

Plastic pipes
easily and reliably

Pressure piping system for hot and
cold tap water, heating and air



**PRODUCT
CATALOGUE**

- ✓ ALMATHERM is highly reliable
- ✓ ALMATHERM improves the quality, introducing technological innovation
- ✓ ALMATHERM listens to the professionals - plumbers, who work daily with the distribution



Pressure piping system for hot and cold tap water, heating and air

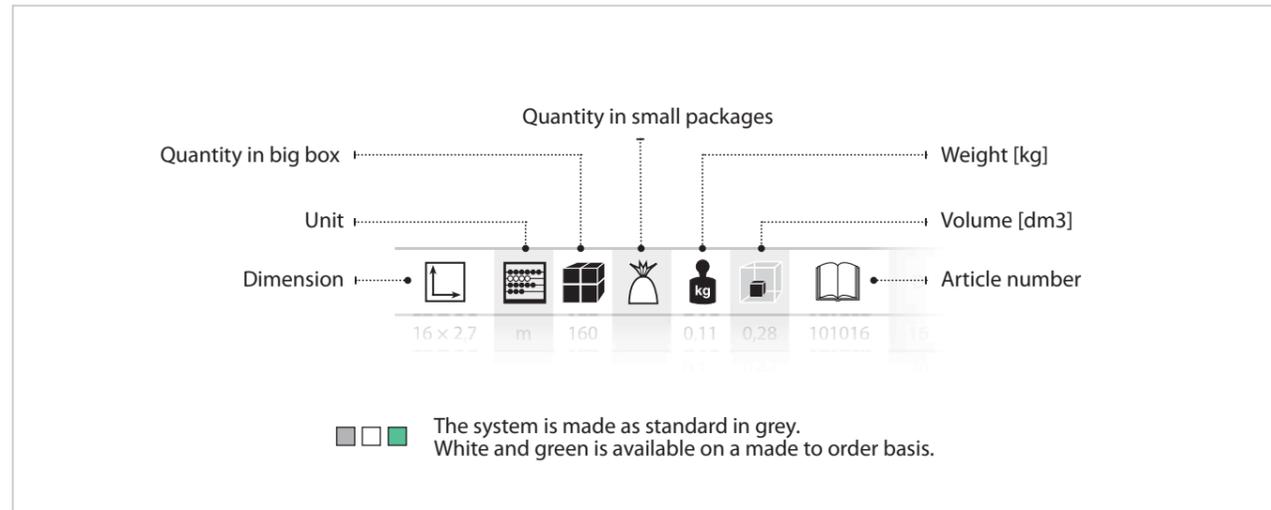
ALMATHERM PPR system is a piping system of polypropylene for cold and hot tap water, underfloor and central heating, air and other applications in industries and agriculture. The quality material, PPR, or polypropylene - random copolymer, provides hygiene safety, high chemical resistance, corrosion resistance, resistance to coatings and incrustations, and extraordinarily long life with minimum reduction in the use value of the system. The low weight and easy workability guarantee a fast, simple and safe assembly. The welding concept and low roughness of the interior wall significantly reduce pressure loss in the piping, thus increasing the operating economy of the circulation systems.

ALMATHERM uses the highest quality materials such as brand-name granulates Hostalen from Germany for the production of its PPR system. Problematic points such as plastic-metal transitions are dealt with without compromising – we use metal parts shaped from the highest quality brass pipes and rods from German and Italian suppliers. The production is fully automated and we continuously improve our production technology.

All components of the ALMATHERM PPR system are tested in an extensive testing laboratory featuring the most advanced devices. Every centimetre of pipes produced is measured by a continuous x-ray scanning system. The strict control allows us to offer our customers an above-standard warranty of 15 years.

We continuously improve our piping system in terms of concept. Our goal is to develop and deliver a system that would make the assembly of the piping system for water, heating or air faster, safer and simpler. All of that with unconditional reliability, continuous life extensions and functionality improvements.

Icons:



Content

Pipes	7-10
PPR Pipes	8
PPR Multilayer Pipes	9
PPR Pipes in Coil	10
Fittings	11-26
Plastic Fittings	12
Combination Fittings	20
Valves	27-30
Plastic Tap Valves	
Plastic Ball Valves	
Special Plastic Valves	
Accessories	31-37
Insulation	
Seals	
Clamping and Supports	
Tools	39-46

The company is constantly striving to improve products and product lines. As a result, range and specifications in this catalogue can change. Check out our website for updated information or call us. Thank you for your understanding.



Basic information of products and materials used

Application:

The ALMATHERM PPR system is an extensive system of pipes and fittings for a pressure piping system for hot and cold tap water, central heating, compressed air and nitrogen.

Joining method:

Socket fusion welding (socket fusion welding is governed by German DVS Guidelines)

Materials used:

Type 3 polypropylene – statistic (random) copolymer usually abbreviated to PP-R, PP-3
 Type 3 polypropylene – composite filled with fiberglass (PP GF)
 Aluminium foil 0.15 mm
 Brass – type CuZn39Pb3 nickel-plated, chrome-plated, type CuZn36Pb2As pure
 Sealing – filled polypropylene Taboren, SBR rubber, NBR rubber, PTFE

Colour:

The system is made as standard in grey, the special line FASER for pre-wall installations is made in white. Green is available on a made to order basis.

Standards used in the production and testing of the ALMATHERM PPR system:

CLASSIC pipes, FASER pipes and fittings are made in compliance with ČSN EN ISO 15874, DIN 8077, DIN 8078. Multi-layer STABI pipes are made in dimensions and tolerances under ČSN EN ISO 21003 and conform to DIN 4726 requirements as to oxygen permeability. ALMATHERM’s products are made in agreement with corporate standards PN 01 and PN 02 and we have implemented and maintained a corporate quality management system in the production.

Labelling and identification of individual ALMATHERM PPR system components:

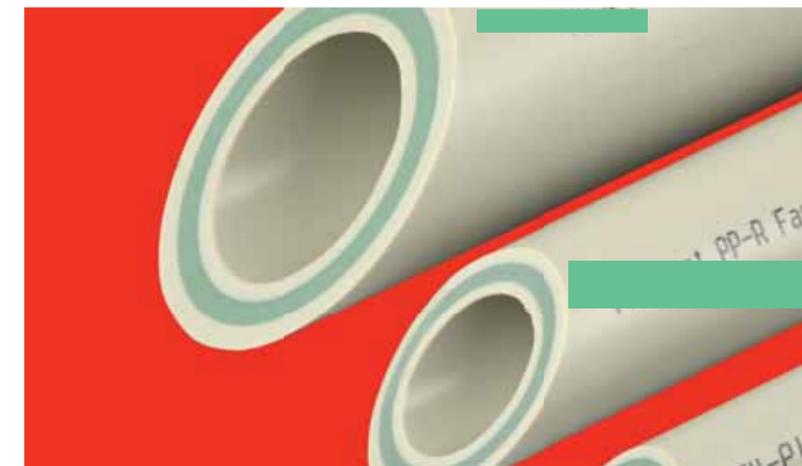
Pipes bear the name of the producer: ALMATHERM, the type of the material: PP-R, wall diameter x thickness, dimension class, pressure rating: PN (S series), production standard, use class with operating pressure, production date, time, production equipment.
Fittings bear the FV® logo, or the ALMATHERM mark, the identification of the material (PP-R), dimensions and an indicator of the production month and year. Larger packaging units bear a label with the packaging date, EAN code of the product and identification of the supervisor.

Mechanical-physical characteristics of PP-R:

characteristics	unit	PP-R
Specific weight	g/cm ³	0,9
Extension at yield	%	13 - 15
Strength at yield	N/mm ²	26
Charpy impact strength	KJ/m ²	5/23
Yield in tension	MPa	25 - 27
E-module	N/mm ²	850 - 900
Thermal conductivity coefficient	W/m °C	0,24

α – coefficient of thermal expansion of the piping [mm/m °C]
 - for FV PP-R CLASSIC $\alpha = 0,12$
 - for FV STABI $\alpha = 0,05$
 - for FV FASER $\alpha = 0,05$

PPR PIPES



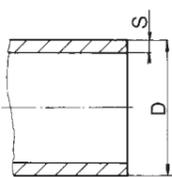
Good quality pipework involves a reliable pipe which is able to sustain the assumed temperature and pressure stress.

- 8 PPR Pipes
- 9 PPR Multilayer Pipes
- PPR Pipes in Coil



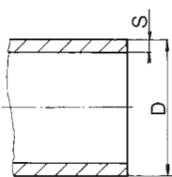
PPR Pipes

CLASSIC Pipe S 2,5 SDR 6 (PN 20)



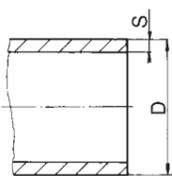
								D	S	l*
16 × 2,7	m	160	0,11	0,28	101016	16	2,70	4		
20 × 3,4	m	100	0,17	0,44	101020	20	3,40	4		
25 × 4,2	m	60	0,27	0,73	101025	25	4,20	4		
32 × 5,4	m	40	0,43	1,10	101032	32	5,40	4		
40 × 6,7	m	24	0,67	1,83	101040	40	6,70	4		
50 × 8,3	m	16	1,00	2,75	101050	50	8,30	4		
63 × 10,5	m	12	1,65	4,07	101063	63	10,50	4		
75 × 12,5	m	8	2,34	5,50	101075	75	12,50	4		
90 × 15	m	4	3,36	9,17	101090	90	15,00	4		
110 × 18,3	m	4	5,01	10,31	101110	110	18,30	4		

CLASSIC Pipe S 3,2 SDR 7,4 (PN 16)



								D	S	l*
16 × 2,2	m	160	0,10	0,28	102016	16	2,20	4		
20 × 2,8	m	100	0,15	0,44	102020	20	2,80	4		
25 × 3,5	m	60	0,23	0,73	102025	25	3,50	4		
32 × 4,4	m	40	0,37	1,10	102032	32	4,40	4		
40 × 5,5	m	24	0,58	1,83	102040	40	5,50	4		
50 × 6,9	m	16	0,90	2,75	102050	50	6,90	4		
63 × 8,6	m	12	1,41	4,07	102063	63	8,60	4		
75 × 10,3	m	8	2,00	5,50	102075	75	10,30	4		
90 × 12,3	m	4	2,90	9,17	102090	90	12,30	4		
110 × 15,1	m	4	4,30	10,31	102110	110	15,10	4		

