



ISO 9001

**BUREAU VERITAS
Certification**



**QUALITY
MANAGEMENT
CERTIFICATE**

PRO AQUA | 2024

PRO AQUA

PRO AQUA is a major and reliable supplier of technologically advanced engineering equipment. For more than 25 years, we have been supplying pipelines for heating, water supply and sewage systems to the Russian market.

FOUR MAIN

criteria that distinguish PRO AQUA as a leader in the industry market:



01 IN-HOUSE PRODUCTION

Scientific Production Association PRO AQUA is located in Khotkovo, Sergiev Posad District, Moscow region. The large 125,000-square-meter production complex includes workshops, a laboratory and warehouses for finished products. Thanks to in-house production, PRO AQUA became a participant of state import substitution programs, thereby compensating for the scope of the brands that left the market.



02 MODERN TECHNOLOGIES

All workshops are equipped with modern high-precision automated equipment of well-known brands, in particular: Krauss-Maffei — Germany, Cincinnati — Austria, SICA, IPM, Moretto — Italy, ENGEL, HAITIAN. New technologies allowed the company to improve the quality of its products and increase the volume of manufactured product groups.

Only high quality raw materials of global manufacturers are used for the production of pipes and fittings.



03 CERTIFIED LABORATORY AND CERTIFICATION

The production laboratory for testing products made of polymeric materials is equipped by leading European manufacturers (ZWICK, BINDER, SCITEQ).

The laboratory is certified by FSFI "State Regional Center for Standardization, Metrology and Testing in the Moscow Region." Thanks to constant control at all stages of production, the manufactured products maintain consistently high quality.

The quality management system of the plant complies with the international standard ISO 9001:2015 and its domestic equivalent GOST R ISO 9001-2015.

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04 CUSTOMER FOCUS

A wide range of manufactured and supplied engineering products — there are more than 35 thousand items of high quality certified goods. Technical specialists of PRO AQUA take part in the development of new products and modifications of existing ones to adapt them for operation in Russian engineering systems to the maximum extent possible.



STANDART

Sustainable materials are the basis of PRO AQUA products. The products are manufactured using quality raw materials (polypropylene, polyethylene, brass, cast iron, stainless steel, etc.) in compliance with technical specifications and approved standards. This extends the warranty period for PRO AQUA products to 10 years.

Building Inf. Model

We are steadily developing BIM families of PRO AQUA product lines as part of the REVIT program. The use of BIM models in design makes it possible to create a model as similar as possible to the final construction, which will help to avoid errors at all stages from design to installation.

B2B

Flexible system of discounts helps us to establish mutually beneficial cooperation with any partners. There are special loyalty programs for wholesale customers. Factoring transactions and other cooperation options are possible.























PRO AQUA PLANT



30.000 m²

With more than 30 thousand square meters of warehouse space, the company can provide more than three months' supply of products and their accessories even during the high season.

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PP-R pipes and fittings



PRO AQUA pipes and fittings made of Random Co-polymer polypropylene are used in cold and hot water supply systems in residential, administrative and industrial buildings, in heating systems, water treatment systems, pneumatic pipelines and technological pipelines.

Obtained by the polymerization reaction of propylene and ethylene in certain proportions, Random Co-polymer polypropylene provides the main physical and chemical properties of pipes and fittings made of this material. Pipelines made of this material do not rust, do not change the taste and chemical properties of the flowing liquid.

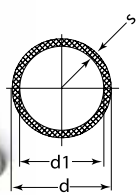
ADVANTAGES:

- + long service life of pipelines: at least 50 years in cold, hot water supply and heating systems.
- + no corrosion and cross-section clogging during operation;
- + easy and 5-7 times faster installation of the pipeline compared to the metal one;
- + complete tightness of welded joints;
- + high chemical resistance of pipelines;
- + lower (compared to metal pipes) noise level of fluid flow;
- + the system can withstand several freezing cycles under pressure without destruction;
- + sustainable material that does not emit harmful substances during pipeline operation.

Polypropylene piping systems are suitable for all known types of laying: open laying, under plastering, in wells and channels, channel-free laying and other types. Plastic parts are connected by special equipment using the heat socket welding method; plastic parts are connected to metal parts using combined and flanged components. Special fittings with embedded metal parts, shut-off valves and fasteners help to combine polypropylene pipes with other systems and assemble almost any layout. PP-R pipes for water supply and heating systems comply with GOST 32415-2013 and GOST R 53630-2015.

PRO AQUA plant produces white and gray pipes and fittings. The brand offers over 500 SKUs from 16 to 120 diameters.

SDR 11 pipe (4 m sections)

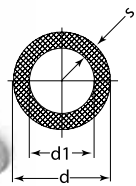


d, mm	d1, mm	s, mm	Code white	Code gray
20	16,2	1,9	PA11008	PA11008G
25	20,4	2,3	PA11010	PA11010G
32	26,2	2,9	PA11012	PA11012G
40	32,6	3,7	PA11014	PA11014G
50	40,8	4,6	PA11016	PA11016G
63	51,4	5,8	PA11018	PA11018G
75	61,4	6,8	PA11020	PA11020G
90	73,6	8,2	PA11022	PA11022G
110	90	10	PA11024	PA11024G
125	102,2	11,4	PA11026	PA11026G
160	130,8	14,6	PA11028	PA11028G

2 m sections

d, mm	Per package	Code white
20	25	PA11208
25	20	PA11210
32	15	PA11212

SDR 6 pipe (4 m sections)

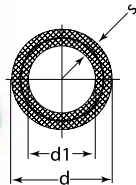


d, mm	d1, mm	s, mm	Code white	Code gray
16	10,6	2,7	PA10006P	
20	13,2	3,4	PA10008	PA10008PG
25	16,6	4,2	PA10010	PA10010PG
32	21,2	5,4	PA10012	PA10012PG
40	26,6	6,7	PA10014	PA10014PG
50	33,4	8,3	PA10016	PA10016PG
63	42,0	10,5	PA10018	PA10018G
75	50,0	12,5	PA10020	PA10020G
90	60,0	15,0	PA10022	PA10022G
110	73,4	18,3	PA10024	PA10024G
125	83,4	20,8	PA10026	PA10026G
160	106,8	26,6	PA10028	PA10028G

2 m sections

d, mm	Per package	Code white	Code gray
20	25	PA10208P	PA10208PG
25	20	PA10210P	PA10210PG
32	15	PA10212P	PA10212PG
40	8	PA10214P	PA10214PG
50	5	PA10216P	PA10216PG

PP-R RUBIS SDR 7.4 glass fiber reinforced pipe (4 m sections)

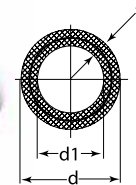


d, mm	d1, mm	s, mm	Code white	Code gray
20	14,4	2,8	PA35008P	PA35008PG
25	18,0	3,5	PA35010P	PA35010PG
32	23,2	4,4	PA35012P	PA35012PG
40	29,0	5,5	PA35014P	PA35014PG
50	36,2	6,9	PA35016P	PA35016PG
63	45,8	8,6	PA35018P	PA35018PG
75	54,4	10,3	PA35020P	PA35020PG
90	65,4	12,3	PA35022P	PA35022PG
110	79,8	15,1	PA35024P	PA35024PG
125	90,8	17,1	PA35026P	PA35026PG
160	117,8	21,9	PA35028P	PA35028PG

2 m sections

d, mm	Per package	Code white
20	25	PA35208P
25	20	PA35210P
32	15	PA35212P
40	10	PA35214P
50	6	PA35216P
63	2	PA35218P

PP-R RUBIS SDR 6 glass fiber reinforced pipe

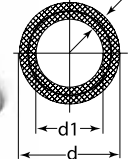


d, mm	d1, mm	s, mm	Code white	Code gray
20	13,2	3,4	PA37008P	PA37008PG
25	16,6	4,2	PA37010P	PA37010PG
32	21,2	5,4	PA37012P	PA37012PG
40	26,6	6,7	PA37014P	PA37014PG
50	33,4	8,3	PA37016P	PA37016PG
63	42,0	10,5	PA37018P	PA37018PG
75	50,0	12,5	PA37020P	PA37020PG
90	60,0	15,0	PA37022P	PA37022PG
110	73,4	18,3	PA37024P	PA37024PG
125	83,4	20,8	PA37026P	PA37026PG
160	106,8	26,6	PA37028P	PA37028PG

2 m sections

d, mm	Per package	Code white	Code gray
20	25	PA37208P	PA37208PG
25	20	PA37210P	PA37210PG
32	15	PA37212P	PA37212PG
40	10	PA37214P	PA37214PG
50	6	PA37216P	-

PP-R DUO SDR6 pipe (4 m sections)

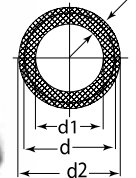


d, mm	d1, mm	s, mm	Code white	Code gray
20	13,2	3,4	PA39008	PA39008G
25	16,6	4,2	PA39010	PA39010G
32	21,2	5,4	PA39012	PA39012G
40	26,6	6,7	PA39014	PA39014G
50	33,4	8,3	PA39016	PA39016G
63	42	10,5	PA39018	PA39018G
75	50	12,5	PA39020	PA39020G

2 m sections

d, mm	Per package	Code white
20	25	PA39208
25	20	PA39210
32	15	PA39212
40	10	PA39214

Aluminum-reinforced SDR 5 pipe (4 m sections)



d, mm	d1, mm	d2, mm	s, mm	Code white	Code gray
20	13,2	21,2	4,0	PA30008pr	PA30008Gpr
25	16,6	26,2	4,8	PA30010pr	PA30010Gpr
32	21,2	33,2	6,0	PA30012pr	PA30012Gpr
40	26,6	41,4	7,4	PA30014pr	PA30014Gpr
50	33,4	52,2	9,4	PA30016pr	PA30016Gpr
63	42,0	65,4	11,7	PA30018pr	PA30018Gpr
75	50,0	77,4	13,7	PA30020pr	PA30020Gpr
90	60,0	92,9	16,4	PA30022pr	PA30022Gpr
110	73,4	112,2	19,5	PA30024pr	PA30024Gpr

2 m sections

d, mm	Per package	Code white
20	25	PA30208pr
25	20	PA30210pr
32	15	PA30212pr
40	10	PA30214pr



Connecting coupling

Size	Per box	Per package	Code white	Code gray
20	500	100	PA12008P	PA12008PG
25	300	50	PA12010P	PA12010PG
32	200	25	PA12012P	PA12012PG
40	100	25	PA12014P	PA12014PG
50	60	10	PA12016P	PA12016PG
63	42	7	PA12018P	PA12018PG
75	24	4	PA12020P	PA12020PG
90	12	4	PA12022P	PA12022PG
110	6	1	PA12024P	PA12024PG
125	6	1	PA12026P	PA12026PG
160	1	2	PA12028P	



90° elbow

Size	Per box	Per package	Code white	Code gray
20	350	50	PA13008P	PA13008PG
25	200	50	PA13010P	PA13010PG
32	100	25	PA13012P	PA13012PG
40	60	10	PA13014P	PA13014PG
50	30	10	PA13016P	PA13016PG
63	20	5	PA13018P	PA13018PG
75	8	2	PA13020P	PA13020PG
90	4	2	PA13022P	PA13022PG
110	2	1	PA13024P	PA13024PG
125	2	1	PA13026P	PA13026PG
160	1	1	PA13028P	

Adapter coupling, F/M

Size	Per box	Per package	Code white	Code gray
25 x 20	500	100	PA12512P	PA12512PG
32 x 20	300	50	PA12514P	PA12514PG
32 x 25	300	50	PA12516P	PA12516PG
40 x 20	200	50	PA12518P	PA12518PG
40 x 25	200	50	PA12520P	PA12520PG
40 x 32	200	25	PA12522P	PA12522PG
50 x 20	120	30	PA12524P	PA12524PG
50 x 25	120	30	PA12526P	PA12526PG
50 x 32	100	25	PA12528P	PA12528PG
50 x 40	80	20	PA12530P	PA12530PG
63 x 20	90	15	PA12531P	PA12531PG
63 x 25	90	15	PA12532P	PA12532PG
63 x 32	60	20	PA12534P	PA12534PG
63 x 40	60	20	PA12536P	PA12536PG
63 x 50	48	16	PA12538P	PA12538PG
75 x 50	36	9	PA12540P	PA12540PG
75 x 63	24	6	PA12542P	PA12542PG
90 x 63	18	6	PA12544P	PA12544PG
90 x 75	18	6	PA12546P	PA12546PG
110 x 75	16	8	PA12547P	
110 x 90	10	2	PA12548P	
125 x 110	5	1	PA12550P	



45° elbow

Size	Per box	Per package	Code white	Code gray
20	400	50	PA13508P	PA13508PG
25	250	50	PA13510P	PA13510PG
32	125	25	PA13512P	PA13512PG
40	80	20	PA13514P	PA13514PG
50	40	10	PA13516P	PA13516PG
63	20	5	PA13518P	PA13518PG
75	12	2	PA13520P	PA13520PG
90	6	2	PA13522P	PA13522PG
110	4	1	PA13524	
125	2	1	PA13526P	
160	1	1	PA13528P	

45° reducing elbow, F/M

Size	Per box	Per package	Code white	Code gray
20	200	50	PA13808	PA13808G
25	100	25	PA13810	PA13810G



Adapter coupling, F/F

Size	Per box	Per package	Code white	Code gray
25 x 20	300	60	PA1261008	PA1261008G
32 x 20	200	40	PA1261208	PA1261208G
32 x 25	210	35	PA1261210	PA1261210G
40 x 20	150	30	PA12614008	
40 x 25	150	30	PA12614010	
40 x 32	115	23	PA12614012	
50 x 20	120	20	PA12616008	
50 x 25	100	20	PA12616010	
50 x 32	90	18	PA12616012	
50 x 40	60	12	PA12616014	
63 x 20	60	12	PA1261808	
63 x 25	60	1	PA12618010	
63 x 32	60	1	PA12618012	
63 x 40	60	1	PA12618014	
63 x 50	48	1	PA12618016	
160 x 110	1	2	PA12612824	



90° reducing elbow, F/M

Size	Per box	Per package	Code white	Code gray
20	300	50	PA13608P	PA13608PG
25	175	25	PA13610P	PA13610PG
32	80	20	PA13612P	PA13612PG



90° reducing elbow

Size	Per box	Per package	Code white	Code gray
25 x 20	200	50	PA1371008	PA1371008G
32 x 25	100	25	PA1371210	PA1371210G
32 x 20	200	50	PA1371208	PA1371208G

Tee

Size	Per box	Per package	Code white	Code gray
20	200	50	PA14008P	PA14008PG
25	150	25	PA14010P	PA14010PG
32	60	10	PA14012P	PA14012PG
40	40	10	PA14014P	PA14014PG
50	20	5	PA14016P	PA14016PG
63	16	4	PA14018P	PA14018PG
75	8	2	PA14020P	PA14020PG
90	4	2	PA14022P	PA14022PG
110	2	1	PA14024P	PA14024PG
125	2	1	PA14026P	PA14026PG
160	1	1	PA14028P	PA14028PG



Transition tee

Size	Per box	Per package	Code white	Code gray
20 x 25 x 20	200	25	PA14518P	PA14518PG
25 x 20 x 20	200	25	PA14520P	PA14520PG
25 x 20 x 25	150	25	PA14521P	PA14521PG
25 x 25 x 20	150	25	PA14522P	PA14522PG
32 x 20 x 20	80	20	PA14530P	PA14530PG
32 x 20 x 25	80	20	PA14531P	PA14531PG
32 x 20 x 32	100	25	PA14532P	PA14532PG
32 x 25 x 20	80	20	PA14533P	PA14533PG
32 x 25 x 25	80	20	PA14534P	PA14534PG
32 x 25 x 32	80	20	PA14535P	PA14535PG
40 x 20 x 40	80	10	PA14540P	PA14540PG
40 x 25 x 40	60	10	PA14541P	PA14541PG
40 x 32 x 40	60	10	PA14542P	PA14542PG
50 x 20 x 50	40	8	PA14559P	PA14550PG
50 x 25 x 50	40	8	PA14550P	PA14551PG
50 x 32 x 50	40	8	PA14551P	PA14552PG
50 x 40 x 50	32	8	PA14552P	PA14559PG
63 x 20 x 63	24	6	PA14560P	PA14560PG
63 x 25 x 63	24	6	PA14562P	PA14562PG
63 x 32 x 63	24	6	PA14563P	PA14563PG
63 x 40 x 63	16	4	PA14564P	PA14564PG
63 x 50 x 63	16	4	PA14565P	PA14565PG
75 x 25 x 75	12	4	PA14570P	PA14570PG
75 x 32 x 75	12	4	PA14571P	PA14571PG
75 x 40 x 75	10	2	PA14572P	PA14572PG
75 x 50 x 75	10	2	PA14573P	PA14573PG
75 x 63 x 75	8	2	PA14574P	PA14574PG
90 x 40 x 90	4	2	PA14578P	PA14578PG
90 x 50 x 90	4	2	PA14580P	PA14580PG
90 x 63 x 90	4	2	PA14582P	PA14582PG
90 x 75 x 90	4	2	PA14584P	PA14584PG
110 x 50 x 110	2	1	PA14586	PA14586G
110 x 63 x 110	2	1	PA14596P	PA14596PG
110 x 75 x 110	2	1	PA14598P	PA14598PG
110 x 90 x 110	2	1	PA14600P	PA14600PG



