



Plastic pipes
easily and reliably

FVPPR

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



PRODUCT
CATALOGUE

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

FV PPR

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

The FV PPR system is a plastic 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.

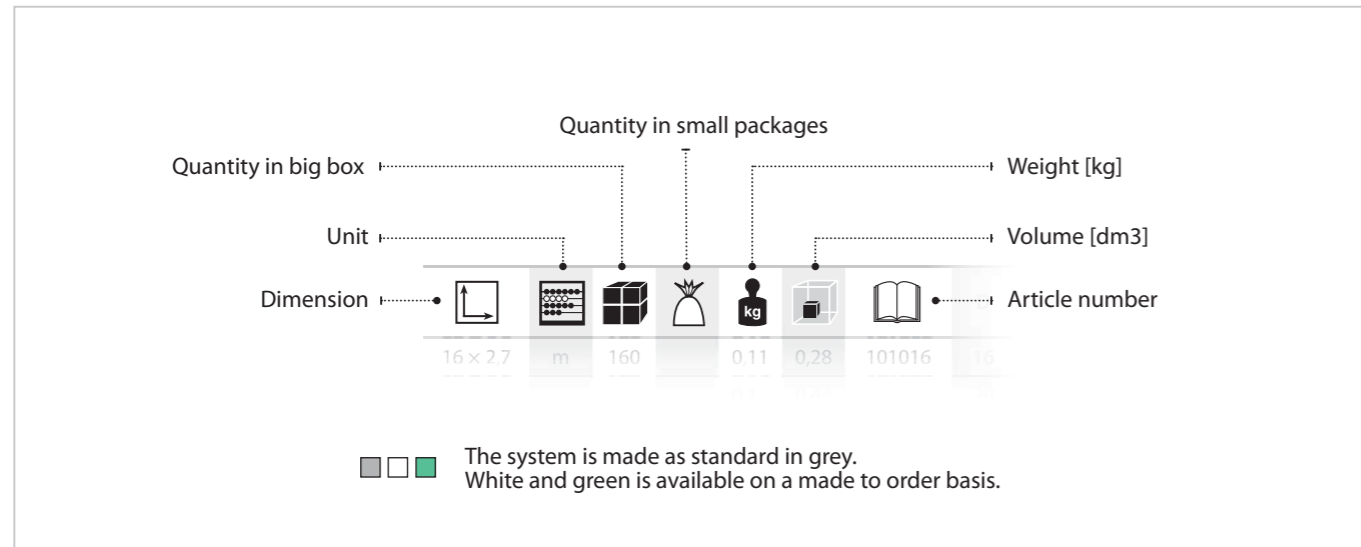
FV Plast uses only the highest quality materials such as brand-name granulates Hostalen from Germany for the production of the FV PPR system. Problematic points such as plastic-metal transitions are dealt with without compromising – we use metal parts shaped from the highest quality brass pipes and rods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

All components of the FV PPR system are systematically 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 FV PPR system in terms of concept. FV Plast's 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:



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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 FV 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 FV 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. FV Plast'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 FV PPR system components:

Pipes bear the name of the producer: FV Plast, 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 Plast® logo, or the FV 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



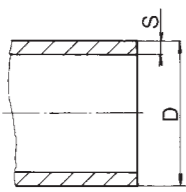
Good quality pipework involves a reliable pipe which is able to sustain the assumed temperature and pressure stress.