CLASSIC Pipe S 5 SDR 11 (PN 10)

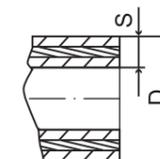


								D	S	l*
20 × 2,3	m	100	0,12	0,44	103020	20	2,30	4		
25 × 2,3	m	60	0,16	0,73	103025	25	2,30	4		
32 × 2,9	m	40	0,26	1,10	103032	32	2,90	4		
40 × 3,7	m	24	0,41	1,83	103040	40	3,70	4		
50 × 4,6	m	16	0,64	2,75	103050	50	4,60	4		
63 × 5,8	m	12	1,00	4,07	103063	63	5,80	4		
75 × 6,8	m	8	1,40	5,50	103075	75	6,80	4		
90 × 8,2	m	4	2,03	9,17	103090	90	8,20	4		
110 × 10	m	4	3,00	10,31	103110	110	10,00	4		

PPR Multilayer Pipes

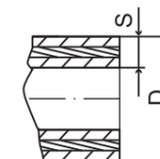
FASER composite pipe PPR/PP-GF/PPR S 2,5 SDR 6 (PN 20)

								D	S	l*
20 × 3,4	m	100	0,19	0,44	107020	20	3,40	4		
25 × 4,2	m	60	0,28	0,73	107025	25	4,20	4		
32 × 5,4	m	40	0,45	1,10	107032	32	5,40	4		
40 × 6,7	m	24	0,69	1,83	107040	40	6,70	4		
50 × 8,3	m	16	1,07	2,75	107050	50	8,30	4		
63 × 10,5	m	12	1,74	4,07	107063	63	10,50	4		
75 × 12,5	m	8	2,41	5,50	107075	75	12,50	4		
90 × 15	m	4	3,47	9,17	107090	90	15,00	4		
110 × 18,3	m	4	5,17	10,31	107110	110	18,30	4		



FASER composite pipe PPR/PP-GF/PPR S 3,2 SDR 7,4 (PN 16)

								D	S	l*
63 × 8,6	m	12	1,66	4,07	108063	63	8,6	4		
75 × 10,3	m	8	2,33	5,50	108075	75	10,3	4		
90 × 12,3	m	4	3,15	9,17	108090	90	12,3	4		
110 × 15,1	m	4	4,96	10,31	108110	110	15,1	4		
125 × 17,1	m	4	5,6	12,50	108125	125	17,1	4		
160 × 21,9	m	6	9,5	21,67	108160	160	21,9	6		
200 × 27,4	m	6	15,1	33,33	108200	200	27,4	6		
225 × 30,8	m	6	18,1	41,67	108225	225	30,8	6		
250 × 34,2	m	6	23,5	51,67	108250	250	34,2	6		



* All pipes could be manufactured also in other sizes after previous consultation - 3 m, 6m.

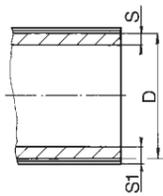
Is it possible to use PPR pipes to install the heating system? Yes, it is – and with high reliability. The pressure range 20 is sufficient for central heating distribution of hot-water heating (not steam heating). What is better for heat distribution though is the STABl pipes reinforced by aluminium foil.



 **ALMATHERM**
PPR Pipes & Fittings

PPR Multilayer Pipes

STABI composite pipe PPR/Al/PPR S 3,2 SDR 7,4 (tested PN 20) ■■■

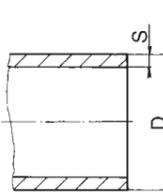


								D	S	S1	I*
16 × 2,4	m	100		0,17	0,28	106016	16	2,40	3,10	4	
20 × 3,0	m	100		0,21	0,44	106020	20	3,00	3,70	4	
25 × 3,7	m	60		0,31	0,73	106025	25	3,70	4,40	4	
32 × 4,8	m	40		0,47	1,10	106032	32	4,80	5,40	4	
40 × 5,9	m	24		0,69	1,83	106040	40	5,90	6,50	4	
50 × 7,4	m	20		1,04	2,75	106050	50	7,40	7,80	4	
63 × 9,3	m	20		1,57	4,07	106063	63	9,30	9,60	4	
75 × 11	m	8		2,25	5,50	106075	75	11,00	11,30	4	
90 × 13,2	m	8		3,37	9,17	106090	90	13,20	13,70	4	
110 × 16,2	m	8		5,00	10,31	106110	110	16,20	17,80	4	

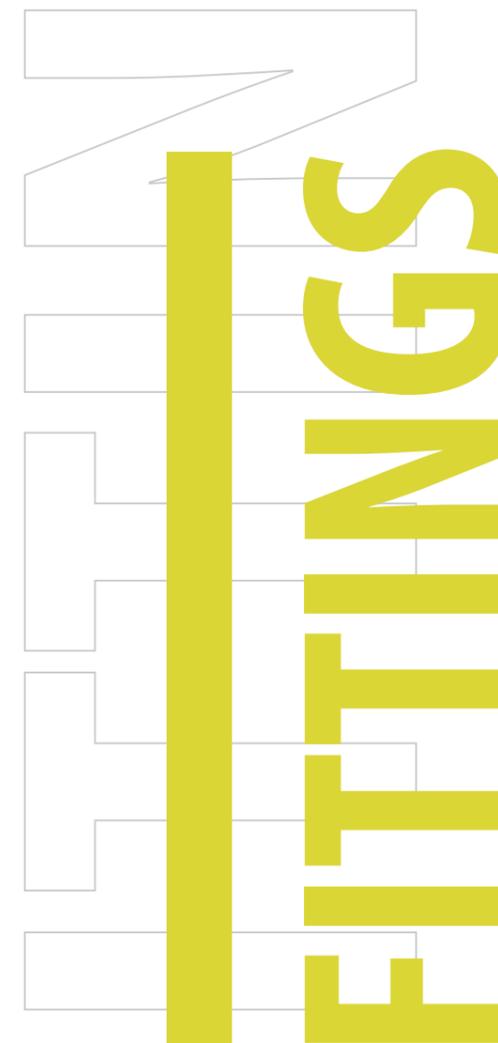
* All pipes could be manufactured also in other sizes after previous consultation - 3 m, 6m.

PPR Pipes in Coil

Pipe in coil ■■■



								D	S
16 × 2,0	m	200		0,09	2,01	105016	16	2,00	
20 × 2,0	m	200		0,11	3,14	105020	20	2,00	
20 × 2,8	m	200		0,15	3,14	104021	20	2,80	
20 × 3,4	m	200		0,17	3,14	104022	20	3,40	



PPR - PRESSURE PIPING SYSTEM FOR HOT AND COLD TAP WATER, HEATING AND AIR



An elaborated range of adapting pipes increases the efficiency and flexibility of our PPR system. We try to help with solving all possible handling situations.

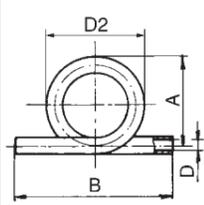
12 Plastic Fittings

20 Combination Fittings



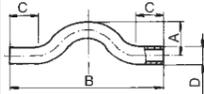
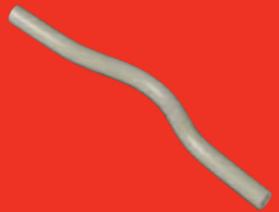
Plastic Fittings

Compensation pipe ■■■



							D, D1	D2	A	B	A2, C
16	pcs	10	1	0,07	1,60	232016	16	188,00	180,00	290,00	
20	pcs	6	1	0,11	1,60	232020	20	210,00	200,00	300,00	
25	pcs	5	1	0,21	3,20	232025	25	217,50	205,00	370,00	
32	pcs	4	1	0,43	8,00	232032	32	231,00	215,00	400,00	
40	pcs	2	1	0,67	8,00	232040	40	295,00	275,00	420,00	

Crossover ■■■



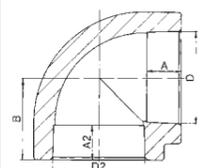
16	pcs	180	1	0,03	0,24	233016	16		35,00	380,00	100,00
20	pcs	100	1	0,07	0,32	233020	20		42,00	400,00	110,00
25	pcs	50	1	0,09	0,64	233025	25		30,00	400,00	100,00
32	pcs	35	1	0,16	0,80	233032	32		35,00	400,00	90,00
40	pcs	20	1	0,33	1,60	233040	40		35,00	400,00	90,00

Crossover with socket ■■■



20	pcs	100	1	0,10	0,24	233120				200	20
25	pcs	50	1	0,12	0,32	233125				200	25

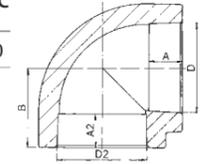
Elbow 90° ■■■



16	pcs	200	50	0,01	0,03	202016	16		13,30	22,00	
20	pcs	300	50	0,02	0,07	202020	20		14,50	25,50	
25	pcs	150	25	0,03	0,12	202025	25		16,00	29,50	
32	pcs	80	10	0,06	0,24	202032	32		18,10	35,00	
40	pcs	40	4	0,11	0,53	202040	40		20,50	41,50	
50	pcs	30	2	0,19	0,96	202050	50		23,50	49,50	
63	pcs	10	2	0,37	1,92	202063	63		27,40	60,00	
75	pcs	6	1	0,52	3,20	202075	75		31,00	68,50	
90	pcs	6	1	0,79	4,80	202090	90		35,50	79,00	
110	pcs	3	1	1,38	5,50	202110	110		41,50	93,00	

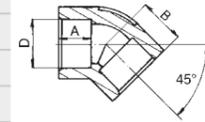
Elbow 90° reduced ■■■

							D, D1	D2	A	B	B1	A2, C
25 x 20	pcs	100	10	0,03	0,12	211025020	25	20	16,00	29,50		14,50