Cross-piece

Size	Per box	Per package	Code white	Code gray
20	150	25	PA17008P	PA17008PG
25	100	25	PA17010P	PA17010PG
32	50	10	PA17012P	PA17012PG
40	30	10	PA17014	PA17014G



Reducing crosspiece

Size	Per box	Per package	Code white	Code gray
25 x 20	100	25	PA17521	PA17521G
32 x 25	60	15	PA17532	
40 x 25	50	1	PA17542P	
40 x 32	20	10	PA17543	



Reducing crosspiece

Size	Per box	Per package	Code white	Code gray
20	200	25	PA17308P	PA17308PG
25	150	25	PA17310P	PA17310PG



Plug

Size	Per box	Per package	Code white	Code gray
20	600	100	PA15008P	PA15008PG
25	400	100	PA15010P	PA15010PG
32	200	50	PA15012P	PA15012PG
40	150	25	PA15014P	PA15014PG
50	80	20	PA15016P	PA15016PG
63	48	12	PA15018P	PA15018PG
75	30	6	PA15020P	PA15020PG
90	18	3	PA15022P	PA15022PG
110	8	2	PA15024	PA15024G



Long flange adapter

Size	Per box	Per package	Code white	Code gray
20	600	200	PA64000P	PA64000PG



Flange adapter EN 1092

Size	Per box	Per package	Code white	Code gray
20	800	200	PA51120	PA51120G
25	500	100	PA51125	PA51125G
32	250	50	PA51132	PA51132G
40	150	1	PA51140	PA51140G
50	100	1	PA51150	PA51150G
63	50	1	PA51163	PA51163G
75	30	1	PA51175	PA51175G
90	20	1	PA51190	PA51190G
110	10	1	PA51110	PA51110G
125	3	1	PA51160P	
160	1	1	PA511160P	



EN 1092 plastic flange

Size	Per box	Per package	Code white	Code gray
20	170	1	PA51220	PA51220G
25	120	1	PA51225	PA51225G
32	110	1	PA51232	PA51232G
40	50	1	PA51240	PA51240G
50	25	1	PA51250	PA51250G
63	30	1	PA51263	PA51263G
75	25	1	PA51275	PA51275G
90	15	1	PA51290	PA51290G
110	10	1	PA52110	PA52110G



Flange adapter and flange set EN 1092

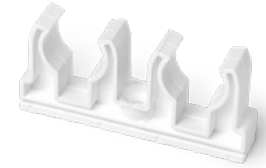
Size	Per box	Per package	Code white
20	100	1	PA56020
25	90	1	PA56025
32	75	1	PA56032
40	35	1	PA56040
50	30	1	PA56050
63	20	1	PA56063
75	25	1	PA56075
90	10	1	PA56090
110	6	1	PA56110





Screw plug, M

Size	Per box	Per package	Code white	Code gray
1/2"	600	100	PA15508P	PA15508PG
3/4"	400	100	PA15510P	PA15510PG



Double support

Size	Per box	Per package	Code white	Code gray
20	200	50	PA18508P	PA18508PG
25	200	50	PA18510P	PA18510PG
32	150	50	PA18512	PA18512G



Expansion joint

Size	Per box	Per package	Code white	Code gray
20	10	10	PA54008P	PA54008PG
25	8	8	PA54010P	PA54010PG
32	5	5	PA54012P	PA54012PG
40	4	4	PA54014P	PA54014PG



Plastic split coupling

Size	Per box	Per package	Code white
20	160	32	PA19008
25	100	20	PA19010
32	24	1	PA19012
40	12	1	PA19014
50	20	4	PA19016
63	5	5	PA19018



Bypass

Size	Per box	Per package	Code white	Code gray
20	100	25	PA16008P	PA16108PG
25	50	10	PA16010P	PA16110PG
32	30	5	PA16012P	PA16112PG
40	20	5	PA16014P	PA16114PG



Short bypass with coupling

Size	Per box	Per package	Code white	Code gray
20	150	25	PA16116P	PA16116PG
25	80	20	PA16118P	PA16118PG
32	40	10	PA16120P	PA16120PG



Combination coupling, F

Size	Per box	Per package	Code white	Code gray
20 x 1/2"	200	25	PA22008P	PA22008PG
20 x 3/4"	100	10	PA22010P	PA22010PG
25 x 1/2"	150	10	PA22012P	PA22012PG
25 x 3/4"	150	10	PA22014P	PA22014PG
25 x 1"	150	10	PA22013P	PA22013PG
32 x 1/2"	80	10	PA22015P	PA22015PG
32 x 3/4"	80	10	PA22016P	PA22016PG
32 x 1"	80	10	PA22018P	PA22018PG
40 x 1"	20	5	PA22020P	



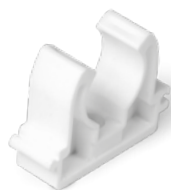
Support with latch

Size	Per box	Per package	Code white	Code gray
20	1000	100	PA18908	PA18908G
25	800	80	PA18910	PA18910G
32	500	50	PA18912	PA18912G
40	250	50	PA18914	PA18914G
50	175	25	PA18916	PA18916G
63	200	20	PA18918	PA18918G



Combination coupling, MT

Size	Per box	Per package	Code white	Code gray
20 x 1/2"	150	25	PA23008P	PA23008PG
20 x 3/4"	80	10	PA23010P	PA23010PG
25 x 1/2"	150	10	PA23012P	PA23012PG
25 x 3/4"	100	10	PA23014P	PA23014PG
25x1"	100	10	PA23013P	PA23013PG
32 x 1/2"	80	10	PA23015P	PA23015PG
32 x 3/4"	80	10	PA23016P	PA23016PG
32 x 1"	60	10	PA23018P	PA23018PG
40 x 1"	20	5	PA23020P	



Support

Size	Per box	Per package	Code white	Code gray
16	800	100	PA18006P	PA18006PG
20	500	100	PA18008P	PA18008PG
25	400	50	PA18010P	PA18010PG
32	300	50	PA18012P	PA18012PG
40	350	50	PA18014P	PA18014PG
50	200	50	PA18016P	PA18016PG
63	200	50	PA18018P	PA18018PG



Wrenching combination coupling, F

Size	Per box	Per package	Code white	Code gray
32 x 1"	50	10	PA22518P	PA22518PG
40 x 1.1/4"	20	5	PA22520P	PA22520PG
40 x 1.1/2"	20	5	PA22521P	PA22521PG
50 x 1.1/2"	20	2	PA22522P	PA22522PG
50 x 2"	12	2	PA22523P	PA22523PG
63 x 2"	12	2	PA22524P	PA22524PG
75 x 2.1/2"	10	1	PA22526	PA22526G
90 x 3"	8	1	PA22528	PA22528G
110 x 4"	5	1	PA22530P	PA22530PG

Wrenching combination coupling, M

Size	Per box	Per package	Code white	Code gray
32 x 1"	40	10	PA23518P	PA23518PG
40 x 1.1/4"	20	5	PA23520P	PA23520PG
40 x 1.1/2"	20	5	PA23521P	PA23521PG
50 x 1.1/2"	16	2	PA23522P	PA23522PG
50 x 2"	12	2	PA23523P	PA23523PG
63 x 2"	12	2	PA23524P	PA23524PG
75 x 2.1/2"	6	1	PA23526	PA23526PG
90 x 3"	4	1	PA23528	PA23528G
110 x 4"	2	1	PA23530P	PA23530PG



Coupling with coupling metal nut, F

Size	Per box	Per package	Code white	Code gray
20x1/2"	160	4	PA29008	PA29008G
20x3/4"	160	4	PA29010	PA29010G
25x3/4"	100	2	PA29014	PA29014G
25x1"	100	2	PA29015	PA29015G
32x1"	60	2	PA29018	PA29018G
32x1 1/4"	60	15	PA29019	PA29019G



Combination elbow, F

Size	Per box	Per package	Code white	Code gray
20 x 1/2"	150	10	PA26008P	PA26008PG
20 x 3/4"	120	10	PA26010P	PA26010PG
25 x 1/2"	100	10	PA26012P	PA26012PG
25 x 3/4"	100	10	PA26014P	PA26014PG
32 x 1/2"	100	20	PA26015	PA26015G
32 x 3/4"	50	10	PA26016P	PA26016PG
32 x 1"	50	10	PA26018P	PA26018PG



Combination elbow, M

Size	Per box	Per package	Code white	Code gray
20 x 1/2"	150	10	PA27008P	PA27008PG
20 x 3/4"	100	10	PA27010P	PA27010PG
25 x 1/2"	100	10	PA27012P	PA27012PG
25 x 3/4"	100	10	PA27014P	PA27014PG
32 x 1/2"	50	10	PA27015	PA27015G
32 x 3/4"	40	10	PA27016P	PA27016PG
32 x 1"	40	10	PA27018P	PA27018PG



Elbow with coupling metal nut

Size	Per box	Per package	Code white	Code gray
20 x 1/2"	100	1	PA29208	PA29208G
20 x 3/4"	80	1	PA29210	PA29210G
25 x 3/4"	100	20	PA29214	PA29214G
25 x 1"	80	1	PA29215	PA29215G
32 x 1"	40	10	PA29218	PA29218G
32 x 1 1/4"	40	10	PA29219	PA29219G



Combination elbow with attachment, F

Size	Per box	Per package	Code white	Code gray
20 x 1/2"	150	10	PA28008P	PA28008PG
25 x 1/2"	90	10	PA28012P	PA28012PG
25 x 3/4"	90	10	PA28014P	PA28014PG



Combination elbow with attachment, M

Size	Per box	Per package	Code white	Code gray
20 x 1/2"	120	10	PA28108P	PA28108PG
25 x 1/2"	100	10	PA28112P	PA28112PG
25 x 3/4"	100	10	PA28114P	PA28114PG



Combination tee, F

Size	Per box	Per package	Code white	Code gray
20 x 1/2"	150	10	PA24008P	PA24008PG
20 x 3/4"	100	10	PA24010P	PA24010PG
25 x 1/2"	100	10	PA24012P	PA24012PG
25 x 3/4"	80	10	PA24014P	PA24014PG
32x1/2	60	10	PA24015	
32 x 3/4"	60	10	PA24016P	PA24016PG
32 x 1"	50	10	PA24018P	PA24018PG



Combination tee, M

Size	Per box	Per package	Code white	Code gray
20 x 1/2"	100	10	PA25008P	PA25008PG
20 x 3/4"	80	10	PA25010P	PA25010PG
25 x 1/2"	100	10	PA25012P	PA25012PG
25 x 3/4"	50	10	PA25014P	PA25014PG
32x1/2	60	1	PA25015	
32 x 3/4"	60	10	PA25016P	PA25016PG
32 x 1"	40	5	PA25018P	PA25018PG





Tee with coupling metal nut

Size	Per box	Per package	Code white	Code gray
20 x 1/2"	120	20	PA29108	PA29108G
20 x 3/4"	90	15	PA29110	PA29110G
25 x 3/4"	60	20	PA29114	PA29114G
25 x 1"	40	20	PA29115	PA29115G
32 x 1"	40	10	PA29118	PA29118G
32 x 1 1/4"	30	10	PA29119	PA29119G



Separable joints

Size	Per box	Per package	Code white	Code gray
20 x 3/4"	140	20	PA72008	PA72008G
25 x 1"	80	20	PA72010	PA72010G
32 x 1 1/4"	40	10	PA72012	PA72012G

Union, F

Size	Per box	Per package	Code white	Code gray
20 x 1/2"	150	25	PA20008	PA20008G
20 x 3/4"	70	5	PA20010	PA20010G
20 x 1"	50	5	PA20011	PA20011G
25 x 1/2"	60	10	PA20012	PA20012G
25 x 3/4"	75	13	PA20014	PA20014G
25 x 1"	50	10	PA20015	PA20015G
32 x 3/4"	50	10	PA20016	PA20016G
32 x 1"	50	10	PA20018	PA20018G
32 x 1.1/4"	20	5	PA20019	PA20019G
40 x 1.1/4"	30	5	PA20020	PA20020G
40 x 1.1/2"	20	5	PA20021	
50 x 1.1/2"	20	4	PA20022	PA20022G
50 x 2"	16	4	PA20023	
63 x 2"	8	2	PA20024	PA20024G
75 x 2.1/2"	5	1	PA20026	



Nozzle with coupling nut

Size	Per box	Per package	Code white	Code gray
20 x 3/4"	200	25	PA70010	PA70010G
25 x 1"	150	25	PA70014	PA70014G
32 x 1 1/4"	75	25	PA70016	PA70016G

Union, M

Size	Per box	Per package	Code white	Code gray
20 x 1/2"	125	25	PA21008	PA21008G
20 x 3/4"	60	10	PA21010	PA21010G
20 x 1"	40	5	PA21011	PA21011G
25 x 1/2"	50	10	PA21012	PA21012G
25 x 3/4"	65	5	PA21014	PA21014G
25 x 1"	40	10	PA21015	PA21015G
32 x 3/4"	40	13	PA21016	PA21016G
32 x 1"	50	10	PA21018	PA21018G
32 x 1.1/4"	20	5	PA21019	PA21019G
40 x 1.1/4"	25	5	PA21020	PA21020G
40 x 1.1/2"	20	4	PA21021	
50 x 1.1/2"	16	4	PA21022	PA21022G
50 x 2"	16	4	PA21023	
63 x 2"	8	2	PA21024	PA21024G
75 x 2.1/2"	5	1	PA21026	PA21026G



O-ring for union

Size	Per box	Per package	Code
20	1	1	PA20908
25	1	1	PA20910
32	1	1	PA20912
40	1	1	PA20914
50	1	1	PA20916
63	1	1	PA20918

Reinforced union, F

Size	Per box	Per package	Code white
20 x 1/2"	50	25	PA20008S
25 x 3/4"	75	15	PA20014S
32 x 1"	50	10	PA20018S



Reinforced union, M

Size	Per box	Per package	Code white
20 x 1/2"	125	25	PA21008S
25 x 3/4"	65	13	PA21014S
32 x 1"	50	10	PA21018S



Adapter for PEX or metal plastic pipe

Size	Per box	Per package	Code white	Code gray
20	160	4	PA76008P	PA76008PG

Eurocone

Size	Per box	Per package	Code white	Code gray
20	160	40	PA75010P	PA75010PG



Double combination elbow with attachment, F

Size	Per box	Per package	Code white	Code gray
20 x 1/2"	24	8	PA280008P	PA280008PG
25 x 1/2"	30	10	PA280012P	PA280012PG





Double combination elbow with attachment, M

Size	Per box	Per package	Code white	Code gray
20 x 1/2"	120	10	PA280108P	PA280108PG
25 x 1/2"	100	10	PA280112P	PA28112PG



Universal wall mounted set

Size	Per box	Per package	Code white	Code gray
20 x 1/2"	20	1	PA60008	PA60008G
25 x 1/2"	16	4	PA60010	PA60010G



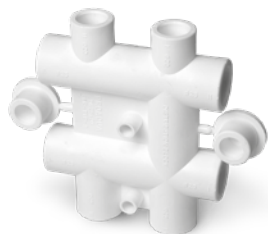
Bypass angle for mixer, F

Size	Per box	Per package	Code white
20 x 1/2"	50	25	PA13912



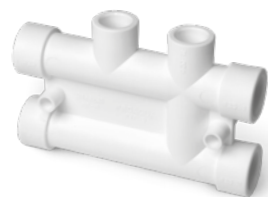
Bypass angle for mixer, M

Size	Per box	Per package	Code white
20 x 1/2"	50	25	PA13812



Distribution unit for water supply systems

Size	Per box	Per package	Code white	Code gray
25 x 20	16	4	PA63012P	PA63012PG



Distribution unit for heating systems

Size	Per box	Per package	Code white	Code gray
25 x 20	28	4	PA63010P	PA63010PG



Check valve

Size	Per box	Per package	Code white	Code gray
20	100	1	PA47008	PA47008G
25	80	1	PA47010	PA47010G
32	50	1	PA47012	PA47012G



Mounting plate

Size	Per box	Per package	Code
200	90	1	PA91100



Strainer

Size	Per box	Per package	Code white	Code gray
20	80	1	PA440008	PA440008G
25	50	1	PA440010	PA440010G
32	30	1	PA440012	PA440012G
40	20	1	PA440014	PA440014G



Strainer, F/M

Size	Per box	Per package	Code white	Code gray
20	80	1	PA450008	PA450008G
25	50	1	PA450010	PA450010G
32	30	1	PA450012	PA450012G
40	20	1	PA450014	PA450014G



Standart reduced bore ball valve

Size	Per box	Per package	Code white	Code gray
20	60	1	PA44008	PA44008G
25	50	1	PA44010	PA44010G
32	30	1	PA44012	PA44012G
40	25	1	PA44012	PA44012G

Standard adapter



Ultra full bore ball valve

Size	Per box	Per package	Code white	Code gray
20	50	1	PA40008	PA40008G
25	40	1	PA40010	PA40010G
32	25	1	PA40012	PA40012G
40	25	1	PA40014	PA40014G
50	10	1	PA40016	PA40016G
63	6	1	PA40018	PA40018G
75	6	1	PA40020	PA40020G

Full pass



Prime full bore ball valve

Size	Per box	Per package	Code white	Code gray
20	60	1	PA40508	PA40508G
25	50	1	PA40510	PA40510G
32	30	1	PA40512	PA40512G

Full pass



Reduced bore ball valve with butterfly handle

Size	Per box	Per package	Code white
20	60	1	PA44508



Heatsink ball valve (straight)