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



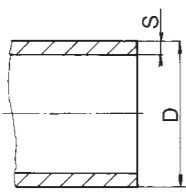
PPR Pipes

CLASSIC Pipe S 2,5 SDR 6 (PN 20) ■■■



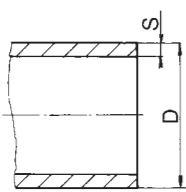
								D	S	I*		
16 × 2,7	m	160	0,11	0,28	101016	16	2,70	4				
20 × 3,4	m	100	0,17	0,44	101020	20	3,40	4				
25 × 4,2	m	60	0,27	0,73	101025	25	4,20	4				
32 × 5,4	m	40	0,43	1,10	101032	32	5,40	4				
40 × 6,7	m	24	0,67	1,83	101040	40	6,70	4				
50 × 8,3	m	16	1,00	2,75	101050	50	8,30	4				
63 × 10,5	m	12	1,65	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	I*		
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) ■■■

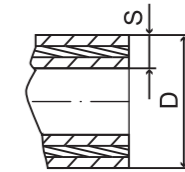


								D	S	I*		
20 × 2,3	m	100	0,12	0,44	103020	20	2,30	4				
25 × 2,3	m	60	0,16	0,73	103025	25	2,30	4				
32 × 2,9	m	40	0,26	1,10	103032	32	2,90	4				
40 × 3,7	m	24	0,41	1,83	103040	40	3,70	4				
50 × 4,6	m	16	0,64	2,75	103050	50	4,60	4				
63 × 5,8	m	12	1,00	4,07	103063	63	5,80	4				
75 × 6,8	m	8	1,40	5,50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

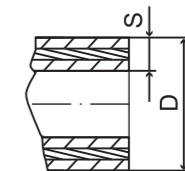
FASER composite pipe PPR/PP-GF/PPR S 2,5 SDR 6 (PN 20) ■■■

								D	S	I*		
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	I*		
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				



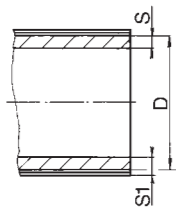
* All pipes could be manufactured also in other sizes after previous consultation - 3 m, 6m.

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 STABI pipes reinforced by aluminium foil.



PPR Multilayer Pipes

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

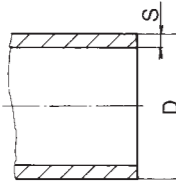


								D	S	S1	I*
16 × 2,4	m	100	0,17	0,28	106016	16	2,40	3,10	4		
20 × 3,0	m	100	0,21	0,44	106020	20	3,00	3,70	4		
25 × 3,7	m	60	0,31	0,73	106025	25	3,70	4,40	4		
32 × 4,8	m	40	0,47	1,10	106032	32	4,80	5,40	4		
40 × 5,9	m	24	0,69	1,83	106040	40	5,90	6,50	4		
50 × 7,4	m	20	1,04	2,75	106050	50	7,40	7,80	4		
63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



FITTINGS



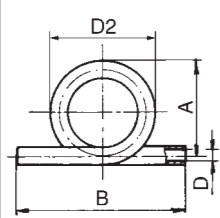
An elaborated range of adapting pipes increases the efficiency and flexibility of our PPR system. We try to help with solving all possible handling situations.

- 12 Plastic Fittings
- 20 Combination Fittings



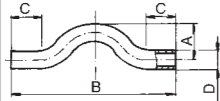
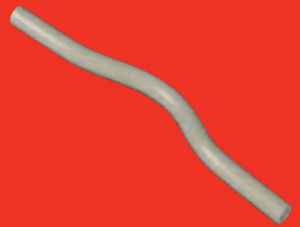
Plastic Fittings

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



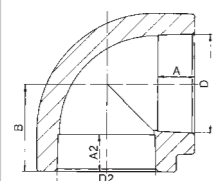
16	pcs	180	1	0,03	0,24	233016	16		35,00	380,00	100,00
20	pcs	100	1	0,07	0,32	233020	20		42,00	400,00	110,00
25	pcs	50	1	0,09	0,64	233025	25		30,00	400,00	100,00
32	pcs	35	1	0,16	0,80	233032	32		35,00	400,00	90,00
40	pcs	20	1	0,33	1,60	233040	40		35,00	400,00	90,00

