

INNOVATIVE PIPESYSTEMS. SUCCESSFULL WORLDWIDE

fusiotherm® | climatherm | aquatherm lilac | aquatherm ISO

aquatherm® | aquatherm® SHT | climasystem

PRODUCT CATALOGUE 2011

fusiotherm® | climatherm | aquatherm lilac | aquatherm® SHT | climasystem | aquatherm®

aquatherm

Innovative Rohrleitungssysteme
innovative pipe systems

Made in Germany

Korrosionsresistente Rohrleitungssysteme	Verteilerbau	Trinkwasser- und Heizkörperanbindungssystem aquatherm® SHT	Deckenkühlung	Nahwärmeleitungen	Rasenheizung	Industrieanwendungen (z. B. Druckluftanlagen)	Industriebodenheizung
corrosion resistant pipes	distribution construction	Potable water and radiator connection system aquatherm® SHT	ceiling cooling	district heating	under-soil heating	industrial applications (e. g. compressed air plants)	industrial floor heating
Eisflächenkühlung	Freiflächenheizung	Fußbodenheizung (Alt-/Neubau)	Decken-/Wandheizung Naß- & Trockenbau	Sportbodenheizung	Wasserlöscharanlagen	Nutzwasser	Trinkwassernetze
ice surface cooling	open space heating	underfloor heating (old/new buildings)	ceiling/wall heating wet & dry construction	sports floor heating system	fire-extinguishing system	recycled water	potable water pipe systems

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aquatherm GmbH Product Catalogue 2011



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aquatherm

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Please find further information on www.aquatherm.de.

aquatherm information

aquatherm ISO - Pre-insulated pipe systems for district heating

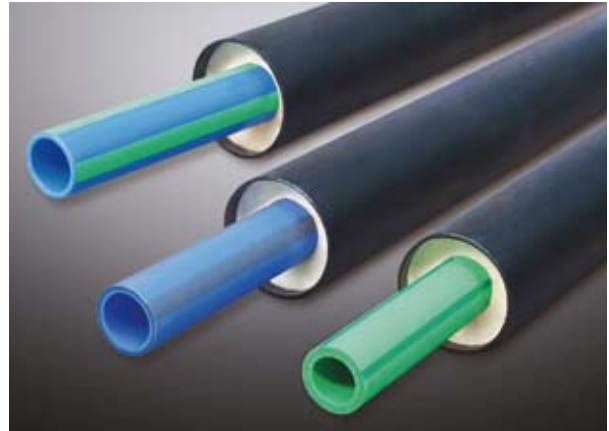
One of the most energy-efficient methods of transporting hot potable water as well as heating or cooling water covering long distances is the application of underground piping. To achieve the necessary insulating characteristics for this type of application, aquatherm offers the factory-made pre-insulated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

- ➔ **fuziotherm® ISO** -
faser composite pipe system SDR 7,4
pipe system for potable water
in dimensions DN 25 - DN 200
- ➔ **climatherm ISO** -
faser composite pipe system SDR 11
pipe system for heating, cooling and waste water
in dimensions DN 25 - DN 300
- ➔ **climatherm OT ISO** -
faser composite pipe system SDR 11
oxygen-tight pipe system for heating- and industrial
water in dimensions DN 25 - DN 100

The aquatherm ISO 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 +43(0)2722 950 200, visit www.aquatherm.de or order our new **aquatherm ISO** catalogue (Ord.No. E300000).



Fields of application

System recommended due to its technical advantages: ●

Application of the system is suitable: ○

	fuziotherm® ISO	climatherm ISO	climatherm OT ISO
Potable water application	●		
Heating system construction	○	●	●
Climate technology	○	●	●
Chilled water technology	○	●	●
Swimming pool technology	●	●	
Rainwater application	●	●	
Irrigation	●	●	
Compressed air systems	○	●	
Geothermal	○	●	○
Industrial liquids considering the material resistance	●	●	●

fusiotherm® - pipe SDR 6

Art.-No.	Dimension	DN	Price	Packing unit m/pc	Box unit m/pc	Piece
10006	16 x 2,7 mm	10		100	8000	
10008	20 x 3,4 mm	12		100	5000	
10010	25 x 4,2 mm	15		100	3000	
10012	32 x 5,4 mm	20		40	2000	
10014	40 x 6,7 mm	25		40	1200	
10016	50 x 8,3 mm	32		20	800	
10018	63 x 10,5 mm	40		20	600	
10020	75 x 12,5 mm	50		20	400	
10022	90 x 15,0 mm	60		12	252	
10024	110 x 18,3 mm	65		8	176	
10106*	16 x 2,7 mm	10		100		
10108*	20 x 3,4 mm	12		100		
10110*	25 x 4,2 mm	15		100		

Field of application: see operating pressure tables



Material: PP-R
 acc. to DIN: DIN 8077/78
 DIN EN ISO 15874
 Register-No.: DVGW DW-8501
 AS2120/AU2224
 Form supplied: 4 m straight lengths
 also* in coils
 Colour: green



fusiotherm® - pipe SDR 11

Art.-No.	Dimension	DN	Price	Packing unit m/pc	Box unit m/pc	Piece
10208	20 x 1,9 mm	15		100	5000	
10210	25 x 2,3 mm	20		100	3000	
10212	32 x 2,9 mm	25		40	2000	
10214	40 x 3,7 mm	32		40	1200	
10216	50 x 4,6 mm	40		20	800	
10218	63 x 5,8 mm	50		20	600	
10220	75 x 6,8 mm	65		20	400	
10222	90 x 8,2 mm	80		12	252	
10224	110 x 10,0 mm	80		8	176	
10226	125 x 11,4 mm	100		4	152	
10230	160 x 14,6 mm	125		6	88	
10234	200 x 18,2 mm	150		6	56	
10238	250 x 22,7 mm	200		6	32	
10242	315 x 28,6 mm	250		6		
10308*	20 x 1,9 mm	15		100		
10310*	25 x 2,3 mm	20		100		
10312*	32 x 2,9 mm	25		50		

Field of application: see operating pressure tables



Material: PP-R
 acc. to DIN: DIN 8077/78,
 DIN EN ISO 15874
 Register. No.: SKZ A 175
 Form supplied: 4 m straight lengths
 (ø 20-125mm),
 6 m straight lengths
 (ø 160-250mm),
 *coils
 Colour: green with 4 blue
 stripes

Pipes

fusiotherm® - pipe SDR 7,4

Art.-No.	Dimension	DN	Price	Packing unit m/pc	Box unit m/pc	Piece
10806	16 x 2,2 mm	12		100	8000	
10808	20 x 2,8 mm	15		100	5000	
10810	25 x 3,5 mm	20		100	3000	
10812	32 x 4,4 mm	25		40	2000	
10814	40 x 5,5 mm	32		40	1200	
10816	50 x 6,9 mm	40		20	800	
10818	63 x 8,6 mm	50		20	600	
10820	75 x 10,3 mm	50		20	400	
10822	90 x 12,3 mm	65		12	252	
10824	110 x 15,1 mm	80		8	176	
10906*	16 x 2,2 mm	12		100		
10908*	20 x 2,8 mm	15		100		



Material: PP-R
 acc. to DIN: DIN 8077/78,
 DIN EN ISO 15874
 MP 52
 (Spec 402)
 Register-No.: SKZ A 175/Lic 203
 Form supplied: 4 m straight lengths
 also* in coils
 Colour: green

Field of application: see operating pressure tables

fusiotherm® - faser composite pipe SDR 7,4

Art.-No.	Dimension	DN	Price	Packing unit m/pc	Box unit m/pc	Piece
70708	20 x 2,8 mm	15		100	5000	
70710	25 x 3,5 mm	20		100	3000	
70712	32 x 4,4 mm	25		40	2000	
70714	40 x 5,5 mm	32		40	1200	
70716	50 x 6,9 mm	40		20	800	
70718	63 x 8,6 mm	50		20	600	
70720	75 x 10,3 mm	50		20	400	
70722	90 x 12,3 mm	65		12	252	
70724	110 x 15,1 mm	80		8	176	
70726	125 x 17,1 mm	-		4	152	
70730	160 x 21,9 mm	125		6	88	
70734	200 x 27,4 mm	150		6	56	
70738	250 x 34,2 mm	175		6	32	



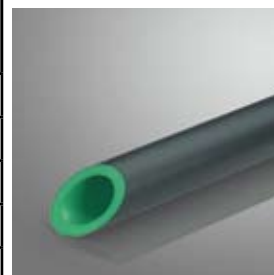
Material: PP-R
 Register. No.: SKZ A 314
 Form supplied: 4 m straight lengths
 (ø 20-125mm),
 6 m straight lengths
 (ø 160-250mm),
 * coils
 Colour: green with 4 moss-
 green stripes

Field of application: see operating pressure tables

fusiotherm® - faser composite pipe SDR 7,4 UV

Resistant against UV-rays

Art.-No.	Dimension	DN	Price	Packing unit m/pc	Box unit m/pc	Piece
70758	20 x 2,8 mm	15		100	4000	
70760	25 x 3,5 mm	20		100	2700	
70762	32 x 4,4 mm	25		40	1800	
70764	40 x 5,5 mm	32		40	1200	
70766	50 x 6,9 mm	40		20	800	
70768	63 x 8,6 mm	50		20	600	
70770	75 x 10,3 mm	50		20	400	
70772	90 x 12,3 mm	65		12	252	
70774	110 x 15,1 mm	80		8	176	
70776	125 x 17,1 mm	-		4	152	
70780	160 x 21,9 mm	125		6		
70784	200 x 27,4 mm	150		6		
70788	250 x 34,2 mm	175		6		



Material: PP-R
 Register-No.: SKZ A 314
 Form supplied: 4 m straight lengths (ø 20-125mm),
 6 m straight lengths (ø 160-250mm),
 * coils
 Colour: outer layer: black
 inner layer: green

Field of application: see operating pressure tables

fusiotherm® - stabi composite pipe SDR 7,4

Mechanically stabilized by integrated aluminium compound

Art.-No.	Dimension	DN	Price	Packing unit m/pc	Box unit m/pc	Piece
70806	16 x 2,2 mm	12		100	7000	
70808	20 x 2,8 mm	15		100	4000	
70810	25 x 3,5 mm	20		100	2700	
70812	32 x 4,5 mm	25		40	1800	
70814	40 x 5,6 mm	32		40	1200	
70816	50 x 6,9 mm	40		20	800	
70818	63 x 8,7 mm	50		20	600	
70820	75 x 10,4 mm	50		20	400	
70822	90 x 12,5 mm	65		12	252	
70824	110 x 15,2 mm	80		8	176	
70856*	16 x 2,2 mm	12		100		



Material: PP-R, Aluminium
 acc. to: DVGW W 542
 DVGW-No.: ø 16-50 mm: DW 8201AT2414
 ø 63-110 mm: DW 8206AT2415
 Form supplied: 4 m straight lengths also* in coils
 Colour: green with evenly structured surface

Field of application: see operating pressure tables



Pipes

aquatherm lilac - pipe SDR 7,4/11

NEW

Art.-No.	Dimension	DN	Price	Packing unit m/pc	Box unit m/pc	Piece
9010808	SDR 7,4 - 20 x 2,8 mm	15		100	5000	
9010810	SDR 7,4 - 25 x 3,5 mm	20		100	3000	
9010212	SDR 11 - 32 x 2,9 mm	25		40	2000	
9010214	SDR 11 - 40 x 3,7 mm	32		40	1200	
9010216	SDR 11 - 50 x 4,6 mm	40		20	800	
9010218	SDR 11 - 63 x 5,8 mm	50		20	600	
9010220	SDR 11 - 75 x 6,8 mm	65		20	400	
9010222	SDR 11 - 90 x 8,2 mm	80		12	252	
9010224	SDR 11 - 110 x 10,0 mm	80		8	176	
9010226	SDR 11 - 125 x 11,4 mm	100		4	152	
9010230	SDR 11 - 160 x 14,6 mm	125		6	88	
9010234	SDR 11 - 200 x 18,2 mm	150		6	56	
9010238	SDR 11 - 250 x 22,7 mm	200		6	32	



Material: PP-R
 acc. to DIN: DIN 8077/78
 DIN EN ISO 15874
 Register-No.: cNSFus-rw
 Form supplied: 4 m straight lengths
 (ø 20-125mm),
 6 m straight lengths
 (ø 160-250mm)
 Colour: lilac

Field of application: see operating pressure tables

climatherm - pipe SDR 11

Art.-No.	Dimension	DN	Price	Packing unit m/pc	Box unit m/pc	Piece
2010208	20 x 1,9 mm	15		100	5000	
2010210	25 x 2,3 mm	20		100	3000	
2010212	32 x 2,9 mm	25		40	2000	
2010214	40 x 3,7 mm	32		40	1200	
2010216	50 x 4,6 mm	40		20	800	
2010218	63 x 5,8 mm	50		20	600	
2010220	75 x 6,8 mm	65		20	400	
2010222	90 x 8,2 mm	80		12	252	
2010224	110 x 10,0 mm	80		8	176	
2010226	125 x 11,4 mm	100		4	152	
2010230	160 x 14,6 mm	125		6	88	
2010308*	20 x 1,9 mm	15		100		
2010310*	25 x 2,3 mm	20		100		
2010312*	32 x 2,9 mm	25		50		



Material: PP-R
 acc. to DIN: DIN 8077/78,
 DIN EN ISO 15874
 Form supplied: 4 m straight lengths
 (ø 20-125mm),
 6 m straight lengths
 (ø 160 mm),
 *coils
 Colour: change to blue,
 existing stock:
 blue with small green
 stripes

Field of application: see operating pressure tables

climatherm - faser composite pipe SDR 7,4/11

Art.-No.	Dimension	DN	Price	Packing unit m/pc	Box unit m/pc	Piece
2070708	SDR 7,4 - 20 x 2,8 mm	15		100	5000	
2070710	SDR 7,4 - 25 x 3,5 mm	20		100	3000	
2070712	SDR 7,4 - 32 x 4,4 mm	25		40		
2070112	SDR 11 - 32 x 2,9 mm	25		40	2000	
2070114	SDR 11 - 40 x 3,7 mm	32		40	1200	
2070116	SDR 11 - 50 x 4,6 mm	40		20	800	
2070118	SDR 11 - 63 x 5,8 mm	50		20	600	
2070120	SDR 11 - 75 x 6,8 mm	65		20	400	
2070122	SDR 11 - 90 x 8,2 mm	80		12	252	
2070124	SDR 11 - 110 x 10,0 mm	80		8	176	
2070126	SDR 11 - 125 x 11,4 mm	100		4	152	
2070130	SDR 11 - 160 x 14,6 mm	125		6	88	
2070134	SDR 11 - 200 x 18,2 mm	150		6	56	
2070138	SDR 11 - 250 x 22,7 mm	200		6	32	
2070142	SDR 11 - 315 x 28,6 mm	250		6		
2070144	SDR 11 - 355 x 32,2 mm			6		

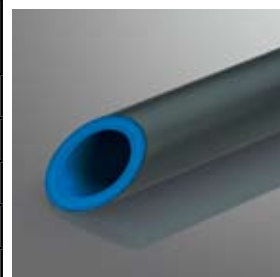


Material: PP-R
 Form supplied: 4 m straight lengths (ø 20-125mm),
 6 m straight lengths (ø 160-355mm)
 Colour: blue/4 green stripes

Field of application: see operating pressure tables

climatherm - faser composite pipe SDR 7,4/11 UV

Art.-No.	Dimension	DN	Price	Packing unit m/pc	Box unit m/pc	Piece
2070758	SDR 7,4 - 20 x 2,8 mm	15		100	5000	
2070760	SDR 7,4 - 25 x 3,5 mm	20		100	3000	
2070762	SDR 7,4 - 32 x 4,4 mm	25		40		
2070162	SDR 11 - 32 x 2,9 mm	25		40	2000	
2070164	SDR 11 - 40 x 3,7 mm	32		40	1200	
2070166	SDR 11 - 50 x 4,6 mm	40		20	800	
2070168	SDR 11 - 63 x 5,8 mm	50		20	600	
2070170	SDR 11 - 75 x 6,8 mm	65		20	400	
2070172	SDR 11 - 90 x 8,2 mm	80		12	252	
2070174	SDR 11 - 110 x 10,0 mm	80		8	176	
2070176	SDR 11 - 125 x 11,4 mm	100		4	152	
2070180	SDR 11 - 160 x 14,6 mm	125		6	88	
2070184	SDR 11 - 200 x 18,2 mm	150		6	56	
2070188	SDR 11 - 250 x 22,7 mm	200		6	32	



Material: PP-R
 Form supplied: 4 m straight lengths (ø 20-125mm),
 6 m straight lengths (ø 160-250mm)
 Colour: outer layer: black
 inner layer: blue

Field of application: see operating pressure tables

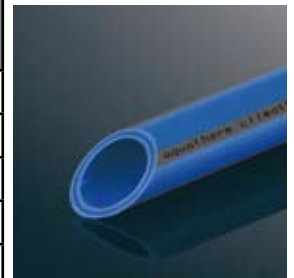
pipes

climatherm - faser composite pipe OT SDR 7,4/11

NEW

oxygen tight by oxygen barrier

Art.-No.	Dimension	DN	Price	Packing unit m/pc	Box unit m/pc	Piece
2170708	SDR 7,4 - 20 x 2,8 mm	15		100	5000	
2170710	SDR 7,4 - 25 x 3,5 mm	20		100	3000	
2170712	SDR 7,4 - 32 x 4,4 mm	25		40	2000	
2170114	SDR 11 - 40 x 3,7 mm	32		40	1200	
2170116	SDR 11 - 50 x 4,6 mm	40		20	800	
2170118	SDR 11 - 63 x 5,8 mm	50		20	600	
2170120	SDR 11 - 75 x 6,8 mm	65		20	400	
2170122	SDR 11 - 90 x 8,2 mm	80		12	252	
2170124	SDR 11 - 110 x 10,0 mm	80		8	176	
2170126	SDR 11 - 125 x 11,4 mm	100		4	152	
2170130	SDR 11 - 160 x 14,6 mm	125		6	88	
2170134	SDR 11 - 200 x 18,2 mm	150		6	56	
2170138	SDR 11 - 250 x 22,7 mm	200		6	32	



Material: PP-R
 Form supplied: 4m straight lengths (ø20-125mm), 6m straight lengths (ø160-250mm),
 Colour: blue/4 grey stripes
 acc. to DIN: DIN 4726 with oxygen barrier by EVOH-coating

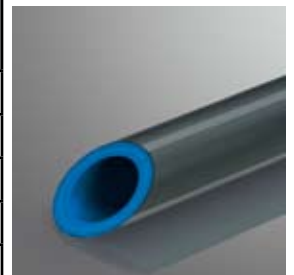
Field of application: see operating pressure tables

climatherm - faser composite pipe OT SDR 7,4/11 UV

NEW

oxygen tight by oxygen barrier

Art.-No.	Dimension	DN	Price	Packing unit m/pc	Box unit m/pc	Piece
2170758	SDR 7,4 - 20 x 2,8 mm	15		100	5000	
2170760	SDR 7,4 - 25 x 3,5 mm	20		100	3000	
2170762	SDR 7,4 - 32 x 4,4 mm	25		40	2000	
2170164	SDR 11 - 40 x 3,7 mm	32		40	1200	
2170166	SDR 11 - 50 x 4,6 mm	40		20	800	
2170168	SDR 11 - 63 x 5,8 mm	50		20	600	
2170170	SDR 11 - 75 x 6,8 mm	65		20	400	
2170172	SDR 11 - 90 x 8,2 mm	80		12	252	
2170174	SDR 11 - 110 x 10,0 mm	80		8	176	
2170176	SDR 11 - 125 x 11,4 mm	100		4	152	
2170180	SDR 11 - 160 x 14,6 mm	125		6	88	
2170184	SDR 11 - 200 x 18,2 mm	150		6	56	
2170188	SDR 11 - 250 x 22,7 mm	200		6	32	



Material: PP-R
 Form supplied: 4m straight lengths (ø20-125mm), 6m straight lengths (ø160-250mm),
 Colour: outer layer: black with grey stripes inner layer: blue
 acc. to DIN: DIN 4726 with oxygen barrier by EVOH-coating

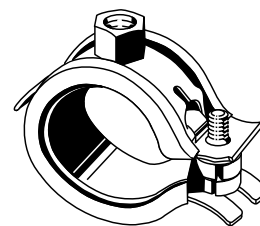
Field of application: see operating pressure tables

Accessories and fittings

fusiotherm® - pipe clamps

for **fusiotherm®**, **climatherm** and **aquatherm lilac** pipes

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
60516	16 mm		50	50	
60520	20 mm		50	50	
60525	25 mm		50	50	
60532	32 mm		50	50	
60540	40 mm		50	50	
60550	50 mm		50	50	
60563	63 mm		25	25	
60575	75 mm		25	25	
60590	90 mm		25	25	
60594	110 mm		25	25	
60595	125 mm		25	25	
60597	160 mm		25	25	
60650	200 mm		1	18	
60654	250 mm		1	12	
60658	315 mm		1		
60660	355 mm		1		



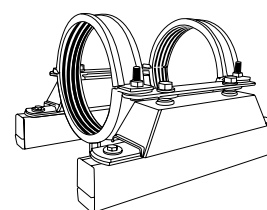
Suitable for sliding and fixed point installation.

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

fusiotherm® - pipe clamps for fixed point installation

for **fusiotherm®**, **climatherm** and **aquatherm lilac** pipes

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
60668	160 mm		1		
60670	200 mm		1		
60674	250 mm		1		
60678	315 mm		1		



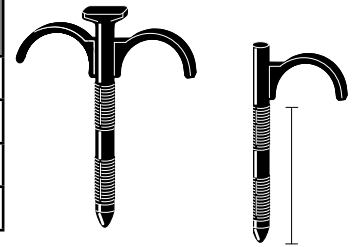
Suitable for fixed point installation.