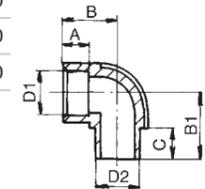
Elbow 45° ■■■

16	pcs	200	50	0,01	0,04	203016	16		13,30	17,50		
20	pcs	400	50	0,01	0,07	203020	20		14,50	19,50		
25	pcs	200	25	0,03	0,12	203025	25		16,00	22,00		
32	pcs	80	10	0,05	0,24	203032	32		18,10	25,50		
40	pcs	30	10	0,09	0,53	203040	40		20,50	30,00		
50	pcs	28	4	0,15	0,96	203050	50		23,50	35,00		
63	pcs	10	2	0,30	1,92	203063	63		27,40	41,50		
75	pcs	6	2	0,46	2,40	203075	75		30,00	48,00		
90	pcs	6	1	0,73	3,20	203090	90		33,00	54,10		
110	pcs	5	1	0,73	3,20	203110	110		37,00	62,10		



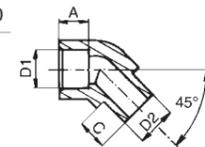
Elbow 90° internal/external ■■■

20	pcs	400	50	0,01	0,05	204020	20	20	14,50	27,00	33,00	16,50
25	pcs	200	25	0,03	0,14	204025	25	25	16,00	32,00	38,00	18,00
32	pcs	100	20	0,07	0,22	204032	32	32	18,00	36,50	42,20	16,00

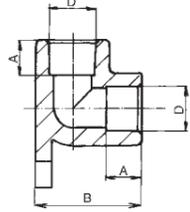


Elbow 45° internal/external ■■■

16	pcs	280	20	0,01	0,04	205016	16	16	13,30			15,00
20	pcs	200	20	0,02	0,07	205020	20	20	14,50			16,50

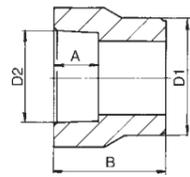


Elbow 90° for wall mounting (welding) ■ ■ ■



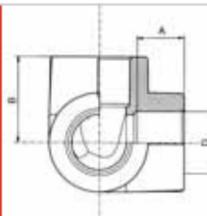
								D, D1	D2	A	B	A2, B1
20	pcs	60	10	0,02	0,16	206020		20		14,50		40,00
25	pcs	40	10	0,04	0,32	206025		25		16,00		51,00

Reduction internal/external ■ ■ ■



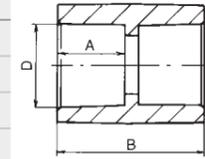
20 × 16	pcs	400	50	0,01	0,02	210020016	20	16	13,30			29,30
25 × 16	pcs	300	50	0,01	0,03	210025016	25	16	13,30			31,80
25 × 20	pcs	400	50	0,01	0,05	210025020	25	20	14,50			33,00
32 × 20	pcs	300	10	0,03	0,13	210032020	32	20	14,50			37,00
32 × 25	pcs	200	10	0,03	0,12	210032025	32	25	16,00			38,50
40 × 20	pcs	180	10	0,02	0,13	210040020	40	20	14,50			41,50
40 × 25	pcs	180	30	0,03	0,16	210040025	40	25	16,00			43,00
40 × 32	pcs	150	10	0,04	0,24	210040032	40	32	18,10			45,10
50 × 32	pcs	80	10	0,05	0,27	210050032	50	32	18,10			50,60
50 × 40	pcs	60	10	0,05	0,30	210050040	50	40	20,50			53,00
63 × 32	pcs	60	10	0,07	0,32	210063032	63	32	18,10			44,00
63 × 40	pcs	50	10	0,08	0,40	210063040	63	40	20,50			60,00
63 × 50	pcs	40	10	0,12	0,60	210063050	63	50	23,50			63,00
75 × 40	pcs	20	10	0,12	0,60	210075040	75	40	20,50			64,50
75 × 50	pcs	20	2	0,12	0,80	210075050	75	50	23,50			57,50
75 × 63	pcs	24	2	0,21	1,37	210075063	75	63	27,40			70,90
90 × 63	pcs	25	1	0,24	0,98	210090063	90	63	27,40			77,90
90 × 75	pcs	20	1	0,27	2,40	210090075	90	75	31,00			80,50
110 × 75	pcs	1	1	0,30	1,32	210110075	110	75	30,00			64,00
110 × 90	pcs	9	1	0,50	2,80	210110090	110	90	35,50			92,50

Three-way elbow



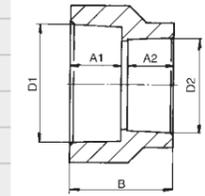
20	pcs	50	10	0,03	0,13	242020	20		14,50	26,80	
25	pcs	50	10	0,04	0,17	242025	25		16,00	29,50	
32	pcs	20	5	0,06	0,20	242032	32		18,00	35,00	

Socket ■ ■ ■



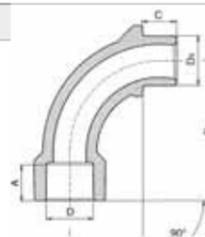
								D, D1, D3	D2	A	A1, C	A2	B
16	pcs	300	50	0,01	0,03	201016		16		13,30			29,00
20	pcs	400	50	0,01	0,05	201020		20		14,50			32,00
25	pcs	200	25	0,03	0,10	201025		25		16,00			35,00
32	pcs	100	10	0,04	0,19	201032		32		18,10			39,00
40	pcs	100	10	0,06	0,24	201040		40		20,50			44,00
50	pcs	40	4	0,11	0,60	201050		50		23,50			50,00
63	pcs	30	2	0,19	0,87	201063		63		27,40			58,00
75	pcs	15	1	0,27	1,92	201075		75		31,00			64,00
90	pcs	10	1	0,42	2,40	201090		90		35,50			71,00
110	pcs	4	1	0,67	2,80	201110		110		41,50			79,00

Reduction ■ ■ ■



20 × 16	pcs	200	50	0,01	0,05	209020016	20	16	14,50	13,30	33,00	
25 × 20	pcs	300	50	0,02	0,11	209025020	25	20	16,00	14,50	38,00	
32 × 20	pcs	180	10	0,02	0,13	209032020	32	20	18,10	14,50	38,00	
32 × 25	pcs	150	10	0,03	0,13	209032025	32	25	18,10	16,00	38,00	
40 × 32	pcs	order equivalent reduction external/internal 63 x 32										
50 × 40	pcs	40	4	0,09	0,60	209050040	50	40	23,50	20,50	47,00	
63 × 50	pcs	24	2	0,17	0,80	209063050	63	50	27,40	23,50	54,00	

Bend

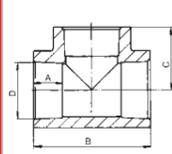


20	pcs	100	10	0,03	0,12	241020	20		14,50	13,00		56,00
----	-----	-----	----	------	------	--------	----	--	-------	-------	--	-------

Have you ever had problems when slipping the rolled-up end of the heated pipe onto a fitting? Try using a common knife or special preparation to slide the outer rim of the pipe end intended for heating at an angle of 30 – 45 degrees, particularly at bigger diameters, i.e. from 40 mm up. You will prevent the material from ruffling.

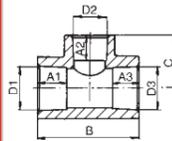


Tee ■ ■ ■



								D, D1, D3	D2	A, A1, A3	A2	B	C
16	pcs	150	50	0,02	0,08	208016	16		13,30			44,00	22,00
20	pcs	160	20	0,03	0,12	208020	20		14,50			51,00	25,50
25	pcs	120	20	0,04	0,24	208025	25		16,00			59,00	29,50
32	pcs	60	10	0,08	0,40	208032	32		18,10			70,00	35,00
40	pcs	48	4	0,13	0,96	208040	40		20,50			83,00	41,50
50	pcs	22	2	0,25	1,60	208050	50		23,50			99,00	49,50
63	pcs	9	1	0,46	2,74	208063	63		27,40			120,00	60,00
75	pcs	6	1	0,62	3,20	208075	75		31,00			137,00	68,50
90	pcs	5	1	0,99	4,80	208090	90		35,50			158,00	79,00
110	pcs	2	1	1,78	5,50	208110	110		41,50			186,00	93,00

Tee reduced ■ ■ ■

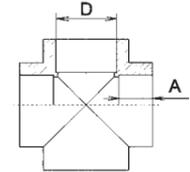


20 × 16 × 20	pcs	100	10	0,03	0,10	212020016	20	16	14,50	13,30	47,00	24,00
20 × 25 × 20	pcs	150	50	0,03	0,24	212020025	20	25	14,50	16,00	64,00	27,00
25 × 20 × 20	pcs	50	10	0,05	0,24	212025021	25/20*	20	16/14,5*	14,50	52,50	28,00
25 × 20 × 25	pcs	120	20	0,04	0,24	212025020	25	20	16,00	14,50	54,00	28,00
32 × 20 × 32	pcs	90	10	0,07	0,38	212032020	32	20	18,10	14,50	58,00	31,50
32 × 25 × 32	pcs	80	10	0,07	0,38	212032025	32	25	18,10	16,00	63,00	33,00
40 × 20 × 40	pcs	60	10	0,09	0,46	212040020	40	20	20,50	14,50	63,00	35,50
40 × 25 × 40	pcs	50	10	0,13	0,64	212040025	40	25	20,50	16,00	68,00	37,00
40 × 32 × 40	pcs	50	10	0,13	0,64	212040032	40	32	20,50	18,10	75,00	39,00
50 × 25 × 50	pcs	40	4	0,18	0,96	212050025	50	25	23,50	16,00	74,00	42,00
50 × 32 × 50	pcs	30	2	0,19	0,96	212050032	50	32	23,50	18,10	81,00	44,00
50 × 40 × 50	pcs	14	2	0,21	0,96	212050040	50	40	23,50	20,50	89,00	46,50
63 × 32 × 63	pcs	10	2	0,35	1,92	212063032	63	32	27,40	18,10	89,00	50,50
63 × 40 × 63	pcs	10	2	0,34	1,92	212063040	63	40	27,40	20,50	97,00	53,00
63 × 50 × 63	pcs	10	2	0,39	1,92	212063050	63	50	27,40	23,50	107,00	56,00
90 × 63 × 90	pcs	5	1	0,77	4,80	212090063	90	63	35,50	27,40	131,00	73,50
90 × 75 × 90	pcs	5	1	0,85	4,80	212090075	90	75	35,50	31,00	143,00	76,00