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

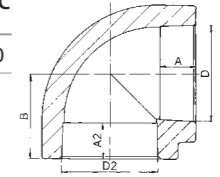
Elbow 90°



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	

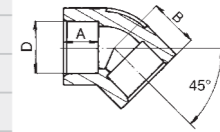
Elbow 90° reduced

							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



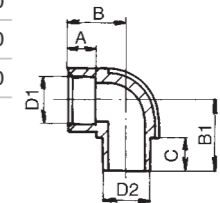
Elbow 45°

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		



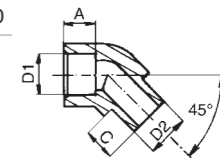
Elbow 90° internal/external

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

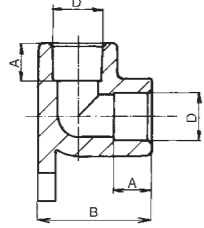


Elbow 45° internal/external

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

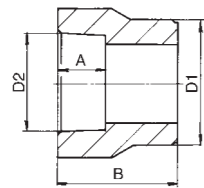


Elbow 90° for wall mounting (welding) ■■■



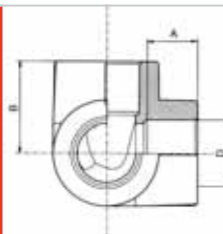
								D, D1	D2	A	B	A2, B1
20	pcs	60	10	0,02	0,16	206020		20		14,50		40,00
25	pcs	40	10	0,04	0,32	206025		25		16,00		51,00

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

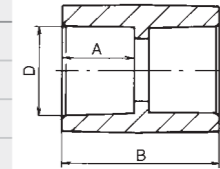


20	pcs	50	10	0,03	0,13	242020	20		14,50	26,80	
25	pcs	50	10	0,04	0,17	242025	25		16,00	29,50	
32	pcs	20	5	0,06	0,20	242032	32		18,00	35,00	

Socket ■■■

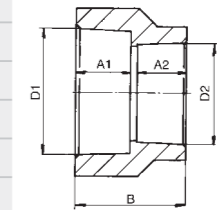


							D, D1, D3	D2	A	A1, C	A2	B
16	pcs	300	50	0,01	0,03	201016	16		13,30			29,00
20	pcs	400	50	0,01	0,05	201020	20		14,50			32,00
25	pcs	200	25	0,03	0,10	201025	25		16,00			35,00
32	pcs	100	10	0,04	0,19	201032	32		18,10			39,00
40	pcs	100	10	0,06	0,24	201040	40		20,50			44,00
50	pcs	40	4	0,11	0,60	201050	50		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



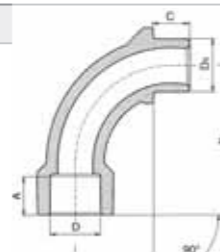
Reduction ■■■

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

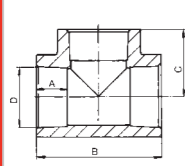
20	pcs	100	10	0,03	0,12	241020	20		14,50	13,00	56,00
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Have you ever had problems when slipping the rolled-up end of the heated pipe onto a fitting? Try using a common knife or special preparation to slide the outer rim of the pipe end intended for heating at an angle of 30 – 45 degrees, particularly at bigger diameters, i.e. from 40 mm up. You will prevent the material from ruffling.

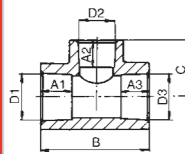


Tee ■ ■ ■



								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 ■ ■ ■

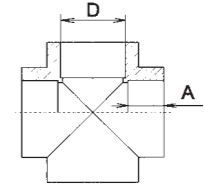


20 × 16 × 20	pcs	100	10	0,03	0,10	212020016	20	16	14,50	13,30	47,00	24,00
20 × 25 × 20	pcs	150	50	0,03	0,24	212020025	20	25	14,50	16,00	64,00	27,00
25 × 20 × 20	pcs	50	10	0,05	0,24	212025021	25/20*	20	16/14,5*	14,50	52,50	28,00
25 × 20 × 25	pcs	120	20	0,04	0,24	212025020	25	20	16,00	14,50	54,00	28,00
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