Accessories and fittings

fusiotherm® - pipe fastening bow

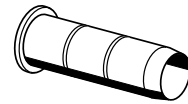
suitable for \varnothing 16 - 32 mm pipes

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
60604	single - length = 45 mm		50	4000	
60606	single - length = 75 mm		50	3000	
60608	double - length = 45 mm		50	2500	
60610	double - length = 75 mm		50	1750	



fusiotherm® - pipe support

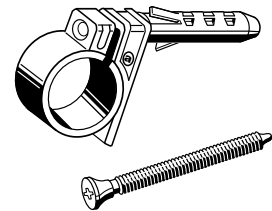
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
85110	for pipes \varnothing 16 x 2,2 mm - \varnothing 11,4 mm		10	600	
10186	for pipes \varnothing 16 x 2,7 mm - \varnothing 10,4 mm		10	500	



fusiotherm® - plastic pipe clamps

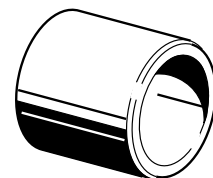
suitable for \varnothing 16 - 32 mm pipes

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
60616	16 mm		50	3000	
60620	20 mm		50	3000	
60625	25 mm		30	1500	
60632	32 mm		30		



fusiotherm® - socket

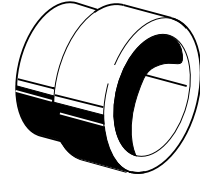
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
11006	16 mm		10	2000	
11008	20 mm		10	2000	
11010	25 mm		10	1000	
11012	32 mm		5	600	
11014	40 mm		5	400	
11016	50 mm		5	200	
11018	63 mm		1	100	
11020	75 mm		1	80	
11022	90 mm		1	50	
11024	110 mm		1	30	
11026	125 mm		1	25	



fusiotherm® - reducing socket

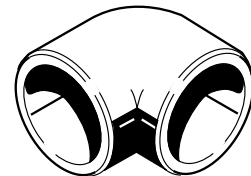
female/female

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
11222	40/32 mm			1	
11228	50/32 mm			1	
11230	50/40 mm			1	
11236	63/40 mm			1	
11238	63/50 mm			1	100
11240	75/50 mm			1	
11242	75/63 mm			1	80
11252	90/63 mm			1	
11253	90/75 mm			1	50
11257	110/75 mm			1	
11259	110/90 mm			1	
11263	125/90 mm			1	
11265	125/110 mm			1	



fusiotherm® - elbow 90°

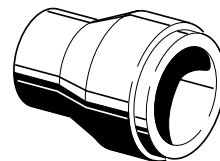
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
12106	16 mm		10	2000	
12108	20 mm		10	1200	
12110	25 mm		10	800	
12112	32 mm		5	400	
12114	40 mm		5	250	
12116	50 mm		5	125	
12118	63 mm		1	75	
12120	75 mm		1	50	
12122	90 mm		1	25	
12124	110 mm		1	15	
12126	125 mm		1	10	
12130	SDR 7,4 - 160 mm		1	8	
12131	SDR 11 - 160 mm		1	8	
12134	SDR 7,4 - 200 mm		1	16	
12135	SDR 11 - 200 mm		1	16	
12138	SDR 7,4 - 250 mm		1	7	
12139	SDR 11 - 250 mm		1	7	
12143	SDR 11 - 315 mm		1		
12145	SDR 11 - 355 mm		1		



Fittings

fusiotherm® - reducer

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
11109	20/16 mm			10	2000
11110	25/16 mm			10	2000
11112	25/20 mm			10	1500
11114	32/20 mm			5	1000
11116	32/25 mm			5	1000
11118	40/20 mm			5	750
11120	40/25 mm			5	600
11122	40/32 mm			5	600
11124	50/20 mm			5	500
11126	50/25 mm			5	500
11128	50/32 mm			5	350
11130	50/40 mm			5	300
11131	63/20 mm			1	200
11132	63/25 mm			1	200
11134	63/32 mm			1	200
11136	63/40 mm			1	200
11138	63/50 mm			1	150
11139	75/40 mm			1	150
11140	75/50 mm			1	100
11142	75/63 mm			1	100
11143	75/20 mm			1	200
11144	75/25 mm			1	200
11145	75/32 mm			1	150
11151	90/50 mm			1	100
11152	90/63 mm			1	75
11153	90/75 mm			1	60
11155	110/63 mm			1	50
11157	110/75 mm			1	50
11159	110/90 mm			1	40
11161	125/75 mm			1	35
11163	125/90 mm			1	35
11165	125/110 mm			1	25
11174	SDR 7,4 - 160/110 mm			1	
11175	SDR 11 - 160/110 mm			1	
11176	SDR 7,4 - 160/125 mm			1	20
11177	SDR 11 - 160/125 mm			1	20
11182	SDR 7,4 - 200/125 mm			1	
11183	SDR 11 - 200/125 mm			1	
11184	SDR 7,4 - 200/160 mm			1	12
11185	SDR 11 - 200/160 mm			1	12
11188	SDR 7,4 - 250/160 mm			1	
11189	SDR 11 - 250/160 mm			1	
11190	SDR 7,4 - 250/200 mm			1	5
11191	SDR 11 - 250/200 mm			1	5
11193	SDR 11 - 315/200 mm			1	
11195	SDR 11 - 315/250 mm			1	
11199	SDR 11 - 355/315 mm			1	

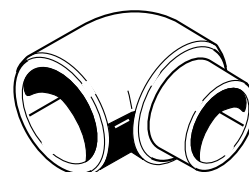


Fittings

fusiotherm® - elbow 90°

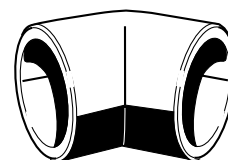
female/male

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
12306	16 mm		10	2000	
12308	20 mm		10	1200	
12310	25 mm		10	800	
12312	32 mm		5	500	
12314	40 mm		5	300	



fusiotherm® - elbow 45°

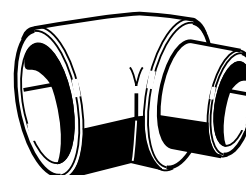
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
12506	16 mm		10	2000	
12508	20 mm		10	1500	
12510	25 mm		10	1000	
12512	32 mm		5	500	
12514	40 mm		5	300	
12516	50 mm		5	150	
12518	63 mm		1	75	
12520	75 mm		1	60	
12522	90 mm		1	30	
12524	110 mm		1	20	
12526	125 mm		1	15	
12530	SDR 7,4 - 160 mm		1	10	
12531	SDR 11 - 160 mm		1	10	
12534	SDR 7,4 - 200 mm		1	2	
12535	SDR 11 - 200 mm		1	2	
12538	SDR 7,4 - 250 mm		1	10	
12539	SDR 11 - 250 mm		1	10	
12543	SDR 11 - 315 mm		1		
12545	SDR 11 - 355 mm		1		



fusiotherm® - elbow 45°

female/male

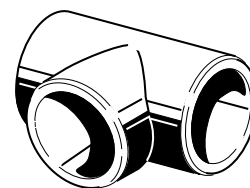
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
12708	20 mm		10	1500	
12710	25 mm		10	1000	
12712	32 mm		5	500	
12714	40 mm		5	300	



Fittings

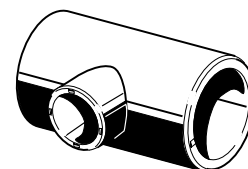
fusiotherm® - T- piece

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
13106	16 mm		10	1500	
13108	20 mm		10	1000	
13110	25 mm		10	500	
13112	32 mm		5	300	
13114	40 mm		5	200	
13116	50 mm		5	100	
13118	63 mm		1	50	
13120	75 mm		1	30	
13122	90 mm		1	25	
13124	110 mm		1	14	
13126	125 mm		1	8	
13130	SDR 7,4 - 160 mm		1	5	
13131	SDR 11 - 160 mm		1	5	
13134	SDR 7,4 - 200 mm		1	2	
13135	SDR 11 - 200 mm		1	2	
13138	SDR 7,4 - 250 mm		1	8	
13139	SDR 11 - 250 mm		1	8	
13143	SDR 11 - 315 mm		1		
13145	SDR 11 - 355 mm		1		



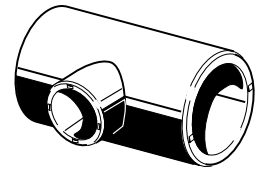
fusiotherm® - red.- T- piece

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
13506	20 x 16 x 16 mm		10	1000	
13508	20 x 16 x 20 mm		10	1000	
13510	20 x 20 x 16 mm		10	1000	
13511	20 x 25 x 20 mm		10	500	
13512	25 x 16 x 16 mm		10	500	
13514	25 x 16 x 20 mm		10	500	
13516	25 x 16 x 25 mm		10	500	
13520	25 x 20 x 20 mm		10	500	
13522	25 x 20 x 25 mm		10	500	
13528	32 x 16 x 32 mm		5	300	
13532	32 x 20 x 20 mm		5	300	
13534	32 x 20 x 32 mm		5	300	
13538	32 x 25 x 25 mm		5	300	
13540	32 x 25 x 32 mm		5	300	
13542	40 x 20 x 40 mm		5	200	
13544	40 x 25 x 40 mm		5	200	
13546	40 x 32 x 40 mm		5	200	
13547	50 x 20 x 50 mm		5	100	
13548	50 x 25 x 50 mm		5	100	
13550	50 x 32 x 50 mm		5	100	
13551	50 x 40 x 50 mm		5	100	
13552	63 x 20 x 63 mm		1	50	



fusiotherm® - red.- T - piece

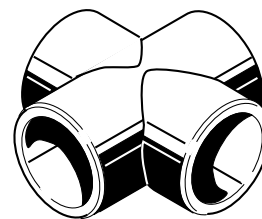
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
13554	63 x 25 x 63 mm		1	50	
13556	63 x 32 x 63 mm		1	50	
13558	63 x 40 x 63 mm		1	50	
13560	63 x 50 x 63 mm		1	50	
13561	75 x 20 x 75 mm		1	35	
13562	75 x 25 x 75 mm		1	35	
13564	75 x 32 x 75 mm		1	35	
13566	75 x 40 x 75 mm		1	35	
13568	75 x 50 x 75 mm		1	35	
13570	75 x 63 x 75 mm		1	35	
13576	90 x 32 x 90 mm		1	25	
13578	90 x 40 x 90 mm		1	25	
13580	90 x 50 x 90 mm		1	25	
13582	90 x 63 x 90 mm		1	25	
13584	90 x 75 x 90 mm		1	25	
13586	110 x 63 x 110 mm		1	15	
13588	110 x 75 x 110 mm		1	15	
13590	110 x 90 x 110 mm		1	15	
13592	125 x 75 x 125 mm		1	8	
13594	125 x 90 x 125 mm		1	8	
13596	125 x 110 x 125 mm		1	8	
13600	SDR 7,4 - 160 x 75 x 160 mm		1	4	
13601	SDR 11 - 160 x 75 x 160 mm		1	4	
13602	SDR 7,4 - 160 x 90 x 160 mm		1	4	
13603	SDR 11 - 160 x 90 x 160 mm		1	4	
13608	SDR 7,4 - 200 x 75 x 200 mm		1	1	
13609	SDR 11 - 200 x 75 x 200 mm		1	1	
13610	SDR 7,4 - 200 x 90 x 200 mm		1	1	
13611	SDR 11 - 200 x 90 x 200 mm		1	1	
13612	SDR 7,4 - 200 x 110 x 200 mm		1	1	
13613	SDR 11 - 200 x 110 x 200 mm		1	1	
13614	SDR 7,4 - 200 x 125 x 200 mm		1	1	
13615	SDR 11 - 200 x 125 x 200 mm		1	1	
13624	SDR 7,4 - 250 x 75 x 250 mm		1	12	
13625	SDR 11 - 250 x 75 x 250 mm		1	12	
13626	SDR 7,4 - 250 x 90 x 250 mm		1	12	
13627	SDR 11 - 250 x 90 x 250 mm		1	12	
13628	SDR 7,4 - 250 x 110 x 250 mm		1	12	
13629	SDR 11 - 250 x 110 x 250 mm		1	12	
13630	SDR 7,4 - 250 x 125 x 250 mm		1	12	
13631	SDR 11 - 250 x 125 x 250 mm		1	12	
13634	SDR 7,4 - 250 x 160 x 250 mm		1		
13635	SDR 11 - 250 x 160 x 250 mm		1		
13640	SDR 7,4 - 250 x 200 x 250 mm		1		
13641	SDR 11 - 250 x 200 x 250 mm		1		
13651	SDR 11 - 315 x 125 x 315 mm		1		
13653	SDR 11 - 315 x 160 x 315 mm		1		
13657	SDR 11 - 315 x 250 x 315 mm		1		



Fittings

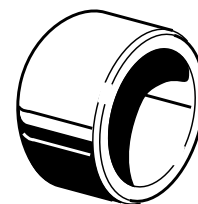
fusiotherm® - cross

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
13708	20 mm		10	500	
13710	25 mm		10	500	
13712	32 mm		5	250	
13714	40 mm		5	150	



fusiotherm® - end cap

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
14106	16 mm		10	2000	
14108	20 mm		10	2000	
14110	25 mm		10	1500	
14112	32 mm		5	1000	
14114	40 mm		5	500	
14116	50 mm		5	300	
14118	63 mm		1	150	
14120	75 mm		1	100	
14122	90 mm		1	75	
14124	110 mm		1	40	
14126	125 mm		1	30	
14130	SDR 7,4 - 160 mm		1	30	
14131	SDR 11 - 160 mm		1	30	
14134	SDR 7,4 - 200 mm		1	24	
14135	SDR 11 - 200 mm		1	24	
14138	SDR 7,4 - 250 mm		1	10	
14139	SDR 11 - 250 mm		1	10	
14143	SDR 11 - 315 mm		1		
14145	SDR 11 - 355 mm		1		



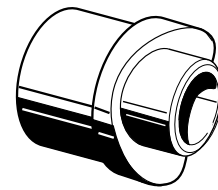
fusiotherm® - cross over fitting

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
16106	16 mm		10	600	
16108	20 mm		10	400	
16110	25 mm		10	250	
16112	32 mm		5	120	



fusiotherm® - weld-in saddle

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
15156	40/20 mm*		5	1000	
15158	40/25 mm*		5	1000	
15160	50/20 mm		5	1000	
15162	50/25 mm		5	1000	
15164	63/20 mm		5	1000	
15166	63/25 mm		5	750	
15168	63/32 mm		5	750	
15170	75/20 mm		5	1000	
15172	75/25 mm		5	750	
15174	75/32 mm		5	750	
15175	75/40 mm		5	400	
15176	90/20 mm		5	1000	
15178	90/25 mm		5	1000	
15180	90/32 mm		5	750	
15181	90/40 mm		5	500	
15182	110/20 mm		5	1000	
15184	110/25 mm		5	1000	
15186	110/32 mm		5	750	
15188	110/40 mm		5	450	
15189	110/50 mm		5	200	
15190	125/20 mm		5	1000	
15192	125/25 mm		5	1000	
15194	125/32 mm		5	750	
15196	125/40 mm		5	450	
15197	125/50 mm		5	200	
15198	125/63 mm		5	125	
15206	160/20 mm		5	700	
15208	160/25 mm		5	700	
15210	160/32 mm		5	500	
15212	160/40 mm		5	300	
15214	160/50 mm		5	200	
15216	160/63 mm		5	120	
15218	160/75 mm		5		
15220	160/90 mm		5		
15228	200-250/20 mm		5	100	
15229	200-250/25 mm		5	100	
15230	200-250/32 mm		5	50	
15231	200/40 mm		5	200	
15232	200/50 mm		5	200	
15233	200/63 mm		5	120	
15234	200/75 mm		5		
15235	200/90 mm		5		
15236	200/110 mm		5		
15237	200/125 mm		5		
15251	250/40 mm		5	30	
15252	250/50 mm		5	30	
15253	250/63 mm		5	120	
15254	250/75 mm		5		
15255	250/90 mm		5		
15256	250/110 mm		5		



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

The necessary welding tools for the **fusiotherm®**-weld-in saddles are described on page 84

Weld-in saddle tools Art.-No. 50614 - 50724

Chamfering tool (only for stabi composite pipes)
Art.-No. 50910, 50912, 50914

fusiotherm®-drill
Art.-No. 50940-50960

climatherm OT-saddle peeling tool
Art.-No. 50921-50928

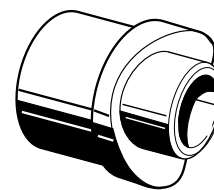
*do not use with climatherm OT pipe

further dimensiones see next page

Fittings

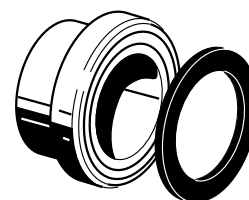
fusiotherm® - weld-in saddle

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
15257	250/125 mm		5		
15260	315/63 mm		1		
15261	315/75 mm		1		
15262	315/90 mm		1		
15263	315/110 mm		1		
15264	315/125 mm		1		
15265	315/160 mm		1		
15268	355/90 mm		1		
15269	355/110 mm		1		
15270	355/125 mm		1		
15271	355/160 mm		1		
15272	355/200 mm		1		



fusiotherm® - flange adapter with gasket

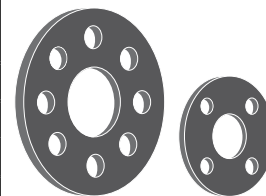
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
15512	32 mm		1	500	
15514	40 mm		1	250	
15516	50 mm		1	200	
15518	63 mm		1	200	
15520	75 mm		1	100	
15522	90 mm		1	60	
15524	110 mm		1	50	
15526	125 mm*		1	16	
15527	125 mm		1	25	
15530	SDR 7,4 - 160 mm		1	16	
15531	SDR 11 - 160 mm		1	16	
15534	SDR 7,4 - 200 mm		1	6	
15535	SDR 11 - 200 mm		1	6	
15538	SDR 7,4 - 250 mm		1	4	
15539	SDR 11 - 250 mm		1	4	
15543	SDR 11 - 315 mm		1		
15545	SDR 11 - 355 mm		1		



*only applicable with fitting

fusiotherm® - plastic coated steel flange

Art.-No.	Dimension	no. of holes	hole circle	Price	Packing unit m/pc	Box unit m/pc	Piece
15712	32 mm for Art.-No. 15512	4	85 mm		1	100	
15714	40 mm for Art.-No. 15514	4	100 mm		1	80	
15716	50 mm for Art.-No. 15516	4	110 mm		1	60	
15718	63 mm for Art.-No. 15518	4	125 mm		1	50	
15720	75 mm for Art.-No. 15520	4	145 mm		1	40	
15722	90 mm for Art.-No. 15522	8	160 mm		1	40	
15724	110 mm for Art.-No. 15524/15526	8	180 mm		1	30	
15726	125 mm for Art.-No. 15527	8	210 mm		1	20	
15730	160 mm for Art.-No. 15530/15531	8	240 mm		1	16	
15734	200 mm for Art.-No. 15534/15535	8	295 mm		1	4	
15738	250 mm for Art.-No. 15538/15539	12	350 mm		1	4	
15742	315 mm for Art.-Nr. 15543	12	400 mm		1		
15744	355 mm for Art.-Nr. 15545	12	460 mm		1		

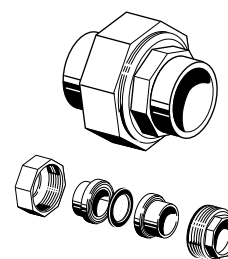


Fittings

fusiotherm® - coupling screw joint

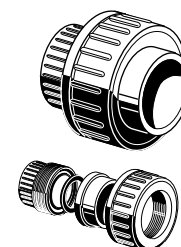
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
15812	32 mm		1	100	
15814	40 mm		1	70	
15816	50 mm		1	50	
15818	63 mm		1	25	
15820	75 mm		1	15	

with 2 flange adapters including gasket



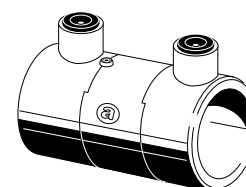
fusiotherm® - PP-plastic screw joint

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
15838	20 mm		10	300	
15840	25 mm		10	250	
15842	32 mm		5	200	
15844	40 mm		5	150	
15846	50 mm		5	100	
15848	63 mm		1	60	
15850	75 mm		1		



fusiotherm® - electrofusion socket

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
17208	20 mm		1	500	
17210	25 mm		1	350	
17212	32 mm		1	300	
17214	40 mm		1	200	
17216	50 mm		1	130	
17218	63 mm		1	75	
17220	75 mm		1	45	
17222	90 mm		1	30	
17224	110 mm		1	22	
17226	125 mm		1	16	
17230	160 mm		1	10	
17234*	200 mm		1		
17238*	250 mm		1		



Tools:

fusiotherm®-electrofusion device (Art.-No. 50175)

fusiotherm®-peeling tool (Art.-No. 50558-50592)

fusiotherm®-double peeling tool (Art.-No. 50507-50525)

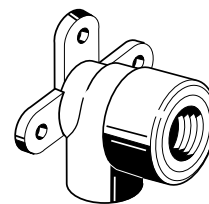
On working with **fusiotherm®**-stabi composite pipes a special peeling tool has to be used.

