	77	2718300	81
2512134	22	2513678	31	2515542	37	2713130	77	2718302	81
2512138	22	2513680	31	2515544	37	2713134	77	2718304	81
2512142	22	2513682	31	2515546	37	2713138	77	2718332	82
2512144	22	2513684	31	2515548	37	2713142	77	2718334	82
2512146	22	2513685	31	2515550	37	2713290	79	2718336	82
2512148	22	2513690	30	2515552	37	2713292	79	2718338	82
2512150	22	2513692	31	2515554	37	2713294	79	2718340	82
2512152	22	2513694	31	2570126	13	2713296	79	2718342	82
2512154	22	2513696	31	2570130	13	2713298	79	2718344	82
2512530	24	2513698	31	2570134	13	2713300	79	2718346	82
2512534	24	2513699	31	2570138	13	2713302	79	2718350	82
2512538	24	2513700	31	2570142	13	2713304	79	2718382	82
2512542	24	2513804	30	2570144	13	2713332	80	2718384	82
2512544	24	2513806	31	2570146	13	2713334	80	2718386	82
2512546	24	2513808	31	2570148	13	2713336	80	2718388	82
2512548	24	2513810	31	2570150	13	2713338	80	2718390	82
2512550	24	2513812	31	2570152	13	2713340	80	2718392	82
2512552	24	2513813	31	2570154	13	2713342	80	2718394	82
2512554	25	2513814	31	2570180	14	2713344	80	2718396	82
2513130	25	2513815	31	2570184	14	2713346	80	2718400	82
2513134	25	2513821	30	2570188	14	2713350	80	2718402	82
2513138	25	2513823	31	2570192	14	2713382	80	2718406	82
2513142	25	2513825	31	2570194	14	2713384	80	2718408	82
2513144	25	2513827	31	2570196	14	2713386	80	2718410	82
2513146	25	2513829	31	2570198	14	2713388	80	2718412	82
2513148	25	2513830	31	2570200	14	2713390	80	2718414	82
2513150	25	2513831	31	2570202	14	2713392	80	2718416	82
2513152	25	2513832	31	2570204	14	2713394	80	2718418	82
2513154	25	2513833	31	2711274	85	2713396	80	2718420	82
2513600	30	2513839	30	2711275	85	2713400	80	2718424	82
2513602	30	2513841	31	2711276	85	2713402	80	2718428	82
2513608	30	2513843	31	2711277	85	2713406	80	2718432	82
2513610	30	2513845	31	2711282	85	2713408	80	2770129	75
2513612	30	2513847	31	2711283	85	2713410	80	2770130	75

Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page	Art.-No.	Page
2770133	75	5024475	121	5036060	122	5048100	123	5060180	124
2770134	75	5024500	121	5036070	122	5048120	123	5060200	124
2770137	75	5028040	121	5036080	122	5048140	123	5060225	124
2770138	75	5028050	121	5036090	122	5048160	123	5060250	124
2770141	75	5028060	121	5036100	122	5048180	123	5060275	124
2770142	75	5028070	121	5036120	122	5048200	123	5060300	124
5000040	125	5028080	121	5036140	122	5048225	123	5060325	124
5000050	125	5028090	121	5036160	122	5048250	123	5060350	124
5000060	125	5028100	121	5036180	122	5048275	123	5060375	124
5000070	125	5028120	121	5036200	122	5048300	123	5060400	124
5000080	125	5028140	121	5036225	122	5048325	123	5060425	124
5000090	125	5028160	121	5036250	122	5048350	123	5060450	124
5000100	125	5028180	121	5036275	122	5048375	123	5060475	124
5000120	126	5028200	121	5036300	122	5048400	123	5060500	124
5000140	126	5028225	121	5036325	122	5048425	123	5068040	125
5000160	126	5028250	121	5036350	122	5048450	123	5068050	125
5000180	126	5028275	121	5036375	122	5048475	123	5068060	125
5000200	126	5028300	121	5036400	122	5048500	123	5068070	125
5000225	126	5028325	121	5036425	122	5056040	124	5068080	125
5000250	126	5028350	121	5036450	122	5056050	124	5068090	125
5000275	126	5028375	121	5036475	122	5056060	124	5068100	125
5000300	126	5028400	121	5036500	122	5056070	124	5068120	125
5000325	126	5028425	121	5040040	123	5056080	124	5068140	125
5000350	126	5028450	121	5040050	123	5056090	124	5068160	125
5000375	126	5028475	121	5040060	123	5056100	124	5068180	125
5000400	126	5028500	121	5040070	123	5056120	124	5068200	125
5000425	126	5032040	122	5040080	123	5056140	124	5068225	125
5000450	126	5032050	122	5040090	123	5056160	124	5068250	125
5000475	126	5032060	122	5040100	123	5056180	124	5068275	125
5000500	126	5032070	122	5040120	123	5056200	124	5068300	125
5024040	121	5032080	122	5040140	123	5056225	124	5068325	125
5024050	121	5032090	122	5040160	123	5056250	124	5068350	125
5024060	121	5032100	122	5040180	123	5056275	124	5068375	125
5024070	121	5032120	122	5040200	123	5056300	124	5068400	125
5024080	121	5032140	122	5040225	123	5056325	124	5068425	125
5024090	121	5032160	122	5040250	123	5056350	124	5068450	125
5024100	121	5032180	122	5040275	123	5056375	124	5068475	125
5024120	121	5032200	122	5040300	123	5056400	124	5068500	125
5024140	121	5032225	122	5040325	123	5056425	124	5080040	125
5024160	121	5032250	122	5040350	123	5056450	124	5080050	125
5024180	121	5032275	122	5040375	123	5056475	124	5080060	125
5024200	121	5032300	122	5040400	123	5056500	124	5080070	125
5024225	121	5032325	122	5040425	123	5060040	124	5080080	125
5024250	121	5032350	122	5040450	123	5060050	124	5080090	125
5024275	121	5032375	122	5040475	123	5060060	124	5080100	125
5024300	121	5032400	122	5040500	123	5060070	124	5080120	125
5024325	121	5032425	122	5048040	123	5060080	124	5080140	125
5024350	121	5032450	122	5048050	123	5060090	124	5080160	125
5024375	121	5032475	122	5048060	123	5060100	124	5080180	125
5024400	121	5032500	122	5048070	123	5060120	124	5080200	125
5024425	121	5036040	122	5048080	123	5060140	124	5080225	125
5024450	121	5036050	122	5048090	123	5060160	124	5080250	125