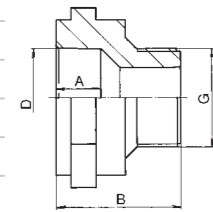
Cross piece ■ ■ ■

								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		



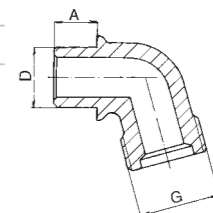
Reducing sleeve with plastic male thread ■ ■ ■

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		



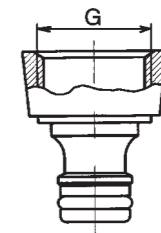
Tap elbow for welding internal ■ ■ ■

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			

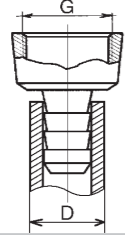


Threaded tap connector (fast) ■ ■ ■

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

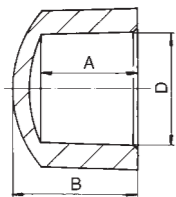


Threaded tap connector



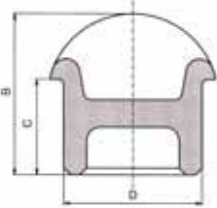
							D	D1, G	A	B	B1	C, G
3/4"	pcs	450	50	0,01	0,05	30934	20	3/4"				
1"	pcs	225	25	0,01	0,08	30911	25	1"				

Blinding



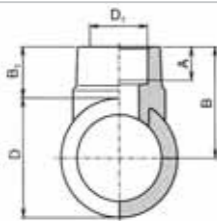
16	pcs	500	50	0,01	0,02	229016	16		13,30	18,50		
20	pcs	300	20	0,01	0,04	229020	20		14,50	21,00		
25	pcs	200	20	0,01	0,05	229025	25		16,00	26,00		
32	pcs	120	10	0,03	0,12	229032	32		18,10	31,00		
40	pcs	60	10	0,05	0,24	229040	40		20,50	32,50		
50	pcs	60	4	0,09	0,30	229050	50		23,50	47,00		
63	pcs	30	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



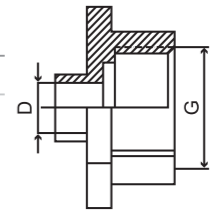
63 × 32	pcs	120	10	0,03	0,17	238063032	63	32	18,00	58,50	27,00	
75 × 32	pcs	120	10	0,03	0,17	238075032	75	32	18,00	64,50	27,00	
90 × 32	pcs	120	10	0,03	0,17	238090032	90	32	18,00	72,00	27,00	
110 × 32	pcs	120	10	0,03	0,17	238110032	110	32	18,00	80,70	25,70	

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"



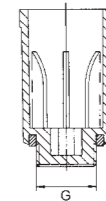
Washer

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



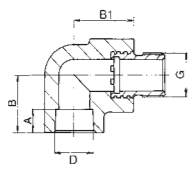
Pressure plug short

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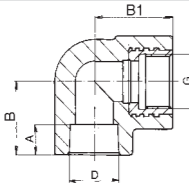
Combination Fittings

Elbow 90° with metal male thread



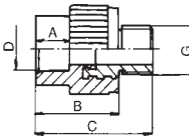
							D	G	A	B	B1	C
20 × 1/2"	pcs	70	10	0,09	0,16	216020	20	1/2"	14,50	27,00	32,00	
20 × 3/4"	pcs	50	10	0,14	0,32	216021	20	3/4"	14,50	27,00	35,00	
25 × 1/2"	pcs	60	10	0,13	0,32	216026	25	1/2"	16,00	40,00	41,00	
25 × 3/4"	pcs	40	10	0,15	0,32	216025	25	3/4"	16,00	40,00	41,00	
32 × 1"	pcs	40	5	0,22	0,60	216032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