Size	Per box	Per package	Code white	Code gray
20 x 1/2"	60	1	PA41008	PA41008G
25 x 3/4"	45	1	PA41010	PA41010G



Heatsink ball valve (angle)

Size	Per box	Per package	Code white	Code gray
20 x 1/2"	60	1	PA42108	PA42108G
25 x 3/4"	45	1	PA42110	PA42110G



Valve 90°

Size	Per box	Per package	Code white	Code gray
20	50	1	PA42009	PA42009G
25	40	1	PA42011	PA42011G
32	20	1	PA42013	PA42013G



Valve with chrome plated handle

Size	Per box	Per package	Code white	Code gray
20	25	1	PA43008	PA43008G
25	20	1	PA43010	PA43010G
32	32	1	PA43012	PA43012G



3-way valve with chrome plated handle

Size	Per box	Per package	Code white
20	50	1	PA43508
25	40	1	PA43510
32	1	1	PA43512



Manifold

Size	Number of outlets	Per box	Per package	Code white	Code gray
25 x 20	2	25	1	PA6710208P	PA6710208PG
25 x 20	3	20	1	PA6710308P	PA6710308PG
25 x 20	4	15	1	PA6710408P	PA6710408PG
40 x 20	2	1	1	PA6714208P	PA6714208PG
40 x 20	3	1	1	PA6714308P	PA6714308PG
40 x 20	4	1	1	PA6714408P	PA6714408PG



Manifold plug

Size	Per box	Per package	Code white	Code gray
25	200	50	PA671000P	PA671000PG
40	120	30	PA671400P	PA671400PG



Plug for manifold with air vent

Size	Per box	Per package	Code white	Code gray
25	200	50	PA671050P	PA671050PG
40	120	30	PA671450P	PA671450PG



Stripping tool for pneumatic hammer

Size	Per package	Code
20	1	PA52507
25	1	PA52508
32	1	PA52509
40	1	PA52510
50	1	PA52511
63	1	PA52512



Stripping tool

Size	Per package	Code
16-20	1	PA52006
20-25	1	PA52008
32-40	1	PA52010
50-63	1	PA52012
75	1	PA52014
90	1	PA52016
110	1	PA52018



DUO pipe end facer

Size	Per package	Code
20-25	1	PA527008
32-40	1	PA527010
50-63	1	PA527012
75	1	PA527014



Scissors

Size	Per box	Code
16-42	48	ANT-PC-301



Cutter

Size	Per box	Code
50-75	10	PPC-75



Welding equipment set

Power	Code
1500 W	CM-01

The set includes:

- Metal box;
- Welding machine;
- Nozzles (D 20, 25, 32, 40);
- Cutter;
- Bed (the machine is equipped with a clamp)



Welding equipment set

Power	Code
1500 W	CM-02

The set includes:

- Metal box;
- Welding machine;
- Nozzles (D 20, 25, 32, 40);
- Bed



Welding equipment set

Power	Code
2000	CM-04

The set includes:

- Metal box;
- Welding machine;
- Nozzles (D50, 63, 75, 90, 110);
- Screw clamp



Welding machine nozzles

Size	Per package	Code
20	1	PA51008
25	1	PA51010
32	1	PA51012
40	1	PA51014
50	1	PA51016
63	1	PA51018
75	1	PA51020
90	1	PA51022
110	1	PA51024
125	1	PA51026



Manual pressurizing test pump

Pressure	Per package	Per box	Code
0-60 bar	1	2	CM-60



PRO AQUA polymer pipes



The emergence of polymer pipelines in the second half of the last century was a real revolution in the construction industry. The comparative advantages of polymer pipelines are high corrosion resistance, absence of roughness and cross-section clogging, lower hydraulic resistance compared to metal pipes, low weight, ease of installation and dismantling, long service life.

High- and low-pressure polyethylene pipes became widespread in Europe by the early 1960s. However, insufficient heat resistance and strength characteristics prevented the use of these pipes in hot water supply and heating systems. The search for ways to increase the strength and heat resistance properties of polymer pipes led to the idea of modifying polyethylene by so-called "cross-linking." Pipes made of "cross-linked" polyethylene are designated PE-X, where the symbol X stands for cross-linking. Pipes made of modified polyethylene have a number of extra advantages that enables to use them both in water supply and heating. Recently, pipes made of PE-RT (ethylene-octane copolymer), a new polyethylene material resistant to elevated temperatures, have appeared on the market. PE-RT pipes are generally cheaper than pipes made of PE-X cross-linked polyethylene, but have some limitations for use in heating systems (maximum pressure of 8 bar at a temperature of 90°C). Each of the listed types of pipes has found its application in the modern construction industry, meeting some or other of the requirements of state-of-the-art technologies. In any case, when selecting a material for accident-free and long-term operation of engineering systems, it is necessary to take into account all its technical characteristics and properties.

PRO AQUA cross-linked polyethylene PE-Xa pipes

Currently, PE-Xa cross-linked polyethylene pipes are one of the most reliable products suitable for all classes of operation: cold and hot water supply systems (including drinking water), high-temperature heatsink heating and underfloor heating. Pipes are manufactured using only high quality European raw materials at a modern fully automated line with geometry control and cross-linking degree control.

PRO AQUA PE-Xa pipes have thermally induced molecular memory, which enables the structure of the pipe to recover quickly when heated. Pipelines made of PE-Xa cross-linked polyethylene are not subject to corrosion and cross-sectional clogging, and can withstand high temperatures and pressure for a long time (service life — 50 years as per GOST 32415-2013). PRO AQUA manufactures PRO AQUA PE-Xa pipes, which have an EVOH anti-diffusion layer in their construction that prevents oxygen from penetrating through the pipe wall into the heating system.

Silver PRO AQUA PE-Xa pipes are available in SDR 7.4 standard in the following sizes: 16x2.2; 20x2.8; 25x3.5; 32x4.4; 40x5.5. Thus, pipe connections can be made using axial fittings. The maximum operating pressure for PRO AQUA PE-Xa SDR 7.4 pipes is 10 bar for all classes of operation.

PRO AQUA PE-Xa pipes in red color are available in the following sizes: 16x2.0; 20x2.0.

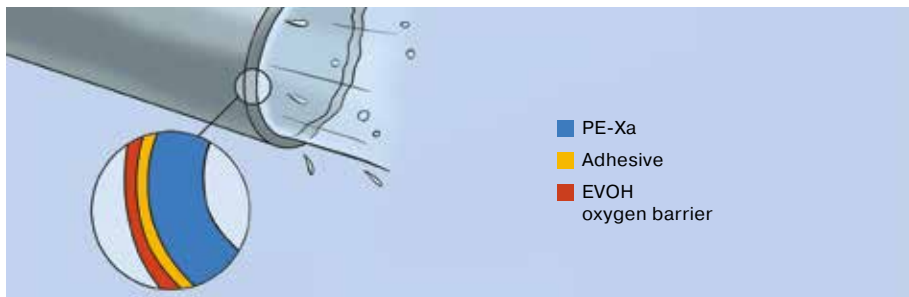
The connection is performed using compression fittings.

Service life not less than 50 years in all classes of operation.

10 years warranty.

ADVANTAGES:

- + resistance to high and low temperatures;
- + resistance to increased pressure heads and abrasion;
- + durability and chemical resistance;
- + “shape memory” effect.
- + equipped with an EVOH oxygen barrier;
- + not subject to corrosion;
- + high noise absorption capacity;
- + absence of mineral deposits on pipe walls;
- + high resistance to water hammers;
- + light and flexible;
- + easy installation.



AquaHeat PE-Xa pipe with EVOH SDR 7.4, silver

Standard size	Meters per package	Code
16 x 2,2	120	PXA.04.06.120.S
16 x 2,2	240	PXA.04.06.240.S
16 x 2,2	500	PXA.04.06.500.S
20 x 2,8	120	PXA.04.08.120.S
25 x 3,5	50	PXA.04.10.050.S
32 x 4,4	50	PXA.04.12.050.S
40 x 5,5	50	PXA.04.14.050.S



AquaFloor PE-Xa pipe with EVOH S3.5/S4.5, red

Standard size	Meters per package	Code
16 x 2.0	100	PXA.03.06.100.R
16 x 2.0	200	PXA.03.06.200.R
16 x 2.0	500	PXA.03.06.500.R
20 x 2.0	100	PXA.03.08.100.R
20 x 2.0	200	PXA.03.08.200.R

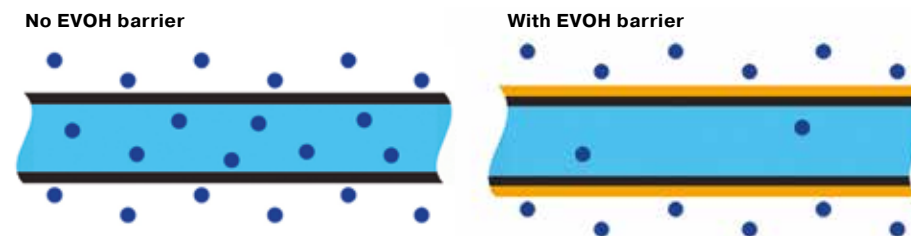
EVOH – oxygen barrier

EVOH is an oxygen barrier which ensures compliance with SP 60.13330.2020 regarding the requirement of not exceeding 0.1 grams of oxygen per 1 m³ of coolant per day.

Important! Pipes without an oxygen barrier leaks oxygen.

Moreover, as the temperature of the coolant increases from 40°C to 80°C, the penetration increases by 10 times!

Oxygen barrier pipes will provide reliable protection of metal surfaces from possible corrosion, which is caused by oxygen dissolved in water.



PRO AQUA PE-RT pipes

PRO AQUA PE-RT universal pipes for water supply and heating are made of enhanced heat resistance polyethylene PE-RT, which was developed in 2004. Through improvements in molecular structure and polymerization control capabilities, PE-RT has exceptional long-term hydrostatic strength at high temperatures.

PE-RT is an ethylene-octane copolymer with a unique molecular structure with a controlled distribution of side chains, which gives PRO AQUA PE-RT pipes the following advantages:

- + resistance to high and low temperatures;
- + resistance to increased pressure;
- + durability and chemical resistance;
- + shock resistance;
- + high flexibility.

Further, PRO AQUA PE-RT pipes have the following advantages:

- + equipped with an EVOH oxygen barrier;
- + the oxygen barrier is protected by it being located in the middle part of the wall;
- + not subject to corrosion;
- + high noise absorption capacity;
- + absence of mineral deposits on pipe walls;
- + high resistance to water hammers;
- + light and flexible;
- + easy installation.

PRO AQUA PE-RT pipes are not adversely affected by building materials into which they can be embedded, e.g. concrete, lime mortar, gypsum.



PE-RT five-layer pipes

PE-RT five-layer pipes are designed for use in cold and hot water supply systems, water heating systems, underfloor and wall heating water systems, soil heating, as well as process pipelines transporting liquids that are not corrosive to the pipe materials. Purple PE-RT SDR 7.4 pipes are designed for connection with axial fittings.



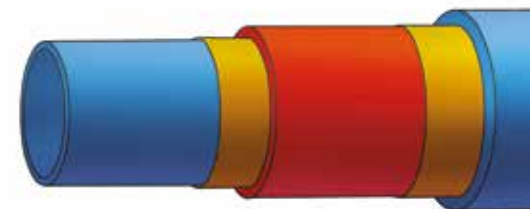
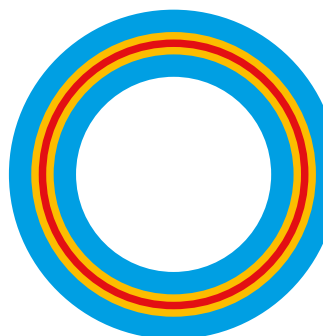
AquaFloor PE-RT five-layer pipe with EVOH S3.5/S4.5, orange

Standard size	Pressure			Code
	class 2	class 4	class 5	
16x2,0 100m	6 bar	8 bar	6 bar	PERT5016100
16x2,0 200m	6 bar	8 bar	6 bar	PERT5016200
16x2,0 300m	6 bar	8 bar	6 bar	PERT5016300
16x2,0 600m	6 bar	8 bar	6 bar	PERT5016600
20x2,0 100m	6 bar	6 bar	4 bar	PERT5020100
20x2,0 200m	6 bar	6 bar	4 bar	PERT5020200



AquaHeat PE-RT five-layer pipe with EVOH SDR 7.4, violet

Standard size	Pressure			Code
	class 2	class 4	class 5	
16 x 2,2 100m	10 bar	10 bar	8 bar	PERT5S7416100
16 x 2,2 200m	10 bar	10 bar	8 bar	PERT5S7416200
16 x 2,2 300m	10 bar	10 bar	8 bar	PERT5S7416300
16 x 2,2 600m	10 bar	10 bar	8 bar	PERT5S7416600
20 x 2,8 100m	10 bar	10 bar	8 bar	PERT5S7420100
20 x 2,8 200m	10 bar	10 bar	8 bar	PERT5S7420200
25 x 3,5 100m	10 bar	10 bar	8 bar	PERT5S7425100
25 x 3,5 50m	10 bar	10 bar	8 bar	PERT5S7425050
32 x 4,4 50m	10 bar	10 bar	8 bar	PERT5S7432050
40 x 5,5 50m	10 bar	10 bar	8 bar	PERT5S7440050



- PE-RT layers
- Adhesive layers
- EVOH oxygen barrier

PE-RT single-layer pipes

PE-RT single-layer pipes are designed for use in cold and hot water supply systems. If there are no restrictions on the content of dissolved oxygen in the coolant, it is possible to use them in underfloor and wall water heating systems, soil heating.

PRO AQUA PE-RT single-layer polymer pressure pipes (white, red) system is designed for at least 50 years of operation, at a maximum pressure of 10 bar. The maximum operating temperature of the heat transfer medium is 90°C.



AquaTech PE-RT SDR 7.4/ S3.2 single-layer pipe, white

Standard size	Pressure			Code
	class 2	class 4	class 5	
16 x 2,2 100M	10 bar	10 bar	8 bar	PERT1S7416100
16 x 2,2 200M	10 bar	10 bar	8 bar	PERT1S7416200
16 x 2,2 300M	10 bar	10 bar	8 bar	PERT1S7416300
16 x 2,2 600M	10 bar	10 bar	8 bar	PERT1S7416600
20 x 2,8 100M	10 bar	10 bar	8 bar	PERT1S7420100
20 x 2,8 200M	10 bar	10 bar	8 bar	PERT1S7420200
25 x 3,5 50M	10 bar	10 bar	8 bar	PERT1S7425050
25 x 3,5 100M	10 bar	10 bar	8 bar	PERT1S7425100
32 x 4,4 50M	10 bar	10 bar	8 bar	PERT1S7432050



AquaTech PE-RT S3.5/S4.5 single-layer pipe, red

Standard size	Pressure			Code
	class 2	class 4	class 5	
16 x 2 100M	6 bar	8 bar	6 bar	PERT1RD16100
16 x 2 200M	6 bar	8 bar	6 bar	PERT1RD16200
16 x 2 300M	6 bar	8 bar	6 bar	PERT1RD16300
16 x 2 600M	6 bar	8 bar	6 bar	PERT1RD16600
20 x 2 100M	6 bar	6 bar	4 bar	PERT1RD20100
20 x 2 200M	6 bar	6 bar	4 bar	PERT1RD20200

Protective corrugated pipes
CORRUGATED PIPES

FLEXIGUARD corrugated pipes are designed to protect polymer pipelines and fittings when installed inside concrete screeds, to insulate areas where heat removal is not required, and to provide mechanical protection for the main pipelines during installation and finishing.



Code	PEX/PE-RT pipe standard size, mm	Number of meters in a coil, m	Outer diameter (D1), mm	Inner diameter (D2), mm
PECP2516R PECP2516B	16	50	25	20
PECP2820R PECP2820B	20	50	28	23
PECP3525R PECP3525B	25	30	35	29
PECP4332R PECP4332B	32	30	43	37



Code	Color	Standard size
PECP2516B	Blue	16
PECP2820B	Blue	20
PECP3525B	Blue	25
PECP4332B	Blue	32
PECP2516R	Red	16
PECP2820R	Red	20
PECP3525R	Red	25
PECP4332R	Red	32

Accessories

The pipe swing lock is designed to fix the pipe shape at an angle of 45 or 90 degrees where the pipeline is connected to the manifold box, heatsink, heating convector and other equipment. This product provides reliable protection of the pipe from kinks and bends, as well as from external damages at the bending points. The pipe swing lock “shoe” is equipped with fasteners for fixing with self-tapping screws to the surface of the floor, walls or ceiling.



Pipe swing lock «shoe»

Code	For pipes 16-20	Turning angle 90
FXG.305.16.W	16-20	90



Pipe swing lock 90°

Code	Per package	Per box	For pipes
PA65000P	25	100	16
PA65020P	20	80	20



Pipe swing lock 45°

Code	Per package	Per box	For pipes
PA65000P45	30	120	16



Axial fittings



PRO AQUA axial fittings (with a slip-on sleeve) are designed, according to GOST 32415- 2013, to connect polymer pipes PE-X and PE-RT series S3.2 (SDR 7.4) used in cold and hot water supply systems, water heating, including surface heating and snow melting systems. They are made of CW617N brass resistant to galvanizing. The connection tightness is achieved by pressing the pipe wall against the fitting socket with a slip-on sleeve.