Art.-No.	Page
5080275	125
5080300	125
5080325	125
5080350	125
5080375	125
5080400	125
5080425	125
5080450	125
5080475	125
5080500	125
5662050	126
5662100	126
5662200	126
5663050	126
5663100	126
5663200	126
6252056	128
6256056	128
6256060	128
6256120	128
9010212	16
9010214	16
9010216	16
9010218	16
9010220	16
9010222	16
9010224	16
9010226	16
9010808	16
9010810	16

## PERMISSIBLE WORKING PRESSURE - POTABLE WATER

Fluid transported: water acc. to DIN 2000

Temperature	Service life	aqualtherm green pipe SDR 11 S	aqualtherm lilac pipe SDR 11 S	aqualtherm green pipe SDR 7.4 S	aqualtherm green pipe SDR 6 S	aqualtherm green pipe SDR 7.4 MS	aqualtherm green pipe SDR 7.4 MF	aqualtherm 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	Service life	aquatherm blue pipe	aquatherm blue pipe	aquatherm green pipe	aquatherm green pipe				
			SDR 11 MF, OT & S	SDR 17.6 MF	SDR 7.4 MF & MS	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	Service life	aquatherm blue pipe SDR 17.6 MF		aquatherm blue pipe SDR 11 MF & MF OT 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)
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)
15 °C	100	10,8	(157)	23,5	(341)	25,2	(366)	26,3	(381)
	1	11,8	(171)	25,7	(373)	29,4	(426)	26,9	(390)
	5	11,1	(161)	24,2	(351)	27,4	(397)	26,0	(377)
	10	10,8	(157)	23,6	(342)	26,9	(390)	25,7	(373)
	25	10,5	(152)	22,8	(331)	26,1	(379)	25,2	(366)
20 °C	50	10,2	(148)	22,2	(322)	25,3	(367)	24,9	(361)
	100	9,9	(144)	21,6	(313)	24,5	(355)	24,5	(355)
	1	10,9	(158)	23,8	(345)	28,6	(415)	25,0	(363)
	5	10,3	(149)	22,3	(323)	26,8	(389)	24,2	(351)
	10	10,0	(145)	21,7	(315)	26,1	(379)	23,9	(347)
30 °C	25	9,6	(139)	21,0	(305)	25,3	(367)	23,5	(341)
	50	9,4	(136)	20,4	(296)	24,5	(355)	23,1	(335)
	100	9,1	(132)	19,9	(289)	23,7	(344)	22,8	(331)
	1	9,3	(135)	20,2	(293)	24,3	(352)	21,7	(315)
	5	8,7	(126)	18,9	(274)	22,8	(331)	20,9	(303)
40 °C	10	8,5	(123)	18,4	(267)	22,0	(319)	20,6	(299)
	25	8,2	(119)	17,8	(258)	21,3	(309)	20,2	(293)
	50	7,9	(115)	17,3	(251)	20,7	(300)	19,9	(289)
	100	7,7	(112)	16,8	(244)	20,0	(290)	19,7	(286)
	1	7,9	(115)	17,1	(248)	20,5	(297)	18,6	(270)
50 °C	5	7,4	(107)	16,0	(232)	19,2	(278)	18,0	(261)
	10	7,2	(104)	15,6	(226)	18,7	(271)	17,7	(257)
	25	6,9	(100)	15,0	(218)	18,0	(261)	17,3	(251)
	50	6,7	(97)	14,6	(212)	17,5	(254)	17,1	(248)
	100	6,5	(94)	14,1	(205)	16,8	(244)	16,8	(244)
60 °C	1	6,7	(97)	14,5	(210)	17,5	(254)	15,9	(231)