Elbow 90° with metal female thread



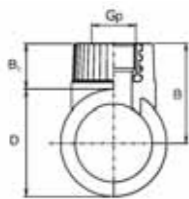
20 × 1/2"	pcs	80	10	0,06	0,16	218020	20	1/2"	14,50	27,00	32,00	
20 × 3/4"	pcs	50	10	0,13	0,32	218021	20	3/4"	14,50	40,00	41,00	
25 × 1/2"	pcs	60	10	0,10	0,32	218026	25	1/2"	16,00	40,00	41,00	
25 × 3/4"	pcs	50	10	0,12	0,32	218025	25	3/4"	16,00	40,00	41,00	
32 × 1"	pcs	40	5	0,20	0,60	218032	32	1"	18,10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

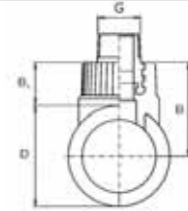
Weld in saddle with metal female thread



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	

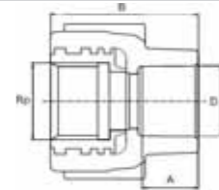
Weld in saddle with metal male thread

							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	



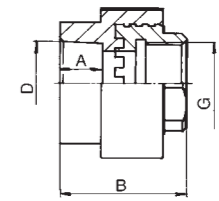
Reducing sleeve with metal female thread with cross

20 × 1/2"	pcs	120	10	0,06	0,06	217022	20	1/2"	14,50	42,00	
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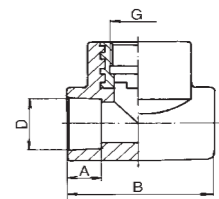
Reducing sleeve with metal female thread

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	



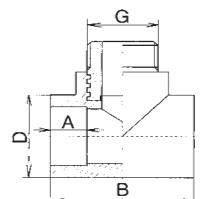
Tee with metal female thread

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	

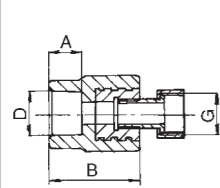
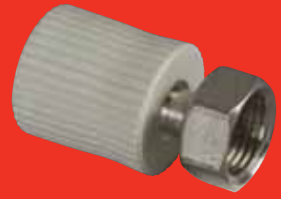


Tee with metal male thread

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	

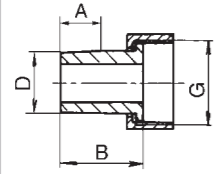


Metal reducer with cap nut



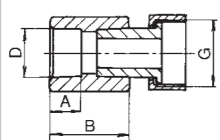
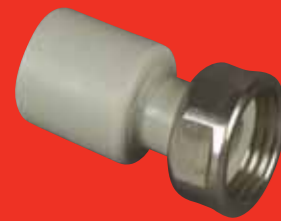
							D	G	A	B
16 × 1/2"	pcs	120	10	0,05	0,05	223016	16	1/2"	13,30	43,00
16 × 3/4"	pcs	100	10	0,08	0,06	223017	16	3/4"	13,30	43,00
20 × 1/2"	pcs	120	10	0,05	0,05	223020	20	1/2"	14,50	43,00
20 × 3/4"	pcs	100	10	0,08	0,06	223021	20	3/4"	14,50	37,00
20 × 1"	pcs	50	10	0,23	0,06	223022	20	1"	14,50	50,00
25 × 3/4"	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

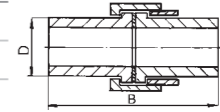
Screwed joints at combined fittings with a metal thread need to be sealed only with a Teflon band or special sealing putty containing Teflon. It is sufficient to apply it on the first two or three threads. Never use classical hemp – after it absorbs water, the thread may crack due to the inner pressure.