* calibration-tool necessary for processing on request

Fittings and accessoires

fusiotherm® - back plate elbow

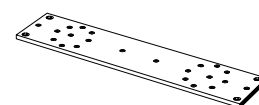
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
20106	16 mm x 1/2" f		10	200	
20108	20 mm x 1/2" f		10	200	
20110	20 mm x 3/4" f		10	150	
20112	25 mm x 3/4" f		10	150	
20113	25 mm x 1/2" f		10	200	



Mounting plate

galvanized; to fix back plate elbows as double connection

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
60010	220/150/80 mm		1	250	

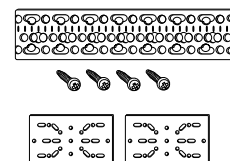


not suitable for connection with sound insulation plate (Art.-No. 79080).
We recommend mounting rail Art.-No. 79090.

Mounting rail

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

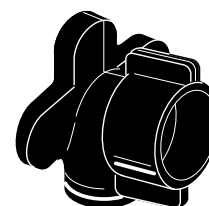
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79090	length = 560 mm		1	100	



fusiotherm® - sound isolation cover

for fusiotherm®-back plate elbow 1/2"

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
20120	Thickness approx. 5 mm		1	60	

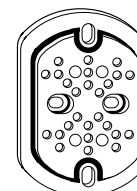


aquatherm® SHT - sound isolation plate

for fusiotherm®- and aquatherm® SHT-back plate elbow

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79080			2	50	

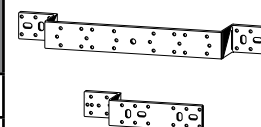
suitable for mounting rail Art.-No. 79090



Mounting rail (double and single)

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79095	double		2	20	
79096	single		2	20	

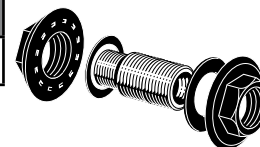
galvanized, for fixing of back plate elbows



Threaded connections and accessories

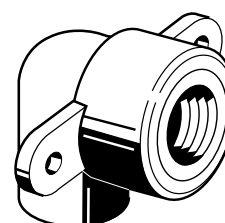
fusiotherm® - dry construction wall fitting

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
20114	1/2"		10	300	



fusiotherm® - back plate elbow for dry construction

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
20156	16 mm x 1/2" f		10	250	
20158	20 mm x 1/2" f		10	200	

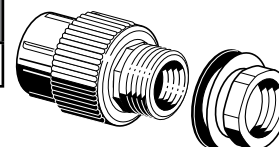


fusiotherm® - transition piece

with conternut, gasket and tension washer

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
20204	20 mm x 1/2" f x 3/4" m		10	200	

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

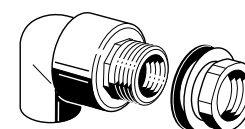


fusiotherm® - transition elbow

with conternut, gasket and tension washer

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
20206	16 mm x 1/2" f x 3/4" m		10	200	
20208	20 mm x 1/2" f x 3/4" m		10	200	
20209	25 mm x 1/2" f x 3/4" m		10	150	

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

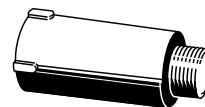


Accessories

fusiotherm® - plug for pressure tests

with gasket

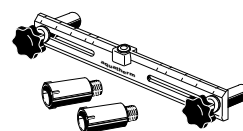
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50708	1/2" m		1	1000	
50710	3/4" m		1	700	



fusiotherm® - assembling jig

as water level with 2 plugs 1/2"

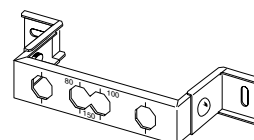
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50700	-		1	75	



fusiotherm® - mounting unit

double

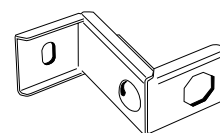
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
60110	80/100/150 mm		1	25	



fusiotherm® - mounting unit

single

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
60115			1	100	



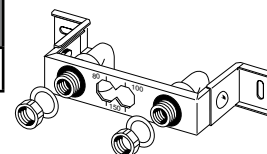
Threaded connections and accessories

fusiotherm® - mounting unit

with two fusiotherm® transition elbows (Art.-No. 20208)

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
60150			1	25	

with conternut, gasket and tension washer

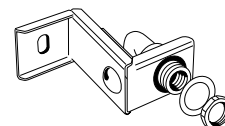


fusiotherm® - mounting unit

with one fusiotherm® transition elbow (Art.-No. 20208)

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
60155			1	80	

with conternut, gasket and tension washer

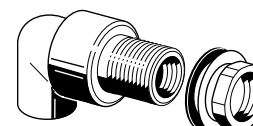


fusiotherm® - transition elbow

for plasterboard

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
20210	20 mm x 1/2" f x 3/4" m		10	200	

with 30 mm thread, conternut, gasket and tension washer

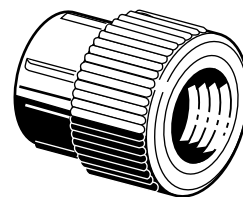


Transition pieces

fusiotherm® - transition elbow with female thread

round

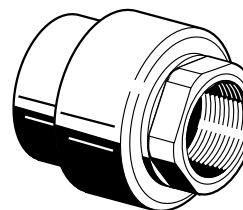
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
21006	16 mm x 1/2" f		10	400	
21008	20 mm x 1/2" f		10	400	
21010	20 mm x 3/4" f		10	300	
21011	25 mm x 1/2" f		10	400	
21012	25 mm x 3/4" f		10	300	
21013	32 mm x 3/4" f		5	200	



fusiotherm® - transition piece with female thread

hex shaped threaded transition

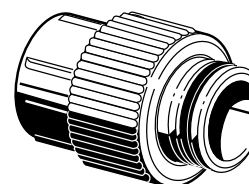
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
21106	16 mm x 1/2" f		10	400	
21108	20 mm x 1/2" f		10	400	
21110	20 mm x 3/4" f		10	300	
21111	25 mm x 1/2" f		10	300	
21112	25 mm x 3/4" f		10	300	
21113	32 mm x 3/4" f		5	150	
21114	32 mm x 1" f		5	150	
21115	40 mm x 1" f		5	125	
21116	40 mm x 1 1/4" f		5	80	
21117	50 mm x 1 1/4" f		5	75	
21118	50 mm x 1 1/2" f		5	60	
21119	63 mm x 1 1/2" f		1	50	
21120	63 mm x 2" f		1	35	
21122	75 mm x 2" f		1	25	



fusiotherm® - transition piece with male thread

round, self sealing

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
21258	20 mm x 1/2" m		10	400	
21261	25 mm x 1/2" m		10	350	
21262	25 mm x 3/4" m		10	350	



Note:

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

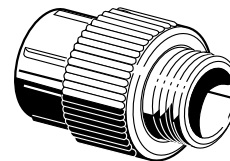
fusiotherm® stainless steel price list Order. No.: E53180 on request!!

Transition pieces

fusiotherm® - transition piece with male thread

round

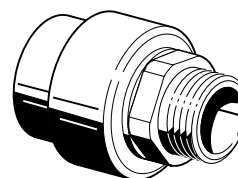
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
21206	16 mm x 1/2" m		10	400	
21208	20 mm x 1/2" m		10	400	
21210	20 mm x 3/4" m		10	300	
21211	25 mm x 1/2" m		10	300	
21212	25 mm x 3/4" m		10	350	
21213	32 mm x 3/4" m		5	200	



fusiotherm® - transition piece with male thread

with hex shaped threaded transition

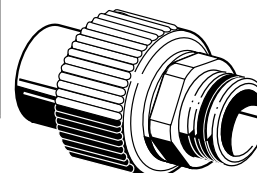
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
21306	16 mm x 1/2" m		10	300	
21308	20 mm x 1/2" m		10	300	
21310	20 mm x 3/4" m		10	300	
21312	25 mm x 3/4" m		10	300	
21314	32 mm x 1" m		5	125	
21316	32 mm x 1 1/4" m		5	100	
21317	40 mm x 1" m		5	100	
21318	40 mm x 1 1/4" m		5	80	
21319	50 mm x 1 1/4" m		5	75	
21320	50 mm x 1 1/2" m		5	60	
21321	63 mm x 1 1/2" m		1	40	
21322	63 mm x 2" m		1	40	
21323	75 mm x 2" m		1	25	
21324	75 mm x 2 1/2" m		1	25	
21325	90 mm x 3" m		1	20	
21327	110 mm x 4" m		1	8	



fusiotherm® - transition piece with male thread

self-sealing, with hex shaped threaded transition

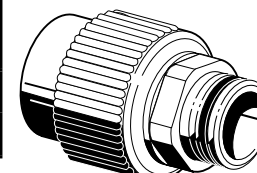
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
21355	20 mm x 1/2" m		10	300	



fusiotherm® - transition piece with male thread

self-sealing, with hex shaped threaded transition

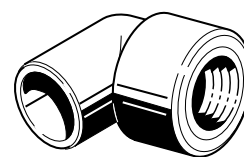
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
21356	16 mm x 1/2" m		10	300	
21358	20 mm x 1/2" m		10	300	



Transition pieces

fusiotherm® - transition elbow with female thread

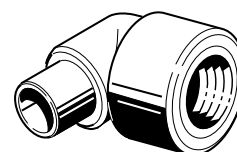
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
23006	16 mm x 1/2" f		10	300	
23008	20 mm x 3/4" f		10	250	
23010	20 mm x 1/2" f		10	300	
23012	25 mm x 3/4" f		10	200	
23014	25 mm x 1/2" f		10	250	
23016	32 mm x 3/4" f		5	150	
23018	32 mm x 1" f		5	100	



fusiotherm® - transition elbow with female thread

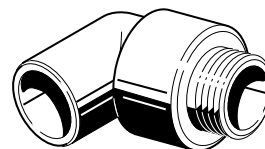
female/male

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
23208	20 mm x 1/2" f		10	350	



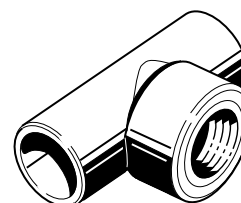
fusiotherm® - transition elbow with male thread

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
23504	16 mm x 1/2" m		10	400	
23506	20 mm x 1/2" m		10	300	
23508	20 mm x 3/4" m		10	200	
23510	25 mm x 3/4" m		10	250	
23512	32 mm x 3/4" m		5	150	
23514	32 mm x 1" m		5	100	



fusiotherm® - threaded branch tee with female thread

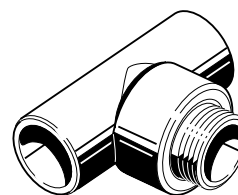
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
25004	16 x 1/2" f x 16 mm		10	250	
25006	20 x 1/2" f x 20 mm		10	250	
25008	20 x 3/4" f x 20 mm		10	170	
25010	25 x 1/2" f x 25 mm		10	200	
25012	25 x 3/4" f x 25 mm		10	150	
25013	32 x 1/2" f x 32 mm		5		
25014	32 x 3/4" f x 32 mm		5	100	
25016	32 x 1" f x 32 mm		5	80	
25022	50 x 1" f x 50 mm		5	40	



Transition pieces

fusiotherm® - threaded branch tee with male thread

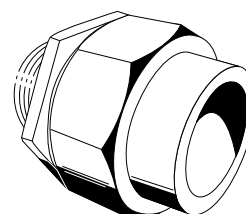
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
25506	20 x 1/2" m x 20 mm		10	200	



fusiotherm® - transition coupling with male thread

with union nut and welding socket

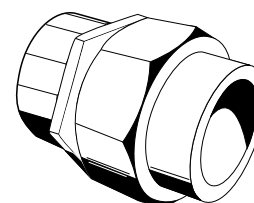
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
26608	20 mm x 1/2" m		1	250	
26610	25 mm x 3/4" m		1	150	
26612	32 mm x 1" m		1	150	
26614	40 mm x 1 1/4" m		1	80	
26616	50 mm x 1 1/2" m		1	60	
26618	63 mm x 2" m		1	35	



fusiotherm® - transition coupling with female thread

with union nut and welding socket

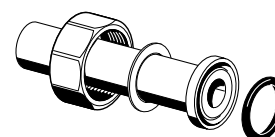
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
26638	20 mm x 1/2" f		1	300	
26640	25 mm x 3/4" f		1	120	
26642	32 mm x 1" f		1	100	
26644	40 mm x 1 1/4" f		1	100	
26646	50 mm x 1 1/2" f		1	60	
26648	63 mm x 2" f		1	50	



fusiotherm® - loose nut adapter

length: 100 mm, with gasket

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
26708	20 mm x nut R 1"		1	150	
26710	25 mm x nut R 1 1/4"		1	125	
26712	32 mm x nut R 1 1/2"		1	100	
26714	40 mm x nut R 2"		1	75	
26716	50 mm x nut R 2 1/4"		1	60	
26718	63 mm x nut R 2 3/4"		1	40	
26720	75 mm x nut R 3 1/2"		1	30	
26722	90 mm x nut R 4"		1	20	



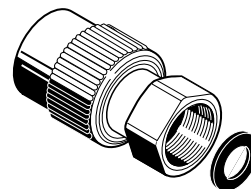
Note: fusiotherm®-metal compound fittings are manufactured from fusiole PP-R and brass. Metal inserts, without hex shaped spanner flat, with 1/2" and 3/4" f are also available in stainless steel. fusiotherm® stainless steel price list Order-. No.: E53180 on request!!

Screwed connections and counter parts

fusiotherm® - water meter nut adapter

with gasket

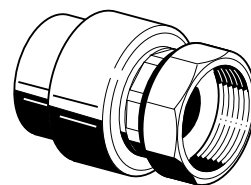
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
26808	20 mm x nut R 3/4"		1	250	
26810	25 mm x nut R 3/4"		1	250	
26812	32 mm x nut R 3/4"		1	200	



fusiotherm® - nut adapter

ISO-standard

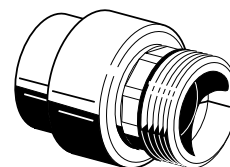
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
27010	20 mm x nut R 1"		10	300	
27011	25 mm x nut R 1"		10	300	
27012	25 mm x nut R 1 1/4"		10	250	
27013	32 mm x nut R 1 1/4"		5	175	
27014	32 mm x nut R 1 1/2"		5	125	
27015	40 mm x nut R 1 1/2"		5	100	
27016	40 mm x nut R 2"		5	70	
27017	50 mm x nut R 2"		5	70	
27018	50 mm x nut R 2 1/4"		5	50	
27019	63 mm x nut R 2 1/4"		1	45	
27020	63 mm x nut R 2 3/4"		1	30	
27021	75 mm x nut R 2 3/4"		1	30	
27022	75 mm x nut R 3 1/2"		1	30	



fusiotherm® - counterpart

with welding socket and male thread for ISO-standard adapter

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
27310	20 mm x 1" m		10	300	
27311	25 mm x 1" m		10	300	
27312	25 mm x 1 1/4" m		10	250	
27313	32 mm x 1 1/4" m		5	175	
27314	32 mm x 1 1/2" m		5	125	
27315	40 mm x 1 1/2" m		5	125	
27316	40 mm x 2" m		5	70	
27317	50 mm x 2" m		5	70	
27318	50 mm x 2 1/4" m		5	50	
27319	63 mm x 2 1/4" m		1	45	
27320	63 mm x 2 3/4" m		1	30	
27321	75 mm x 2 3/4" m		1	30	
27322	75 mm x 3 1/2" m		1	30	

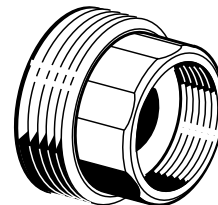


Screwed connections and counter parts

fusiotherm® - brass counterpart

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

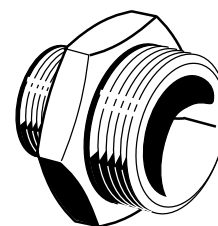
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
27510	1" m x 1/2" f		10	400	
27512	1 1/4" m x 3/4" f		10	200	
27514	1 1/2" m x 1" f		5	125	
27516	2" m x 1 1/4" f		5	75	
27518	2 1/4" m x 1 1/2" f		5	60	
27520	2 3/4" m x 2" f		1	35	
27522	3 1/2" m x 2 1/2" f		1	25	
27524	4" m x 3" f		1	25	



fusiotherm® - brass counterpart

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

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
27710	1" m x 1/2" m		10	250	
27712	1 1/4" m x 3/4" m		10	140	
27714	1 1/2" m x 1" m		5	100	
27716	2" m x 1 1/4" m		5	60	
27718	2 1/4" m x 1 1/2" m		5	50	
27720	2 3/4" m x 2" m		1	25	
27722	3 1/2" m x 2 1/2" m		1	15	
27724	4" m x 3" m		1	10	

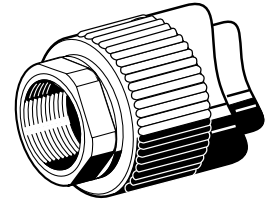


Note: fusiotherm®-metal compound fittings are manufactured from fusiole PP-R and brass.
 Metal inserts, without hex shaped spanner flat, with 1/2" and 3/4" f are also available in stainless steel.
 fusiotherm® stainless steel price list Order- No.: E53180 on request!!

Weld-in saddle

fusiotherm® - weld-in saddle with female thread

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
28214	40/25 mm x 1/2" f*		5	300	
28216	50/25 mm x 1/2" f		5	300	
28218	63/25 mm x 1/2" f		5	300	
28220	75/25 mm x 1/2" f		5	300	
28222	90/25 mm x 1/2" f		5	300	
28224	110/25 mm x 1/2" f		5	300	
28226	125/25 mm x 1/2" f		5	250	
28230	160/25 mm x 1/2" f		5	250	
28232	200-250/25 mm x 1/2" f		5	50	
28234	40/25 mm x 3/4" f*		5	300	
28236	50/25 mm x 3/4" f		5	300	
28238	63/25 mm x 3/4" f		5	300	
28240	75/25 mm x 3/4" f		5	300	
28242	90/25 mm x 3/4" f		5	300	
28244	110/25 mm x 3/4" f		5	300	
28246	125/25 mm x 3/4" f		5	300	
28250	160/25 mm x 3/4" f		5	250	
28254	200-250/25 mm x 3/4" f		5	250	
28260	75/32 mm x 1" f		5	125	
28262	90/32 mm x 1" f		5	125	
28264	110/32 mm x 1" f		5	125	
28266	125/32 mm x 1" f		5	125	
28270	160/32 mm x 1" f		5	125	
28274	200-250/32 mm x 1" f		5	25	



with hex shaped female thread, weld-in surface and weld-in socket for fusion with the inner wall of the pipe.

The necessary tools for the fusion of **fusiotherm®** weld-in saddles are listed on page 84.

Weld-in saddle tools
Art.-No. 50614-50724
Chamfering tools (only for stabi composite pipe)
Art.-No. 50910+50912+50914

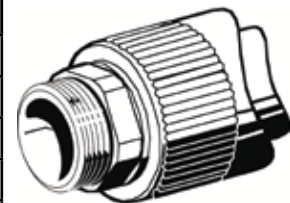
fusiotherm® drill
Art.-No. 50940-50960

climatherm OT-saddle peeling tools Art.-Nr. 50921-50928

*do not use with climatherm OT pipe

fusiotherm® - weld-in saddle with male thread

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
28314	40/25 mm x 1/2" m*		5	300	
28316	50/25 mm x 1/2" m		5	300	
28318	63/25 mm x 1/2" m		5	300	
28320	75/25 mm x 1/2" m		5	300	
28322	90/25 mm x 1/2" m		5	300	
28324	110/25 mm x 1/2" m		5	300	
28326	125/25 mm x 1/2" m		5	300	
28330	160/25 mm x 1/2" m		5	300	
28334	40/25 mm x 3/4" m*		5	250	
28336	50/25 mm x 3/4" m		5	250	
28338	63/25 mm x 3/4" m		5	250	
28340	75/25 mm x 3/4" m		5	250	
28342	90/25 mm x 3/4" m		5	250	
28344	110/25 mm x 3/4" m		5	250	
28346	125/25 mm x 3/4" m		5	250	
28350	160/25 mm x 3/4" m		5	250	



Same as Art.-No. 28214 - 28250, but with male thread

*do not use with climatherm OT pipe

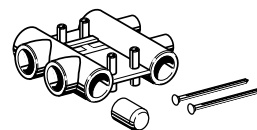
Distributors

fusiotherm® - distribution block plumbing

including 1 plug and 2 fastenings

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
30115	20/25 mm		1	50	

Passage: 25 mm (socket)/ 2 branches: 20 mm (socket)

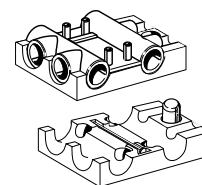


fusiotherm® - distribution block plumbing

with insulation block

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
30130	20/25 mm		1	30	

Like Art.-No. 30115, but with insulation block - height = 70 mm

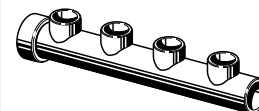


fusiotherm® - four-port manifold

length: 246 mm, with 4 branches

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
30602	32 mm x 16 mm		1	100	
30604	32 mm x 20 mm		1	100	

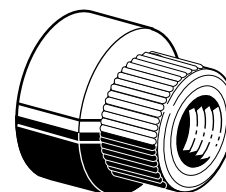
The four-port manifold can be shortened or extended by fusion with further four-port manifolds, if required.



fusiotherm® - manifold end piece with female thread*

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
30804	32 mm x 1/2" f		1	200	

* fusiotherm®- transition piece as manifold endpiece with female thread



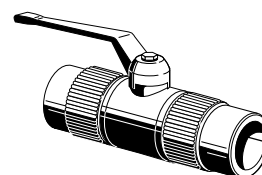
Note: fusiotherm®-metal compound fittings are manufactured from fusiole PP-R and brass. Metal inserts, without hex shaped spanner flat, with 1/2" and 3/4" f are also available in stainless steel. fusiotherm® stainless steel price list Order- No.: E53180 on request!!