ADVANTAGES:

- high reliability, the connection is more resistant than a pipe;
- ease and speed of installation;
- threadless, non-detachable fittings may be embedded in building structures;
- absence of rubber O-rings;
- immediately ready for work and testing;
- minimal pressure losses due to the increased effective cross-section;
- universal fittings for potable water supply and heating;
- installation of connections with the special tool Pro AQUA;
- fittings can be disassembled and reused.

TECHNICAL CHARACTERISTICS:

- maximum operating temperature 90°C;
- maximum operating pressure 10 bar at 90°C and 20 bar at 20°C;
- service life not less than 50 years in all classes of operation.



BRASS FITTINGS



Sleeve

Size	Per box	Per package	Code
16	700	50	AX10016ST
20	500	50	AX10020ST
25	300	50	AX10025
32	140	50	AX10032
40	80	10	AX10040



Sleeve

Size	Per box	Per package	Code
16	700	50	AX10016
20	500	50	AX10020



Plug

Size	Per box	Per package	Code
16	750	50	AXB.630.16
20	500	25	AXB.630.20
25	250	10	AXB.630.25



Coupling

Size	Per box	Per package	Code
16 x 16	500	10	AX11016
20 x 20	300	10	AX11020
25 x 25	160	10	AX11025
32 x 32	80	10	AX11032
40 x 40	60	5	AX11040



Adapter coupling

Size	Per box	Per package	Code
16 x 20	400	10	AX101620
16 x 25	250	10	AX102516
20 x 25	200	10	AX102520
25 x 32	100	10	AX103225
25 x 40	80	10	AX102540
32 x 40	50	5	AX103240

Coupling, M

Size	Per box	Per package	Code
16 x 1/2"	400	10	AX1701612
16 x 3/4"	300	10	AX1701634
20 x 1/2"	300	10	AX1702012
20 x 3/4"	250	10	AX1702034
25 x 1/2"	200	10	AX1702512
25 x 1"	150	10	AX1702501
25 x 3/4"	200	10	AX1702534
32 x 1"	100	10	AX1703201
32 x 3/4"	100	10	AX1703234
40 x 1 1/4"	50	5	AX17040114

Coupling, F

Size	Per box	Per package	Code
16 x 1/2"	350	10	AX1801612
16 x 3/4"	200	100	AX1801634
20 x 1/2"	250	10	AX1802012
20 x 3/4"	150	10	AX1802034
25 x 3/4"	120	10	AX1802534
25 x 1"	100	10	AX1802501
32 x 1"	80	10	AX1803201



90° elbow, M

Size	Per box	Per package	Code
16 x 1/2"	300	10	AX3301612
16 x 3/4"	200	10	AX3301634
20 x 1/2"	250	10	AX3302012
20 x 3/4"	180	10	AX3302034
25 x 3/4"	150	10	AX3302534
32 x 1"	60	10	AX3303201



90° elbow, F

Size	Per box	Per package	Code
16 x 1/2"	150	10	AX3501612
16 x 3/4"	150	10	AX3501634
20 x 1/2"	150	10	AX3502012
20 x 3/4"	150	10	AX3502034
25 x 3/4"	100	10	AX3502534
32 x 1"	50	10	AX3503201



90° elbow with coupling nut

Size	Per box	Per package	Code
16 x 1/2"	250	10	AX3501612NG
20 x 1/2"	250	10	AX3502012NG
20 x 3/4"	200	10	AX3502034NG
25 x 3/4"	150	10	AX3502534NG



90° elbow

Size	Per box	Per package	Code
16 x 16	300	10	AX3009016
20 x 20	180	10	AX3009020
25 x 25	100	10	AX3009025
32 x 32	50	50	AX3009032
40 x 40	40	40	AX3009040



90° elbow

Size	Per box	Per package	Code
16 x 1/2"	150	10	AX5001612
20 x 1/2"	120	10	AX5002012



90° elbow with wall mounting (water socket)

Size	Per box	Per package	Code
3/4"	150	10	AXB.650.EK



Eurocone-to-plane adapter

Size	Per box	Per package	Code
16 x 1/2"	150	10	AX5001612L



Coupling with coupling nut

Size	Per box	Per package	Code
16 x 1/2"	400	10	AX6001612
16 x 3/4"	300	10	AX6001634
20 x 1/2"	350	10	AX6002012
20 x 3/4"	250	10	AX6002034
25 x 3/4"	200	10	AX6002534
32 x 1"	100	10	AX6003201
40 x 1 1/2"	50	5	AX60040112



Coupling with Eurocone coupling nut

Size	Per box	Per package	Code
16 x 3/4"	180	10	AX6001634.EK
20 x 3/4"	250	10	AX6002034.EK



Tee

Size	Per box	Per package	Code
16 x 16 x 16	200	10	AX20016
20 x 20 x 20	120	10	AX20020
25 x 25 x 25	80	5	AX20025
32 x 32 x 32	32	2	AX20032
40 x 40 x 40	20	1	AX20040

Tee, F

Size	Per box	Per package	Code
16 x 1/2" x 16	180	10	AX9161216
20 x 1/2" x 20	120	10	AX9201220
25 x 3/4" x 25	80	10	AX9253425



Transition tee

Size	Per box	Per package	Code
16 x 20 x 16	150	10	AX8162016
20 x 16 x 20	150	10	AX8201620
20 x 20 x 16	150	10	AX8202016
20 x 25 x 20	100	10	AX8202520
20 x 16 x 16	100	10	AX8201616
20 x 25 x 16	100	10	AX8202516
25 x 16 x 16	100	10	AX8251616
25 x 16 x 25	100	10	AX8251625
25 x 20 x 16	100	10	AX8252016
25 x 20 x 20	100	10	AX8252020
25 x 20 x 25	80	10	AX8252025
25 x 25 x 16	100	10	AX8252516
25 x 25 x 20	80	10	AX8252520
25 x 32 x 25	50	5	AX8253225
25 x 20 x 32	50	5	AX8322025
25 x 25 x 32	50	5	AX8322525
25 x 16 x 20	50	5	AX8251620
32 x 16 x 32	50	5	AX8321632
32 x 20 x 32	50	5	AX8322032
32 x 25 x 32	40	5	AX8322532
40 x 20 x 40	40	1	AX8402040
40 x 25 x 40	35	1	AX8402540
40 x 32 x 32	25	1	AX8403232
40 x 32 x 40	25	1	AX8403240

Eurocone

Size	Per box	Per package	Code
16 x 2,2	250	10	AX411622E
20 x 2,8	250	10	AX412028E



Heatsink connection nut

Size	Per box	Per package	Code
15 x 3/4"	250	10	AX415134

Heatsink elbow

Size	Per box	Per package	Code
250 x 16	50	10	AX716250
300 x 16	50	10	AX716300
500 x 16	75	15	AX716500
750 x 16	75	15	AX716750
1000 x 16	75	15	AX7161000
250 x 20	50	10	AX720250
300 x 20	50	10	AX720300
500 x 20	75	15	AX720500
750 x 20	75	15	AX720750
1000 x 20	75	15	AX7201000



Heatsink tee

Size	Per box	Per package	Code
250 x 16	50	10	AX416250
300 x 16	50	10	AX416300
500 x 16	75	15	AX416500
750 x 16	75	15	AX416750
1000 x 16	75	15	AX4161000
250 x 20	50	10	AX420250
300 x 20	50	10	AX420300
500 x 20	75	15	AX420500
750 x 20	75	15	AX420750
1000 x 20	75	15	AX4201000
250x20x16	50	10	AX42016250
250 x 16 x 20	50	10	AX41620250
250 x 25 x 20	50	10	AX42520250
250 x 20 x 25	50	10	AX42025250



Hand-held universal tool for installation of axial fittings

For pipes, D x S	Code
16 x 2,2; 20 x 2,8; 25 x 3,5; 32 x 4,4	AXTOOL-1632



Cordless multifunctional pressing tool/expander for installation of axial fittings

For pipes, D x S	Code
16 x 2,2; 20 x 2,8; 25 x 3,5; 32 x 4,4	AX.BTOOL1632C



Protective cover

Code	For pipes
FXG.300.16.W	16-20



Mounting plate

Code	For pipes
FXG.310.1620.S	16-20



Bracket for fixing L-shaped pipes

Code	For pipes
FXG.315.1625.S	16-20

PPSU fittings

To connect PE-X and PE-RT polymer pipes of series S3.2 (SDR 7.4), in addition to brass fittings, fittings made of PPSU (polyphenylsulfone) with tension sleeves made of PVDF (polyvinylidene fluoride) are also used. The connection tightness is achieved by pressing the pipe wall against the fitting socket with a slip-on sleeve. Fittings are assembled using PRO AQUA standard tool for axial systems.

ADVANTAGES:

- + high resistance to mechanical impact loads;
- + the fittings are non-detachable and may be embedded in building structures;
- + ease and speed of installation;
- + absence of rubber O-rings;
- + are not subject to corrosion and mineral deposits;
- + immediately ready for work and testing;

TECHNICAL CHARACTERISTICS:

- + maximum operating temperature 90°C;
- + maximum operating pressure 10 bar at 90°C
- + service life not less than 50 years in all classes of operation.



PVDF sleeve

Size	Per box	Per package	Code
16	300	20	AXP.100.16.E
20	300	20	AXP.100.20.E
25	250	10	AXP.100.25.E
32	120	5	AXP.100.32.E

PPSU coupling

Size	Per box	Per package	Code
16	250	10	AXP.120.16
20	250	10	AXP.120.20
25	150	10	AXP.120.25
32	100	20	AXP.120.32

PPSU adapter coupling

Size	Per box	Per package	Code
16 x 20	250	10	AXP.130.1620
16 x 25	250	10	AXP.130.1625
20 x 25	150	10	AXP.130.2025
25 x 32	100	5	AXP.130.2532

PPSU tee

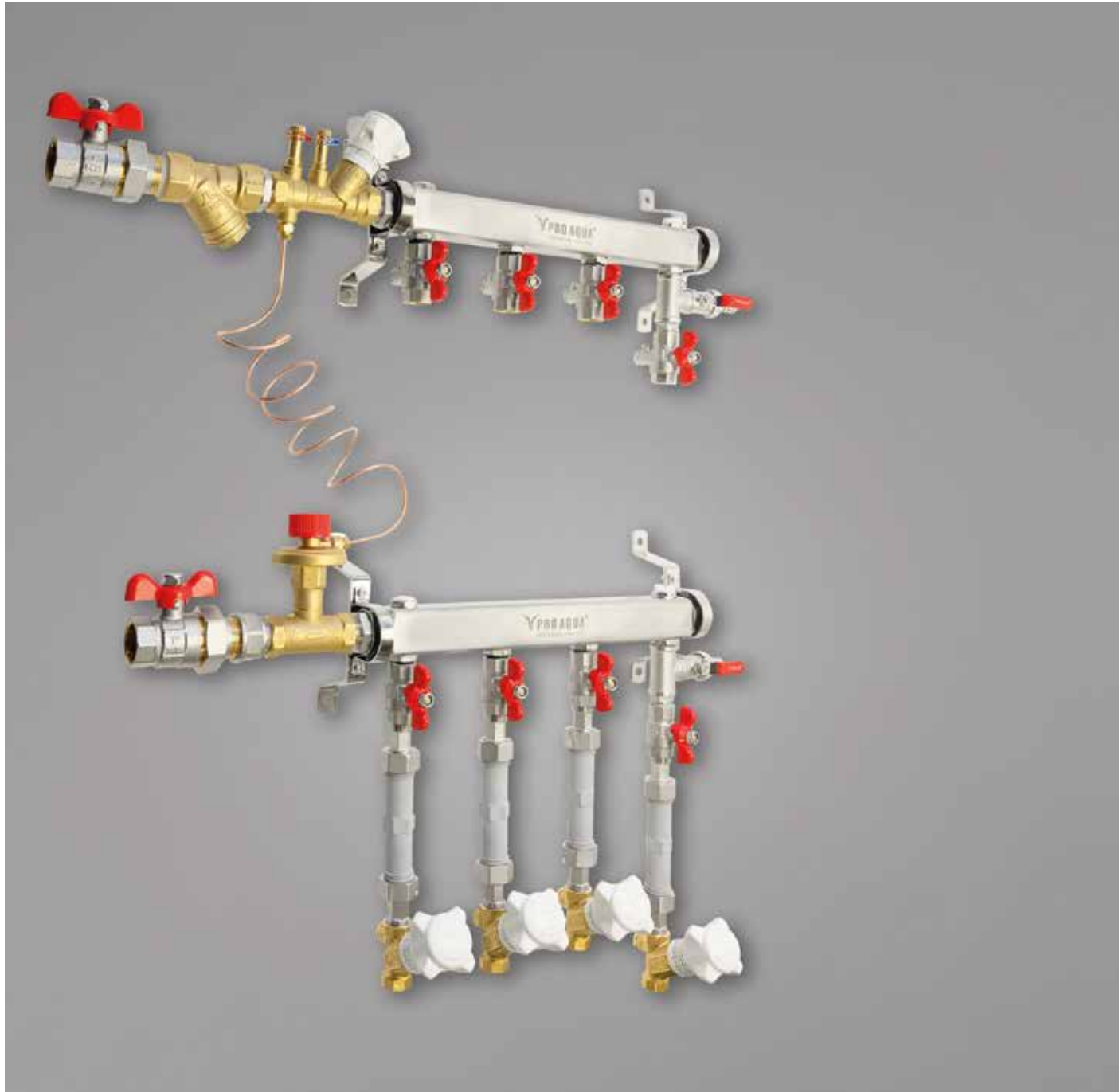
Size	Per box	Per package	Code
16	100	10	AXP.320.16
20	100	5	AXP.320.20
25	80	5	AXP.320.25
32	50	5	AXP.220.32

PPSU transition tee

Size	Per box	Per package	Code
16 x 20 x 16	100	10	AXP.330.162016
20 x 16 x 16	100	10	AXP.330.201616
20 x 16 x 20	100	10	AXP.330.201620
20 x 20 x 16	100	10	AXP.330.202016
20 x 25 x 16	100	10	AXP.330.202516
20 x 25 x 20	100	10	AXP.330.202520
25 x 16 x 16	100	5	AXP.330.251616
25 x 16 x 20	100	5	AXP.330.251620
25 x 16 x 25	100	5	AXP.330.251625
25 x 20 x 16	100	5	AXP.330.252016
25 x 20 x 20	100	5	AXP.330.252020
25 x 20 x 25	100	5	AXP.330.252025
25 x 25 x 16	100	5	AXP.330.252516
25 x 25 x 20	100	5	AXP.330.252520
32 x 16 x 32	80	5	AXP.330.321632
32 x 20 x 20	50	5	AXP.330.322020
32 x 20 x 25	50	5	AXP.330.322025
32 x 20 x 32	50	5	AXP.330.322032
32 x 25 x 20	50	5	AXP.330.322520
32 x 25 x 25	50	5	AXP.330.322525
32 x 25 x 25	50	5	AXP.330.322525

PPSU elbow

Size	Per box	Per package	Code
16	250	10	AXP.220.16
20	150	10	AXP.220.20
25	100	5	AXP.220.25
32	50	5	AXP.220.32



Storey manifold assemblies



The assemblies are used in the water heating systems for distribution and metering (if a heat meter is installed) of heat energy by individual consumers.

The assembly allows to make hydraulic integration of consumers with each other.

The assemblies allow to automatically maintain the pressure differential at the inlet and outlet of the apartment heating system, thus hydraulically integrating the operation of the assembly with other elements of the building heating system. The assemblies allow to perform service operations: air discharge, heat transfer medium cleaning, drain and system filling.

The assemblies are connected to the standpipes of the building heating system. Horizontal apartment heating systems are connected to the outlets of the assemblies.

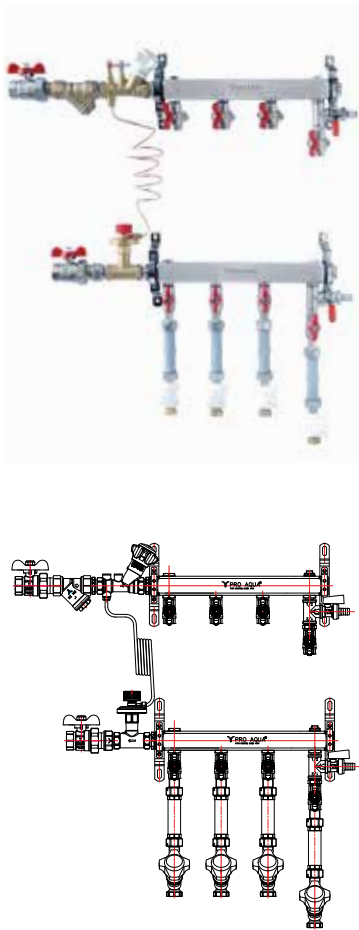
For greater control valve authority, the differential pressure controller and partner valve are installed at a diameter smaller than the inlet fittings.

Upon agreement with the Customer, assemblies can be manufactured in other versions.