*) D1=25, D2=20, D3=20 / A1=16,0, A2=14,5, A3=14,5

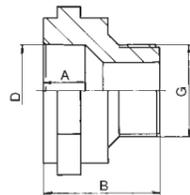
Cross piece ■ ■ ■

								D, D1	G	A	B
20	pcs	100	10	0,03	0,16	235020	20		14,50		
25	pcs	100	10	0,04	0,24	235025	25		16,00		
32	pcs	50	10	0,06	0,32	235032	32		18,00		



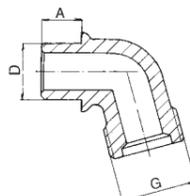
Reducing sleeve with plastic male thread ■ ■ ■

20 × 1/2"	pcs	300	20	0,01	0,03	213020	20	1/2"	14,50	32,00	
20 × 3/4"	pcs	100	20	0,02	0,04	213021	20	3/4"	14,50	44,00	
25 × 3/4"	pcs	100	20	0,02	0,05	213025	25	3/4"	16,00	45,00	
32 × 1"	pcs	100	10	0,03	0,10	213032	32	1"	18,10	54,00	
40 × 5/4"	pcs	60	10	0,07	0,20	213040	40	5/4"	20,50	57,50	
50 × 6/4"	pcs	40	10	0,12	0,35	213050	50	6/4"	23,50	65,00	
63 × 2"	pcs	20	2	0,22	0,50	213063	63	2"	27,40	75,00	



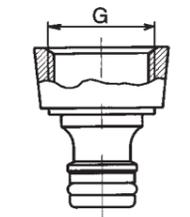
Tap elbow for welding internal ■ ■ ■

20 × 3/4"	pcs	150	10	0,02	0,08	207020	20	3/4"	14,50		
25 × 1"	pcs	100	10	0,03	0,10	207025	25	1"	16,00		

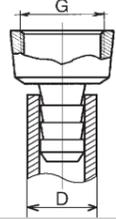


Threaded tap connector (fast) ■ ■ ■

3/4"	pcs	250	50	0,01	0,05	31034		3/4"			
1"	pcs	200	50	0,01	0,08	31011		1"			

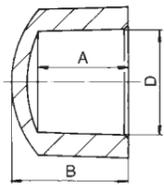


Threaded tap connector



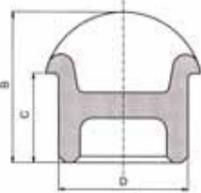
							D	D1, G	A	B	B1	C, G
3/4"	pcs	450	50	0,01	0,05	30934	20	3/4"				
1"	pcs	225	25	0,01	0,08	30911	25	1"				

Blinding



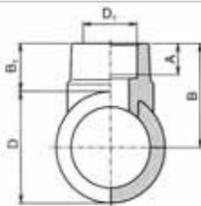
16	pcs	500	50	0,01	0,02	229016	16		13,30	18,50		
20	pcs	300	20	0,01	0,04	229020	20		14,50	21,00		
25	pcs	200	20	0,01	0,05	229025	25		16,00	26,00		
32	pcs	120	10	0,03	0,12	229032	32		18,10	31,00		
40	pcs	60	10	0,05	0,24	229040	40		20,50	32,50		
50	pcs	60	4	0,09	0,30	229050	50		23,50	47,00		
63	pcs	30	2	0,15	0,40	229063	63		27,40	51,00		
75	pcs	5	1	0,26	0,50	229075	75		30,00	60,00		
90	pcs	1	1	0,42	0,60	229090	90		33,00	69,00		
110	pcs	1	1	0,53	0,70	229110	110		37,00	79,00		

Blinding internal



20	pcs	150	30	0,01	0,04	229021	20	20		23,50		14,50
25	pcs	200	50	0,01	0,06	229026	25	25		29,00		16,00

All plastic weld in saddle

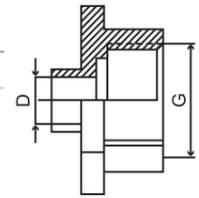
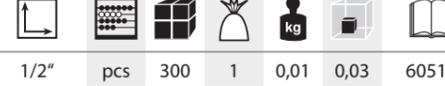


63 x 32	pcs	120	10	0,03	0,17	238063032	63	32	18,00	58,50	27,00	
75 x 32	pcs	120	10	0,03	0,17	238075032	75	32	18,00	64,50	27,00	
90 x 32	pcs	120	10	0,03	0,17	238090032	90	32	18,00	72,00	27,00	
110 x 32	pcs	120	10	0,03	0,17	238110032	110	32	18,00	80,70	25,70	

In case you need an additional branch on the existing piping, use an all plastic weld in saddle. The fittings range makes a branch possible of 32 mm or a branch with a thread. You can make a branch in the pipe with the diameter of 63, 75, 90 and 110 mm. Using special tools is necessary – a drill and special adapters to weld the proper socket.



Plastic nut



							D, G	D1	C, G
1/2"	pcs	300	1	0,01	0,03	60512	10,50		1/2"

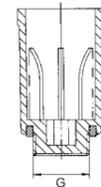
Washer

66/22 mm	pcs	300	100	0,01	0,01	913					
----------	-----	-----	-----	------	------	-----	--	--	--	--	--



Pressure plug long

							Color	G
1/2"	pcs	120	10	0,02	0,14	91406	blue	1/2"
1/2"	pcs	120	10	0,02	0,14	91405	red	1/2"
1/2"	pcs	120	10	0,02	0,14	91407	ECO black	1/2"



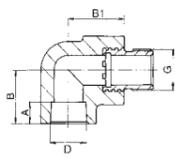
Pressure plug short

1/2"	pcs	400	50	0,01	0,04	91401		1/2"
------	-----	-----	----	------	------	-------	--	------



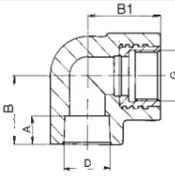
Combination Fittings

Elbow 90° with metal male thread



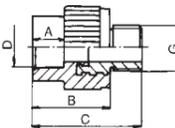
							D	G	A	B	B1	C
20 × 1/2"	pcs	70	10	0,09	0,16	216020	20	1/2"	14,50	27,00	32,00	
20 × 3/4"	pcs	50	10	0,14	0,32	216021	20	3/4"	14,50	27,00	35,00	
25 × 1/2"	pcs	60	10	0,13	0,32	216026	25	1/2"	16,00	40,00	41,00	
25 × 3/4"	pcs	40	10	0,15	0,32	216025	25	3/4"	16,00	40,00	41,00	
32 × 1"	pcs	40	5	0,22	0,60	216032	32	1"	18,10	44,00	48,00	

Elbow 90° with metal female thread



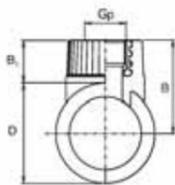
20 × 1/2"	pcs	80	10	0,06	0,16	218020	20	1/2"	14,50	27,00	32,00	
20 × 3/4"	pcs	50	10	0,13	0,32	218021	20	3/4"	14,50	40,00	41,00	
25 × 1/2"	pcs	60	10	0,10	0,32	218026	25	1/2"	16,00	40,00	41,00	
25 × 3/4"	pcs	50	10	0,12	0,32	218025	25	3/4"	16,00	40,00	41,00	
32 × 1"	pcs	40	5	0,20	0,60	218032	32	1"	18,10	44,00	48,00	

Reducing sleeve with metal male thread



16 × 1/2"	pcs	100	10	0,09	0,10	215016	16	1/2"	13,30	41,00	56,00	
20 × 1/2"	pcs	100	10	0,08	0,10	215020	20	1/2"	14,50	41,00	56,00	
20 × 3/4"	pcs	70	10	0,14	0,16	215021	20	3/4"	14,50	43,00	56,50	
25 × 1/2"	pcs	50	10	0,10	0,15	215026	25	1/2"	16,00	44,00	57,50	
25 × 3/4"	pcs	60	10	0,14	0,16	215025	25	3/4"	16,00	44,00	58,00	
32 × 1"	pcs	80	10	0,19	0,27	215032	32	1"	18,10	47,00	65,00	
40 × 5/4"	pcs	40	4	0,31	0,46	215040	40	5/4"	20,50	52,50	79,50	
50 × 6/4"	pcs	20	4	0,34	0,69	215050	50	6/4"	23,50	55,50	86,00	
63 × 2"	pcs	12	1	0,73	1,37	215063	63	2"	27,40	63,50	97,00	
75 × 2,5"	pcs	9	1	1,11	2,74	215075	75	2,5"	31,00	65,00	108,00	
90 × 3"	pcs	6	1	1,64	3,20	215090	90	3"	35,50	79,00	120,00	

Weld in saddle with metal female thread

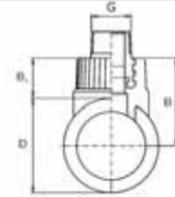


63 × 3/4"	pcs	120	10	0,08	0,17	236063032	63	3/4"	58,5	27	
75 × 3/4"	pcs	120	10	0,08	0,17	236075032	75	3/4"	64,5	27	
90 × 3/4"	pcs	120	10	0,08	0,17	236090032	90	3/4"	72	27	

Weld in saddle with metal male thread

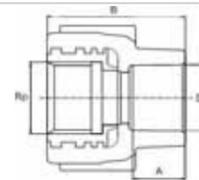


							D	G	A	B	B1
63 × 3/4"	pcs	120	10	0,11	0,17	237063032	63	3/4"	58,50	76,30	
75 × 3/4"	pcs	120	10	0,11	0,17	237075032	75	3/4"	64,50	82,30	
90 × 3/4"	pcs	120	10	0,11	0,17	237090032	90	3/4"	70,00	89,80	