Valves and accessories

fusiotherm® - ball valve for manifold

female/male

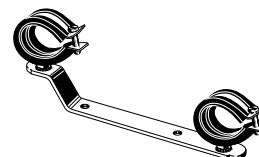
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
78000	32 mm		2	50	



fusiotherm® - supporting strap for four-port manifold

with clamps, galvanized, double

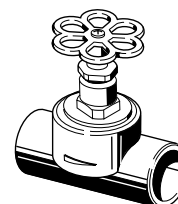
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
60210	for \varnothing 32 mm		2	100	



fusiotherm® - globe valve

for surface installation

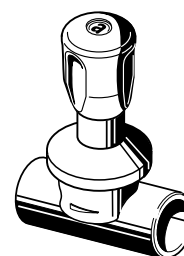
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
40808	20 mm		1	100	
40810	25 mm		1	100	
40812	32 mm		1	60	
40814	40 mm		1	35	



fusiotherm® - concealed valve

chromium plated

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
40858	20 mm		1	40	
40860	25 mm		1	40	
40862	32 mm		1	30	



Valves and accessories

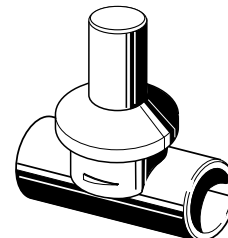
fusiotherm® - concealed valve

tamper proof/ chromium-plated/ short design

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
40868	20 mm		1	50	
40870	25 mm		1	40	
40872	32 mm		1	30	

Art.-No. 40868 + 40870: suitable for construction depth up to 25 mm

Art.-No. 40872: suitable for construction depth up to 30 mm

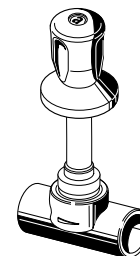


fusiotherm® - concealed valve

chromium-plated

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
40878	20 mm		1	40	
40880	25 mm		1	40	
40882	32 mm		1	20	

suitable for construction depth of 55 mm to 100 mm

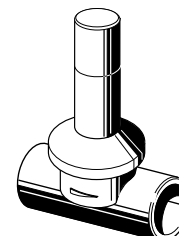


fusiotherm® - concealed valve

tamper proof, chromium-plated

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
40888	20 mm		1	50	
40890	25 mm		1	50	
40892	32 mm		1	40	

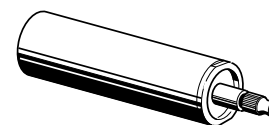
suitable for construction depth up to 60 mm



fusiotherm® - extension for fusiotherm® concealed valve

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

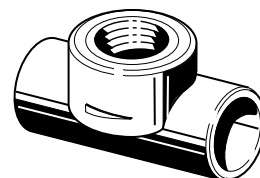
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
40900	length = 92 mm		1	300	
40902	length = 132 mm		1	200	



Valves and accessories

fusiotherm® - stop valve body

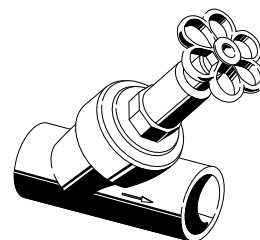
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
40908	20 mm x 3/4" f		1	150	
40910	25 mm x 3/4" f		1	150	
40912	32 mm x 1" f		1	100	
40914	40 mm x 1 1/4" f		1	50	



fusiotherm® - inclined valve

without drain

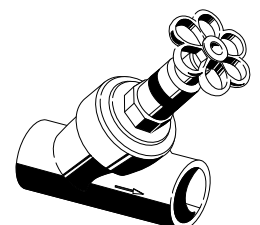
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
41108	20 mm		1	100	
41110	25 mm		1	80	
41112	32 mm		1	50	
41114	40 mm		1	25	



fusiotherm® - non-return valve

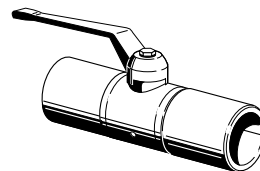
without drain

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
41208	20 mm		1	80	
41210	25 mm		1	80	
41212	32 mm		1	50	
41214	40 mm		1	25	



fusiotherm® - ball valve PP/brass

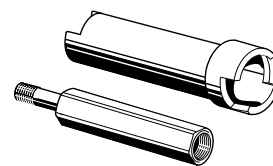
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
41308	20 mm		1	100	
41310	25 mm		1	100	
41312	32 mm		1	60	
41314	40 mm		1	40	
41316	50 mm		1	25	
41318	63 mm		1	15	



Valves and accessories

fusiotherm® - extension for fusiotherm-ball valve

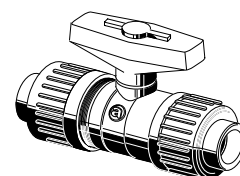
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
41378	for Art.-No. 41308 / 41310 - length = 35 mm		1	100	
41382	for Art.-No. 41312 / 41314 - length = 35 mm		1	100	
41386	for Art.-No. 41316 / 41318 - length = 46 mm		1	75	



fusiotherm® - PP-ball valve

with union nut and welding socket

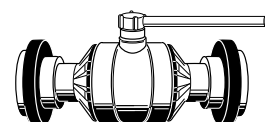
Art.-No.	Dimension	DN	Price	Packing unit m/pc	Box unit m/pc	Piece
41388	20 mm	15		1	200	
41390	25 mm	20		1	120	
41392	32 mm	25		1	80	
41394	40 mm	32		1	55	
41396	50 mm	40		1	45	
41398	63 mm	50		1	25	
41400	75 mm	65		1	4	



fusiotherm® - PP-ball valve

with flange connection on both sides

Art.-No.	Dimension	DN	Price	Packing unit m/pc	Box unit m/pc	Piece
41402	90 mm	80		1	3	
41404	110 mm	100		1	2	
41406	125 mm	100		1	2	
41407	160 mm	125		1	1	

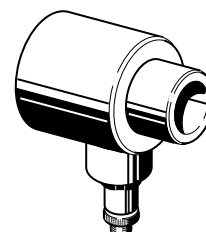


For connection with **fusiotherm®**-weldable flange adapter (Art.-No. 15520-15531) and **fusiotherm®** plastic coated steel flange (Art.-No. 15720-15730)

fusiotherm® - draining branch

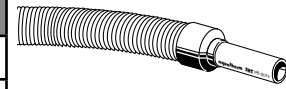
to weld in **fusiotherm®** valves

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
41408	20 mm		1	200	
41410	25 mm		1	200	
41412	32 mm		1	150	
41414	40 mm		1	100	
41416	50 mm		1	40	
41418	63 mm		1	25	



aquatherm® SHT - potable water and radiator connection pipe in corrugated pipe, with oxygen barrier

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
77000	16 x 2,0 mm		100		
77002	20 x 2,0 mm		50		



Material: PB Application field: Potable water/heating
 Colour: grey Continuous working temp.: 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® SHT - potable water and radiator connection pipe with insulation, with oxygen barrier

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
77030	16 x 2,0 mm		50		
77032	20 x 2,0 mm		50		

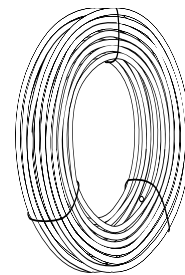


Material: PB Application field: Potable water/heating
 Colour: grey Continuous working temp.: 70°C
 Form supplied: ring DVGW-Registr.-No.: DW-8501 AU2075 (incl. fittings)
 Insulation: 10 mm according to: DIN 4726/4727/16968
 with oxygen barrier by EVOH-coating

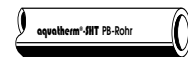


aquatherm® SHT - potable water and radiator connection pipe with oxygen barrier

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
77020	16 x 2,0 mm		100		
77022	20 x 2,0 mm		100		
77024	25 x 2,3 mm		50		
... in length a 4 m					
77040	16 x 2,0 mm		100	7000	



Material: PB Application field: Potable water/heating
 Colour: ecru Continuous working temp.: 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

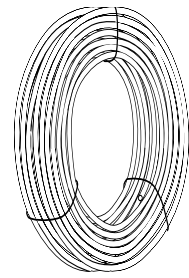


aquatherm® SHT - multi layer metal composite pipe with oxygen barrier

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
77070	16 x 2,4 mm		200		
77072	20 x 2,4 mm		100		
... in length a 4 m					
77050	16 x 2,4 mm		100		
77052	20 x 2,4 mm		100		
77054	25 x 2,7 mm		100		
77056	32 x 3,2 mm		40		
77058	40 x 3,5 mm		40		

Material: PEX Application field: Potable water/heating
 Colour: white Continous working temp.: 70°C
 Form supplied: ring/straight lengths DVGW-Registr.-No.: DW-8217 AT2505
 according to: DIN 4726 oxygen barrier

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

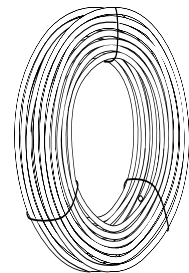


aquatherm® SHT - multi layer metal composite pipe with compact insulation cover and oxygen barrier

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
77140	16 mm - insulation 10 mm		50		
77142	16 mm - insulation 20 mm		50		
77144	20 mm - insulation 10 mm		50		
77146	20 mm - insulation 20 mm		50		

Material: PEX Application field: Potable water/heating
 Colour: white Continous working temp.: 70°C
 Form supplied: ring DVGW-Registr.-No.: DW-8217 AT2505
 according to: DIN 4726 oxygen barrier
 Insulation value acc. to: DIN and ENEC

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



aquatherm® SHT - radiator connection pipe PE-RT

with insulation, with oxygen barrier

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
77130	16 x 2,0 mm		50		
77132	20 x 2,0 mm		50		

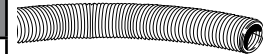


Material: PE-RT
 Colour: red
 Form supplied: ring
 Insulation: grey, 10 mm

Application field: Potable water/heating
 Continuous working temp.: 70°C
 according to: DIN 4721/4726/16833
 with oxygen barrier by EVOH-coating

aquatherm® SHT - corrugated pipe

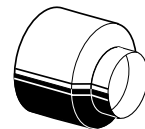
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
77010	for pipe 16 mm		100		
77012	for pipe 20 mm		50		



Material: PE
 Colour: green
 Form supplied: ring

aquatherm® SHT - end sleeve for corrugated pipe

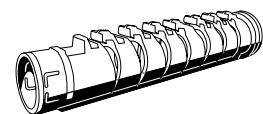
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
77080	for corrugated pipe 16 mm - Art.77010 - red		50	2500	
77082	for corrugated pipe 20 mm - Art.77012 - red		50	2500	
77090	for corrugated pipe 16 mm - Art.77010 - blue		50	2500	
77092	for corrugated pipe 20 mm - Art.77012 - blue		50	2500	



Material: PE
 Colour: red/blue

aquatherm® SHT - snap in radius support

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79566	for pipes 16 & 17 mm		25	325	
79568	for pipe 20 mm		20	200	



Material: PE
 Colour: black

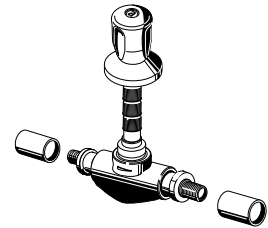
Armature connections and accessories

aquatherm® SHT - concealed stop valve

including sliding sleeve

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79858	20 mm		1	8	

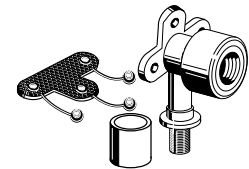
suitable for construction depth from 55 mm - 100 mm



aquatherm® SHT - back plate elbow

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79000	16 mm x 1/2" f		2	150	
79002	20 mm x 3/4" f		2	100	
79004	20 mm x 1/2" f		2	150	
79006	25 mm x 3/4" f		2	60	

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

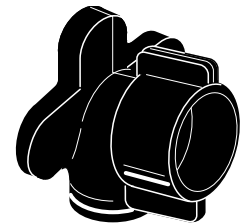


aquatherm® SHT - insulation cover

for Art.-No. 79000 - 79006

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79008	Thickness = 5 mm		2	100	

Material: PE

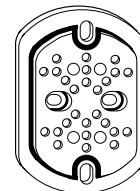


aquatherm® SHT - sound isolation plate

for fusiotherm®- and aquatherm® SHT concealed back plate elbow

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79080			2	50	

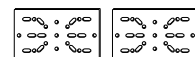
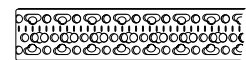
suitable with the mounting rail Art.-No. 79090



Mounting rail

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79090	length= 560 mm		1	100	

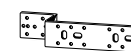
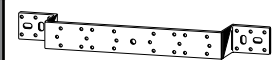
galvanized, for assembly of back plate elbow, including 2 fixing plates and 4 screws



Mounting rail (twin and single)

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79095	twin		2	20	
79096	single		2	20	

galvanized, for fixing of back plate elbows

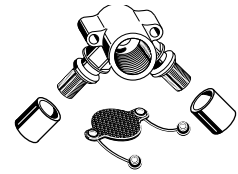


Armature connections and fittings

aquatherm® SHT - back plate elbow, twin including sliding sleeves

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79010	16 mm x 1/2" f		1	60	

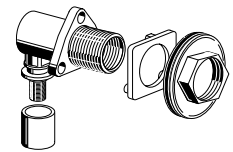
Material: brass
including acoustic panel (PP)



aquatherm® SHT - connecting elbow for concealed cistern including sliding sleeve

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79020	16 mm x 1/2" f x 3/4" length: 15 mm		1	70	

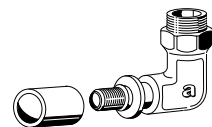
Material: brass
including counternut, gasket and spring washer



aquatherm® SHT - transition elbow including sliding sleeve

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79030	16 mm x 1/2" m		2	60	
79032	20 mm x 1/2" m		2	50	
79033	20 mm x 3/4" m		2	50	
79034	25 mm x 3/4" m		2	50	
79036	32 mm x 3/4" m		2	40	
79038	32 mm x 1" m		2	25	
79039	40 mm x 1 1/4" m		1		

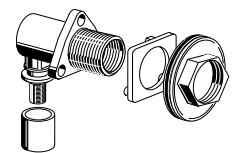
Material: brass



aquatherm® SHT - connecting elbow for dry construction, including sliding sleeve

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79040	16 mm x 1/2" f x 3/4" m, length: 30 mm		2	25	

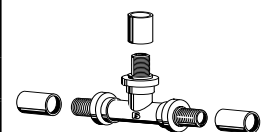
Material: brass
including counternut, gasket and 2 spring washers



aquatherm® SHT - tee including sliding sleeves

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79100	16 mm		2	200	
79102	20 mm		2	200	
79104	25 mm		2	120	
79106	32 mm		2	70	
79108	40 mm		2		

Material: PPSU/brass



Fittings

aquatherm® SHT - reducing tee including sliding sleeve

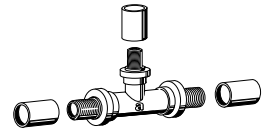
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79110	16 x 20 x 16 mm		2	200	
79112	20 x 16 x 16 mm		2	200	
79114	20 x 16 x 20 mm		2	200	
79116	20 x 20 x 16 mm		2	200	
79118	25 x 20 x 25 mm		2	150	
79120	25 x 20 x 20 mm		2	150	
79122	25 x 20 x 16 mm		2	150	
79123	25 x 16 x 25 mm		2	120	
79124	25 x 16 x 20 mm		2	120	
79126	20 x 25 x 20 mm		2	120	
79128	20 x 32 x 20 mm		1	100	
79130	25 x 32 x 25 mm		1	100	
79132	32 x 16 x 32 mm		1	70	
79134	32 x 20 x 20 mm		1	70	
79136	32 x 20 x 32 mm		1	70	
79138	32 x 25 x 25 mm		1	70	
79140	32 x 25 x 32 mm		1	70	
79142	32 x 32 x 20 mm		1	70	
79144	32 x 32 x 25 mm		1	70	
79146	32 x 16 x 25 mm		1	70	
79148	32 x 25 x 20 mm		1	70	
79150	32 x 20 x 25 mm		1	70	
79152	32 x 16 x 20 mm		1	70	
79156	40 x 25 x 40 mm		1		
79158	40 x 25 x 40 mm		1		
79159	40 x 32 x 40 mm		1		

Material: PPSU/brass

aquatherm® SHT - tee with female thread including sliding sleeve

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79160	16 x 1/2" f x 16 mm		2	50	
79162	20 x 1/2" f x 20 mm		2	40	
79163	25 x 1/2" f x 25 mm		2		
79164	25 x 3/4" f x 25 mm		2	30	
79165	32 x 1/2" f x 32 mm		1		
79166	32 x 3/4" f x 32 mm		1	20	
79168	40 x 1" f x 40 mm		1		

Material: brass

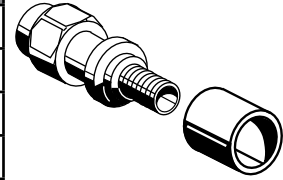


Fittings

aquatherm® SHT - transition piece with female thread, including sliding sleeve

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79182	16 mm x 1/2" f		2	100	
79184	20 mm x 1/2" f		2	70	
79186	20 mm x 3/4" f		2	50	
79188	25 mm x 3/4" f		2	50	
79190	32 mm x 3/4" f		2	40	
79192	32 mm x 1" f		2	30	
79194	40 mm x 1 1/4" IG		1		

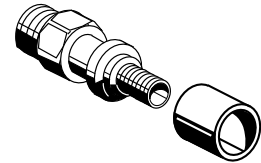
Material: brass



aquatherm® SHT - transition piece with male thread, including sliding sleeve

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79200	16 mm x 1/2" m		2	100	
79202	20 mm x 1/2" m		2	80	
79203	20 mm x 3/4" m		2	70	
79204	25 mm x 3/4" m		2	50	
79205	25 mm x 1/2" m		2	50	
79206	32 mm x 3/4" m		2	40	
79208	32 mm x 1" m		2	30	
79207	40 mm x 1 1/4" AG		1		

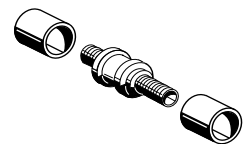
material: brass



aquatherm® SHT - coupling including sliding sleeves

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79209	14 mm		2	100	
79210	16 mm		2	100	
79212	20 mm		2	80	
79214	25 mm		2	50	
79216	32 mm		2	25	
79218	40 mm		1		

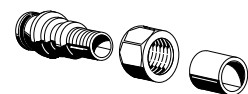
Material: brass



aquatherm® SHT - euroconus adapter including sliding sleeve

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79220	16 mm x nut 3/4"		2	50	
79222	20 mm x nut 3/4"		2	50	

Material: brass
for customary manifolds/joints

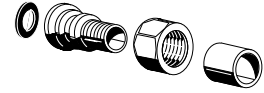


Fittings

aquatherm® SHT - transition screw joint including sliding sleeve and gasket

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79230	16 mm x nut 3/4"		2	70	
79232	20 mm x nut 1"		2	50	
79240	20 mm x nut 3/4"		2	50	
79242	25 mm x nut 1"		1	40	
79244	32 mm x nut 1 1/4"		1	30	
79246	40 mm x nut 1 1/2"		1		

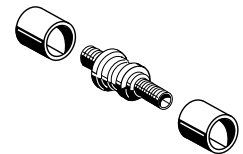
Material: brass



aquatherm® SHT - reducing coupling including sliding sleeve

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79250	20/16 mm		2	60	
79252	25/20 mm		2	50	
79254	25/16 mm		2	50	
79256	32/25 mm		1	40	
79258	32/20 mm		1	40	
79260	32/16 mm		1	40	
79268	40/32 mm		1		

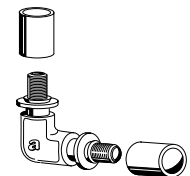
Material: brass



aquatherm® SHT - elbow 90° including sliding sleeve

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79300	16 mm		2	70	
79302	20 mm		2	50	
79304	25 mm		2	30	
79306	32 mm		1	25	
79308	40 mm		1		

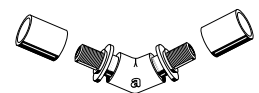
Material: PPSU/brass



aquatherm® SHT - elbow 45° including sliding sleeve

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79322	20 mm		2	50	
79324	25 mm		2	40	
79326	32 mm		2	20	
79328	40 mm		1		

Material: PPSU/brass

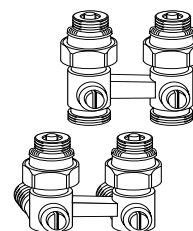


Radiator valves and compression fittings

aquatherm® SHT - radiator valve

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79606	Passage 3/4" euroconus		1	30	
79608	Corner form 3/4" euroconus		1	30	

Material: brass

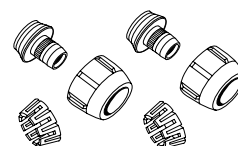


aquatherm® SHT - compression fitting

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79610	for ø 16 mm plastic pipe		2	80	
79612	for ø 16 mm 16 mm metal composite pipe		2	80	

Material: brass

Please use these compression fittings in conjunction with the multi layer metal composite pipes ONLY with the suitable expanding tool Art.-No. 50866.