TECHNICAL CHARACTERISTICS

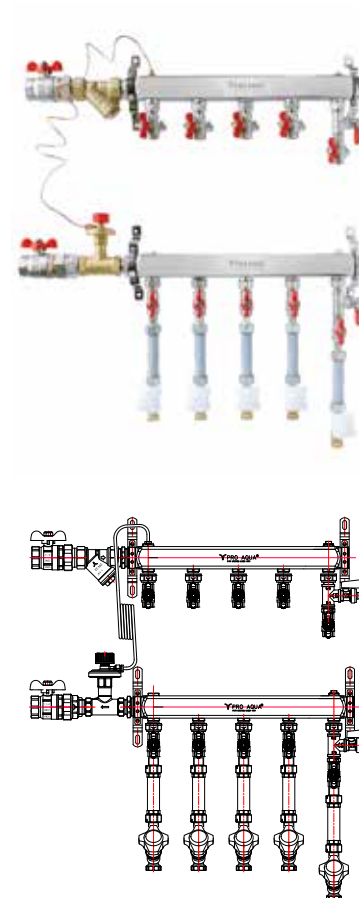
- Operating pressure: 10 bar;
- Test pressure: 15 bar;
- Maximum operating temperature: 95 °C;
- Number of pipe bends on manifolds: 2-9 pcs.;
- Range of supported differential pressures: 5-30 kPa;
- Center-to-center distance between manifold pipe bends 100 mm;
- Working medium: water
- Manifold material: stainless steel AISI 304
- Manifold diameter: 40,50 mm;

Storey manifold assembly with partner valve and balancing valves on pipe bends



Description	Number of pipe bends	Connect. side	Size	Manifold DN			
DN40-2R-20-ABV15/15-BV15	2	R	3/4" x 1/2"	40			
DN40-3R-20-ABV15/15-BV15	3						
DN40-4R-20-ABV15/15-BV15	4						
DN40-5R-20-ABV15/15-BV15	5						
DN40-6R-20-ABV15/15-BV15	6						
DN40-7R-20-ABV15/15-BV15	7						
DN40-8R-20-ABV15/15-BV15	8						
DN40-9R-20-ABV15/15-BV15	9						
DN40-2L-20-ABV15/15-BV15	2				L	3/4" x 1/2"	40
DN40-3L-20-ABV15/15-BV15	3						
DN40-4L-20-ABV15/15-BV15	4						
DN40-5L-20-ABV15/15-BV15	5						
DN40-6L-20-ABV15/15-BV15	6						
DN40-7L-20-ABV15/15-BV15	7						
DN40-8L-20-ABV15/15-BV15	8						
DN40-9L-20-ABV15/15-BV15	9						
DN40-2R-25-ABV20/20-BV15	2	R	1" x 1/2"	40			
DN40-3R-25-ABV20/20-BV15	3						
DN40-4R-25-ABV20/20-BV15	4						
DN40-5R-25-ABV20/20-BV15	5						
DN40-6R-25-ABV20/20-BV15	6						
DN40-7R-25-ABV20/20-BV15	7						
DN40-8R-25-ABV20/20-BV15	8						
DN40-9R-25-ABV20/20-BV15	9						
DN40-2L-25-ABV20/20-BV15	2				L	1" x 1/2"	40
DN40-3L-25-ABV20/20-BV15	3						
DN40-4L-25-ABV20/20-BV15	4						
DN40-5L-25-ABV20/20-BV15	5						
DN40-6L-25-ABV20/20-BV15	6						
DN40-7L-25-ABV20/20-BV15	7						
DN40-8L-25-ABV20/20-BV15	8						
DN40-9L-25-ABV20/20-BV15	9						
DN50-3R-32-ABV25/25-BV15	3	R	1 1/4" x 1/2"	50			
DN50-4R-32-ABV25/25-BV15	4						
DN50-5R-32-ABV25/25-BV15	5						
DN50-6R-32-ABV25/25-BV15	6						
DN50-7R-32-ABV25/25-BV15	7						
DN50-8R-32-ABV25/25-BV15	8						
DN50-9R-32-ABV25/25-BV15	9						
DN50-3L-32-ABV25/25-BV15	3				L	1 1/4" x 1/2"	50
DN50-4L-32-ABV25/25-BV15	4						
DN50-5L-32-ABV25/25-BV15	5						
DN50-6L-32-ABV25/25-BV15	6						
DN50-7L-32-ABV25/25-BV15	7						
DN50-8L-32-ABV25/25-BV15	8						
DN50-9L-32-ABV25/25-BV15	9						

Storey manifold assembly with balancing valves on pipe bends



Description	Number of pipe bends	Connect. side	Size	Manifold DN			
DN40-2R-20-ABV15-BV15	2	R	3/4" x 1/2"	40			
DN40-3R-20-ABV15-BV15	3						
DN40-4R-20-ABV15-BV15	4						
DN40-5R-20-ABV15-BV15	5						
DN40-6R-20-ABV15-BV15	6						
DN40-7R-20-ABV15-BV15	7						
DN40-8R-20-ABV15-BV15	8						
DN40-9R-20-ABV15-BV15	9						
DN40-2L-20-ABV15-BV15	2				L	3/4" x 1/2"	40
DN40-3L-20-ABV15-BV15	3						
DN40-4L-20-ABV15-BV15	4						
DN40-5L-20-ABV15-BV15	5						
DN40-6L-20-ABV15-BV15	6						
DN40-7L-20-ABV15-BV15	7						
DN40-8L-20-ABV15-BV15	8						
DN40-9L-20-ABV15-BV15	9						
DN40-2R-25-ABV20-BV15	2	R	1" x 1/2"	40			
DN40-3R-25-ABV20-BV15	3						
DN40-4R-25-ABV20-BV15	4						
DN40-5R-25-ABV20-BV15	5						
DN40-6R-25-ABV20-BV15	6						
DN40-7R-25-ABV20-BV15	7						
DN40-8R-25-ABV20-BV15	8						
DN40-9R-25-ABV20-BV15	9						
DN40-2L-25-ABV20-BV15	2				L	1" x 1/2"	40
DN40-3L-25-ABV20-BV15	3						
DN40-4L-25-ABV20-BV15	4						
DN40-5L-25-ABV20-BV15	5						
DN40-6L-25-ABV20-BV15	6						
DN40-7L-25-ABV20-BV15	7						
DN40-8L-25-ABV20-BV15	8						
DN40-9L-25-ABV20-BV15	9						
DN50-3R-32-ABV25-BV15	3	R	1 1/4" x 1/2"	50			
DN50-4R-32-ABV25-BV15	4						
DN50-5R-32-ABV25-BV15	5						
DN50-6R-32-ABV25-BV15	6						
DN50-7R-32-ABV25-BV15	7						
DN50-8R-32-ABV25-BV15	8						
DN50-9R-32-ABV25-BV15	9						
DN50-3L-32-ABV25-BV15	3				L	1 1/4" x 1/2"	50
DN50-4L-32-ABV25-BV15	4						
DN50-5L-32-ABV25-BV15	5						
DN50-6L-32-ABV25-BV15	6						
DN50-7L-32-ABV25-BV15	7						
DN50-8L-32-ABV25-BV15	8						
DN50-9L-32-ABV25-BV15	9						

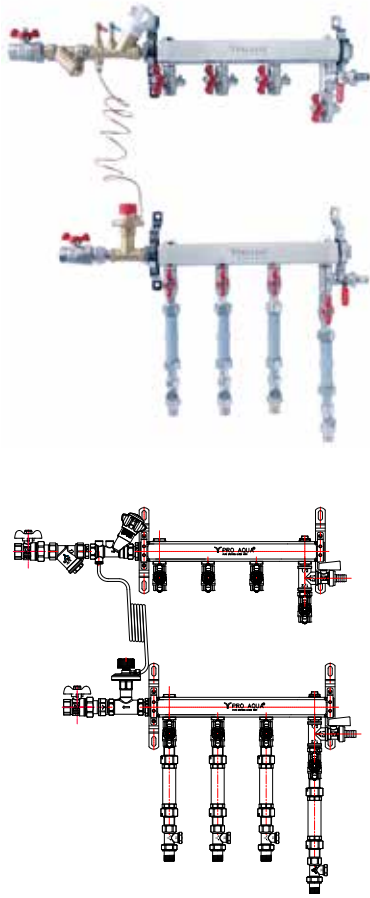
Manifold assembly composition:

Description	Quantity
Pair of high brackets for manifolds	2
Stainless steel manifold	2
Static balancing valve	1
Automatic balancing valve	1
Strainer	1
Full bore ball valve with a union	2
Full bore ball valve	(number of pipe bends)
Drain ball valve with a hose nozzle	2
Full bore ball valve for connecting a temperature sensor	(number of pipe bends)
Repair insert for a heat meter	(number of pipe bends)
Static balancing valve	(number of pipe bends)

Manifold assembly composition:

Description	Quantity
Pair of high brackets for manifolds	2
Stainless steel manifold	2
Automatic balancing valve	1
Strainer	1
Full bore ball valve with a union	2
Full bore ball valve	(number of pipe bends)
Drain ball valve with a hose nozzle	2
Full bore ball valve for connecting a temperature sensor	(number of pipe bends)
Repair insert for a heat meter	(number of pipe bends)
Static balancing valve	(number of pipe bends)

Storey manifold assembly with partner valve and shut-off control valves on pipe bends

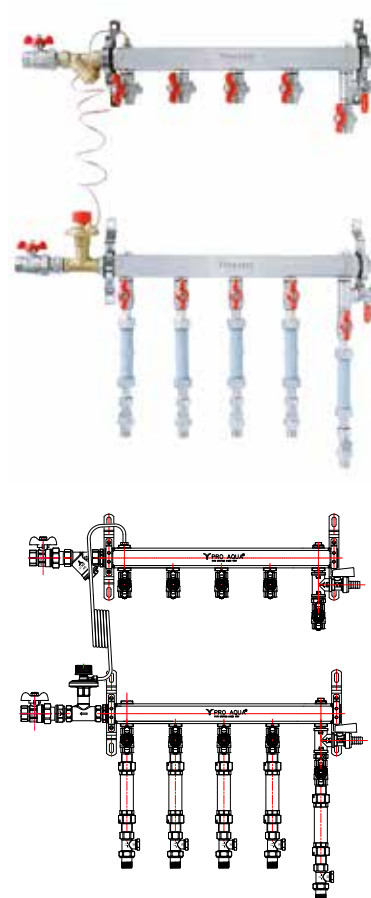


Description	Number of pipe bends	Connect. side	Size	Manifold DN			
DN40-2R-20-ABV15/15-RV15	2	R	3/4" x 1/2"	40			
DN40-3R-20-ABV15/15-RV15	3						
DN40-4R-20-ABV15/15-RV15	4						
DN40-5R-20-ABV15/15-RV15	5						
DN40-6R-20-ABV15/15-RV15	6						
DN40-7R-20-ABV15/15-RV15	7						
DN40-8R-20-ABV15/15-RV15	8						
DN40-9R-20-ABV15/15-RV15	9						
DN40-2L-20-ABV15/15-RV15	2				L	3/4" x 1/2"	40
DN40-3L-20-ABV15/15-RV15	3						
DN40-4L-20-ABV15/15-RV15	4						
DN40-5L-20-ABV15/15-RV15	5						
DN40-6L-20-ABV15/15-RV15	6						
DN40-7L-20-ABV15/15-RV15	7						
DN40-8L-20-ABV15/15-RV15	8						
DN40-9L-20-ABV15/15-RV15	9						
DN40-2R-25-ABV20/20-RV15	2	R	1" x 1/2"	40			
DN40-3R-25-ABV20/20-RV15	3						
DN40-4R-25-ABV20/20-RV15	4						
DN40-5R-25-ABV20/20-RV15	5						
DN40-6R-25-ABV20/20-RV15	6						
DN40-7R-25-ABV20/20-RV15	7						
DN40-8R-25-ABV20/20-RV15	8						
DN40-9R-25-ABV20/20-RV15	9						
DN40-2L-25-ABV20/20-RV15	2				L	1" x 1/2"	40
DN40-3L-25-ABV20/20-RV15	3						
DN40-4L-25-ABV20/20-RV15	4						
DN40-5L-25-ABV20/20-RV15	5						
DN40-6L-25-ABV20/20-RV15	6						
DN40-7L-25-ABV20/20-RV15	7						
DN40-8L-25-ABV20/20-RV15	8						
DN40-9L-25-ABV20/20-RV15	9						
DN50-3R-32-ABV25/25-RV15	3	R	1 1/4" x 1/2"	50			
DN50-4R-32-ABV25/25-RV15	4						
DN50-5R-32-ABV25/25-RV15	5						
DN50-6R-32-ABV25/25-RV15	6						
DN50-7R-32-ABV25/25-RV15	7						
DN50-8R-32-ABV25/25-RV15	8						
DN50-9R-32-ABV25/25-RV15	9						
DN50-3L-32-ABV25/25-RV15	3				L	1 1/4" x 1/2"	50
DN50-4L-32-ABV25/25-RV15	4						
DN50-5L-32-ABV25/25-RV15	5						
DN50-6L-32-ABV25/25-RV15	6						
DN50-7L-32-ABV25/25-RV15	7						
DN50-8L-32-ABV25/25-RV15	8						
DN50-9L-32-ABV25/25-RV15	9						

Manifold assembly composition:

Description	Quantity
Pair of high brackets for manifolds	2
Stainless steel manifold	2
Static balancing valve	1
Automatic balancing valve	1
Strainer	1
Full bore ball valve with a union	2
Full bore ball valve	(number of pipe bends)
Drain ball valve with a hose nozzle	2
Full bore ball valve for connecting a temperature sensor	(number of pipe bends)
Repair insert for a heat meter	(number of pipe bends)
Shut-off control valve	(number of pipe bends)

Storey manifold assembly with shut-off control valves on pipe bends



Description	Number of pipe bends	Connect. side	Size	Manifold DN			
DN40-2R-20-ABV15-RV15	2	R	3/4" x 1/2"	40			
DN40-3R-20-ABV15-RV15	3						
DN40-4R-20-ABV15-RV15	4						
DN40-5R-20-ABV15-RV15	5						
DN40-6R-20-ABV15-RV15	6						
DN40-7R-20-ABV15-RV15	7						
DN40-8R-20-ABV15-RV15	8						
DN40-9R-20-ABV15-RV15	9						
DN40-2L-20-ABV15-RV15	2				L	3/4" x 1/2"	40
DN40-3L-20-ABV15-RV15	3						
DN40-4L-20-ABV15-RV15	4						
DN40-5L-20-ABV15-RV15	5						
DN40-6L-20-ABV15-RV15	6						
DN40-7L-20-ABV15-RV15	7						
DN40-8L-20-ABV15-RV15	8						
DN40-9L-20-ABV15-RV15	9						
DN40-2R-25-ABV20-RV15	2	R	1" x 1/2"	40			
DN40-3R-25-ABV20-RV15	3						
DN40-4R-25-ABV20-RV15	4						
DN40-5R-25-ABV20-RV15	5						
DN40-6R-25-ABV20-RV15	6						
DN40-7R-25-ABV20-RV15	7						
DN40-8R-25-ABV20-RV15	8						
DN40-9R-25-ABV20-RV15	9						
DN40-2L-25-ABV20-RV15	2				L	1" x 1/2"	40
DN40-3L-25-ABV20-RV15	3						
DN40-4L-25-ABV20-RV15	4						
DN40-5L-25-ABV20-RV15	5						
DN40-6L-25-ABV20-RV15	6						
DN40-7L-25-ABV20-RV15	7						
DN40-8L-25-ABV20-RV15	8						
DN40-9L-25-ABV20-RV15	9						
DN50-3R-32-ABV25-RV15	3	R	1 1/4" x 1/2"	50			
DN50-4R-32-ABV25-RV15	4						
DN50-5R-32-ABV25-RV15	5						
DN50-6R-32-ABV25-RV15	6						
DN50-7R-32-ABV25-RV15	7						
DN50-8R-32-ABV25-RV15	8						
DN50-9R-32-ABV25-RV15	9						
DN50-3L-32-ABV25-RV15	3				L	1 1/4" x 1/2"	50
DN50-4L-32-ABV25-RV15	4						
DN50-5L-32-ABV25-RV15	5						
DN50-6L-32-ABV25-RV15	6						
DN50-7L-32-ABV25-RV15	7						
DN50-8L-32-ABV25-RV15	8						
DN50-9L-32-ABV25-RV15	9						

Manifold assembly composition:

Description	Quantity
Pair of high brackets for manifolds	2
Stainless steel manifold	2
Automatic balancing valve	1
Strainer	1
Full bore ball valve with a union	2
Full bore ball valve	(number of pipe bends)
Drain ball valve with a hose nozzle	2
Full bore ball valve for connecting a temperature sensor	(number of pipe bends)
Repair insert for a heat meter	(number of pipe bends)
Shut-off control valve	(number of pipe bends)

Developing

BIM families for easy design

Pro Aqua has been actively involved in the development of BIM design since 2018 and can provide its clients with a wide range of models both in the Russian and English languages.

Our specialists regularly receive feedback from customers and consider all suggestions when developing new models and modernizing the old ones. BIM (Building Information Model) can be considered as an IT model (digital twin) of construction equipment or material. Companies working in a BIM environment save a huge amount of time in the design process as different departments can work on the project in parallel and monitor changes to the building and where the different systems run on the plan, thereby avoiding collisions.

An increasing number of designers are starting to work in a BIM environment, which means that having BIM models of products is one of the deciding factors in getting into a project. From January 1, 2022, the information model of an object becomes a mandatory condition for entering into an agreement on the preparation of design documentation for the construction, reconstruction or major repair of an object financed with budgetary funds.

Pro Aqua SET 7.2 for hydraulic calculations

Pro Aqua, together with SANKOM, has developed a proprietary version of Pro Aqua SET 7.2 software for hydraulic calculations on the Audytor platform, which any user can try out by downloading a 30-day demo version or obtaining a free license key. In case of any problems during use, you can get consultation or technical support from our specialists.