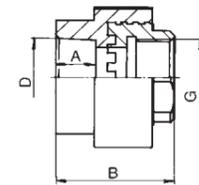
Reducing sleeve with metal female thread with cross

20 × 1/2"	pcs	120	10	0,06	0,06	217022	20	1/2"	14,50	42,00	
-----------	-----	-----	----	------	------	--------	----	------	-------	-------	--



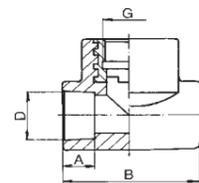
Reducing sleeve with metal female thread

16 × 1/2"	pcs	100	10	0,06	0,10	217016	16	1/2"	13,30	43,00	
20 × 1/2"	pcs	100	10	0,06	0,10	217020	20	1/2"	14,50	37,00	
20 × 3/4"	pcs	70	10	0,11	0,16	217021	20	3/4"	14,50	50,00	
25 × 1/2"	pcs	100	10	0,06	0,16	217026	20	1/2"	16,00	50,00	
25 × 3/4"	pcs	60	10	0,10	0,16	217025	25	3/4"	16,00	50,00	
32 × 1"	pcs	60	10	0,18	0,27	217032	32	1"	18,10	55,00	
40 × 5/4"	pcs	25	5	0,31	0,46	217040	40	5/4"	20,50	57,00	
50 × 6/4"	pcs	20	2	0,37	0,69	217050	50	6/4"	23,50	52,50	
63 × 2"	pcs	10	1	0,66	1,37	217063	63	2"	27,40	63,50	



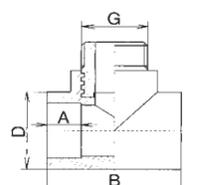
Tee with metal female thread

20 × 1/2"	pcs	60	10	0,07	0,19	222020	20	1/2"	14,50	54,00	
25 × 1/2"	pcs	40	10	0,08	0,24	222026	25	1/2"	16,00	68,80	
25 × 3/4"	pcs	30	10	0,13	0,32	222025	25	3/4"	16,00	66,00	
32 × 1"	pcs	40	5	0,22	0,60	222032	32	1"	18,10	74,00	

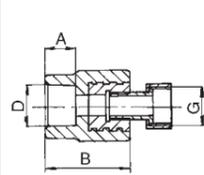


Tee with metal male thread

20 × 1/2"	pcs	100	10	0,09	0,19	222520	20	1/2"	14,50	54,00	
25 × 1/2"	pcs	40	10	0,10	0,24	222526	25	1/2"	16,00	68,80	
25 × 3/4"	pcs	30	10	0,17	0,32	222525	25	3/4"	16,00	66,00	

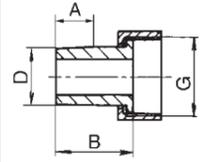


Metal reducer with cap nut



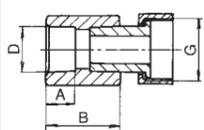
							D	G	A	B
16 × 1/2"	pcs	120	10	0,05	0,05	223016	16	1/2"	13,30	43,00
16 × 3/4"	pcs	100	10	0,08	0,06	223017	16	3/4"	13,30	43,00
20 × 1/2"	pcs	120	10	0,05	0,05	223020	20	1/2"	14,50	43,00
20 × 3/4"	pcs	100	10	0,08	0,06	223021	20	3/4"	14,50	37,00
20 × 1"	pcs	50	10	0,23	0,06	223022	20	1"	14,50	50,00
25 × 3/4"	pcs	100	10	0,26	0,06	223024	25	3/4"	16,00	50,00
25 × 1"	pcs	40	10	0,26	0,07	223025	25	1"	16,00	50,00
32 × 5/4"	pcs	25	5	0,38	0,12	223032	32	5/4"	18,10	55,00

Union plastic/brass unwelded



20 × 3/4"	pcs	150	50	0,04	0,05	225021	20	3/4"	14,50	32,00
25 × 1"	pcs	80	20	0,07	0,10	225026	25	1"	16,00	35,00
32 × 5/4"	pcs	45	15	0,10	0,18	225033	32	5/4"	18,00	49,00
40 × 6/4"	pcs	40	1	0,16	0,22	225040	40	6/4"	20,50	51,50
50 × 2"	pcs	20	1	0,30	0,41	225050	50	2"	23,50	60,50
with the sealing hole										
20 × 3/4"	pcs	150	50	0,04	0,05	225022	20	3/4"	14,80	32,00

Plastic reducing sleeve with cap nut



16 × 3/4"	pcs	220	20	0,05	0,16	226017	16	3/4"	13,00	38,00
20 × 1/2"	pcs	300	25	0,04	0,16	226020	20	1/2"	14,50	32,00
20 × 3/4"	pcs	200	20	0,05	0,16	226021	20	3/4"	14,50	32,00
25 × 3/4"	pcs	150	10	0,05	0,19	226025	25	3/4"	16,00	35,00
25 × 1"	pcs	120	10	0,09	0,19	226026	25	1"	16,00	35,00
32 × 1"	pcs	100	10	0,10	0,48	226032	32	1"	18,00	43,00
with the sealing hole										
20 × 3/4"	pcs	200	10	0,05	0,16	226022	20	3/4"	14,50	32,00
25 × 3/4"	pcs	150	10	0,05	0,19	226027	25	3/4"	16,00	35,00

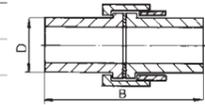
Screwed joints at combined fittings with a metal thread need to be sealed only with a Teflon band or special sealing putty containing Teflon. It is sufficient to apply it on the first two or three threads. Never use classical hemp – after it absorbs water, the thread may crack due to the inner pressure.



Coupling with nut

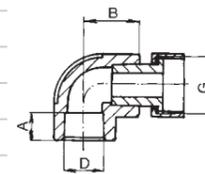


							D	G	A	B, R	C
20	pcs	200	10	0,08	0,15	224020	20			73,00	
25	pcs	120	5	0,12	0,20	224025	25			93,50	
32	pcs	70	5	0,19	0,25	224032	32			93,50	
40	pcs	50	5	0,27	0,35	224040	40			105,00	
50	pcs	25	5	0,49	0,65	224050	50			123,40	



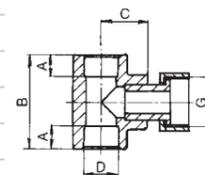
Elbow 90° plastic reducing sleeve with cap nut

20 × 1/2"	pcs	250	25	0,04	0,02	227020	20	1/2"	14,50	35,00
20 × 3/4"	pcs	180	20	0,06	0,03	227021	20	3/4"	14,50	32,50
25 × 3/4"	pcs	120	10	0,06	0,10	227025	25	3/4"	16,00	29,50
with the sealing hole										
20 × 3/4"	pcs	180	20	0,06	0,02	227022	20	3/4"	14,50	32,50



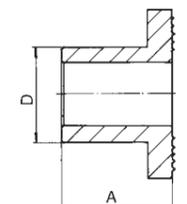
Tee plastic reducing sleeve with cap nut

20 × 3/4" × 20	pcs	130	10	0,07	0,24	228021	20	3/4"	14,50	51,00	25,50
25 × 3/4" × 25	pcs	80	10	0,08	0,32	228025	25	3/4"	16,00	54,00	28,00
32 × 3/4" × 32	pcs	60	10	0,11	0,38	228033	32	3/4"	18,10	58,00	31,50
32 × 1" × 32	pcs	50	10	0,13	0,38	228032	32	1"	18,10	63,00	33,00
with the sealing hole											
20 × 3/4" × 20	pcs	120	20	0,07	0,24	228022	20	3/4"	14,50	51,00	25,50
25 × 3/4" × 25	pcs	80	10	0,08	0,32	228026	25	3/4"	16,00	54,00	28,00

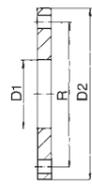


Flange adaptor

40	pcs	40	4	0,07	0,35	230040	40		49,00	
50	pcs	40	2	0,10	0,55	230050	50		55,0	
63	pcs	20	2	0,15	0,67	230063	63		60,00	
75	pcs	15	1	0,26	1,20	230075	75		66,00	
90	pcs	10	1	0,37	1,35	230090	90		80,00	
110	pcs	5	1	0,62	2,45	230110	110		103,00	

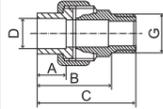


Flange



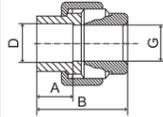
								D, D1	D2, G	A	B, R	B1	C
40	pcs	1	1	1,42	0,35	231040		43	140		100,00		
50	pcs	1	1	1,82	0,38	231050		53	150		110,00		
63	pcs	1	1	2,23	0,45	231063		66	165		125,00		
75	pcs	1	1	2,48	0,55	231075		78	185		145,00		
90	pcs	1	1	3,25	0,80	231090		95	200		160,00		
110	pcs	1	1	3,60	0,97	231110		114	220		180,00		

Transition union male



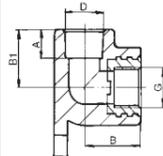
20 x 1/2"	pcs	125	1	0,11	0,09	237020	20	1/2"	14,50	41,00		53,00
25 x 3/4"	pcs	65	1	0,19	0,17	237025	25	3/4"	16,00	44,00		59,00
32 x 1"	pcs	50	1	0,25	0,22	237032	32	1"	18,10	46,00		63,00
40 x 5/4"	pcs	25	1	0,36	0,44	237040	40	5/4"	20,50	51,00		68,00
50 x 6/4"	pcs	20	1	0,59	0,55	237050	50	6/4"	23,50	52,00		70,00
63 x 2"	pcs	8	1	1,03	1,37	237063	63	2"	27,40	64,00		90,00

Transition union female



20 x 1/2"	pcs	150	1	0,10	0,07	236020	20	1/2"	14,50	41,00		
25 x 3/4"	pcs	75	1	0,16	0,15	236025	25	3/4"	16,00	44,00		
32 x 1"	pcs	50	1	0,19	0,22	236032	32	1"	18,10	46,00		
40 x 5/4"	pcs	30	1	0,32	0,36	236040	40	5/4"	20,50	51,00		
50 x 6/4"	pcs	25	1	0,48	0,55	236050	50	6/4"	23,50	52,00		
63 x 2"	pcs	8	1	0,82	1,37	236063	63	2"	27,40	64,00		