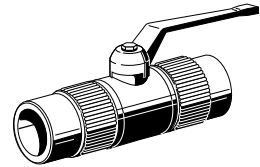
Manifolds and accessories

aquatherm® SHT - ball valve for SHT manifold

female/male

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
78000	32 mm f/m		2	50	

Material: PP-R/brass



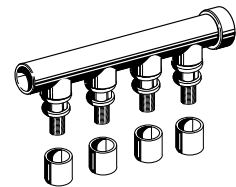
aquatherm® SHT - four-port manifold

4 branches with sliding sleeve connection including sliding sleeves

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
78003	Ø 32 mm - 4 branches 16 x 2,0 mm		2	50	

Material: PP-R/brass

Colour: green



aquatherm® SHT - four-port manifold

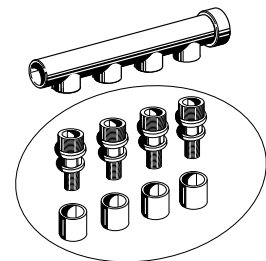
4 branches

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
78004	Ø 32 mm - 4 branches f 18 x 1,5 mm for screwed insert		2	50	

Material: PP-R/brass

Colour: green

Sliding sleeve connections have to be ordered separately

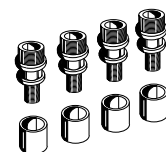


aquatherm® SHT - sliding sleeve connections

for manifold branches including sliding sleeves

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
78010	screwed insert m 18 x 1,5 mm with sliding sleeve connection 16 x 2,0 mm		4	160	
78012	screwed insert m 18 x 1,5 mm with sliding sleeve connection 20 x 2,0 mm		4	120	

Material: brass

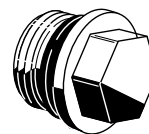


aquatherm® SHT - blind plug

for manifold branches

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
78020	18 x 1,5 mm		1	250	

Material: brass



aquatherm® SHT - end cap

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
14112	32 mm		1	1000	

Material: PP-R

Colour: green



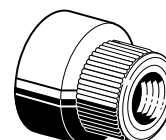
aquatherm® SHT - manifold end piece with female thread*

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
30804	32 mm x 1/2" f		1	200	

Material: PP-R/brass

Colour: green

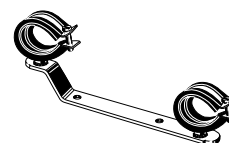
*aquatherm® SHT- transition piece as manifold endpiece with female thread



Supporting strap for four-port manifold

with clamps, galvanized, double

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
60210	for ø 32 mm		2	100	



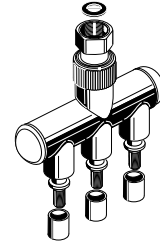
Universal manifolds

aquatherm® SHT - universal manifold triple

with water meter connecting union including sliding sleeves

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
78050	nut G 3/4" triple (16 mm)		1	10	
78051	nut G 1" triple (16 mm)		1	10	

Material: PP-R/brass
Colour:green

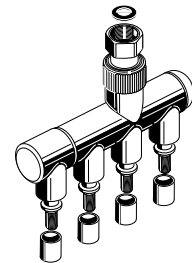


aquatherm® SHT - universal manifold fourfold

with water meter connecting union including sliding sleeves

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
78052	nut G 3/4" fourfold (16 mm)		1	10	
78053	nut G 1" fourfold (16 mm)		1	8	

Material: PP-R/brass
Colour:green

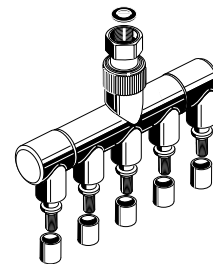


aquatherm® SHT - universal manifold fivefold

with water meter connecting union including sliding sleeves

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
78054	nut G 3/4" fivefold (16 mm)		1	8	

Material: PP-R/brass
Colour:green

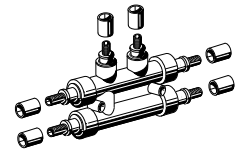


Manifolds and accessories

aquatherm® SHT - distribution block

with sliding sleeve connection including sliding sleeves

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
78200	20/16/20 mm		1	10	
78201	20/20/16 mm		1	10	
78202	20/16/16 mm		1	10	
78204	16/20/16 mm		1	10	
78206	16/16/16 mm		1	10	
78208	20/20/20 mm		1	10	



* applicable as distribution end block,
including 2 end plugs

Material: PP-R/brass

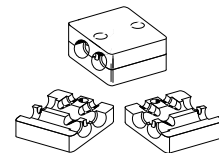
Colour green

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

Insulation for the aquatherm® SHT distribution block

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
78220	height: 50 mm		1	15	

Material: PPO/PS

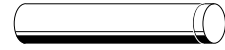


Accessories

aquatherm® SHT - end piece for manifold and distribution blocks

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
78228	16 mm - length = 100 mm		2	100	

Material: PB

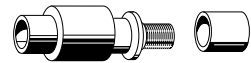


aquatherm® SHT - adapter to fuiotherm®-fittings including sliding sleeve

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
78320*	fuiotherm® 16 mm x SHT 16 mm		4	2	
78298	fuiotherm® 20 mm x SHT 14 mm		2		
78300	fuiotherm® 20 mm x SHT 16 mm		2	80	
78302	fuiotherm® 20 mm x SHT 20 mm		2	60	
78304	fuiotherm® 25 mm x SHT 20 mm		2	60	
78306	fuiotherm® 25 mm x SHT 25 mm		2	40	
78308	fuiotherm® 32 mm x SHT 25 mm		1	40	
78310	fuiotherm® 32 mm x SHT 32 mm		1	20	
78312	fuiotherm® 40 mm x SHT 32 mm		1	20	

*to fuiotherm® pipes

Material: PP-R/brass

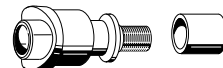


aquatherm® SHT - weld-in saddle adapter including sliding sleeve

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
78402	fuiotherm® 40 mm x SHT 16 mm		2	60	
78404	fuiotherm® 40 mm x SHT 20 mm		2	50	
78406	fuiotherm® 50 mm x SHT 16 mm		2	50	
78408	fuiotherm® 50 mm x SHT 20 mm		2	50	
78410	fuiotherm® 63 mm x SHT 16 mm		2	50	
78412	fuiotherm® 63 mm x SHT 20 mm		2	50	

one side for saddle welding - one side for sliding sleeve connection

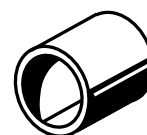
Material: PP-R/brass



aquatherm® SHT - spare sliding sleeve

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79990	16 mm		10	400	
79992	20 mm		10	300	
79994	25 mm		10	200	
79996	32 mm		10	100	
79998	40 mm		10		

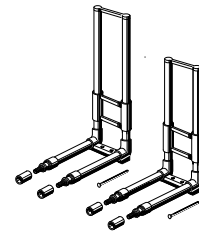
Material: brass



Radiator connection elements

aquatherm® SHT - connecting bend*...

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79500	SHT-pipe connection and radiator connection 16 x 2,0 mm height= 340 mm length = 200 mm		1	40	
79510	SHT-pipe connection and radiator connection 16 x 2,0 mm height= 200 mm length = 200 mm		1	50	



with sliding sleeve connection including sliding sleeves and one fastening plug

Pipe spacing: 50 mm

Material: PP-R/brass

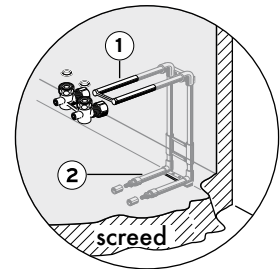
Colour: white

... for radiator connections coming out of the wall

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

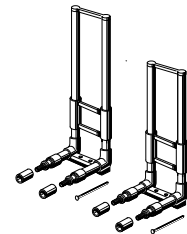
1. Art.-No.: 85120

2. Art.-No.: 79500



aquatherm® SHT - connecting bend*...

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79502	SHT-pipe connection and radiator connection 16 x 2,0 mm height= 340 mm length = 45 mm		1	50	
79512	SHT-pipe connection and radiator connection 16 x 2,0 mm height= 200 mm length = 45 mm		1	75	



with sliding sleeve connection including sliding sleeves and one fastening plug

Pipe spacing: 50 mm

Material: PP-R/brass

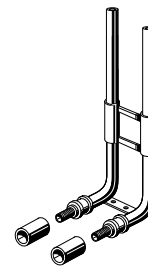
Colour: white

Radiator connection elements

aquatherm® SHT - metal connecting bend

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79532	SHT-pipe connection 16 x 2,0 mm radiator connection 15 x 1,0 mm height = 350 mm length = 65 mm		1	20	

with sliding sleeve connection including sliding sleeves. Pipe spacing: 50 mm
Material: copper nickel-plated



aquatherm® SHT - radiator-T-connecting set

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79534	SHT-pipe connection 16 x 2,0 mm radiator connection 15 x 1,0 mm height = 350 mm		1	20	
79536	SHT-pipe connection 20 x 2,0 mm radiator connection 15 x 1,0 mm height = 350 mm		1	15	

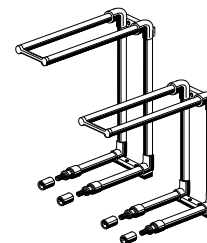
with sliding sleeve connections including sliding sleeves
Material: copper nickel-plated



aquatherm® SHT - radiator connecting set

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79540	SHT-pipe connection and radiator connection 16 x 2,0 mm height= 260 mm length = 200 mm		1	20	
79542	SHT-pipe connection and radiator connection 16 x 2,0 mm height= 180 mm length = 200 mm		1	25	

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



aquatherm® SHT - double rosette, retractable

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
79550	for Ø up to 17,5 mm		5	400	

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

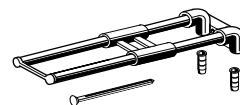


Radiator connection

aquatherm® - connecting bend

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
85119	16 mm		1	50	

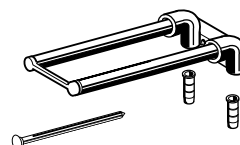
Length: 350 mm
Including 2 sliding sleeves (Ø 11,7 mm) and 1 fastening plug
Material: PP-R
Colour: white
Connection with two 16 mm welding tools (Art.-No. 50206)
Suitable distances for fixing at the welding device (Art.-No. 50337) are available



aquatherm® - connecting bend

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
85120	16 mm		1	100	

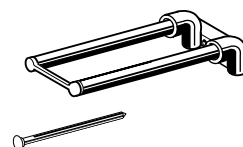
Length: 200 mm
Including 2 sliding sleeves (Ø 11,7 mm) and 1 fastening plug
Material: PP-R
Colour: white
Connection with two 16 mm welding tools (Art.-No. 50206)
Suitable distances for fixing at the welding device (Art.-No. 50337) are available



aquatherm® - connecting bend

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
85121	16 mm		1	100	

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

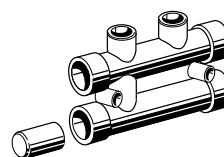


aquatherm® - distribution block

for skirting or floor installation

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
85123	20/16 mm		1	15	

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



Radiator connection

aquatherm® - red-nipple

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
85115	1/2" m x 3/4" m		2	120	

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



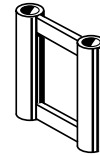
aquatherm® - protection sleeve

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
85125	for Ø 16+17 mm		10	60	

for protection of connection pipes of vertical radiator connection (from the floor) made of PP-R

- Colour: green

Pipe spacing: 50 mm



aquatherm® - radiator connection set

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
83006	16 mm with nut G 3/4"		1	25	

consisting of:

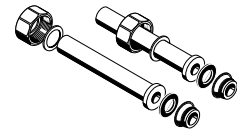
2 connection pieces (L: 120 mm) made of PP-R, Colour: white

2 metal tension rings

2 nuts, chromium plated

2 adaptors, chromium plated

2 gaskets



aquatherm® - radiator connection piece

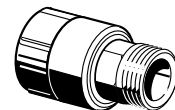
with hex shaped threaded connection

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
83306	16 mm x 1/2" m		10	100	

Material: PP-R

brass thread

Colour: white



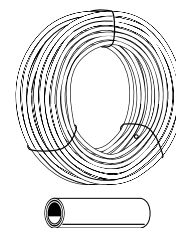
Pipe material wall heating

aquatherm® - surface heating pipe (PB)

with oxygen barrier acc. to DIN

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
90300	10 x 1,25 mm		250		

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

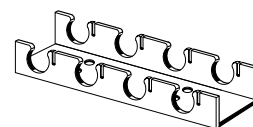


aquatherm® - profile rail

for wall and surface heating

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
90512	for pipe ø 10 mm		2	32	

Material: polyamide

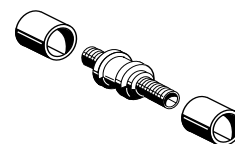


aquatherm® - coupling

for wall and surface heating

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
95500	10 mm		1	100	

Material: polyamide

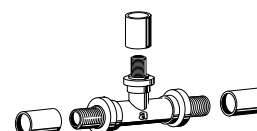


aquatherm® - reducer tee

including sliding sleeve

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
95502	16 x 10 x 10 mm		1	60	
95504	16 x 10 x 16 mm		1	50	

Material: PPSU

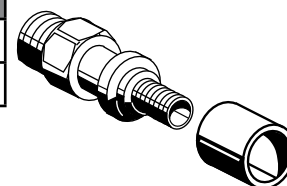


aquatherm® - transition piece, male

including sliding sleeve

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
95510	10 x 1,25 mm x 3/8"		1	100	
95512	10 x 1,25 mm x 1/2"		1	100	

Material: brass



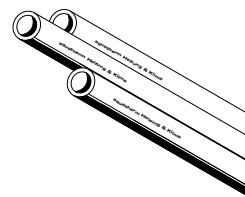
Manifolds, compression fittings and control technique from page 64.

Pipes and fittings

climasytem - PP-grid connection pipe

with oxygen barrier, in 2,5 m lengths

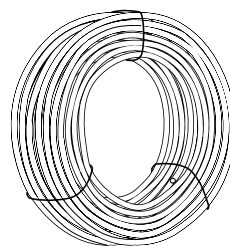
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
81006	16 mm		50	8000	
81008	20 mm		50	5000	



climasytem - PP-grid connection pipe

with oxygen barrier, in ring

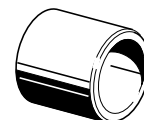
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
81026	16 mm		100		
81028	20 mm		100		



climasytem - socket

for heating and cooling grids

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
81050	16 mm		10	300	



climasytem - elbow 90°

for heating and cooling grids

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
81060	16 mm		10	300	



climasytem - end cap

for heating and cooling grids

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
81080	16 mm		10	400	



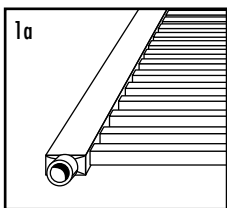
climasytem - elbow 90°

male/female

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
81065	16 mm		10	300	



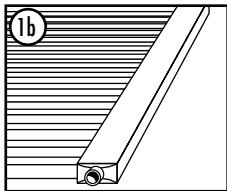
Types of connection climasystem - heating and cooling grids



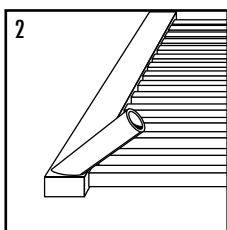
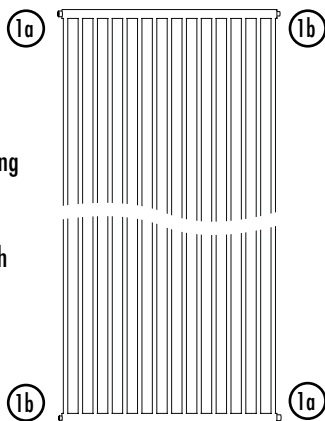
1. Wall heating grids with axial connection.

Art.-No. starting with **50**

a. Type of joining: socket for welding of 16 mm pipes or for welding with nozzle 1b of another grid

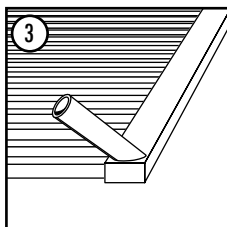
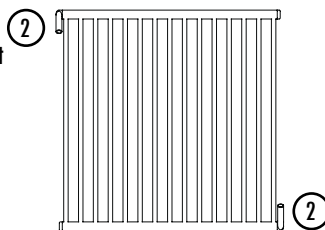


b. Type of joining: nozzle vor welding with end cap or directly with socket 1a of another grid



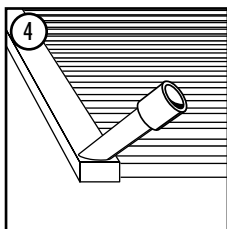
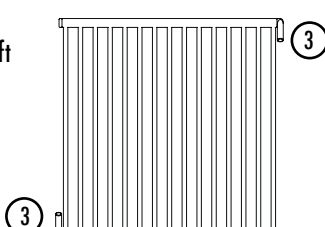
2. Ceiling cooling and heating grid for suspended metal ceiling panels with 45° plug connection top left and down right

Art.-No. starting with **51**



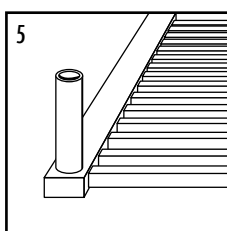
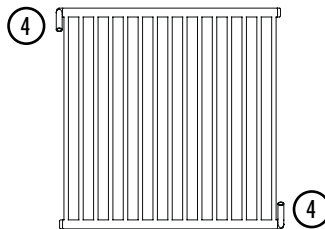
3. Ceiling cooling and heating grid for suspended metal ceiling panels with 45° plug connection top right and down left

Art.-No. starting with **57**



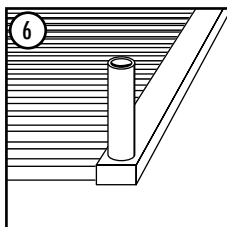
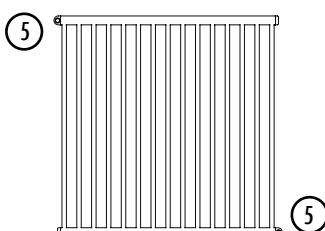
4. Ceiling cooling and heating grid for dryceiling construction with 45° plug connection top left and down right

Art.-No. starting with **59**



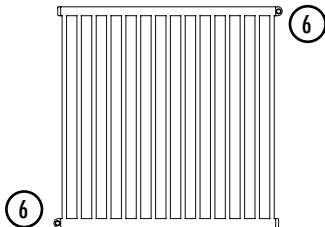
5. Ceiling cooling and heating grid for suspended metal ceiling panels with 90° plug connection top left and down right

Art.-No. starting with **52**



6. Ceiling cooling and heating grid for suspended metal ceiling panels with 90° plug connection top right and down left

Art.-No. starting with **53**



Structure of the new article-numbers e. g. 5024150 = Wall heating grid, axial, 24 cm wide, 150 cm long

Type of connection	Width	Length
50	24	150
1. 50 = wall heating grid AX 51 = ceiling cooling and heating 45° connection TL 57 = ceiling cooling and heating 45° connection TR 59 = ceiling cooling and heating 45° connection TL 52 = ceiling cooling and heating 90° connection TL 53 = ceiling cooling and heating 90° connection TR	2. Width of grid	3. Length of grid

Heating and cooling grids

climasytem - heating and cooling grids

with oxygen barrier, with lateral welding connection (including proportionate number of wall brackets, fixing rails and fixing clamps with plugs)

Art.-No.	Width/m	Length/m	Area/m ²	Price	Packing unit m/pc	Box unit m/pc	Piece
5024050	0,24	0,50	0,12				
5024060	0,24	0,60	0,14				
5024070	0,24	0,70	0,17				
5024080	0,24	0,80	0,19				
5024090	0,24	0,90	0,22				
5024100	0,24	1,00	0,24				
5024120	0,24	1,20	0,29				
5024140	0,24	1,40	0,34				
5024160	0,24	1,60	0,38				
5024180	0,24	1,80	0,43				
5024200	0,24	2,00	0,48				
5024225	0,24	2,25	0,54				
5024250	0,24	2,50	0,60				
5024275	0,24	2,75	0,66				
5024300	0,24	3,00	0,72				
5024325	0,24	3,25	0,78				
5024350	0,24	3,50	0,84				
5024375	0,24	3,75	0,90				
5024400	0,24	4,00	0,96				
5024425	0,24	4,25	1,02				
5024450	0,24	4,50	1,08				
5024475	0,24	4,75	1,14				
5024500	0,24	5,00	1,20				
5028050	0,28	0,50	0,14				
5028060	0,28	0,60	0,17				
5028070	0,28	0,70	0,20				
5028080	0,28	0,80	0,22				
5028090	0,28	0,90	0,25				
5028100	0,28	1,00	0,28				
5028120	0,28	1,20	0,34				
5028140	0,28	1,40	0,39				
5028160	0,28	1,60	0,45				
5028180	0,28	1,80	0,50				
5028200	0,28	2,00	0,56				
5028225	0,28	2,25	0,63				
5028250	0,28	2,50	0,70				
5028275	0,28	2,75	0,77				
5028300	0,28	3,00	0,84				
5028325	0,28	3,25	0,91				
5028350	0,28	3,50	0,98				
5028375	0,28	3,75	1,05				
5028400	0,28	4,00	1,12				
5028425	0,28	4,25	1,19				
5028450	0,28	4,50	1,26				
5028475	0,28	4,75	1,33				
5028500	0,28	5,00	1,40				
5032050	0,32	0,50	0,16				
5032060	0,32	0,60	0,19				



Attention:

As mentioned on page 54, 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. „51“...).