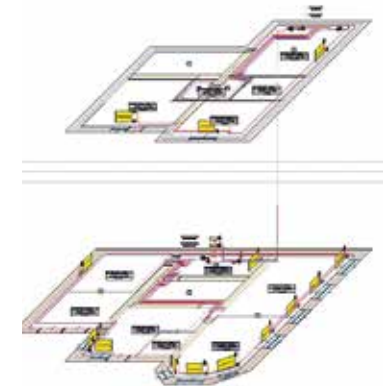
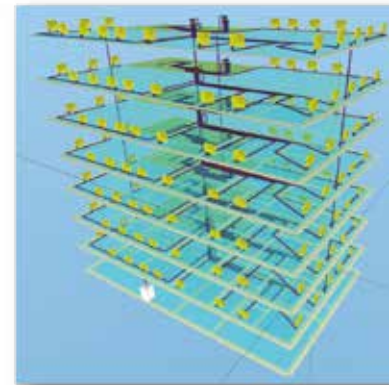
Currently, Pro Aqua has about 450 models.



BIM families of the whole range of PRO AQUA equipment (with the possibility to download families from the official website and the websites of the largest Russian BIM libraries: BIMLIB and PRORUBIM)



Designing indoor systems, such as a heating system, is a complex and time-consuming process. Even the slightest inaccuracy can cause the entire system to be miscalculated and most likely to operate incorrectly or not at all. Quite recently, all calculations had to be done manually. However, now there are special programs that can help us with this, thereby reducing the time of work and eliminating the human factor in the analysis of the finished calculation.



Program features:

- calculation of such systems as: heating, underfloor heating, cold supply, heat supply, hot water supply
- drawing of systems in axonometric perspective, on plans, on the large-scale plane
- balancing adjustment
- diameter selection for balancing, fittings, pipes
- selection of heaters (length/number of sections)
- selection of pump or operating point
- system analysis for errors during verification calculations
- 3D visualization of systems
- possibility to design one system or several systems in one file

In order to download Pro Aqua assemblies, you can visit our official website www.proaqua.pro or write to our specialists from the Technical Department technics@proaqua.ru for a consultation on any question you may have regarding assemblies and other equipment.

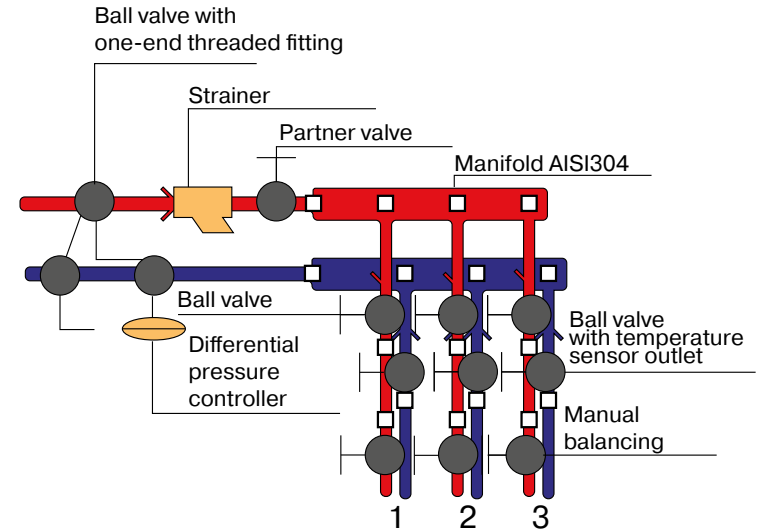
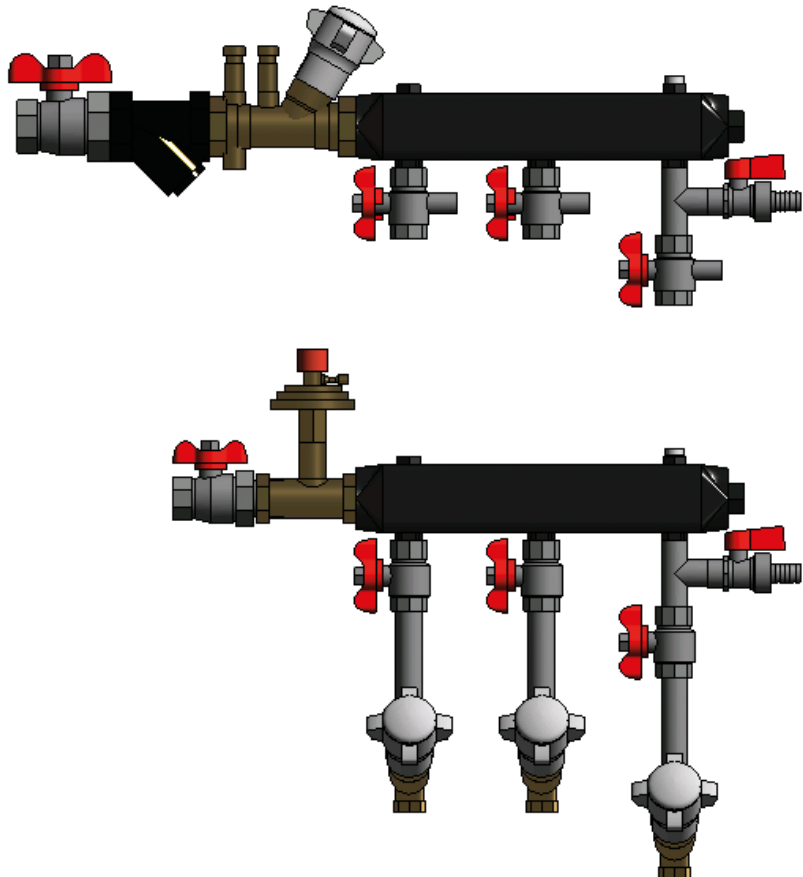
Possibility to carry out hydraulic calculations using complete units.

Pro Aqua can provide hydraulic calculations of these assemblies or their complete units for integration into Sankom Audytor (versions 6.9 to 7.2) and PRO AQUA SET 7.2 programs.

Revit BIM families

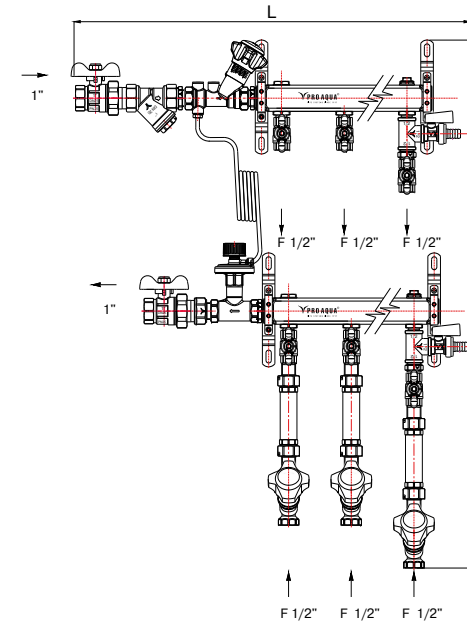
All standard types of apartment and storey assemblies are represented by Pro Aqua as BIM families (digital twins) to simplify work and reduce design time of internal heating and water supply systems.

All BIM families can be downloaded from the company's official website www.proaqua.pro and from the portal of the largest BIM libraries in Russia: BIMLIB and PRORUBIM. There are models both in the Russian and English languages.



2D models for AutoCAD

Our technical department will provide 2D drawings of assemblies of any configuration for customers working in AutoCAD. Including overall dimensions and specifications.



Description	Quantity
PRO AQUA pair of high brackets 49mm for 1" manifolds with center-to-center distance of 100 mm	2
PRO AQUA stainless steel manifold with center-to-center distance of 100 mm, 1 x 1/2"	2
PRO AQUA threaded brass adapter nipple, M 1" x 3/4"	3
Giacomini static balancing valve with the option of fitting pressure difference measurement nozzles, F-F thread — 3/4"	1
PRO AQUA Strainer, F-F 1	1
PRO AQUA full bore ball valve with a union, butterfly handle, M-F 1	2
Giacomini differential pressure controller 3/4"	1
PRO AQUA brass threaded adapter, M-F 3/4" x 1"	1
PRO AQUA full bore ball valve with butterfly handle, F-F 1/2"	number of pipe bends
Repair spacer for heat meter, L 110 mm	number of pipe bends
PRO AQUA nozzle with coupling nut and seal eyelet, M 1/2" x 3/4"	(number of pipe bends)*2
Giacomini static balancing valve, F-F thread, compact design, with outlet for drain or impulse tube connection, 1/2"	number of pipe bends
PRO AQUA full bore ball valve for connecting a temperature sensor, butterfly handle, F-F 1/2"	number of pipe bends
PRO AQUA drain ball valve with a hose nozzle, lever handle, M 1/2"	2
Pro Aqua brass threaded tee, F 1/2"	2
PRO AQUA threaded brass nipple, M 1/2"	2

Size L, mm						
2 outlets	3 outlets	4 outlets	5 outlets	6 outlets	7 outlets	8 outlets
530	630	730	830	930	1030	1130
DN40-N L -25-ABV20/20-BV15						

Residential stations



Residential stations are used for connection of water supply and heating systems of individual consumers to the centralized source.

Main functions of residential stations:

- Protecting against hydraulic shocks in CWS/HWS;
- Reducing the pressure in the CWS/HWS circuits to the required value.
- Maintaining constant differential pressure in systems with variable flow rates;
- Removal of air from the residential heating system circuit;

Upon agreement with the Customer, assemblies can be manufactured in other versions.

TECHNICAL CHARACTERISTICS

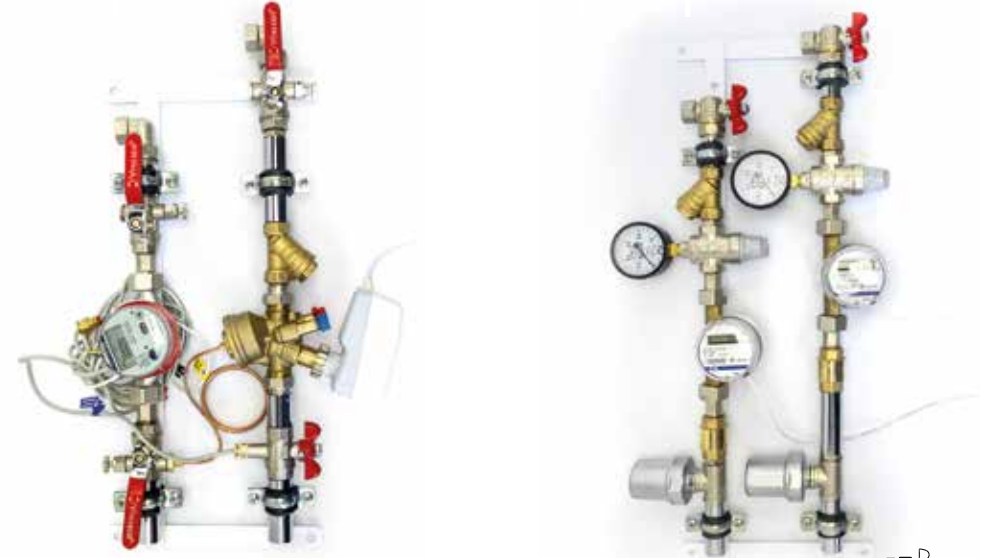
- Operating pressure: 10 bar;
 - Test pressure: 15 bar;
 - Diameter of connection to riser pipe, DN: 15 mm;
 - Diameter of consumer connection, DN: 15 mm;
 - Nominal flow rate through the heating module: 0.6 m³/h;
 - Nominal flow rate through the water modules: 1.5 m³/h
 - Maximum heating temperature: 95°C
 - Maximum HWS temperature: 80°C
 - Setting range of the pressure reducers of the water supply modules: 0.5 - 4 bar
- Working medium: Water

Residential heating station

Size"	Connection side	Code
1/2"x1/2"	L	PA-ABV15-L-HM
1/2"x1/2"	R	PA-ABV15-L-HM

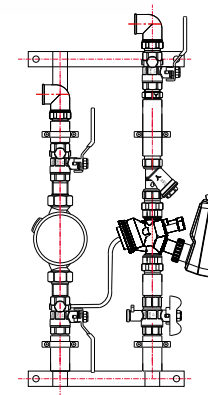
Residential water supply station

Size"	Connection side	Code
1/2"x1/2"	L	PA-PRV15-L-HM
1/2"x1/2"	R	PA-PRV15-L-HM



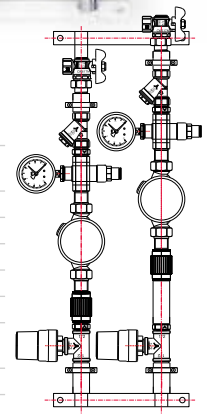
Residential station composition:

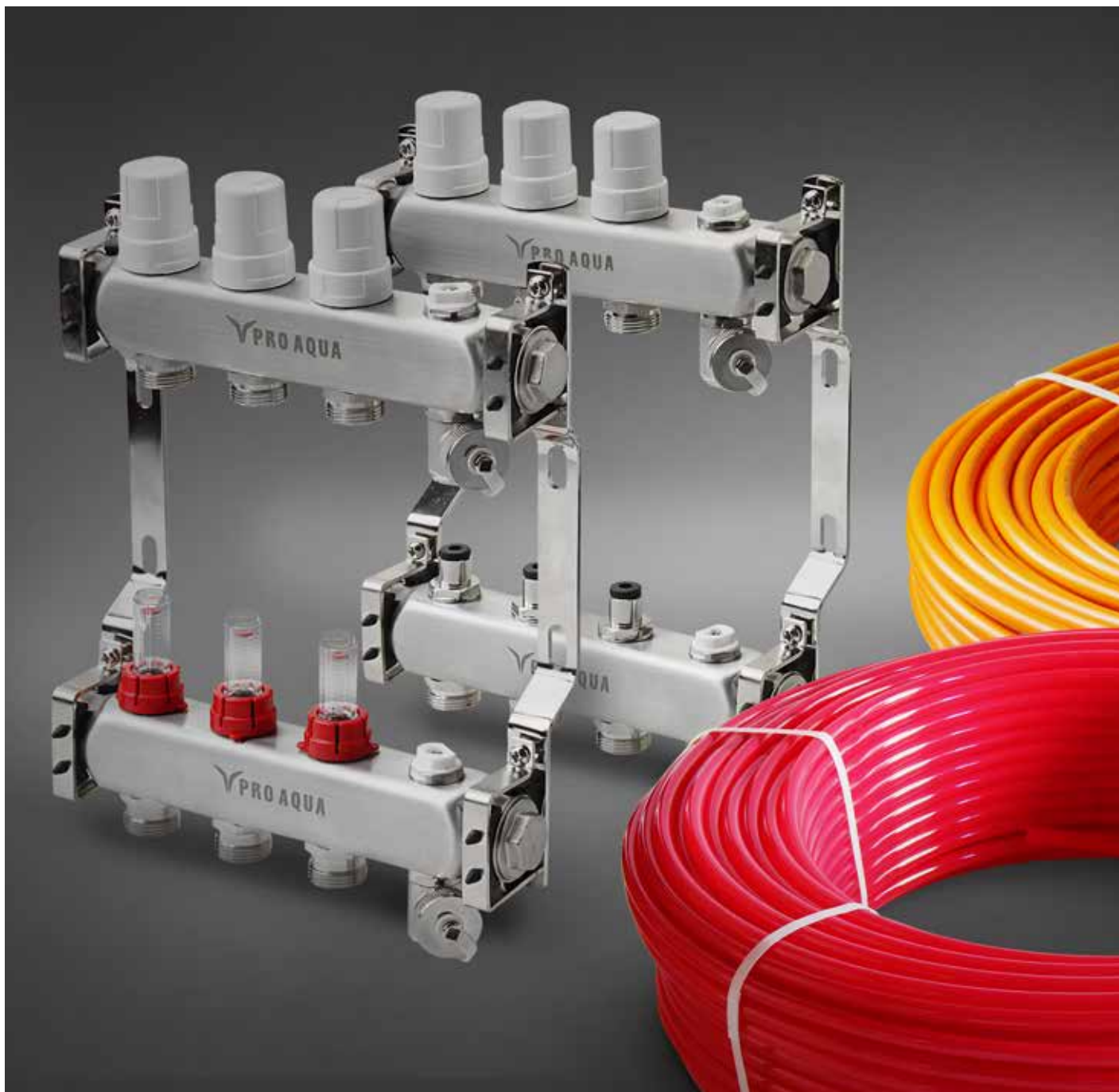
Description	Qty
Full bore ball valve with drain and air vent	3
Strainer	1
Automatic balancing valve	1
Heat meter	1
Full bore ball valve for connecting a temperature sensor	1
Installation frame	1



Residential station composition:

Description	Qty
Full bore angle ball valve with a union	2
Strainer	2
Pressure reducer	2
Pressure gauge	2
Water meter	2
Check valve	2
Hydrostatic shock expansion joint	2
Installation frame	1





Assembled manifold systems for heating and underfloor heating



PRO AQUA manifold units are reliable utility equipment for efficient organization of heating and underfloor heating systems. The wall thickness of the PRO AQUA manifold unit has been increased to 1.6 mm. In addition, the manifold units have an increased cross-section of 40x40.7 mm (16.28 sq.cm), therefore they have a higher flow capacity.

The manifold systems are made of AISI 304 stainless steel (American Iron and Steel Institute). The PRO AQUA manifold group includes a supply and return manifold units. The accessories include: shut-off control valves or flow meters (depending on the system type), air-purge valve, drain valve and wall mounting bracket.