	5	6,2	(90)	13,5	(196)	16,2	(235)	15,3	(222)
	10	6,0	(87)	13,1	(190)	15,7	(228)	15,1	(219)
	25	5,8	(84)	12,6	(183)	15,2	(220)	14,7	(213)
	50	5,6	(81)	12,2	(177)	14,7	(213)	14,5	(210)
70 °C	100	5,5	(80)	11,9	(173)	14,1	(205)	14,3	(207)
	1	5,6	(81)	12,2	(177)	14,7	(213)	13,5	(196)
	5	5,2	(75)	11,4	(165)	13,7	(199)	13,0	(189)
	10	5,1	(74)	11,0	(160)	13,2	(191)	12,7	(184)
	25	4,9	(71)	10,6	(154)	12,6	(183)	12,4	(180)
75 °C	50	4,7	(68)	10,3	(149)	12,1	(175)	12,2	(177)
	1	4,7	(68)	10,3	(149)	12,4	(180)	11,3	(164)
	5	4,4	(64)	9,6	(139)	11,4	(165)	10,9	(158)
	10	4,2	(61)	9,2	(133)	11,1	(161)	10,7	(155)
	25	3,7	(54)	8,0	(116)	9,6	(139)	10,4	(151)
80 °C	50	3,1	(45)	6,8	(99)	8,1	(117)	10,2	(148)
	1	4,3	(62)	9,4	(136)	11,7	(170)	10,4	(151)
	5	4,0	(58)	8,7	(126)	10,8	(157)	9,9	(144)
	10	3,7	(54)	8,0	(116)	10,0	(145)	9,7	(141)
	25	3,0	(44)	6,4	(93)	8,0	(116)	9,5	(138)
90 °C	50	2,5	(36)	5,4	(78)	6,7	(97)	9,3	(135)
	1	4,0	(58)	8,6	(125)	10,4	(151)	9,5	(138)
	5	3,5	(51)	7,7	(112)	9,2	(133)	9,0	(131)
	10	3,0	(44)	6,5	(94)	7,8	(113)	8,9	(129)
	25	2,4	(35)	5,2	(75)	6,2	(90)	8,6	(125)
90 °C	1	3,3	(48)	7,2	(104)	8,7	(126)	7,8	(113)
	5	2,3	(33)	5,1	(74)	6,0	(87)	7,4	(107)
	10	2,0	(29)	4,3	(62)	5,1	(74)	7,3	(106)

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

<b>aquatherm green pipe</b> , <b>aquatherm blue pipe</b> & <b>aquatherm lilac pipe</b> pipe systems for the application in potable water and heating and for reclaimed and recycled water	Ord.-No.: E10101
<b>aquatherm blue pipe</b> for chilled, hot fluid and various industrial applications	Ord.-No.: E10050
<b>aquatherm red pipe</b> sprinkler pipe system	Ord.-No.: E40000
<b>aquatherm orange system</b> underfloor heating systems	Ord.-No.: E90001
<b>aquatherm black system</b> heating and cooling system	Ord.-No.: E97060
<b>aquatherm grey pipe</b> potable water and radiator connection system	Ord.-No.: E70001
<b>aquatherm</b> - article list	Ord.-No.: E54152
<b>aquatherm</b> - reference catalogue	Ord.-No.: E57002
<b>aquatherm ti</b> - district heating pipeline systems	Ord.-No.: E30000

For more detailed information, please contact our Info-Service at **+49 (0) 2722 950-0**  
or simply visit our download area at our website  
**[www.aquatherm.de](http://www.aquatherm.de)**



Management  
System  
ISO 9001:2008  
ISO 14001:2004  
ISO 50001:2011  
[www.tuv.com](http://www.tuv.com)  
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