Special size on request

Heating and cooling grids

climasystem - heating and cooling grids

with oxygen barrier, with lateral welding connection (including proportionate number of wall brackets, fixing rails and fixing clamps with plugs)

Art.-No.	Width/m	Length/m	Area/m ²	Price	Packing unit m/pc	Box unit m/pc	Piece
5032065	0,32	0,65	0,20				
5032070	0,32	0,70	0,22				
5032080	0,32	0,80	0,26				
5032090	0,32	0,90	0,29				
5032100	0,32	1,00	0,32				
5032120	0,32	1,20	0,38				
5032140	0,32	1,40	0,45				
5032150	0,32	1,50	0,48				
5032160	0,32	1,60	0,51				
5032180	0,32	1,80	0,58				
5032200	0,32	2,00	0,64				
5032225	0,32	2,25	0,72				
5032250	0,32	2,50	0,80				
5032275	0,32	2,75	0,88				
5032300	0,32	3,00	0,96				
5032325	0,32	3,25	1,04				
5032350	0,32	3,50	1,12				
5032375	0,32	3,75	1,20				
5032400	0,32	4,00	1,28				
5032425	0,32	4,25	1,36				
5032450	0,32	4,50	1,44				
5032475	0,32	4,75	1,52				
5032500	0,32	5,00	1,60				
5036050	0,36	0,50	0,18				
5036060	0,36	0,60	0,22				
5036070	0,36	0,70	0,25				
5036078	0,36	0,78	0,28				
5036080	0,36	0,80	0,29				
5036081	0,36	0,81	0,29				
5036090	0,36	0,90	0,32				
5036100	0,36	1,00	0,36				
5036120	0,36	1,20	0,43				
5036140	0,36	1,40	0,50				
5036150	0,36	1,50	0,54				
5036180	0,36	1,80	0,65				
5036200	0,36	2,00	0,72				
5036225	0,36	2,25	0,81				
5036250	0,36	2,50	0,90				
5036275	0,36	2,75	0,99				
5036300	0,36	3,00	1,08				
5036325	0,36	3,25	1,17				
5036350	0,36	3,50	1,26				
5036375	0,36	3,75	1,35				
5036400	0,36	4,00	1,44				
5036425	0,36	4,25	1,53				
5036450	0,36	4,50	1,62				
5036475	0,36	4,75	1,71				
5036500	0,36	5,00	1,80				



Attention:

As mentioned on page 54, 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. „51“ ...).

Special size on request

Heating and cooling grids

climasytem - heating and cooling grids

with oxygen barrier, with lateral welding connection (including proportionate number of wall brackets, fixing rails and fixing clamps with plugs)

Art.-No.	Width/m	Length/m	Area/m ²	Price	Packing unit m/pc	Box unit m/pc	Piece
5040050	0,40	0,50	0,20				
5040060	0,40	0,60	0,24				
5040070	0,40	0,70	0,28				
5040080	0,40	0,80	0,32				
5040090	0,40	0,90	0,36				
5040100	0,40	1,00	0,40				
5040120	0,40	1,20	0,48				
5040140	0,40	1,40	0,56				
5040160	0,40	1,60	0,64				
5040180	0,40	1,80	0,72				
5040200	0,40	2,00	0,80				
5040225	0,40	2,25	0,90				
5040250	0,40	2,50	1,00				
5040275	0,40	2,75	1,10				
5040300	0,40	3,00	1,20				
5040325	0,40	3,25	1,30				
5040350	0,40	3,50	1,40				
5040375	0,40	3,75	1,50				
5040400	0,40	4,00	1,60				
5040425	0,40	4,25	1,70				
5040450	0,40	4,50	1,80				
5040475	0,40	4,75	1,90				
5040500	0,40	5,00	2,00				
5048050	0,48	0,50	0,24				
5048060	0,48	0,60	0,29				
5048070	0,48	0,70	0,34				
5048080	0,48	0,80	0,38				
5048090	0,48	0,90	0,43				
5048100	0,48	1,00	0,48				
5048120	0,48	1,20	0,58				
5048140	0,48	1,40	0,67				
5048160	0,48	1,60	0,77				
5048180	0,48	1,80	0,86				
5048200	0,48	2,00	0,96				
5048225	0,48	2,25	1,08				
5048250	0,48	2,50	1,20				
5048275	0,48	2,75	1,32				
5048300	0,48	3,00	1,44				
5048325	0,48	3,25	1,56				
5048350	0,48	3,50	1,68				
5048375	0,48	3,75	1,80				
5048400	0,48	4,00	1,92				
5048425	0,48	4,25	2,04				
5048450	0,48	4,50	2,16				
5048475	0,48	4,75	2,28				
5048500	0,48	5,00	2,40				
5056050	0,56	0,50	0,28				
5056060	0,56	0,60	0,34				



Attention:

As mentioned on page 54, 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. „51“...).

Special size on request

Heating and cooling grids

climasystem - heating and cooling grids

with oxygen barrier, with lateral welding connection (including proportionate number of wall brackets, fixing rails and fixing clamps with plugs)

Art.-No.	Width/m	Length/m	Area/m ²	Price	Packing unit m/pc	Box unit m/pc	Piece
5056070	0,56	0,70	0,39				
5056080	0,56	0,80	0,45				
5056090	0,56	0,90	0,50				
5056100	0,56	1,00	0,56				
5056120	0,56	1,20	0,67				
5056140	0,56	1,40	0,78				
5056160	0,56	1,60	0,90				
5056180	0,56	1,80	1,01				
5056200	0,56	2,00	1,12				
5056225	0,56	2,25	1,26				
5056250	0,56	2,50	1,40				
5056275	0,56	2,75	1,54				
5056300	0,56	3,00	1,68				
5056325	0,56	3,25	1,82				
5056350	0,56	3,50	1,96				
5056375	0,56	3,75	2,10				
5056400	0,56	4,00	2,24				
5056425	0,56	4,25	2,38				
5056450	0,56	4,50	2,52				
5056475	0,56	4,75	2,66				
5056500	0,56	5,00	2,80				
5060050	0,60	0,50	0,30				
5060060	0,60	0,60	0,36				
5060070	0,60	0,70	0,42				
5060080	0,60	0,80	0,48				
5060090	0,60	0,90	0,54				
5060100	0,60	1,00	0,60				
5060120	0,60	1,20	0,72				
5060140	0,60	1,40	0,84				
5060160	0,60	1,60	0,96				
5060180	0,60	1,80	1,08				
5060200	0,60	2,00	1,20				
5060225	0,60	2,25	1,35				
5060250	0,60	2,50	1,50				
5060275	0,60	2,75	1,65				
5060300	0,60	3,00	1,80				
5060325	0,60	3,25	1,95				
5060350	0,60	3,50	2,10				
5060375	0,60	3,75	2,25				
5060400	0,60	4,00	2,40				
5060425	0,60	4,25	2,55				
5060450	0,60	4,50	2,70				
5060475	0,60	4,75	2,85				
5060500	0,60	5,00	3,00				
5068050	0,68	0,50	0,34				
5068060	0,68	0,60	0,41				
5068070	0,68	0,70	0,48				
5068080	0,68	0,80	0,54				



Attention:

As mentioned on page 54, 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. „51“ ...).

Special size on request

Heating and cooling grids

climasytem - heating and cooling grids

with oxygen barrier, with lateral welding connection (including proportionate number of wall brackets, fixing rails and fixing clamps with plugs)

Art.-No.	Width/m	Length/m	Area/m ²	Price	Packing unit m/pc	Box unit m/pc	Piece
5068090	0,68	0,90	0,61				
5068100	0,68	1,00	0,68				
5068120	0,68	1,20	0,82				
5068140	0,68	1,40	0,95				
5068160	0,68	1,60	1,09				
5068180	0,68	1,80	1,22				
5068200	0,68	2,00	1,36				
5068225	0,68	2,25	1,53				
5068250	0,68	2,50	1,70				
5068275	0,68	2,75	1,87				
5068300	0,68	3,00	2,04				
5068325	0,68	3,25	2,21				
5068350	0,68	3,50	2,38				
5068375	0,68	3,75	2,55				
5068400	0,68	4,00	2,72				
5068425	0,68	4,25	2,89				
5068450	0,68	4,50	3,06				
5068475	0,68	4,75	3,23				
5068500	0,68	5,00	3,40				
5080050	0,80	0,50	0,40				
5080060	0,80	0,60	0,48				
5080070	0,80	0,70	0,56				
5080080	0,80	0,80	0,64				
5080090	0,80	0,90	0,72				
5080100	0,80	1,00	0,80				
5080120	0,80	1,20	0,96				
5080140	0,80	1,40	1,12				
5080160	0,80	1,60	1,28				
5080180	0,80	1,80	1,44				
5080200	0,80	2,00	1,60				
5080225	0,80	2,25	1,80				
5080250	0,80	2,50	2,00				
5080275	0,80	2,75	2,20				
5080300	0,80	3,00	2,40				
5080325	0,80	3,25	2,60				
5080350	0,80	3,50	2,80				
5080375	0,80	3,75	3,00				
5080400	0,80	4,00	3,20				
5080425	0,80	4,25	3,40				
5080450	0,80	4,50	3,60				
5080475	0,80	4,75	3,80				
5080500	0,80	5,00	4,00				
5000050	1,00	0,50	0,50				
5000060	1,00	0,60	0,60				
5000070	1,00	0,70	0,70				
5000080	1,00	0,80	0,80				
5000090	1,00	0,90	0,90				
5000100	1,00	1,00	1,00				



Attention:

As mentioned on page 54, 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. „51“...).

Special size on request

Grids and dry wall panels

climasystem - heating and cooling grids

with oxygen barrier, with lateral welding connection (including proportionate number of wall brackets, fixing rails and fixing clamps with plugs)

Art.-No.	Width/m	Length/m	Area/m ²	Price	Packing unit m/pc	Box unit m/pc	Piece
5000120	1,00	1,20	1,20				
5000140	1,00	1,40	1,40				
5000160	1,00	1,60	1,60				
5000180	1,00	1,80	1,80				
5000200	1,00	2,00	2,00				
5000225	1,00	2,25	2,25				
5000250	1,00	2,50	2,50				
5000275	1,00	2,75	2,75				
5000300	1,00	3,00	3,00				
5000325	1,00	3,25	3,25				
5000350	1,00	3,50	3,50				
5000375	1,00	3,75	3,75				
5000400	1,00	4,00	4,00				
5000425	1,00	4,25	4,25				
5000450	1,00	4,50	4,50				
5000475	1,00	4,75	4,75				
5000500	1,00	5,00	5,00				



Attention:

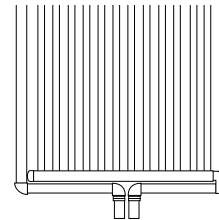
As mentioned on page 54, all grids are available in the mentioned connection types at same prices. Simply replace the first two figures of the article number („50“...) with those of the required type of connection (i. e. „51“....).

climasystem - dry wall heating element

oxygen-tight, with pipe nozzle for welding connection

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
5662050	62,5 x 50 cm		2		
5662100	62,5 x 100 cm		2		
5662200	62,5 x 200 cm		2		

Connection: PP-R 16 mm, weldable



climasystem - corrugated connecting pipe

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

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
81044	59,5 cm		1		

with twosided 90° elbow

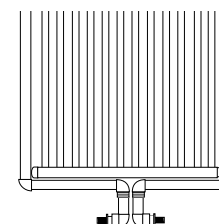


climasystem - dry wall heating element

oxygen tight, with SHT connection

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
5663050	62,5 x 50 cm		2		
5663100	62,5 x 100 cm		2		
5663200	62,5 x 200 cm		2		

Connection: SHT- sliding sleeve technology



Accessories and grids

climasystem - joint adhesive

for climasystem - dry wall heating element

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
81003			1		

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

climasystem - fixing rail

for heating and cooling grids

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
81506	length = 24 cm		10		



climasystem - wall bracket

for heating and cooling grids

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
81296			10		



climasystem - fixing clamp with wall plug

for wall and ceiling installation

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
81298			10		



climasystem - heating and cooling grid for ceiling panels

with oxygen barrier, with plug connection on side

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
5161061	for ceiling panels 62,5 x 62,5 cm		10	10	
5157058	for ceiling panels 60 x 60 cm		10	10	

Special size on request!



climasystem - corrugated connecting pipe

with oxygen barrier, in ring

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
81039			50	50	



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

climasystem - Thermography film

placed at the wall for indicating the position of the pipe by colour changing.

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50186	160 x 70 mm		1		

Accessories

climasystem - corrugated connecting pipe

with oxygen barrier, for Art.-No. 5161061 and 5157058

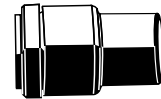
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
81040	length= 57 cm double sided push-fit connection		10		
81041	length = 57 cm, one-sided push-fit connection, one sided SHT 16 mm		10		
81042	length = 57 cm, one sided push-fit connection, one sided PP-R 16 mm, weldable		10		



climasystem - connector

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

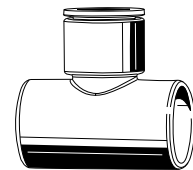
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
81288	16 mm		10	10	



climasystem - T-adapter

passage PP-R weldable / branch 16 mm plugable

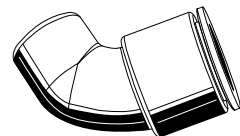
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
81289	25 x 16 x 25 mm		10		



climasystem - 90° elbow-adapter

onesided plugable / onesided PP-R 16 mm weldable

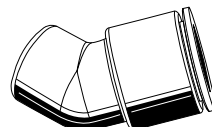
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
81290	16 mm		10		



climasystem - 45° elbow-adapter

onesided plugable / onesided PP-R 16 mm weldable

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
81291	16 mm		10		



climasystem - sealing plug

for wall and ceiling grids

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
81091	12 mm		10	1200	

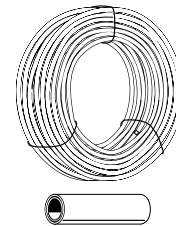


Welding tools for sealing plug Art.-No. 50285 see tools

aquatherm® - surface heating and radiator connecting pipe (PE-RT) with oxygen barrier according to DIN

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
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		

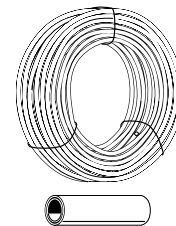
Material: PE-RT with EVOH coating
oxygen barrier according to DIN 4721/4726/16833
Colour: red



aquatherm® - surface heating and radiator connecting pipe (PB) with oxygen barrier according to DIN

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
90306	16 x 2,0 mm		250		
90316	16 x 2,0 mm		500		
90307	17 x 2,0 mm		250		
90317	17 x 2,0 mm		500		

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

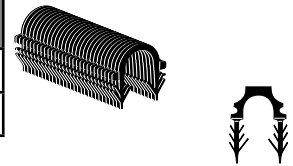


Accessories

aquatherm® - pipe clip

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
90502	for pipes ø 14 - 17 mm		100	5000	
90504	for pipes ø 14 - 20 mm tacker		500	5000	

for **aquatherm®**- underfloor heating pipes
Material: polyamide

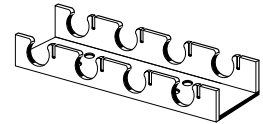


aquatherm® - profile rail

for wall heating, surface heating and industrial heating

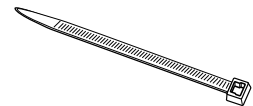
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
90512	for pipes ø 10 mm - self-adhesive		2	32	
90515	for pipes ø 14 mm - self-adhesive		2	32	
90517	for pipes ø 16 mm - self-adhesive		2	32	
90518	for pipes ø 20 mm		2	32	
90520	for pipes ø 25 mm		2	32	

Material: polyamide



aquatherm® - cable tie

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
99086	length: 200 mm		100	2000	

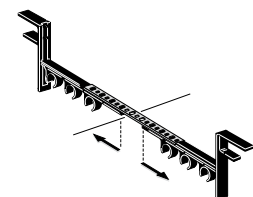


aquatherm® - pipe guiding rail

for surface flexible sports floor, adjustable in length and height

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
90510	for pipes Ø 20 mm		150	100	

Material: polyamide

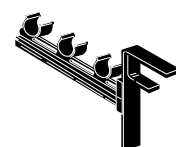


aquatherm® - end rail

for surface flexible sports floor, adjustable in height

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
90511	for pipes Ø 20 mm		20	300	

Material: polyamide



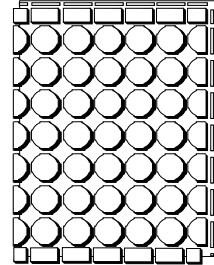
System elements

aquatherm® - system element 25 for surface heating

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
91039	L = 1005 mm, W = 750mm, H = 25 mm		17 m ²	2	

Material: EPS-DEO dh - WLG 035

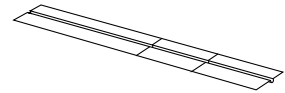
- Pipe spacing 125 mm resp. 250 mm for surface heating pipes 14 mm
 - Pipe requirement = 8 m/m² with pipe spacing of 125 mm
 - Pipe requirement = 4 m/m² with pipe spacing of 250 mm
- RλB Dä = 0,714 m² K/W



aquatherm® - heat conducting steel sheet for installation into system element TS 25

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
91041	L = 750 mm, W = 120 mm		50		

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



aquatherm® - system element knob plate F ND 11 with deep-drawing foil

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
91112	L = 1000 mm, W = 1000 mm, H = 11 mm		20 m ²		

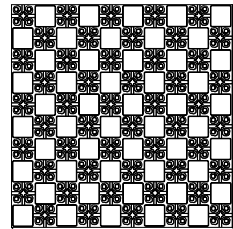
Material: EPS-035-DEO dh

- Knob spacing: 50 mm for installation without pipe clips
- sound insulation

RλB Dä = 0,31 m² K/W

Insulation thickness: = 11 mm

Total thickness including knobs = 30 mm



aquatherm® - system element knob plate F ND 30-2 with deep-drawing foil

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
91115	L = 1000 mm, W = 1000 mm, H = 30-2 mm		10 m ²	2	

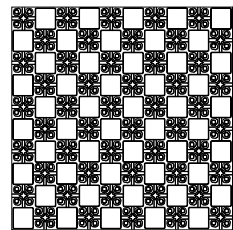
Material: EPS-040-DES sg

- Knob spacing: 50 mm for installation without pipe clips
- sound insulation

RλB Dä = 0,75 m² K/W

Insulation thickness: = 30 mm

Total thickness including knobs = 49 mm



System elements, accessories

aquatherm® - system element valufix-roll 30-2

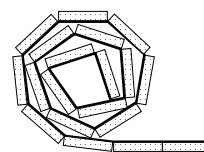
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
91033	L = 10000 mm, W = 1000 mm, H = 30 mm		10 m ²		

Material: EPS-040-DES sg

with:

- cloth-lined covering layer, protected against corrosion
- imprinted screen for placing
- impact sound insulation

R_{λB} D_ä = 0,75 m² K/W



aquatherm® - system element valufix-roll 35-3

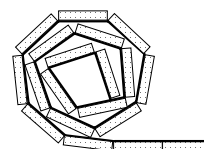
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
91035	L = 1000 mm, W = 1000 mm, H = 35 mm		10 m ²		

Material: EPS-045-DES sm

with:

- cloth-lined covering layer, protected against corrosion
- imprinted screen for placing
- impact sound insulation

R_{λB} D_ä = 0,75 m² K/W



aquatherm® - system element valutherm

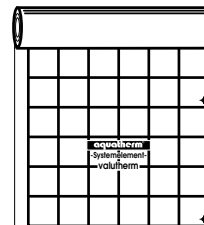
with deep-drawing foil

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
91010	W = 1080 mm		50 m ²	2	

System element consisting of:

- mutual corrosion protection layer
- imprinted screen for placing
- cloth-lined covering layer (acc.to DIN 18560 with min. 80 mm overlap)

For placing of heat and sound insulating plates on-site (hardly flammable) made of polystyrene EPS/DEO/DES



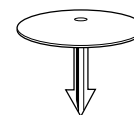
aquatherm® - plastic nail

for fixing of the system element valutherm aluminium grid foil

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
91102			50		

Material: polyamide

Requirement: 2 Pcs/m²

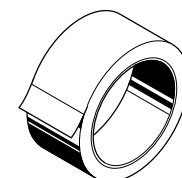


aquatherm® - adhesive tape

for sealing of joint gaps in system elements

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
91104	L = 66 m		1		

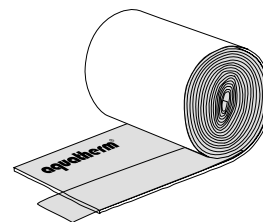
Requirement 1m/m²



aquatherm® - edge insulation

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
91106	height = 160 mm, thickness = 8 mm		25		

- Material: PE- foam
 - very low flammability
 - with covering foil including self-adhesive strip
 - perforated tear-off strip



aquatherm® - expansion joint section set

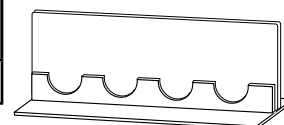
double-sided overlay

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
91107	height= 100 mm, thickness= 8 mm		20		

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®** corrugated pipe (Art.-No. 91111) to protect the connecting pipe in the area of screed moving joint.