Coupling with nut

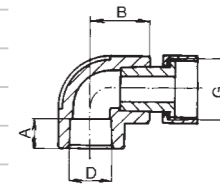


20	pcs	200	10	0,08	0,15	224020	20			73,00
25	pcs	120	5	0,12	0,20	224025	25			93,50
32	pcs	70	5	0,19	0,25	224032	32			93,50
40	pcs	50	5	0,27	0,35	224040	40			105,00
50	pcs	25	5	0,49	0,65	224050	50			123,40



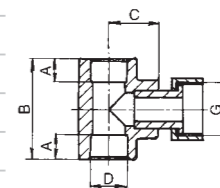
Elbow 90° plastic reducing sleeve with cap nut

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



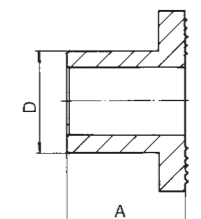
Tee plastic reducing sleeve with cap nut

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

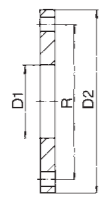


Flange adaptor

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

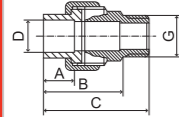


Flange



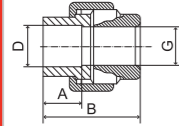
								D, D1	D2, G	A	B, R	B1	C
40	pcs	1	1	1,42	0,35	231040		43	140		100,00		
50	pcs	1	1	1,82	0,38	231050		53	150		110,00		
63	pcs	1	1	2,23	0,45	231063		66	165		125,00		
75	pcs	1	1	2,48	0,55	231075		78	185		145,00		
90	pcs	1	1	3,25	0,80	231090		95	200		160,00		
110	pcs	1	1	3,60	0,97	231110		114	220		180,00		

Transition union male



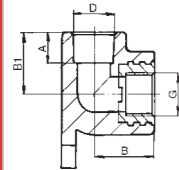
20 x 1/2"	pcs	125	1	0,11	0,09	237020	20	1/2"	14,50	41,00		53,00
25 x 3/4"	pcs	65	1	0,19	0,17	237025	25	3/4"	16,00	44,00		59,00
32 x 1"	pcs	50	1	0,25	0,22	237032	32	1"	18,10	46,00		63,00
40 x 5/4"	pcs	25	1	0,36	0,44	237040	40	5/4"	20,50	51,00		68,00
50 x 6/4"	pcs	20	1	0,59	0,55	237050	50	6/4"	23,50	52,00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

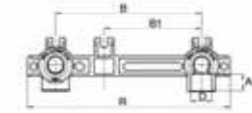


20 x 1/2"	pcs	150	10	0,06	0,21	239020	20	1/2"		42,00	39,00	14,00
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Wall elbows with holder

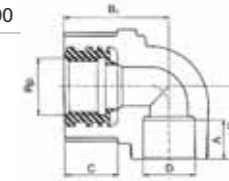


								D	G	A	B	B1, C	R
20 x 1/2"	pcs	30	1	0,23	0,88	219120		20	1/2"	15,00	150	100	210



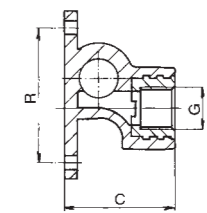
Elbow for gypsum wall mounting

20 x 1/2"	pcs	40	1	0,13	1,02	240020	20	1/2"	15,00	27,00	44,00	25,00
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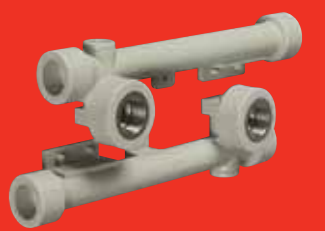
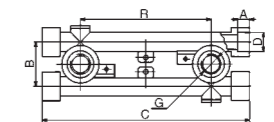
Tee with tap connector

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

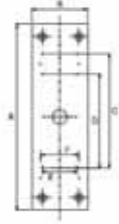
2 x 20 x 1/2"	pcs	15	1	0,20	1,37	221020	20	1/2"	14,50	44,00	212,00	113,00
2 x 25 x 1/2"	pcs	10	1	0,31	1,32	221025	25	1/2"	16,00	51,00	230,00	110/125 /140



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.