Elbow 90° for wall mounting



16 x 1/2"	pcs	50	10	0,07	0,21	219016	16	1/2"	13,30	35,00	26,50	
20 x 1/2"	pcs	100	10	0,07	0,21	219020	20	1/2"	14,50	35,00	26,50	
25 x 1/2"	pcs	30	10	0,12	0,36	219026	25	1/2"	16,00	40,00	40,00	
25 x 3/4"	pcs	30	10	0,13	0,36	219025	25	3/4"	16,00	40,00	40,00	

Elbow 90° for wall mounting internal/external

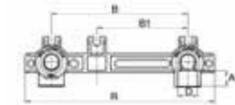


20 x 1/2"	pcs	150	10	0,06	0,21	239020	20	1/2"		42,00	39,00	14,00
-----------	-----	-----	----	------	------	--------	----	------	--	-------	-------	-------

Wall elbows with holder

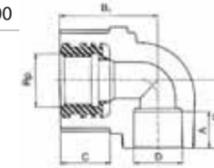


								D	G	A	B	B1, C	R
20 x 1/2"	pcs	30	1	0,23	0,88	219120		20	1/2"	15,00	150	100	210



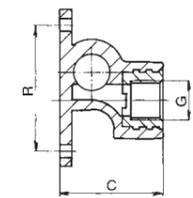
Elbow for gypsum wall mounting

20 x 1/2"	pcs	40	1	0,13	1,02	240020	20	1/2"	15,00	27,00	44,00	25,00
-----------	-----	----	---	------	------	--------	----	------	-------	-------	-------	-------



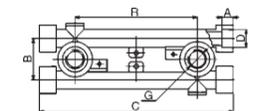
Tee with tap connector

20 x 1/2"	pcs	60	10	0,08	0,21	220020	20	1/2"	14,50		58,00	50,00
25 x 1/2"	pcs	80	10	0,09	0,36	220026	25	1/2"	16,00		55,00	78,00



Wall mounting group with tap connectors

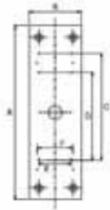
2 x 20 x 1/2"	pcs	15	1	0,20	1,37	221020	20	1/2"	14,50	44,00	212,00	113,00
2 x 25 x 1/2"	pcs	10	1	0,31	1,32	221025	25	1/2"	16,00	51,00	230,00	110/125 /140



Have you ever had a problem with battery mounting? It is advisable to use a wall set when the piping leads in plaster where the thread spacing is set so that piping roughness could be straightened up by eccentric pipes. Using the set guarantees a high quality and fast mounting preventing inaccuracy. The thread spacing is the same as the one of the battery. It can be set to 100, 113, 135 or 150 mm.

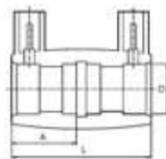


Assembling plate for elbow 90° for wall mounting



							A	B	C	D	E	F
	pcs	60	10	0,08	0,15	912	220	64	135	110	40	45

Electro-fusion socket



							A	D, D1	L
20	pcs	1	0,03	0,02	234020	26,5	20	55	
25	pcs	1	0,04	0,05	234025	26,5	25	55	
32	pcs	1	0,05	0,10	234032	25	32	52	
40	pcs	1	0,60	0,20	234040	25	40	52	
50	pcs	1	0,08	0,30	234050	25	50	52	
63	pcs	1	0,12	0,60	234063	30	63	63	
75	pcs	1	0,16	0,90	234075	33	75	70	
90	pcs	1	0,21	1,10	234090	36	90	75	
110	pcs	1	0,36	1,80	234110	40	110	87	



Notes

Blank lined area for notes.

VALVES

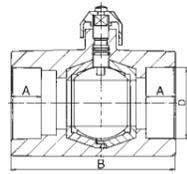


Valves have a seemingly easy task – to close or turn down the water way. The important thing is that it is carried out in a reliable way with a thousandfold repetition and long service life.

- 28 Plastic Tap Valves
- 29 Plastic Ball Valves
- 30 Special Plastic Valves

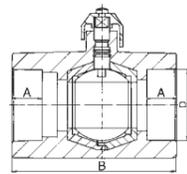


Ball valve plastic



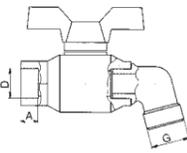
							D	G	A	B
16	pcs	40	10	0,12	0,17	301016	16		13,00	74,50
20	pcs	40	10	0,12	0,34	301020	20		14,50	74,50
25	pcs	40	2	0,21	0,69	301025	25		16,00	73,00
32	pcs	20	2	0,36	0,69	301032	32		18,00	91,00
40	pcs	15	1	0,36	1,60	301040	40		20,50	105,00
50	pcs	9	1	0,65	1,60	301050	50		23,50	121,50
63	pcs	6	1	1,12	4,80	301063	63		27,50	144,00
75	pcs	4	1	1,83	4,80	301075	75		30,00	165,00

Ball valve plastic with PV valve



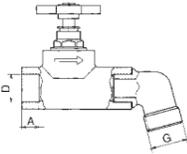
20	pcs	60	10	0,14	0,37	302020	20		14,50	74,50
25	pcs	60	4	0,14	0,40	302025	25		16,00	78,50
32	pcs	30	2	0,24	0,80	302032	32		18,00	91,00
40	pcs	20	2	0,38	1,60	302040	40		20,50	105,00
50	pcs	18	1	0,66	1,60	302050	50		23,50	121,50
63	pcs	8	1	1,14	4,80	302063	63		27,50	144,00
75	pcs	5	1	1,85	4,80	302075	75		30,00	165,00

Ball valve with threaded elbow for hose connection



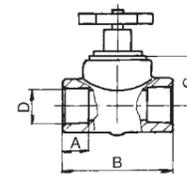
20	pcs	50	10	0,14	0,39	303020	20	3/4"	14,50	
25	pcs	40	2	0,15	0,77	303025	25	1"	16,00	

Valve with threaded elbow for hose connection



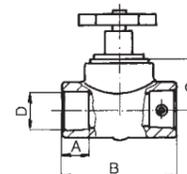
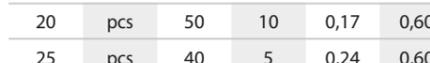
20	pcs	50	10	0,17	0,65	306020	20	3/4"	14,50	
25	pcs	40	10	0,24	0,68	306025	25	1"	16,00	

Straight-way valve



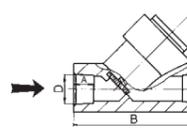
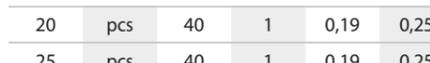
							D	A	B	C
20	pcs	60	10	0,15	0,60	304020	20	14,50	76,00	26,00
25	pcs	40	10	0,21	0,60	304025	25	16,00	82,00	35,00
32	pcs	35	5	0,32	0,96	304032	32	18,00	94,00	38,00
40	pcs	20	2	0,40	1,07	304040	40	20,50	107,00	38,00
50	pcs	10	1	0,75	1,92	304050	50	23,50	135,00	56,00
63	pcs	1	1	1,29	2,10	304063	63	27,50	160,00	60,00

Straight-way valve with PV valve



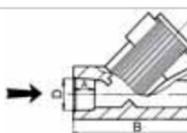
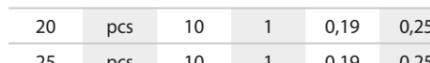
20	pcs	50	10	0,17	0,60	305020	20	14,50	76,00	26,00
25	pcs	40	5	0,24	0,60	305025	25	16,00	82,00	35,00
32	pcs	30	2	0,35	0,96	305032	32	18,00	94,00	38,00
40	pcs	20	2	0,42	1,07	305040	40	20,50	107,00	38,00

Back flow valve



20	pcs	40	1	0,19	0,25	308020	20	14,50	91,00
25	pcs	40	1	0,19	0,25	308025	25	16,00	91,00
32	pcs	40	1	0,16	0,56	308032	32	18,00	95,00

Filter

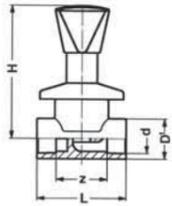


20	pcs	10	1	0,19	0,25	308021	20	14,5	91
25	pcs	10	1	0,19	0,25	308026	25	16	91
32	pcs	40	1	0,16	0,56	308033	32	18	95

In case it is necessary to provide dismantlable joints application in the valve in the piping, weld the pipe matching the combined reducer with a thread on the valve. If necessary, it is possible to dismantle and exchange the valve easily.

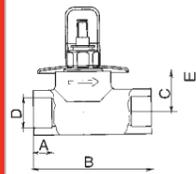


Shut off valve lux straight with chrome handle



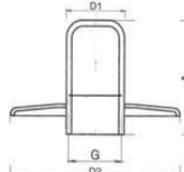
							D, D1	G	A	B	C, G1	G, R
20	pcs	15	1	0,25		322020	20		14,50	76,00	26,00	42,00
25	pcs	12	1	0,30		322025	25		16,00	82,00	35,00	61,00

Shut off valve straight with cover



Shut off valve straight with metal cover												
20	pcs	20	1	0,17		313020	20		14,50	76,00	26,00	42,00
20L	pcs	20	1	0,17		313021	20		14,50	76,00	26,00	49,00
25	pcs	15	1	0,21		313025	25		16,00	82,00	35,00	61,00
25L	pcs	15	1	0,21		313026	25		16,00	82,00	35,00	68,00
Shut off valve straight with plastic cover												
20	pcs	20	1	0,17		321020	20		14,50	76,00	26,00	42,00
20L	pcs	20	1	0,17		321021	20		14,50	76,00	26,00	49,00
25	pcs	15	1	0,21		321025	25		16,00	82,00	35,00	61,00
25L	pcs	15	1	0,21		321026	25		16,00	82,00	35,00	68,00

Cover for shut off valve straight



Stainless cover for shut off valve straight												
	pcs	1	1	0,04		314020			45,00			1/2"
Nicked cover for shut off valve straight												
	pcs	1	1	0,03		315020			38,00			1/2"
L	pcs	1	1	0,04		315021			80,00			1/2"
Plastic cover for shut off valve straight												
	pcs	1	1	0,02		356020			38,00			1/2"
L	pcs	1	1	0,03		356021			80,00			1/2"

Inside the valve



to order on request only

ACCESSORIES

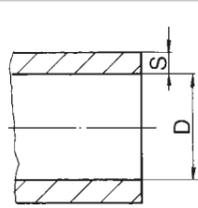


It is necessary to finish the assembly with proper insulation and mechanical fixing for its proper function.