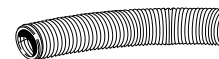


aquatherm® - protection pipe for expansion joint section

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

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
91111	for pipe ø 14 - 17 mm		10		

Note: Protection pipe can also be used for passage through a stud frame with dry-lined walls.
 Material: PE



aquatherm® - special floor mix

for thin-layer cement screeds

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
91108	Consumption per m ² 0,15 kg		10 kg		

for increasing the screed density

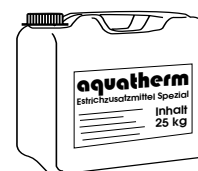


aquatherm® - special floor mix

for thin-layer cement screeds

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
91110	Consumption per m ² 1,45 kg		25 kg		

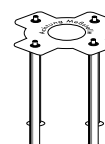
Screed-pipe covering: 30 mm



aquatherm® - screed measuring point

for marking the measuring points in the screed

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
91109			1	20	



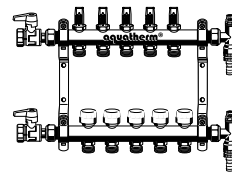
Heating circuit manifolds, threaded connections

aquatherm® - heating circuit manifold with flow meter

with ball valve and end piece set

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
92112	2 circuits, length = 295 mm		1		
92113	3 circuits, length = 350 mm		1		
92114	4 circuits, length = 405 mm		1		
92115	5 circuits, length = 460 mm		1		
92116	6 circuits, length = 515 mm		1		
92117	7 circuits, length = 570 mm		1		
92118	8 circuits, length = 625 mm		1		
92119	9 circuits, length = 680 mm		1		
92120	10 circuits, length = 735 mm		1		
92121	11 circuits, length = 790 mm		1		
92122	12 circuits, length = 845 mm		1		

NEW
now in stainless steel



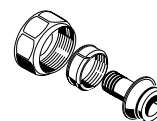
made of high quality stainless steel, with

- flat packing connection
 - end pieces with thread
 - filling and ventilation valves
 - adjustment and stop valve in return with manual control cap and upper part of a thermostat
 - galvanized, sound insulated consoles
 - ball valves 1" with flat packing connection
- Screw joints have to be ordered separately

aquatherm® - Euroconus connector

for heating circuit manifold, valves/couplings

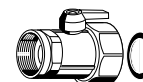
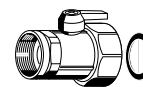
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
92100	for pipe ø 10 x 1,25 mm		5	250	
92104	for pipe ø 14 x 2,0 mm		5	200	
92106	for pipe ø 16 x 2,0 mm		5	200	
92107	for pipe ø 17 x 2,0 mm		5	200	
92108	for pipe ø 20 x 2,0 mm		5	200	



Valves and accessories

aquatherm® - ball valve set with threaded connection and gasket

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
92326	1" x 1" straight		1	20	



aquatherm® - connection set with elbow

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
92328	1" x 1"		Set (2 St)	20	

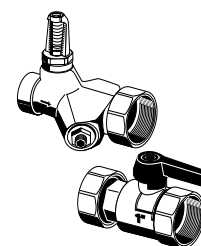
for vertical connection of ball valves



aquatherm® - line control valve set for manifold

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
92329	1"		1		

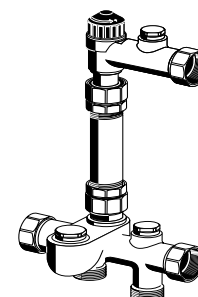
For restriction of flow rate respectively for hydraulic balancing of manifolds



aquatherm® - universal-flow meter add-on kit with elbow

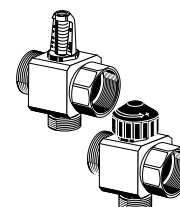
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
92210	1"		1		

for mounting to aquatherm®-manifold



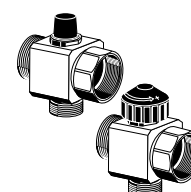
aquatherm® - heating circuit manifold extension set 1-fold for flow and return with flow meter

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
92067	1"		1		



aquatherm® - heating circuit manifold extension set 1-fold for flow and return without flow meter

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
92084	1"		1		

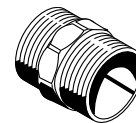


Valves and accessories

aquatherm® - heating pipe coupling adapter

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
95210	with euroconus		5	200	

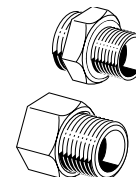
Suitable euroconus connector Art.-No.: 92100-92108



aquatherm® - heating pipe screw connection adapter

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
95212	Adapter for 1/2" f euroconus		5	150	
95214	Adapter for 1/2" m euroconus		5	150	

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

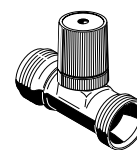


aquatherm® - heating circuit control valve flow

with manual control cap and upper part of thermostat

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
95310	1/2" m		1	40	

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

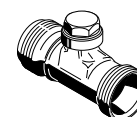


aquatherm® - return control valve

lockable

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
95410	1/2" m		1	40	

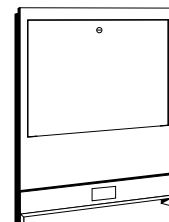
Suitable euroconus connector Art.-No.: 92100-92108



Manifold cabinets

aquatherm® - universal manifold cabinet

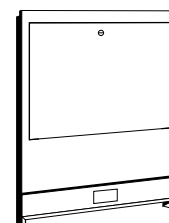
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
93102	UP1, size 1 for 2 - 3 circuits, height = 700 - 850 mm, width = 400 mm, depth = 110 - 150 mm		1		
93104	UP2, size 2 for 4 - 6 circuits, height = 700 - 850 mm, width = 550 mm, depth = 110 - 150 mm		1		
93106	UP3, size 3 for 7 - 10 circuits, 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 cir- cuits with eat distribution station, height = 700 - 850 mm, width = 1150 mm, depth = 110 - 150 mm		1		



- for concealed installation with:
- 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® - universal-manifold cabinet

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
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		



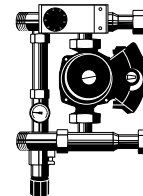
- for surface installation with:
- universal mounting, vertically and horizontally infinitely variable
 - made of hot galvanized sheet steel
 - with laquered design acc. to RAL 9010
 - with detachable screed impact and pipe reversing plate

aquatherm® - heat distribution station

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
92155	up to 80 m heating surface		1		

for extension/changeover of an existing radiator system with underfloor heating in conjunction with the aquatherm-manifolds Art.-No. 92052-92062

consisting of:
- thermostatic mixing valve
- thermometer
- circulation pump
- safety temperature limiter

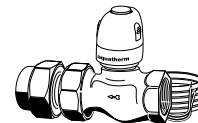


Controls and accessories

aquatherm® - zone control with actuator

for mounting at the aquatherm®-manifolds

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94100	1" straight		1	8	
94101	1" edge		1	8	



aquatherm® - actuator

for heating circuit manifolds and heating circuit control valves - flow

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94102	230 volt		1	21	
94103	24 volt		1	21	



aquatherm® - manual control cap

for heating circuit manifold and heating circuit control valves - flow

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
99109	scale+-		1	40	

color: white



aquatherm® - individual room control

with RTL valve and axial Th valve

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94161			1		

for control of

- return temperature
- room temperature
- in connection for euroconus
- with concealed manifold cabinet
- with covering



aquatherm® - AB-QM combination valve

with RTL valve and axial Th valve

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94165	DN 15 - 3/4"		1	6	



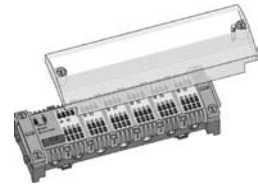
Connection systems, thermostats 230 volt (heating)

aquatherm® - connection system AB 2000-6

230 Volt

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94140			1		

Up to 6 room thermostats connectable
max. 14 actuators
(extension: see modules)



aquatherm® - control module AB RM 2000

230 Volt

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94141			1	16	

for extension of 2 room thermostats
up to 2 room thermostats connectable
8 actuators



aquatherm® - actuator module AB AM 2000

230 Volt

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94142			1	8	

for extension of actuators for large heating surfaces
up to 2 groups with each 4 actuators are connectable

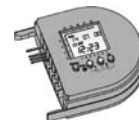


aquatherm® - timer module AB TM 1000

230 volt, 24 volt and for radio connection system

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94143			1	8	

pluggable 2 channel-digital clock for simple and comfortable programming of the heating times
Function: 2 week programmes / 42 storage locations
automatic switching between sommer-/wintertime

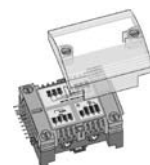


aquatherm® - pump module AB PL 2000

230 Volt

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94144			1	16	

pluggable extension for controlling of circulation pump
Connection options: 2 x NYM 2 x 1,5 mm² for external pump

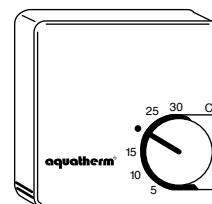


Connection systems, thermostats 230 volt (heating)

aquatherm® - room thermostat

230 volt - 50 Hz - differential gap 0,5 K, prepared for night setback

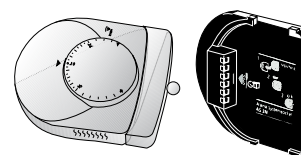
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94107	white		1	30	



aquatherm® - programmabel room thermostat, analogue

230 volt digital timer with day and week program

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94108	white		1	10	



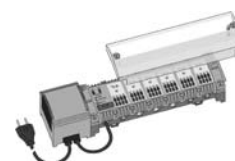
Connection systems, thermostats 24 volt - radio controlled (heating)

aquatherm® - automatic control, wireless AB 4071-6

24 Volt

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94148			1	4	

up to 6 radio controls (wireless) connectable
13 actuators (24 volt)
transformer: 230V/24V, 50/60 Hz, 50 vA
operating voltage: 24V/50/60 Hz

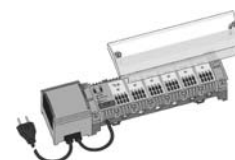


aquatherm® - automatic control, wireless AB 4071-12

24 Volt

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94149			1	4	

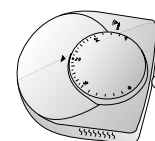
up to 12 radio controls (wireless) connectable
13 actuators (24 volt)



aquatherm® - room thermostat wireless AR 4070 KF

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94151			1	20	

Room thermostats with wireless radio transmission (battery 2 x 1,5 V Mignon)
temperature range: 10 - 28 °C



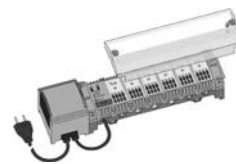
Connection systems, thermostats 24 volt (heating/ heating and cooling)

aquatherm® - connection system AB 4001-6

24 Volt

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94152			1	4	

Connections: up to 6 room thermostats 24 v respectively room thermostats Art.-No. 94156/94154
 14 actuators (24volt)
 Transformer: 230V/24V, 50/60 Hz, 50 vA
 Operating voltage: 24V/50/60 Hz



aquatherm® - control module AB RM 4000

24 volt

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94131			1	6	

for extension of 2 room thermostats
 up to 2 room thermostats connectable
 8 actuators



aquatherm® - actuator module AB AM 4000

24 Volt

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94132			1	6	

for extension of actuators of large heating surfaces
 up to 2 groups with each 4 actuators connectable

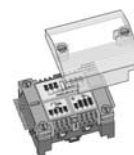


aquatherm® - pump module AB PL 4000

24 volt and for radio

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94150			1	8	

plugable extension for controlling of circulation pump
 Connection options: 2 x NYM 2 x 1,5 mm² for external pump

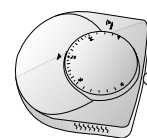


aquatherm® - room thermostat

24 volt differential gap 0,5 K, prepared for night set-back

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94156	white		1	20	

Including mounting base and electrical connection for room thermostats
 - suitable for wall installation and mounting on switch box



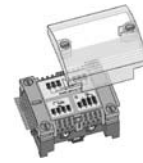
Connection systems, thermostats 24 volt (heating/ heating and cooling)

aquatherm® - heating / cooling module AB HK 4000

24 volt

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94153			1	8	

The plug-in extension of the connection system automatically initiates the change-over of all connected room thermostats into cooling mode by external potential-free contact or manually.

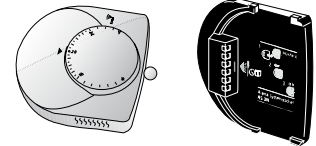


aquatherm® - room thermostat for heating and cooling AR 4010 K

24 volt

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94154			1	20	

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

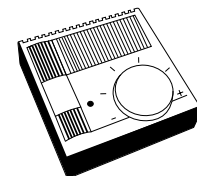


aquatherm® - room thermostat for heating and cooling

24 volt

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94034					

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

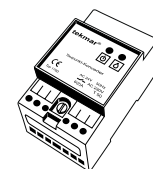


aquatherm® - dewpoint converter

24 volt

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94035					

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

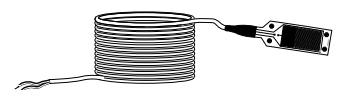


aquatherm® - dewpoint sensor

24 volt

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94036					

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



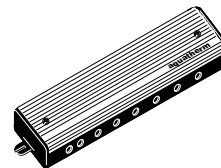
Connection systems, thermostats 230 volt (heating/ heating and cooling)

aquatherm® - control manifold ASV 6

230 volt

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94170			1	8	

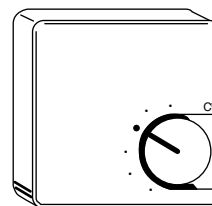
up to 6 room thermostats connectable
max. 12 actuators



aquatherm® - room thermostat NRT 210

230 volt, differential gap 0,5 K, for 2 pipe-systems

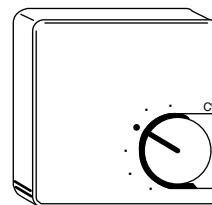
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94172	white		1	20	



aquatherm® - room thermostat NRT 220

230 volt, differential gap 0,5 K, for 4 pipe-systems

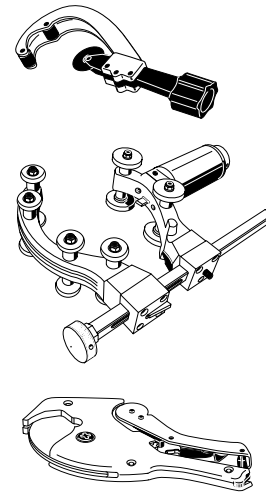
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
94174	white		1	20	



Cutting tools, welding devices

fusiotherm® - pipe cutter

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50102	for pipes ø 16 - 40 mm		1	34	
50105	for pipes ø 50 - 125 mm		1		
50106	for pipes ø 110 - 160 mm		1		



fusiotherm® - pipe cutter

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50104	for pipes ø 16 - 40 mm		1	30	

fusiotherm® - orbital circular saw

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50108	for pipes ø 160 - 355 mm		1		

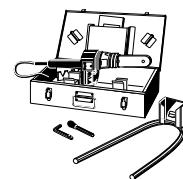
This orbital circular saw can be ordered directly from Rothenberger with Art.-No. 5.5620 (www.rothenberger.com). High-performance orbital circular saw for fast, precise, perfectly aligned and right-angled cutting of plastic pipes 160 - 355 mm at the building site or in the workshop.

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

fusiotherm® - manual welding device (500 W)

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50336	for pipes ø 16 - 32 mm		1		

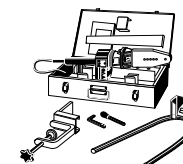
with base and case for tools



fusiotherm® - manual welding device (800 W)

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50337	for pipes ø 16 - 63 mm		1		

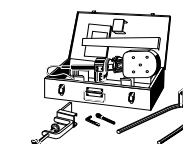
with base and case for tools



fusiotherm® - manual welding device (1400 W)

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50341	for pipes ø 50 - 125 mm		1		

with base and case for tools

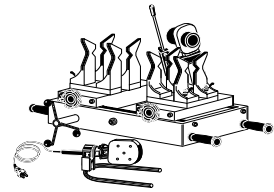


Welding machines

fusiotherm® - welding machine (1400 W)

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50147	for pipes ø 50 - 125 mm		1		

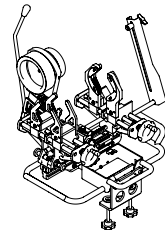
including welding tools 50 - 125 mm, **fusiotherm®**-manual welding device (1400 W) and wooden transport case



fusiotherm® - welding machine (1400 W) Light

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50145	for pipes ø 63 - 125 mm				

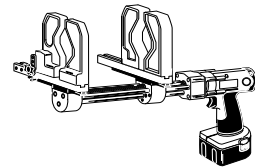
including **fusiotherm®**-manual welding device (1400 W) and wooden transport case



fusiotherm® - electric welding jig

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50149	for pipes ø 63 - 125 mm		1		

including standby accumulator, charging station and metal case



fusiotherm® - base for Art.-No. 50149

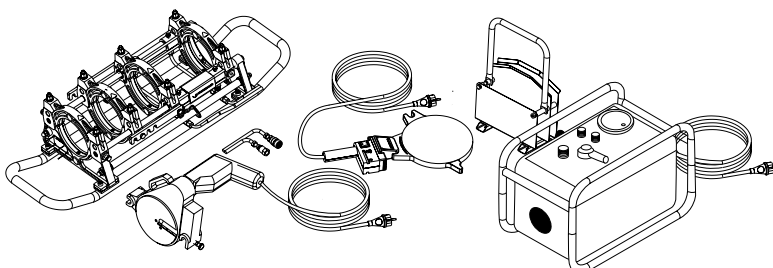
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50151			1		

fusiotherm® - butt welding machine Rothenberger

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50163	for pipes ø 160 - 250 mm		1		
50167	for pipes ø 160 - 250 mm		1		
50178	for pipes ø 160 - 355 mm		1		

including wooden transport box.

The butt welding machine can be obtained directly from Rothenberger (www.rothenberger.com)



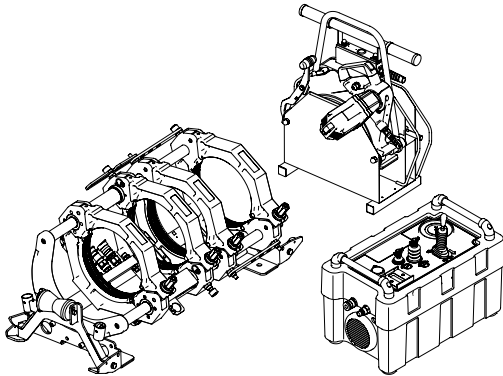
Welding machines

fusiotherm® - butt welding machine Ritmo

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50165	for pipes ø 160 - 250 mm		1		
50166	for pipes ø 160 - 315 mm		1		
50177	for pipes ø 160 - 355 mm		1		

including wooden transport box.

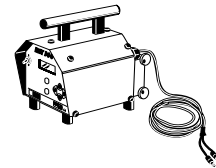
The butt welding machine can be obtained directly from Ritmo (www.ritmo.it)



fusiotherm® - electrofusion device

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50175	for pipes ø 20 - 160 mm		1		

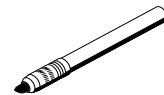
For processing with **fusiotherm®**-electro-fusion-sockets Art.-No. 17234-17238.
Special calibration-tools - obtainable on request - are requested



fusiotherm® - temperature pencil

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50190			1		

to check the correct welding temperature



fusiotherm® - surface thermometer

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50188			1		

to check the correct welding temperature



fusiotherm® - temperature protective glove

for tool change

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50195			2		

Welding tools, welding devices, accessories

fusiotherm® - cleaning wipes

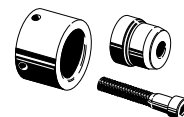
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50193	Box with 100 towels		1	20	

for electrofusion sockets



fusiotherm® - welding tool

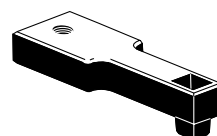
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50206	16 mm		1	100	
50208	20 mm		1	100	
50210	25 mm		1	100	
50212	32 mm		1	80	
50214	40 mm		1	50	
50216	50 mm		1	40	
50218	63 mm		1	25	
50220	75 mm		1	20	
50222	90 mm		1	15	
50224	110 mm		1	10	
50226	125 mm		1	6	



climasystem - climasystem-welding tool

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50285			1	50	

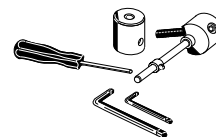
for sealing plug Art.-No. 81091



fusiotherm® - repair set

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50307	7 mm		1	50	
50311	11 mm		1	50	

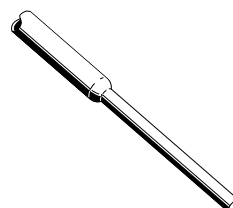
to close holes of up to 10 mm in the pipe (pipe repair stick Art.-No. 60600)



fusiotherm® - pipe repair stick

for pipe repairs

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
60600	7/11 mm		1	2500	

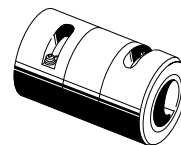


Welding tool, peeling tools

fusiotherm® - peeling tool

for climatherm OT, climatherm OT UV and fusiotherm stabi-composite pipe

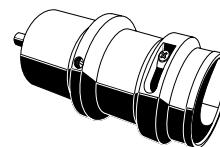
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50506	16 & 20 mm		1	30	
50508	20 & 25 mm		1	25	
50512	32 & 40 mm		1	13	
50514	40 & 50 mm		1	8	
50518	63 & 75 mm		1	6	
50524	90 & 110 mm		1	2	
50526	110 & 125 mm		1		



fusiotherm® - peeling tool

for electrofusion sockets Art.-No.17208-17230

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50558	20 mm		1	30	
50560	25 mm		1	20	
50562	32 mm		1	15	
50564	40 mm		1	14	
50566	50 mm		1	8	
50568	63 mm		1	4	
50570	75 mm		1	3	
50572	90 mm		1	2	
50574	110 mm		1	6	
50576	125 mm		1	1	
50580	160 mm		1	5	
50592	200 + 400 mm		1		

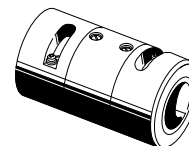


-Special peeling tools have to be used for **fusiotherm®**-stabi composite pipes and for sliding electrofusion sockets. Please contact our sales department!

fusiotherm® - twin peeling tool for welding and electricwelding sockets

for climatherm OT, climatherm OT UV, fusiotherm® UV und fusiotherm®- stabi composite pipe

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50507	20 & 25 mm		1		
50511	32 & 40 mm		1		
50515	50 & 63 mm		1		
50519	75 & 90 mm		1		
50525	110 & 125 mm		1		



fusiotherm® - spare blade

for peeling tools Art.-No.:15156-15253 u. 28214-28274

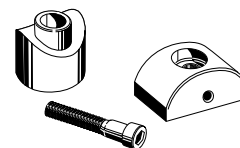
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50440			1		