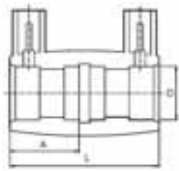


Assembling plate for elbow 90° for wall mounting



								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

PLAST VALVES

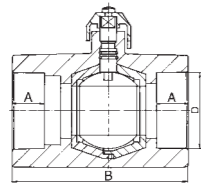


Valves have a seemingly easy task – to close or turn down the water way. The important thing is that it is carried out in a reliable way with a thousandfold repetition and long service life.

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

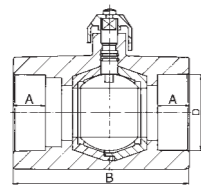
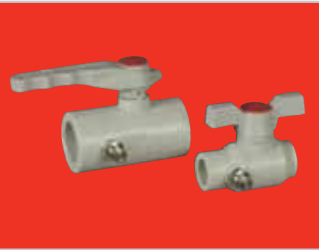


Ball valve plastic ■■■



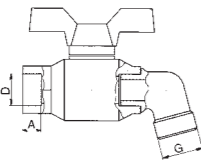
								D	G	A	B
16	pcs	40	10	0,12	0,17	301016		16		13,00	74,50
20	pcs	40	10	0,12	0,34	301020		20		14,50	74,50
25	pcs	40	2	0,21	0,69	301025		25		16,00	73,00
32	pcs	20	2	0,36	0,69	301032		32		18,00	91,00
40	pcs	15	1	0,36	1,60	301040		40		20,50	105,00
50	pcs	9	1	0,65	1,60	301050		50		23,50	121,50
63	pcs	6	1	1,12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



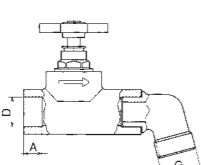
20	pcs	60	10	0,14	0,37	302020		20		14,50	74,50
25	pcs	60	4	0,14	0,40	302025		25		16,00	78,50
32	pcs	30	2	0,24	0,80	302032		32		18,00	91,00
40	pcs	20	2	0,38	1,60	302040		40		20,50	105,00
50	pcs	18	1	0,66	1,60	302050		50		23,50	121,50
63	pcs	8	1	1,14	4,80	302063		63		27,50	144,00
75	pcs	5	1	1,85	4,80	302075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

Ball valve with threaded elbow for hose connection ■■■



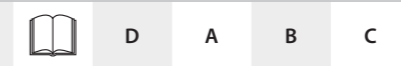
20	pcs	50	10	0,14	0,39	303020		20	3/4"	14,50	
25	pcs	40	2	0,15	0,77	303025		25	1"	16,00	

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

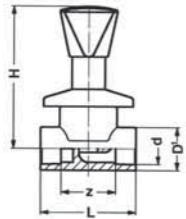


20	pcs	10	1	0,19	0,25	308021		20	14,5	91
25	pcs	10	1	0,19	0,25	308026		25	16	91
32	pcs	40	1	0,16	0,56	308033		32	18	95

In case it is necessary to provide dismountable 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.

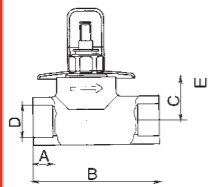


Shut off valve lux straight with chrome handle



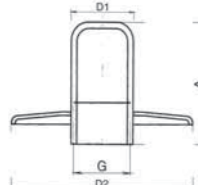
							D, D1	G	A	B	C, G1	G, R
20	pcs	15	1	0,25		322020	20		14,50	76,00	26,00	42,00
25	pcs	12	1	0,30		322025	25		16,00	82,00	35,00	61,00

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"
Nickeled 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

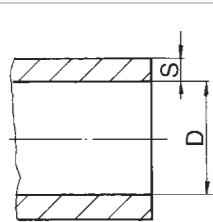


It is necessary to finish the assembly with proper insulation and mechanical fixing for its proper function.