Main advantages of PRO AQUA manifold systems:

- + the best quality/price ratio;
- + resistance to chemicals and acidic media;
- + exceptional sustainability;
- + complete set of manifold group;
- + compatibility of all system components;
- + reliable connections;
- + easy installation and further maintenance.



Manifold block with flow meters and automatic air vents

Standard size	Per box	Per package	Code
3 выхода, 230 mm, 1 x 3/4"	5	1	V500MB.AV.03
4 выхода, 280 mm, 1 x 3/4"	5	1	V500MB.AV.04
5 выходов, 330 mm, 1 x 3/4"	5	1	V500MB.AV.05
6 выходов, 380 mm, 1 x 3/4"	5	1	V500MB.AV.06
7 выходов, 430 mm, 1 x 3/4"	5	1	V500MB.AV.07
8 выходов, 480 mm, 1 x 3/4"	5	1	V500MB.AV.08
9 выходов, 530 mm, 1 x 3/4"	5	1	V500MB.AV.09
10 выходов, 580 mm, 1 x 3/4"	4	1	V500MB.AV.10
11 выходов, 580 mm, 1 x 3/4"	4	1	V500MB.AV.11
12 выходов, 580 mm, 1 x 3/4"	4	1	V500MB.AV.12



Manifold unit with flow meters

Standard size	Per box	Per package	Code
2 выхода, 180 mm, 1 x 3/4"	5	1	V500MB.02
3 выхода, 230 mm, 1 x 3/4"	5	1	V500MB.03
4 выхода, 280 mm, 1 x 3/4"	5	1	V500MB.04
5 выходов, 330 mm, 1 x 3/4"	5	1	V500MB.05
6 выходов, 380 mm, 1 x 3/4"	5	1	V500MB.06
7 выходов, 430 mm, 1 x 3/4"	5	1	V500MB.07
8 выходов, 480 mm, 1 x 3/4"	5	1	V500MB.08
9 выходов, 530 mm, 1 x 3/4"	5	1	V500MB.09
10 выходов, 580 mm, 1 x 3/4"	4	1	V500MB.10
11 выходов, 630 mm, 1 x 3/4"	4	1	V500MB.11
12 выходов, 680 mm, 1 x 3/4"	4	1	V500MB.12



Manifold unit with control valves

Standard size	Per box	Per package	Code
2 выхода, 180 mm, 1 x 3/4"	5	1	R510MB.02
3 выхода, 230 mm, 1 x 3/4"	5	1	R510MB.03
4 выхода, 280 mm, 1 x 3/4"	5	1	R510MB.04
5 выходов, 330 mm, 1 x 3/4"	5	1	R510MB.05
6 выходов, 380 mm, 1 x 3/4"	5	1	R510MB.06
7 выходов, 430 mm, 1 x 3/4"	5	1	R510MB.07
8 выходов, 480 mm, 1 x 3/4"	5	1	R510MB.08
9 выходов, 530 mm, 1 x 3/4"	5	1	R510MB.09
10 выходов, 580 mm, 1 x 3/4"	4	1	R510MB.10
11 выходов, 630 mm, 1 x 3/4"	4	1	R510MB.11
12 выходов, 680 mm, 1 x 3/4"	4	1	R510MB.12



Manifold unit with air vent, center-to-center distance of 50 mm

Standard size	Per box	Per package	Code
2 выхода, 180 mm, 1 x 3/4"	5	1	S540MB.02
3 выхода, 230 mm, 1 x 3/4"	5	1	S540MB.03
4 выхода, 280 mm, 1 x 3/4"	5	1	S540MB.04
5 выходов, 330 mm, 1 x 3/4"	5	1	S540MB.05



Manifold with center-to-center distance of 100 mm

Standard size	Per box	Per package	Code
2 выхода, 180 mm, 1 x 1/2"	10	2	S520MB.02
3 выхода, 280 mm, 1 x 1/2"	10	2	S520MB.03
4 выхода, 380 mm, 1 x 1/2"	10	2	S520MB.04
5 выходов, 480 mm, 1 x 1/2"	8	2	S520MB.05
6 выходов, 580 mm, 1 x 1/2"	8	2	S520MB.06
7 выходов, 680 mm, 1 x 1/2"	5	1	S520MB.07
8 выходов, 780 mm, 1 x 1/2"	5	1	S520MB.08
9 выходов, 880 mm, 1 x 1/2"	5	1	S520MB.09
3 выхода, 290 mm, 1.1/4 x 3/4"	10	2	S530MB.03
4 выхода, 390 mm, 1.1/4 x 3/4"	10	2	S530MB.04
5 выходов, 490 mm, 1.1/4 x 3/4"	10	2	S530MB.05
6 выходов, 590 mm, 1.1/4 x 3/4"	8	2	S530MB.06
7 выходов, 690 mm, 1.1/4 x 3/4"	5	1	S530MB.07
8 выходов, 790 mm, 1.1/4 x 3/4"	5	1	S530MB.08
9 выходов, 890 mm, 1.1/4 x 3/4"	5	1	S530MB.09



Manifold with shut-off valves

Standard size	Per box	Per package	Code
3/4", 2 x 1/2"	54	1	V100.02-M20-F20
3/4", 3 x 1/2"	36	1	V100.03-M20-F20
3/4", 4 x 1/2"	27	1	V100.04-M20-F20



Brass manifold with control valves

Standard size	Per box	Per package	Code
2 выхода, 3/4 x 1/2	25	1	V200.02-m20-m15
3 выхода, 3/4 x 1/2	25	1	V200.03-m20-m15
4 выхода, 3/4 x 1/2	25	1	V200.04-m20-m15



Brass manifold with control valves, Eurocone

Standard size	Per box	Per package	Code
2 выхода, 1 x 3/4 EK	25	1	V200.02EK-m25-m20
3 выхода, 1 x 3/4 EK	25	1	V200.03EK-m25-m20
4 выхода, 1 x 3/4 EK	25	1	V200.04EK-m25-m20

3-way mixing valve

Standard size	Per box	Per package	Code
1"	40	1	TMV-F25-F25-F25

Pumping and mixing assembly (without pump)

Standard size	Per box	Per package	Code
1"	5	1	MIX-m25-m25k

The assembly consists of:

- Extendable bracket for fixing the mixing unit;
- Mixing valve with thread m30 x 1.5 for mounting a thermostatic head with immersion temperature sensor;
- Adjustable bypass valve;
- Case for immersion temperature sensor;
- Reference thermometer from 0 to 80 °C;
- Automatic air vent with manual valve;
- Thermostatic head with immersion sensor (fixed temperature control from 20 to 60 °C)



Straightway bypass

Standard size	Per box	Per package	Code
1"	24	1	BP-M25-M25



Manifold bracket V100

Standard size	Per box	Per package	Code
3/4"	80	2	FIX.115-20



Pair of low brackets, 17 mm

Standard size	Per box	Per package	Code
1"	80	2	FIX.L17-25
1.1/4"	100	2	FIX.L17-40



Pair of high brackets, 49 mm

Standard size	Per box	Per package	Code
1"	80	2	FIX.H49-25
1.1/4"	60	2	FIX.H49-40

AUTOMATION SYSTEMS



Room thermostat with weekly programming

Per box	Per package	Code
50	1	INS920WHL-7



WIFI room thermostat with weekly programming

Per box	Per package	Code
1	1	INS921WHL-7-DF-WIFI



WIFI Communicator

Per box	Per package	Code
1	1	INSSCU209DE



Zone communicator

Per box	Per package	Code
22	1	INSSCU209I



Electrothermal servomotor, normally closed

Standard size	Per box	Per package	Code
220 B	100	1	INS220NC.01
24 B	100	1	INS24NC.01

TOOLS AND ACCESSORIES FOR PIPE FIXING



Bracket for underfloor heating

Size	Per box	Per package	Code
16 - 20	2000	100	FCH2004



Energoflex Super damping tape

Size	Per box	Per package	Code
10/0, 1-11 m (10 mm)	1	1	EFRL1010011DM
10/0, 15-11 m (10 mm)	1	1	EFRL1015011DM

Damping tape is designed to compensate for thermal expansion of cement screed in underfloor heating systems. Polyethylene film is used to prevent liquid grout from leaking under the tape bottom edge.



Fixing tire

Size	Per box	Per package	Code
10/0, 1-11m	1	1	EDS100109

INSULATION SYSTEM FOR UNDERFLOOR HEATING



Laminated polystyrene foam for underfloor heating

Size	Per package	Code
1100 x 700 x 40	13	EFRP200.71.1PLK

Technical characteristics:

• Pipe diameter	14-16 mm
• Sound insulation	28 dB
• Thermal resistance	0.81 m ² *K/W
• Compressive strength	70 kPa
• Laying pitch	50 mm
• Slab size	1100 x 700 x 40 mm
• Active slab area,	S=0.77 m ²

Energofloor Compact rolls

Size	Code
3/1, 0-30 m (3 mm)	EFRR03130COM
5/1, 0-20 m (5 mm)	EFRR05120COM

MANIFOLD BOXES FOR HEATING AND UNDERFLOOR HEATING

Manifold boxes are designed to accommodate distribution units of heating, water supply and underfloor heating systems. Depending on the intended use, the box contains: manifolds with fixtures, control and safety valves.

The model range is represented by two main types:

- built-in box;
- outdoor box.

KEY advantages:

- + removable door equipped with an internal lock for protection against unauthorized access;
- + perforated side walls: segments are removed at a convenient location for connecting pipes to manifolds;
- + box height adjustment;
- + all front surfaces of the boxes are painted with powder paint with a pre-applied phosphate film to provide anti-corrosion properties to the product.

Additional advantages of built-in boxes:

- + galvanized steel housing;
- + box depth adjustment using the sliding frame;
- + clamps on the side panels.



Built-in distribution manifold box

Type	Size	Number of manifold outlets	Code
ShRV-1	450 x 120-180 x 648-711	1-5	0-32-1100
ShRV-2	550 x 120-180 x 648-711	6-7	0-32-1110
ShRV-3	700 x 120-180 x 648-711	8-10	0-32-1120
ShRV-4	850 x 120-180 x 648-711	11-12	0-32-1130
ShRV-5	1000 x 120-180 x 648-711	13-16	0-32-1140
ShRV-6	1150 x 120-180 x 648-711	17-18	0-32-1150
ShRV-7	1300 x 120-180 x 648-711	19-20	0-32-1160



Outdoor distribution manifold box

Type	Size	Number of manifold outlets	Code
ShRN-1	450 x 118 x 652-715	1-5	0-32-1010
ShRN-2	550 x 118 x 652-715	6-7	0-32-1020
ShRN-3	697 x 118 x 652-715	8-10	0-32-1030
ShRN-4	848 x 118 x 652-715	11-12	0-32-1040
ShRN-5	998 x 118 x 652-715	13-16	0-32-1050
ShRN-6	1147 x 118 x 652-715	17-18	0-32-1060
ShRN-7	1300 x 118 x 652-715	19-20	0-32-1070

FAVORABLE PRICE.
CONVENIENT OPERATION.
RUSSIAN STANDARDS.



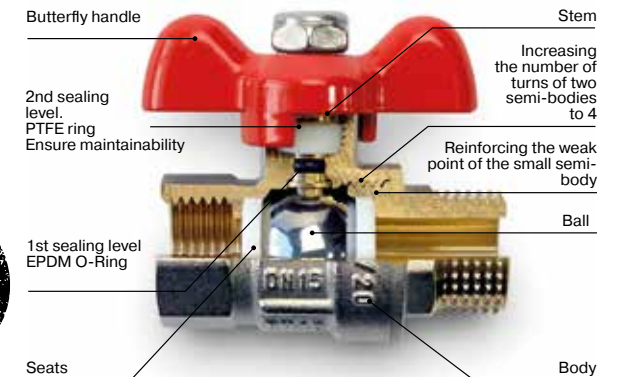
Shut-off valves

PRO AQUA full bore ball valves have a number of design advantages, in particular:

- + Valve body is made of CW617N brass;
- + The surface of the shut-off ball is chrome plated with subsequent diamond polishing, which eliminates premature wear of the seat rings;
- + Teflon (PTFE) seat ring in contact with the ball withstands temperatures from -25 to +150°C.

The newly designed PRO AQUA full bore ball valves are reinforced by increasing the number of thread turns at the connection point of the two semi-bodies. The four thread turns provide the crane structure with a greater safety margin, which increases the maximum allowable torque and maximum bending moment. The PRO AQUA reinforced full bore ball valve has two levels of sealing. It has an O-Ring made of EPDM material, just like the regular valve model. The second sealing level is provided by a repairable design based on a thick PTFE O-ring and a CW614N brass clamping nut. If the stem seal is worn, the valve can be easily repaired by simply tightening the gland using the compression nut.

Ball valve



FULL BORE VALVES



Full bore ball valve with butterfly handle, M/F

Size	Max. Oper. Pressure, bar	Per box	Per package	Code
1/2"	40	192	24	FWB61-m15-f15s
3/4"	40	96	12	FWB61-m20-f20x
1"	25	72	12	FWB61-m25-f25x
1.1/4"	25	36	6	FWB61-m32-f32x



Full bore ball valve with butterfly handle, F/F

Size	Max. Oper. Pressure, bar	Per box	Per package	Code
1/2"	40	192	24	FWB63-f15-f15s
3/4"	40	120	15	FWB63-f20-f20x
1"	25	72	12	FWB63-f25-f25x



Full bore ball valve with butterfly handle, M/M

Size	Max. Oper. Pressure, bar	Per box	Per package	Code
1/2"	40	160	20	FWB67-m15-m15s
3/4"	40	96	12	FWB67-m20-m20x
1"	25	72	12	FWB67-m25-m25x



Full bore ball valve with a union, butterfly handle, M/F

Size	Max. Oper. Pressure, bar	Per box	Per package	Code
1/2"	40	120	15	FWB65-m15-f15s
3/4"	40	80	10	FWB65-m20-f20x
1"	25	36	6	FWB65-m25-f25x
1.1/4"	25	30	5	FWB65-m32-f32x



Full bore ball valve with a union, butterfly handle (white), M/F

Size	Max. Oper. Pressure, bar	Per box	Per package	Code
1/2"	40	12	15	FWB65-m15-f15sw
3/4"	40	80	10	FWB65-M20-F20xw



Full bore angle ball valve with a union, butterfly handle, M/F

Size	Max. Oper. Pressure, bar	Per box	Per package	Code
1/2"	40	90	15	EWB69-m15-f15s
3/4"	40	60	10	EWB69-m20-f20x
1"	25	32	4	EWB69-m25-f25x



Full bore ball valve with lever handle, F/F

Size	Max. Oper. Pressure, bar	Per box	Per package	Code
1/2"	40	150	25	FWL51-f15-f15s
3/4"	40	90	15	FWL51-f20-f20x
1"	25	60	10	FWL51-f25-f25x
1.1/4"	25	24	6	FWL51-f32-f32x
1.1/2"	25	36	4	FWL51-f40-f40x
2"	25	12	2	FWL51-f50-f50x



Full bore ball valve with lever handle, M/F

Size	Max. Oper. Pressure, bar	Per box	Per package	Code
1/2"	40	120	20	FWL53-m15-f15s
3/4"	40	90	15	FWL53-m20-f20x
1"	25	60	10	FWL53-m25-f25x
1.1/4"	25	30	5	FWL53-m32-f32x
1.1/2"	25	24	4	FWL53-m40-f40x
2"	25	12	2	FWL53-m50-f50x



Angle valve with a hose nozzle, lever handle, M

Size	Max. Oper. Pressure, bar	Per box	Per package	Code
1/2"	40	90	15	EWL55-m15x
3/4"	40	60	10	EWL55-m20x



Full bore ball valve for connecting a temperature sensor, lever handle, F

Size	Max. Oper. Pressure, bar	Per box	Per package	Code
1/2"	40	72	12	FWL61-f15-f15s
3/4"	40	60	10	FWL61-F20-F20X



Full bore ball valve for connecting a temperature sensor, butterfly handle, F/F

Size	Max. Oper. Pressure, bar	Per box	Per package	Code
1/2"	40	72	12	FWB73-f15-f15s



Full bore 3-way ball valve with lever handle

Size	Max. Oper. Pressure, bar	Per box	Per package	Code
1/2" type L	40	60	10	FWL55-f15-f15-f15x
1/2" type T	40	60	10	FWL57-f15-f15-f15x
3/4" type L	25	60	10	FWL55-f20-f20-f20x
3/4" type T	25	60	10	FWL57-f20-f20-f20x



Full bore ball valve with drain and air vent, lever handle, F/F

Size	Max. Oper. Pressure, bar	Per box	Per package	Code
1/2"	40	60	12	FWL59-f15-f15s
3/4"	40	60	10	FWL59-f20-f20x



Drain ball valve with a hose nozzle, lever handle, M

Size	Max. Oper. Pressure, bar	Per box	Per package	Code
1/2"	40	60	10	EWL57-m15s



Ball valve for connecting a pressure gauge, butterfly handle, F/F

Size	Per box	Per package	Code
1/2"	96	12	FWB71-F15-F15X



Valve for mixer connection, M/M

Size	Per box	Per package	Code
1/2"	100	1	ASV-m15-m15



Angle valve, M/M

Size	Per box	Per package	Code
1/2" x 1/2"	100	1	ESV-m15-m15
1/2" x 3/4"	100	1	ESV-m15-m20



Mini ball valve, F/M

Size	Per box	Per package	Code
1/2"	160	20	MBV-m15-f15



Ball valve with coupling nut, butterfly handle, F/F

Size	Per box	Per package	Code
1/2"	120	15	FWB69-F15-F15S
3/4"	80	10	FWB69-F20-F20X