- 32 Insulation
- 33 Seals
- 34 Clamping and Supports



Pipe insulation Tubex (foamed PE)



							D	S				
18 × 6	m	520	2	0,01	0,92	50801806	18	6				
18 × 10	m	320	2	0,02	1,50	50801810	18	9				
22 × 6	m	400	2	0,02	1,20	50802206	22	6				
22 × 10	m	270	2	0,04	1,78	50802210	22	9				
28 × 6	m	280	2	0,02	1,71	50802806	28	6				
28 × 10	m	190	2	0,04	2,53	50802810	28	9				
35 × 6	m	210	2	0,03	2,29	50803506	35	6				
35 × 10	m	150	2	0,04	3,20	50803510	35	9				
42 × 10	m	120	2	0,04	4,00	50804210	42	9				
42 × 15	m	80	2	0,07	6,00	50804215	42	13				
52 × 10	m	80	2	0,07	6,00	50805210	52	9				
52 × 15	m	70	2	0,10	6,86	50805215	52	13				
65 × 10	m	66	2	0,08	7,27	50806510	65	9				
65 × 15	m	54	2	0,11	8,89	50806515	65	13				
76 × 10	m	50	2	0,11	9,60	50807610	76	9				
76 × 15	m	38	2	0,11	12,63	50807615	76	13				
92 × 15	m	28	2	0,14	17,14	50809215	92	13				
92 × 20	m	24	2	0,20	20,00	50809220	92	20				
114 × 15	m	20	2	0,56	24,00	50811415	114	15				

Adhesive tape



m	25	25	0,01	3,60	503							
---	----	----	------	------	-----	--	--	--	--	--	--	--

Insulation adhesive tape



20 m	pcs	40	1	0,18	0,29	502021						
------	-----	----	---	------	------	--------	--	--	--	--	--	--

Insulation clip

pcs	100	100	0,01	0,01	505							



Insulation felt

pcs	150	50	0,16	3,10	506							
-----	-----	----	------	------	-----	--	--	--	--	--	--	--



O-ring Taboren

1/2"	pcs	6000	200	0,01	0,01	80112						
3/4"	pcs	3000	100	0,01	0,01	80134						
1"	pcs	2000	100	0,01	0,01	80111						
5/4"	pcs	1400	100	0,01	0,01	80154						
6/4"	pcs	1000	100	0,01	0,01	80164						
2"	pcs	600	100	0,01	0,01	80121						



Teflon insulation tape

12 m	pcs	100	10	0,01	0,06	80412						
------	-----	-----	----	------	------	-------	--	--	--	--	--	--



Why insulate? Warm water piping and central heating must be insulated to prevent thermal losses. Tepid water also provides an ideal breeding ground for bacteria. Moreover, it is necessary to insulate cold water pipework. You will prevent it from dew and dripping which can harm parallel pipework, lead to mould growth or soaked walls. Warming of cold water also leads to deteriorated water quality, again including bacterial contamination.



Plastic clip 



							grey	white	ECO black	
16	pcs	1000	50	0,02	0,03	901016				
20	pcs	400	50	0,03	0,05	901020	W901020	R901020		
25	pcs	400	50	0,05	0,06	901025	W901025	R901025		

Plastic double clip 



2 × 16	pcs	500	50	0,01	0,04	902016				
2 × 20	pcs	500	50	0,02	0,05	902020				
2 × 25	pcs	400	50	0,03	0,06	902025				

Plastic clip with stirrup 



							grey	white		
15	pcs	600	50	0,006	0,036	D906015	DW906015			
18	pcs	600	50	0,006	0,036	D906018	DW906018			
20	pcs	400	50	0,007	0,045	D906020	DW906020			
22	pcs	400	50	0,008	0,054	D906022	DW906022			
25	pcs	400	50	0,008	0,054	D906025	DW906025			

Plastic double clip with stirrup 



							grey	white		
2 × 15	pcs	200	50	0,012	0,108	D907015	DW907015			
2 × 18	pcs	150	50	0,013	0,06	D907018	DW907018			
2 × 20	pcs	300	50	0,014	0,072	D907020	DW907020			
2 × 22	pcs	300	50	0,015	0,072	D907022	DW907022			
2 × 25	pcs	150	50	0,017	0,12	D907025	DW907025			

Spacing clamp for cold water

16-25	pcs	200	50	0,01	0,06	903025				
25-50	pcs	50	25	0,05	0,20	903050				



Plastic clip with strap

32	pcs	500	50	0,02	0,05	904032				
40	pcs	500	50	0,03	0,06	904040				
50	pcs	200	25	0,04	0,16	904050				
63	pcs	100	25	0,05	0,19	904063				
75	pcs	100	1	0,10	0,38	904075				
90	pcs	50	1	0,12	0,50	904090				
110	pcs	30	1	0,15	0,64	904110				



Metal sleeve

20	pcs	100	1	0,04	0,04	905020				
25	pcs	100	1	0,04	0,04	905025				
32	pcs	100	1	0,05	0,05	905032				
40	pcs	100	1	0,06	0,06	905040				
50	pcs	100	1	0,07	0,16	905050				
63	pcs	50	1	0,11	0,19	905063				
75	pcs	50	1	0,16	0,38	905075				
90	pcs	50	1	0,19	0,50	905090				
110	pcs	50	1	0,25	0,64	905110				



Screw combi

M8 × 100	pcs	100	1	0,04	0,04	9180010				
----------	-----	-----	---	------	------	---------	--	--	--	--



Dowels



								A	B				
6 mm	set 10 pcs	800	20	0,01	0,03	91606							
8 mm	set 10 pcs	480	20	0,02	0,04	91608							
10 mm	set 10 pcs	170	10	0,03	0,07	91610							
12 mm	set 10 pcs	120	10	0,04	0,13	91612							

Threaded bar



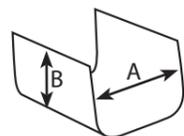
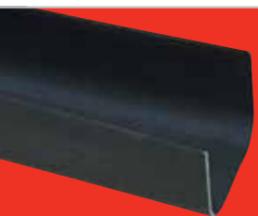
M8 x 1000	pcs	50	1	0,04	0,33	9190100							
-----------	-----	----	---	------	------	---------	--	--	--	--	--	--	--

Tightening belt



400 x 7,6	pcs	100	1	0,01	0,01	908040							
-----------	-----	-----	---	------	------	--------	--	--	--	--	--	--	--

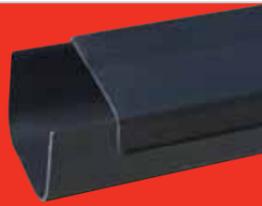
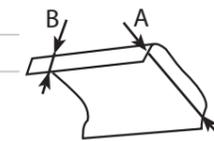
Plastic trough



	pcs	16	4	0,90	4,90	909	125	100					
--	-----	----	---	------	------	-----	-----	-----	--	--	--	--	--

Trough cover plastic

								A	B				
m	2	1	0,80	3,38	910	140	40						



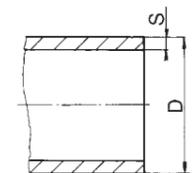
Galvanized trough (2 m length)

16 x 2 m	pcs	2	2	0,29	0,26	911016							
20 x 2 m	pcs	2	2	0,34	0,40	911020							
25 x 2 m	pcs	25	2	0,44	0,63	911025							
32 x 2 m	pcs	25	2	0,53	1,02	911032							
40 x 2 m	pcs	20	2	0,62	1,60	911040							
50 x 2 m	pcs	20	2	0,76	2,50	911050							
63 x 2 m	pcs	15	2	0,90	3,97	911063							
75 x 2 m	pcs	15	2	1,07	5,63	911075							
90 x 2 m	pcs	10	2	1,07	6,59	911090							



RPE tube

kg	1	1	1,00	190									
----	---	---	------	-----	--	--	--	--	--	--	--	--	--



Welding machine (for paired adapter), manual adjustment (SM4), electronics adj. (SE4)



								P (W)			
SM4	pcs	1	1	1,25	4,55	40101	900 W				
SE4	pcs	1	1	1,25	4,55	40102	900 W				

Welding machine (for non-paired adapter), manual adjustment (SM2), electronics adj. (SE3)



SM2	pcs	1	1	1,20	4,55	40401	900 W				
SE3	pcs	1	1	1,20	4,55	40402	900 W				

Dytron Welder Polys P-4 650W



								Way of temperature adjustment			
P-4a	pcs	1	1	1,60	63,00	452A0650	Potentiometer				
P-4b	pcs	1	1	2,00	63,00	452B0650	Manual switch				
P-4c TW	pcs	1	1	2,00	63,00	452C0650	Sound signalization				

Dytron Welder Polys P-4 850W



P-4a	pcs	1	1	2,00	63,00	452A0850	Potentiometer				
P-4c	pcs	1	1	2,00	63,00	452C0800	Three push buttons				

The firmness of the joint is influenced by dirt and humidity. The inner surface of the fitting sleeves and the outer ends intended for welding must therefore be cleaned and degreased with a suitable cleaning towel. You also need to be careful about residual water in the repaired pipes. They need to be wiped dry at the welding point.