- 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							
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Insulation adhesive tape



20 m	pcs	40	1	0,18	0,29	502021						
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Insulation clip

pcs	100	100	0,01	0,01	505							



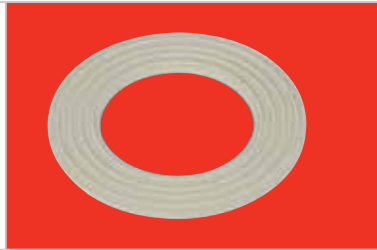
Insulation felt

pcs	150	50	0,16	3,10	506							
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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						
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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.

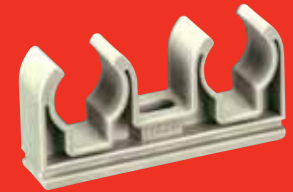


Plastic clip ■■■



							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			



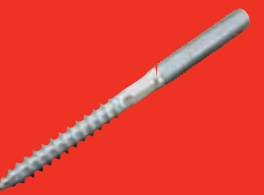
Metal sleeve

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			

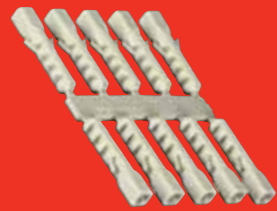


Screw combi

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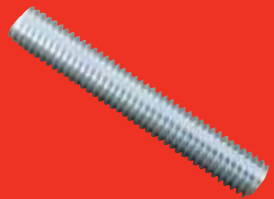


Dowels



								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



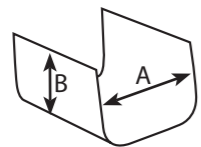
M8 x 1000	pcs	50	1	0,04	0,33	9190100							
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Tightening belt



400 x 7,6	pcs	100	1	0,01	0,01	908040							
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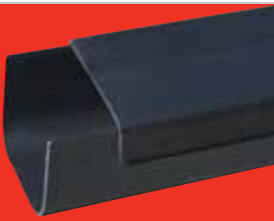
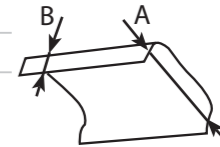
Plastic trough



	pcs	16	4	0,90	4,90	909	125	100					
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Trough cover plastic

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



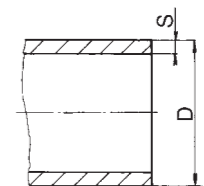
Galvanized trough (2 m length)

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							
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Notes

Lined area for notes

TOOLS



The simplicity of the whole system based on the PPR results from the possibility to carry out all the joints very fast by welding. For good quality welding you need good quality instruments and tools.

- 40 Welders and Welding Sets
- 42 Accessories for Welders
- 44 Tools
- 46 Preparations and Measurements



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					
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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



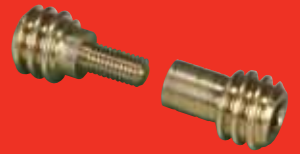
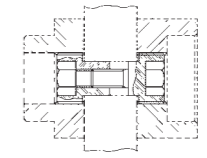
63x32	pcs	1	1	0,30	0,13	40206332			
75x32	pcs	1	1	0,30	0,15	40207532			
90x32	pcs	1	1	0,30	0,19	40209032			
110x32/40	pcs	1	1	0,43	0,85	40211040			

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

								For the welder model	
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								
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Repairing stake



pcs	1	1	0,07	463								
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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								
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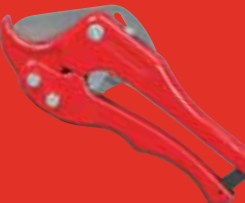
Pipe cutter REMS

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

FV Plast products are certified in many states





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