Welding tools

fusiotherm® - welding tool

For welding saddles Art.-No.:15156-15272 and 28214-28350

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50614	40 x 20/25 mm		1	40	
50616	50 x 20/25 mm		1	35	
50619	63 x 20/25 mm		1	35	
50620	63 x 32 mm		1	35	
50623	75 x 20/25 mm		1	30	
50624	75 x 32 mm		1	30	
50625	75 x 40 mm		1	20	
50627	90 x 20/25 mm		1	30	
50628	90 x 32 mm		1	30	
50629	90 x 40 mm		1	20	
50631	110 x 20/25 mm		1	30	
50632	110 x 32 mm		1	30	
50634	110 x 40 mm		1	20	
50635	110 x 50 mm		1	12	
50636	125 x 20/25 mm		1	30	
50638	125 x 32 mm		1	30	
50640	125 x 40 mm		1	20	
50642	125 x 50 mm		1	12	
50644	125 x 63 mm		1	6	
50648	160 x 20/25 mm		1	20	
50650	160 x 32 mm		1	20	
50652	160 x 40 mm		1	15	
50654	160 x 50 mm		1	10	
50656	160 x 63 mm		1	8	
50657	160 x 75 mm		1		
50658	160 x 90 mm		1		
50660	200 x 20/25 mm		1	35	
50662	200 x 32 mm		1	35	
50664	200 x 40 mm		1	20	
50666	200 x 50 mm		1	12	
50667	200 x 75 mm		1		
50668	200 x 63 mm		1	8	
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	35	
50674	250 x 32 mm		1	35	
50676	250 x 40 mm		1	20	
50678	250 x 50 mm		1	12	
50680	250 x 63 mm		1	8	
50682	250 x 75 mm		1		

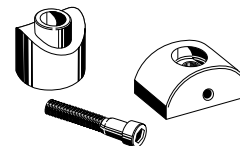


Welding tools, Mounting tools

fusiotherm® - welding tool

For welding saddles Art.-No.:15156-15272 and 28214-28350

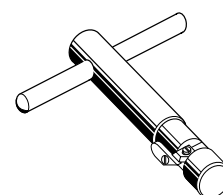
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50684	250 x 90 mm		1		
50686	250 x 110 mm		1		
50688	250 x 125 mm		1		
50690	315 x 63 mm		1		
50692	315 x 75 mm		1		
50694	315 x 90 mm		1		
50696	315 x 110 mm		1		
50698	315 x 125 mm		1		
50699	315 x 160 mm		1		
50712	355 x 63 mm		1		
50714	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		
50724	355 x 200 mm		1		



fusiotherm® - chamfering device

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50910	20 & 25 mm		1	20	
50912	32 mm		1	15	
50914	40 mm		1	12	

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

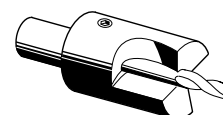


Only for stabi-composite pipes!

fusiotherm® - drill

for installation of weld-in saddles

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50940	20 & 25 mm (for pipes 40 - 160 mm)		1	50	
50941	20 & 25 mm (for pipes 63 - 250 mm)		1	50	
50942	32 mm		1	45	
50944	40 mm		1	40	
50946*	50 mm		1	25	
50948*	63 mm		1	15	
50950**/**	75 mm		1		
50952**/**	90 mm		1		
50954**/**	110 mm		1		
50956**/**	125 mm		1		
50958**/**	160 mm		1		
50960**/**	200 mm		1		

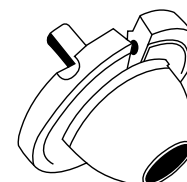


* may only be used in fixed drilling machines!

** tool holder MK4

fusiotherm® - saddle peeling tool for climatherm OT pipes

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc
50921	for welding saddles ø 20 & 25 mm by pipedimensions up to 50mm		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	

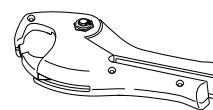


Expanding tools and accessories

aquatherm® - pipe cutter

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50103	up to \varnothing 25 mm		1	10	
50104	for \varnothing 32 - 40 mm		1	30	

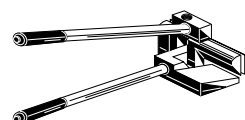
for SHT- and aquatherm surface heating pipes



aquatherm® - bending tool

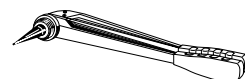
for mounting rail Art.-No. 79090

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50840			1	10	



aquatherm®-SHT - expanding tool

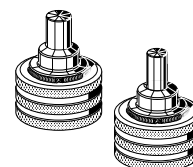
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50800	up to \varnothing 10-40 mm		1	10	



false jaws for the SHT-expanding tool

for aquatherm®-SHT PB-pipes.

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50814	10 mm		1	30	
50815	14 mm		1	30	
50817	16 & 20 mm		1	30	
50820	25 mm		1	30	
50822	32 mm		1	30	



false jaws for the SHT-expanding tool

for aquatherm®-SHT multi-layer metal composite pipes

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50857	16 & 20 mm		1	30	
50860	25 mm		1	30	
50862	32 mm		1	30	
50864	40 mm		1		

false jaws for the SHT-expanding tool

for multi-layer metal composite pipe 16 mm with compression fitting Art.-No. 79612

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50866	16 mm (17 x 2,5 mm)		1	30	

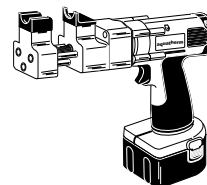
Mounting tools

aquatherm®-SHT - electric mounting tool

for aquatherm®-SHT-pipes

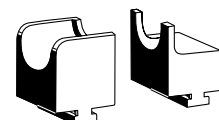
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50808	for ø 16-32 mm		1		

with tools for 16 and 20 mm, accumulator battery, charging station and metal box



aquatherm®-SHT - tool insert for electric mounting tool

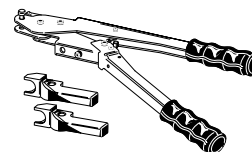
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50846	16 mm		1 Set	35	
50848	20 mm		1 Set	30	
50850	25 mm		1 Set	25	
50852	32 mm		1 Set	20	



aquatherm®-SHT - mounting tool

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50802	for ø 10-40 mm		1	10	

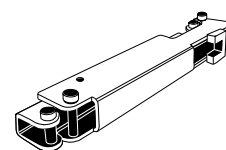
with tools for ø 16 and 20 mm, for the mechanical sliding sleeve connection



aquatherm®-SHT - angle attachment

for aquatherm®-SHT mounting tool Art.-No. 50802

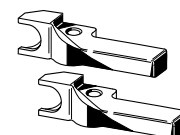
Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50803			1	14	



aquatherm®-SHT - tool insert

for aquatherm®-SHT mounting tool Art.-No. 50802

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50824	10 mm		1 Set	50	
50825	14 mm		1 Set	50	
50826	16 mm		1 Set	40	
50828	20 mm		1 Set	30	
50830	25 mm		1 Set	25	
50832	32 mm		1 Set	20	
50834	40 mm		1 Set		



Tool cases, bending template, accessories

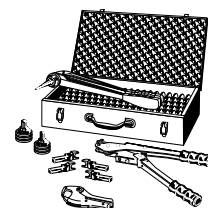
aquatherm®-SHT - tool case

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
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)

Note: Expanding and mounting tool for 25 and 32 mm (Art.-No. 50820, 50822 + 50830, 50832) as well as for SHT multi-layer metal composite pipe (Art.-No. 50857, 50860, 50862) have to be ordered separately.



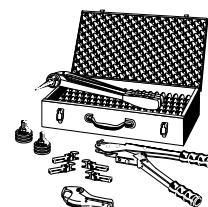
aquatherm®-SHT - tool case

for multi-layer metal composite pipe

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50805	for ø 16-20 mm		1		

including:

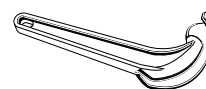
- pipe cutter (Art.-No. 50103)
- expanding tool (Art.-No. 50800) with false jaws 16-20 mm (Art.-No. 50857)
- mounting tool (Art.-No. 50802) with tools (Art.-No. 50826 and 50828)



aquatherm®-SHT - bending template

for multi-layer metal composite pipe

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
50870	for ø 16 mm		1	20	
50872	for ø 20 mm		1	12	
50874	for ø 25 mm		1	20	



aquatherm® - tackfix tacker

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
96003			1	2	

Note: New design! Applicable with Art.- No 90504

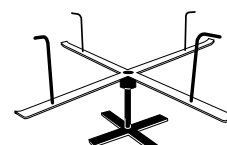
for fixing of heating pipe with pipe clips on the aquatherm®-system elements



aquatherm® - pipe hasp

Art.-No.	Dimension	Price	Packing unit m/pc	Box unit m/pc	Piece
96004			1		

for winding the heating pipe



Features

Permissible working pressure

for potable water installations

Fluid transported: water acc. to DIN 2000

Temperature	Service life	fuviotherm®- pipe SDR 11 aquatherm lilac- pipe SDR 11		fuviotherm®- pipe SDR 7,4 aquatherm lilac- pipe SDR 7,4		fuviotherm®- pipe 6 fuviotherm®- stabi composite pipe		fuviotherm®- faser composite pipe SDR 7.4	
		Permissible working pressure in bar and (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)
	5	14.1	(205)	22.3	(324)	28.1	(408)	26.8	(389)
	10	13.7	(199)	21.7	(315)	27.3	(396)	26.1	(379)
	25	13.3	(193)	21.1	(306)	26.5	(385)	25.3	(367)
	50	12.9	(187)	20.4	(296)	25.7	(373)	24.5	(356)
30°C 86°F	1	12.8	(186)	20.2	(293)	25.5	(370)	24.3	(353)
	5	12.0	(174)	19.0	(276)	23.9	(347)	22.8	(331)
	10	11.6	(168)	18.3	(266)	23.1	(335)	22.0	(319)
	25	11.2	(163)	17.7	(257)	22.3	(324)	21.3	(309)
	50	10.9	(158)	17.3	(251)	21.8	(316)	20.7	(300)
40°C 104°F	1	10.8	(157)	17.1	(248)	21.5	(312)	20.5	(298)
	5	10.1	(147)	16.0	(232)	20.2	(293)	19.2	(279)
	10	9.8	(142)	15.6	(226)	19.6	(284)	18.7	(271)
	25	9.4	(136)	15.0	(218)	18.8	(273)	18.0	(261)
	50	9.2	(134)	14.5	(210)	18.3	(266)	17.5	(254)
50°C 122°F	1	9.2	(134)	14.5	(210)	18.3	(266)	17.5	(254)
	5	8.5	(123)	13.5	(196)	17.0	(247)	16.2	(235)
	10	8.2	(119)	13.1	(190)	16.5	(239)	15.7	(228)
	25	8.0	(116)	12.6	(183)	15.9	(231)	15.2	(221)
	50	7.7	(112)	12.2	(177)	15.4	(224)	14.7	(213)
60°C 140°F	1	7.7	(112)	12.2	(177)	15.4	(224)	14.7	(213)
	5	7.2	(104)	11.4	(165)	14.3	(208)	13.7	(199)
	10	6.9	(100)	11.0	(160)	13.8	(200)	13.2	(192)
	25	6.7	(97)	10.5	(152)	13.3	(193)	12.6	(183)
	50	6.4	(93)	10.1	(147)	12.7	(184)	12.1	(176)
Potable water (cold) Potable water (warm)	65°C 149°F	1	11.6	(168)	14.6	(212)	13.9	(202)	
		5	10.8	(157)	13.6	(197)	12.9	(187)	
		10	10.4	(151)	13.1	(190)	12.5	(181)	
		25	10.0	(145)	12.6	(183)	12.0	(174)	
		50	8.8	(128)	11.1	(161)	10.6	(154)	
	70°C 158°F	1	10.3	(149)	13.0	(189)	12.4	(180)	
		5	9.5	(138)	11.9	(173)	11.4	(165)	
		10	9.3	(135)	11.7	(170)	11.1	(161)	
		25	8.0	(116)	10.1	(147)	9.6	(139)	
		30	7.0	(102)	8.8	(128)	9.3	(135)	
	50	6.7	(97)	8.5	(123)	8.1	(118)		
	75°C 167°F	1	9.8	(142)	12.3	(179)	11.7	(170)	
		5	9.0	(131)	11.4	(165)	10.8	(157)	
10		8.3	(120)	10.5	(152)	10.0	(145)		
		25	6.7	(97)	8.4	(122)	8.0	(116)	

* SDR = Standard Dimension Ratio
(diameter / wall thickness ratio)
SDR = 2 x S + 1 ≈ d / s
(S = Pipe series index from ISO 4065)

Faser and Stabi composite pipe: high working stress at lower wall thickness and higher flow rate

Features

Permissible working pressure

heating systems or closed systems

Heating period	Temperature	Service life	climotherm® pipe SDR 11 / faser composite pipe SDR 11 & OT		fusiotherm®- faser composite pipe SDR 7.4		fusiotherm®- stabi composite pipe		fusiotherm®- pipe SDR 7.4			
			Permissible working pressure in bar and (psi)									
			bar	(psi)	bar	(psi)	bar	(psi)				
constant operating temperature 70 °C / 158 °F incl. 30 days per year at	75 °C 167 °F	5	9.38	(136)	14.27	(208)	11.33	(164)				
		10	9.08	(132)	13.79	(200)	10.95	(160)				
		25	7.82	(113)	11.74	(170)	9.32	(135)				
		45	6.77	(99)	10.18	(148)	8.08	(118)				
	80 °C 176 °F	5	8.88	(129)	13.50	(196)	10.72	(155)				
		10	8.46	(123)	12.80	(186)	10.16	(148)				
		25	7.38	(107)	11.14	(161)	8.84	(128)				
		42.5	6.49	(94)	9.79	(142)	7.77	(113)				
	85 °C 185 °F	5	8.17	(119)	12.42	(180)	9.85	(144)				
		10	7.82	(113)	11.87	(173)	9.42	(136)				
		25	6.70	(97)	10.14	(147)	8.05	(118)				
		37.5	6.07	(89)	9.18	(134)	7.29	(106)				
	90 °C 194 °F	5	7.50	(109)	11.39	(165)	9.04	(131)				
		10	7.19	(104)	10.94	(158)	8.69	(126)				
		25	5.85	(86)	8.86	(129)	7.03	(102)				
		35	5.39	(78)	8.16	(119)	6.48	(94)				
constant operating temperature 70 °C / 158 °F incl. 60 days per year at	75 °C 167 °F	5	9.26	(135)	14.11	(205)	11.20	(163)				
		10	8.90	(129)	13.57	(197)	10.77	(157)				
		25	7.62	(110)	11.58	(168)	9.19	(134)				
		45	6.60	(96)	10.05	(147)	7.97	(116)				
	80 °C 176 °F	5	8.61	(125)	13.12	(190)	10.41	(151)				
		10	8.24	(119)	12.54	(181)	9.96	(145)				
		25	6.93	(100)	10.56	(154)	8.38	(122)				
		40	6.18	(90)	9.41	(136)	7.47	(109)				
	85 °C 185 °F	5	7.91	(115)	12.03	(174)	9.55	(139)				
		10	7.56	(110)	11.52	(167)	9.14	(132)				
		25	6.05	(89)	9.22	(134)	7.31	(106)				
		35	5.57	(81)	8.48	(123)	6.73	(97)				
	90 °C 194 °F	5	7.25	(106)	11.04	(160)	8.76	(128)				
		10	6.40	(93)	9.76	(142)	7.75	(113)				
		25	5.12	(74)	7.81	(113)	6.20	(90)				
		30	4.90	(71)	7.46	(109)	5.92	(86)				
constant operating temperature 70 °C / 158 °F incl. 90 days per year at	75 °C 167 °F	5	9.17	(134)	14.02	(203)	11.12	(161)				
		10	8.79	(128)	13.38	(194)	10.62	(154)				
		25	7.45	(109)	11.33	(164)	8.99	(131)				
		45	6.45	(94)	9.82	(142)	7.80	(113)				
	80 °C 176 °F	5	8.46	(123)	12.90	(187)	10.23	(148)				
		10	8.11	(118)	12.35	(180)	9.80	(142)				
		25	6.60	(96)	10.05	(147)	7.97	(116)				
		37.5	5.98	(87)	9.09	(132)	7.21	(104)				
	85 °C 185 °F	5	7.76	(113)	11.81	(171)	9.37	(136)				
		10	7.03	(102)	10.72	(155)	8.51	(123)				
		25	5.63	(81)	8.58	(125)	6.81	(99)				
		32.5	5.28	(77)	8.03	(116)	6.37	(93)				
	90 °C 194 °F	5	6.96	(102)	10.59	(154)	8.41	(122)				
		10	5.88	(86)	8.96	(131)	7.11	(103)				
			25	4.70	(68)	7.17	(104)	5.69	(83)			

* SDR = Standard Dimension Ratio (diameter / wall thickness ratio)
SDR = 2 x S + 1 ≈ d / s
(S = Pipe series index from ISO 4065)

Features

Permissible working pressure

for general pressure pipe applications outside the charted application ranges on page 89 and 90

Temperature	Service life	climatherm-faser-composite pipe SDR 11 & OT SDR 11 climatherm-pipe SDR 11		climatherm-faser-composite pipe SDR 7,4 & OT SDR 7,4		aquatherm lilac-pipe SDR 11	
		Permissible working pressure in bar and (psi)					
		bar	(psi)	bar	(psi)	bar	(psi)
10 °C	1	27,8	(403)	43,2	(627)	27,8	(403)
	5	26,2	(380)	40,7	(591)	26,2	(380)
	10	25,6	(372)	39,7	(576)	25,6	(372)
	25	24,7	(358)	38,3	(556)	24,7	(358)
	50	24,1	(350)	37,4	(543)	24,1	(350)
	100	23,5	(341)	36,4	(528)	23,5	(341)
15 °C	1	25,7	(373)	39,9	(579)	25,7	(373)
	5	24,2	(351)	37,5	(544)	24,2	(351)
	10	23,6	(343)	36,6	(531)	23,6	(343)
	25	22,8	(331)	35,3	(512)	22,8	(331)
	50	22,2	(322)	34,4	(499)	22,2	(322)
	100	21,6	(313)	33,5	(486)	21,6	(313)
20 °C	1	23,8	(345)	36,8	(534)	23,8	(345)
	5	22,3	(324)	34,6	(502)	22,3	(324)
	10	21,7	(315)	33,7	(489)	21,7	(315)
	25	21,0	(305)	32,5	(472)	21,0	(305)
	50	20,4	(296)	31,7	(460)	20,4	(296)
	100	19,9	(289)	30,9	(448)	19,9	(289)
30 °C	1	20,2	(293)	31,3	(454)	20,2	(293)
	5	18,9	(274)	29,4	(427)	18,9	(274)
	10	18,4	(267)	28,6	(415)	18,4	(267)
	25	17,8	(258)	27,5	(399)	17,8	(258)
	50	17,3	(251)	26,8	(389)	17,3	(251)
	100	16,8	(244)	26,0	(377)	16,8	(244)
40 °C	1	17,1	(248)	26,6	(386)	17,1	(248)
	5	16,0	(232)	24,9	(361)	16,0	(232)
	10	15,6	(226)	24,1	(350)	15,6	(226)
	25	15,0	(218)	23,2	(337)	15,0	(218)
	50	14,6	(212)	22,6	(328)	14,6	(212)
	100	14,1	(205)	21,9	(318)	14,1	(205)
50 °C	1	14,5	(210)	22,5	(327)	14,5	(210)
	5	13,5	(196)	21,0	(305)	13,5	(196)
	10	13,1	(190)	20,4	(296)	13,1	(190)
	25	12,6	(183)	19,6	(284)	12,6	(183)
	50	12,2	(177)	19,0	(276)	12,2	(177)
	100	11,9	(173)	18,4	(267)	11,9	(173)
60 °C	1	12,2	(177)	19,0	(276)	12,2	(177)
	5	11,4	(165)	17,7	(257)	11,4	(165)
	10	11,0	(160)	17,1	(248)	11,0	(160)
	25	10,6	(154)	16,4	(238)	10,6	(154)
	50	10,3	(149)	15,9	(231)	10,3	(149)
	100	10,3	(149)	16,0	(232)	10,3	(149)
70 °C	1	10,3	(149)	16,0	(232)	10,3	(149)
	5	9,6	(139)	14,8	(215)	9,6	(139)
	10	9,2	(134)	14,3	(208)	9,2	(134)
	25	8,0	(116)	12,5	(181)	8,0	(116)
	50	6,8	(99)	10,5	(152)	6,8	(99)
	100	6,8	(99)	10,5	(152)	6,8	(99)
75 °C	1	9,4	(136)	14,6	(212)	9,4	(136)
	5	8,7	(126)	13,5	(196)	8,7	(126)
	10	8,0	(116)	12,5	(181)	8,0	(116)
	25	6,4	(93)	10,0	(145)	6,4	(93)
	50	5,4	(78)	8,4	(122)	5,4	(78)
	100	5,4	(78)	8,4	(122)	5,4	(78)
80 °C	1	8,6	(125)	13,4	(194)	8,6	(125)
	5	7,7	(112)	11,9	(173)	7,7	(112)
	10	6,5	(94)	10,0	(145)	6,5	(94)
	25	5,2	(75)	8,0	(116)	5,2	(75)
	50	5,2	(75)	8,0	(116)	5,2	(75)
	100	5,2	(75)	8,0	(116)	5,2	(75)
90 °C	1	7,2	(104)	11,2	(163)	7,2	(104)
	5	5,1	(74)	7,8	(113)	5,1	(74)
	10	4,3	(62)	6,6	(96)	4,3	(62)

* SDR = Standard Dimension Ratio (diameter / wall thickness ratio)
 $SDR = 2 \times S + 1 \approx d / s$
(S = Pipe series index from ISO 4065)

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