Dytron Welder Polys P-4 1200W

								Way of temperature adjustment			
P-4a	pcs	1	1	2,10	63,00	452A1200	Potentiometer				
P-4c	pcs	1	1	2,10	63,00	452C1200	Three push buttons				



Dytron Welder Polys P-1a

Thorn											
650 W	pcs	1	1	1,60	63,00	451A0650	According to the welder model				
Flat											
850 W	pcs	1	1	1,60	63,00	451A0800	According to the welder model				



Dytron Welder Polys P-1b 500W

500 W	pcs	1	1	1,58	63,00	451B0500					
-------	-----	---	---	------	-------	----------	--	--	--	--	--



Set Polys Mini

								Welder model			
	pcs	1	1	5,10	7,56	453A0800M	P-1a 850 W				
	pcs	1	1	5,90	7,56	453A850M	P-4a 650 W				
	pcs	1	1	5,10	7,56	453A0650M	P-1a 650 W				
Specification by price list											



Set Polys



							For the welder model
Komplet Mini Plus							
pcs	1	1	6,60	13,61	453A0650	P-1a 650 W	
pcs	1	1	6,60	13,61	453A0800	P-1a 850 W	
pcs	1	1	6,60	13,61	453B0500	P-1b 500 W	
Komplet Profi							
pcs	1	1	9,40	13,61	454A0651P	P-4a 650 W	
pcs	1	1	9,40	13,61	454B0650	P-4b 650 W	
pcs	1	1	9,40	13,61	454A0850	P-4a 850 W	
pcs	1	1	9,40	13,61	454A1200	P-4a 1200 W	
Specification by price list							

Adapter paired for SM4 and SE4



16	pcs	1	1	0,06	0,03	402016	
20	pcs	1	1	0,06	0,03	402020	
25	pcs	1	1	0,10	0,06	402025	
32	pcs	1	1	0,18	0,10	402032	
40	pcs	1	1	0,23	0,14	402040	
50	pcs	1	1	0,34	0,20	402050	
63	pcs	1	1	0,63	0,32	402063	
75	pcs	1	1	0,84	0,45	402075	
90	pcs	1	1	1,52	0,73	402090	
110	pcs	1	1	1,70	1,69	402110	

Adapter paired for weld in saddle



63x32	pcs	1	1	0,30	0,13	40206332	
75x32	pcs	1	1	0,30	0,15	40207532	
90x32	pcs	1	1	0,30	0,19	40209032	
110x32/40	pcs	1	1	0,43	0,85	40211040	

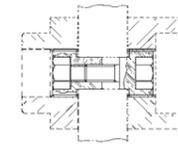
For a longer service life of the welding adaptors, clean them regularly while they are still warm from welding. Use a rag from non-synthetic material not to cause damage on the Teflon layer.



Coupling for adapter paired d16-32



inner							
M5	pcs	1	1	0,01	0,01	41301	
outer							
M5	pcs	1	1	0,01	0,01	41302	



Drill for weld in saddle

32	pcs	1	1	0,20	0,10	40200032	
40	pcs	1	1	0,20	0,10	40200040	



Adapter non-paired for SM2 and SE3

16	pcs	1	1	0,13	0,13	405017	
20	pcs	1	1	0,15	0,15	405021	
25	pcs	1	1	0,16	0,19	405026	
32	pcs	1	1	0,17	0,30	405033	
40	pcs	1	1	0,30	0,41	405041	
50	pcs	1	1	0,40	0,57	405051	
63	pcs	1	1	0,77	0,85	405064	



Imbus

inner							
5	pcs	1	1	0,02	0,01	40305	
outer							
4	pcs	1	1	0,02	0,01	40304	



Case for welding machine (for paired adapter) SM4,SE4
Case for welding machine (for non-paired adapter) SM2,SE3



							For the welder model	
pcs	1	1	1,85	14,00	40801	SM4,	SE4	
pcs	1	1	1,85	14,00	40802	SM2,	SE3	

Repairing set



pcs	1	1	0,29	462				
-----	---	---	------	-----	--	--	--	--

Repairing stake



pcs	1	1	0,07	463				
-----	---	---	------	-----	--	--	--	--

STABI pipes shaver



16-20	pcs	1	1	0,15	0,19	411016			
20-25	pcs	1	1	0,19	0,19	411025			
25-32	pcs	1	1	0,23	0,25	411032			
32-40	pcs	1	1	0,24	0,30	411040			
50	pcs	1	1	0,20	0,30	411050			
63	pcs	1	1	0,30	0,42	411063			
75	pcs	1	1	0,34	0,57	411075			
90	pcs	1	1	0,66	0,91	411090			
110	pcs	1	1	0,72	1,33	411110			

Shavers to drill machine for STABI pipes

16	pcs	1	1	0,15	0,19	411116			
20	pcs	1	1	0,19	0,19	411120			
25	pcs	1	1	0,23	0,25	411125			
32	pcs	1	1	0,24	0,30	411132			
40	pcs	1	1	0,20	0,30	411140			
50	pcs	1	1	0,30	0,42	411150			
63	pcs	1	1	0,72	1,33	411163			



Cordless pipe shears d40

pcs	1	1	0,07	407045				
-----	---	---	------	--------	--	--	--	--



Pipe cutter REMS

d50-110	pcs	1	1	1,20	3,65	409110			
---------	-----	---	---	------	------	--------	--	--	--



Shears

M1 d32	pcs	1	1	0,34	0,96	407032			
M5 d40	pcs	1	1	0,42	0,96	407041			
STANDARD d40	pcs	1	1	0,40	0,96	407044			
ROTURBO d40	pcs	1	1	0,45	0,92	407043			
M4 d63	pcs	1	1	1,17	3,17	407063			



Tightening spanner with belt



pcs	1	1	0,33	0,72	410				

Spiral for sewer cleaning



2,5 m	pcs	1	1	0,64	1,88	915025			
5,0 m	pcs	1	1	1,21	2,50	915050			
10,00 m	pcs	1	1	4,73	6,48	915100			
20,00 m	pcs	1	1	9,40	10,11	915200			
25,00 m	pcs	1	1	11,93	11,55	915250			

Assembly MP 75

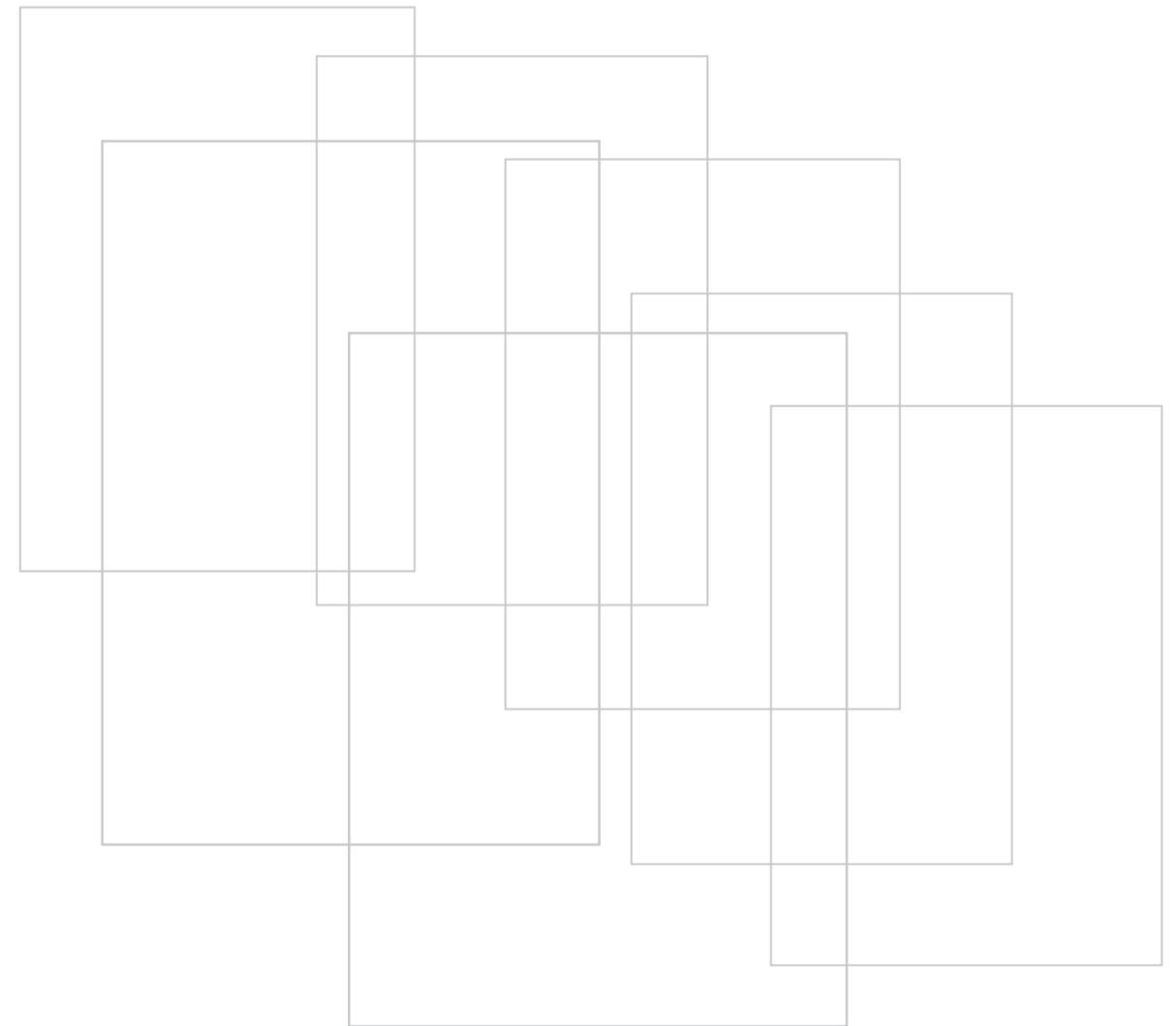


32-70	pcs	1	1	22,00	160,00	456075			
by preliminary order									

Assembly MP 110 UD



40-110	шт	1	1	47,00	240,00	456110			
by preliminary order									





almanit sanitary gmbh
Papenstr. 23
22089 Hamburg
Germany

Tel.: +49 40 2513347
Fax: +49 40 2513681
E-mail: info@almanit.de
Web: www.almatherm.almanit.com