Angle valve for connecting sanitary equipment

Size	Per box	Per package	Code
1/2"	100	1	VSV-m15-m15



3-way valve for connecting sanitary equipment

Size	Per box	Per package	Code
1/2 x 3/4 x 1/2"	100	1	TSV-f15-m20-m15

VALVES



Shut-off valve for air vent

Size	Per box	Per package	Code
3/8"	650	20	CVA-m10
1/2"	500	50	CVA-m15



Automatic air vent

Size	Per box	Per package	Code
1/2"	48	1	AIR - m15
3/8"	48	1	AIR - m10



Safety valve, F/M

Size	Per box	Per package	Code
1/2" - 1,5 bar	500	1	SAV-m15(1.5)
1/2" - 3 bar	650	1	SAV-m15(3)



Pressure reducer

Size	Per box	Per package	Code
1/2" (0,5-4 Bar)	60	10	PRV-f15
3/4" (0,5-4 Bar)	60	10	PRV-f20
1" (1-6 Bar)	60	10	PRV-F25



Safety group

Size	Per box	Per package	Code
1" x 1/2"	20	1	sg-f06-f04



Combination manual valve with temperature sensor connection, F

Size	Per box	Per package	Code
1/2"	96	16	LVT-f15-f15x



Manual air-purge valve

Size	Per box	Per package	Code
1/2"	2000	10	AIRM-M15



Strainer

Size	Max. oper. t °C	Max. Oper. Pressure, bar	Mesh cell size, microns	Per box	Per package	Code
1/2"	150	20	500	160	20	STY-f15-f15x
3/4"	150	20	500	120	20	STY-f20-f20x
1"	150	20	500	60	10	STY-f25-f25x
1.1/4"	150	20	500	40	5	STY-f32-f32x
1.1/2"	150	20	500	32	4	STY-f40-f40x
2"	150	20	500	12	1	STY-f50-f50x



Spring-loaded check valve with plastic disk

Size	Max. oper. t °C	Max. Oper. Pressure, bar	Per box	Per package	Code
1/2"	100	40	280	35	CVL-f15-f15x
3/4"	100	40	176	22	CVL-f20-f20x
1"	100	25	120	20	CVL-f25-f25x
1.1/4"	100	25	72	12	CVL-f32-f32x
1.1/2"	100	25	36	6	CVL-f40-f40x
2"	100	25	24	4	CVL-f50-f50x



Check valve with brass disk

Size	Max. oper. t °C	Max. Oper. Pressure, bar	Per box	Per package	Code
1/2"	150	40	240	30	CVH-f15-f15x
3/4"	150	40	176	22	CVH-f20-f20x
1"	150	25	90	15	CVH-f25-f25x
1.1/4"	150	25	72	12	CVH-f32-f32x
1.1/2"	150	25	36	6	CVH-f40-f40x



Submersible check valve with plastic disk

Size	Max. oper. t °C	Max. Oper. Pressure, bar	Per box	Per package	Code
1/2"	100	40	1	1	CVL-f15-f15n
3/4"	100	40	1	1	CVL-f20-f20n
1"	100	25	1	1	CVL-f25-f25n
1.1/4"	100	25	1	1	CVL-f32-f32n
1.1/2"	100	25	1	1	CVL-f40-f40n
2"	100	25	1	1	CVL-f50-f50n

UNIPAK PLUMBING SEALS



UNIPAK flax

Weight	Per box	Per package	Code
100 g	100	1	U11421



UNIPAK paste (water, steam)

Weight	Per box	Per package	Code
65 g (tube)	24	24	U10121



UNIPAK paste (water, steam)

Weight	Per box	Per package	Code
360 g (can)	12	12	U10123



MULTIPAK paste (gas)

Weight	Per box	Per package	Code
55 g (tube)	24	24	U10224



FUM tape

	Code
UNITAPE (for pipes up to 25 mm) 12 mm x 0.075 mm x 12 m	U11521
MAXITAPE (for pipes from 25 to 40 mm) 12mm x 0.1mm x 12m	U11525
JUMBOTAPE (for pipes from 40 to 65 mm) 19 mm x 0.2 mm x 15 m	U11524



MULTITEC gas leak detector

Weight	Per box	Per package	Code
400 ml	12	1	U11021



UNIFLON teflon thread

Size	Per box	Per package	Code
175 m	12	12	U11526



Threaded brass fittings



Brass threaded fittings are used to create threaded joints on the pipelines intended for cold and hot water supply, for heating, as well as on process pipelines that transport substances, being non-aggressive to the material of the connectors.

Fittings can be used on pipelines made of any material. Fittings are made based on a cylindrical pipe thread as per EN 10226 (GOST 6357). Besides, male cylindrical pipe thread as per GOST 6357 can be used together with female conical pipe thread as per GOST 6211 (ISO R7). Fittings are made of CW617N brass.

Female thread coupling





Brass coupling

Size	Per box	Per package	Code
1/2" x 1/2"	300	30	01-f15-f15x
3/4" x 3/4"	200	20	01-f20-f20x
1" x 1"	100	10	01-f25-f25x
1.1/4" x 1.1/4"	55	5	01-f32-f32x
1.1/2" x 1.1/2"	40	4	01-f40-f40x
2" x 2"	24	2	01-f50-f50x

Brass adapter coupling

Size	Per box	Per package	Code
1/2 x 3/8	360	30	01-f15-f10x
3/4 x 1/4	300	20	01-f20-f6x
3/4" x 1/2"	200	20	01-f20-f15x
1" x 1/2"	140	20	01-f25-f15x
1" x 3/4"	120	20	01-f25-f20x
1.1/4" x 1/2"	80	10	01-f32-f15x
1.1/2" x 1"	90	5	01-f40-f25x
1.1/4" x 3/4"	80	10	01-f32-f20x
1.1/4" x 1"	70	10	01-f32-f25x
1.1/2" x 1"	90	5	01-f40-f25x
1.1/2" x 1.1/4"	50	5	01-f40-f32x
2" x 1"	48	4	01-f50-f25x
2" x 1.1/4"	48	4	01-f50-f32x
2" x 1.1/2"	46	2	01-f50-f40x

Plug, M

Size	Per box	Per package	Code
1/4"	1400	50	09-m6x
3/8"	1200	50	09-m10x
1/2"	700	50	09-m15x
3/4"	420	30	09-m20x
1"	220	20	09-m25x
1.1/4"	110	10	09-m32x
1.1/2"	90	10	09-m40x
2"	50	5	09-m50x

Plug, F

Size	Per box	Per package	Code
1/2"	750	50	09-f15x
3/4"	420	30	09-f20x
1"	240	20	09-f25x
1.1/4"	120	10	09-f32x
1.1/2"	100	10	09-f40x
2"	55	5	09-f50x

Nipple

Size	Per box	Per package	Code
3/8" x 3/8"	900	50	06-m10-m10x
1/2" x 1/2"	450	50	06-m15-m15x
3/4" x 3/4"	300	30	06-m20-m20x
1" x 1"	140	20	06-m25-m25x
1.1/4" x 1.1/4"	80	5	06-m32-m32x
1.1/2" x 1.1/2"	50	5	06-m40-m40x
2" x 2"	30	3	06-m50-m50x



Adapter nipple

Size	Per box	Per package	Code
8" x 1/4"	1000	50	06-m10-m6x
1/2" x 1/4"	550	50	06-m15-m6x
1/2" x 3/8"	500	50	06-m15-m10x
1/2" x 3/4"	330	30	06-m20-m15x
1/2" x 1"	180	20	06-m25-m15x
1" x 3/4"	160	20	06-m25-m20x
1.1/4" x 1/2"	120	20	06-m32-m15x
1.1/2" x 3/4"	100	10	06-m40-m20x
1.1/4" x 1"	90	10	06-m32-m25x
1.1/2" x 1/2"	90	10	06-m40-m15x
1.1/2" x 3/4"	70	10	06-m40-m20x
1.1/2" x 1"	65	5	06-m40-m25x
1.1/2" x 1.1/4"	60	5	06-m40-m32x
2" x 1 1/2"	45	5	06-m50-m10x
2" x 1"	45	5	06-m50-m25x
2" x 1.1/4"	45	5	06-m50-m32x

Adapter, M/F

Size	Per box	Per package	Code
1/4" x 1/2"	510	30	08-m6-f15x
3/8" x 1/2"	480	30	08-m10-f15x
3/4" x 1 1/4"	80	10	08-m20-f32x
1/2" x 3/4"	240	30	08-m15-f20x
1/2" x 1"	180	20	08-m15-f25x
1/2" x 1 1/4"	90	10	08-m15-f32x
3/4" x 1"	180	10	08-m20-f25x
1" x 1.1/4"	90	10	08-m25-32fx
1" x 1.1/2"	90	5	08-m25-f40x
1" x 2"	60	4	08-m25-f50x
1.1/4" x 1.1/2"	90	5	08-m32-f40x
1.1/4" x 2"	60	4	08-m32-f50x
1.1/2" x 2"	44	4	08-m40-f50x

Eurocone adapter nipple

Size	Per box	Per package	Code
1/2" x 3/4"E	360	30	21-m15-m20ex

Chrome-plated extension M/F

Size	Per box	Per package	Code
1/2" x 10	520	10	07-m15-f10cr
1/2" x 15	420	60	07-m15-f15cr
1/2" x 20	400	10	07-m15-f20cr
1/2" x 25	290	10	07-m15-f25cr
1/2" x 30	280	10	07-m15-f30cr
1/2" x 40	240	10	07-m15-f40cr
1/2" x 50	140	10	07-m15-f50cr
1/2" x 60	110	10	07-m15-f60cr
1/2" x 70	95	10	07-m15-f70cr
1/2" x 80	85	10	07-m15-f80cr
1/2" x 100	75	10	07-m15-f100cr
3/4" x 15	280	10	07-m20-f015cr
3/4" x 20	220	10	07-m20-f020cr
3/4" x 25	200	10	07-m20-f025cr
3/4" x 30	180	10	07-m20-f030cr
3/4" x 40	100	10	07-m20-f040cr



Extension, M/F

Size	Per box	Per package	Code
1/2" x 10	460	10	07-m15-f10x
1/2" x 15	400	10	07-m15-f15x
1/2" x 20	350	10	07-m15-f20x
1/2" x 25	280	10	07-m15-f25x
1/2" x 30	240	10	07-m15-f30x
1/2" x 40	210	10	07-m15-f40x
1/2" x 50	170	10	07-m15-f50x



Elbow, M

Size	Per box	Per package	Code
1/2" x 1/2"	200	10	02-m15-m15x
3/4" x 3/4"	120	10	02-m20-m20x
1" x 1"	65	5	02-m25-m25x



Elbow, F

Size	Per box	Per package	Code
1/2" x 1/2"	200	10	02-f15-f15x
3/4" x 3/4"	120	10	02-f20-f20x
1" x 1"	60	5	02-f25-f25x
1 1/4" x 1 1/4"	35	5	02-f32-f32x
1 1/2" x 1 1/2"	28	2	02-f40-f40x
2" x 2"	16	2	02-f50-f50x



Elbow, F/F

Size	Per box	Per package	Code
1/2" x 1/2"	180	10	02-m15-f15x
3/4" x 3/4"	110	10	02-m20-f20x
1" x 1"	60	5	02-m25-f25x
1 1/4" x 1 1/4"	35	5	02-m32-f32x
1 1/2" x 1 1/2"	24	2	02-m40-f40x
2" x 2"	12	2	02-m50-f50x



Elbow with attachment, F

Size	Per box	Per package	Code
1/2"	130	10	02-f15-f15wx



Tee, F

Size	Per box	Per package	Code
1/2"	130	10	03-f15-f15-f15x
3/4"	90	10	03-f20-f20-f20x
1"	45	5	03-f25-f25-f25x
1 1/4"	27	3	03-f32-f32-f32x
1 1/2"	20	2	03-f40-f40-f40x
2"	12	2	03-f50-f50-f50x



Transition tee

Size	Per box	Per package	Code
1/2" x 3/4" x 1/2"	100	10	03-f15-f20-f15x
3/4" x 1/2" x 3/4"	90	10	03-f20-f15-f20x
1" x 1/2" x 1"	60	5	03-f25-f15-f25x
1" x 3/4" x 1"	55	5	03-f25-f20-f25x
1 1/4" x 1/2" x 1 1/4"	36	3	03-f32-f15-f32x
1 1/4" x 3/4" x 1 1/4"	33	3	03-f32-f20-f32x
1 1/4" x 1" x 1 1/4"	30	3	03-f32-f25-f32x



Tee, M

Size	Per box	Per package	Code
1/2"	160	10	03-m15-m15-m15x
3/4"	90	10	03-m20-m20-m20x
1"	50	5	03-m25-m25-m25x



Manifold tee M/F/F

Size	Per box	Per package	Code
3/4" x 1/2" x 3/8"	160	10	17-m20-f15-f10x
1" x 1/2" x 3/8"	120	10	17-m25-f15-f10x



Separable joint, straight, F

Size	Per box	Per package	Code
1/2" x 1/2"	140	10	20-f15-f15x
3/4" x 3/4"	80	10	20-f20-f20x
1" x 1"	50	5	20-f25-f25x
1 1/4" x 1 1/4"	33	3	20-f32-f32x



Separable chrome plated joint, straight, F

Size	Per box	Per package	Code
1" x 1"	50	5	20-f25-f15cr



Separable joint, straight, M/F

Size	Per box	Per package	Code
1/2"	180	10	10-m15-f15x
3/4"	100	10	10-m20-f20x
1"	55	5	10-m25-f25x
1.1/4"	33	3	10-m32-f32x
1.1/2"	20	2	10-m40-f40x
2"	12	2	10-m50-f50x



Separable joint, straight, M

Size	Per box	Per package	Code
1/2" x 1/2"	180	10	10-m15-m15x
3/4" x 3/4"	100	10	10-m20-m20x



Separable joint, angle, M/F

Size	Per box	Per package	Code
1/2"	120	10	11-m15-f15x
3/4"	60	10	11-m20-f20x
1"	35	5	11-m25-f25x
1.1/4"	24	2	11-m32-f32x
1.1/2"	14	2	11-m40-f40x
2"	8	2	11-m50-f50x



Cross-piece

Size	Per box	Per package	Code
1/2"	100	10	13-f15x
3/4"	60	10	13-f20x
1"	35	5	13-f25x



Lock nut

Size	Per box	Per package	Code
1/2"	1250	50	15-f15x
3/4"	850	50	15-f20x
1"	600	30	15-f25x
1.1/4"	300	30	15-f32x
1.1/2"	200	20	15-f40x
2"	100	20	15-f50x



Eccentric, M

Size	Per box	Per package	Code
3/4" x 1/2"	70	10	19-m15-m20x



Threaded sleeve

Size	Per box	Per package	Code
1/2" x 1/4"	850	50	05-m15-f7x
1/2" x 3/8"	700	50	05-m15-f10x
3/4" x 1/2"	450	30	05-m20-f15x
1" x 1/2"	220	20	05-m25-f15x
1" x 3/4"	220	20	05-m25-f20x
1.1/4" x 1/2"	110	10	05-m32-f15x
1.1/4" x 3/4"	110	10	05-m32-f20x
1.1/4" x 1"	110	10	05-m32-f25x
1.1/2" x 1"	90	5	05-m40-f25x
1.1/2" x 1/2"	80	5	05-m40-f15x
1.1/2" x 3/4"	80	5	05-m40-f20x
1.1/2" x 1.1/4"	90	5	05-m40-f32x
2" x 1"	50	5	05-m50-f25x
2" x 1.1/4"	55	5	05-m50-f32x
2" x 1.1/2"	50	5	05-m50-f40x



Nozzle for hose, M

Size	Per box	Per package	Code
1/2" x 10	510	30	16-m15-10x
1/2" x 12	480	30	16-m15-12x
1/2" x 14	420	30	16-m15-14x
1/2" x 16	420	30	16-m15-16x
1/2" x 18	420	30	16-m15-18x
1/2" x 20	360	30	16-m15-20x
3/4" x 20	240	20	16-m20-20x



Hose nozzle, F

Size	Per box	Per package	Code
1/2" x 20	330	30	16-f15-20x
3/4" x 20	240	20	16-f20-20x



Nozzle with coupling nut and seal eyelet

Size	Per box	Per package	Code
1/2" x 3/4"	180	10	18-m15x
3/4" x 1"	100	10	18-m20x



Adapter for connecting a temperature sensor

Size	Per box	Per package	Code
M10 x 1/2"	600	50	22-m15x
M10 x 3/4"	450	30	22-m20x



Compression fittings

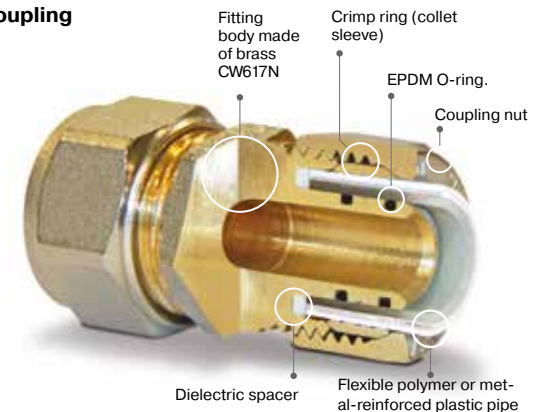


It is easy and convenient to install flexible polymer and metal-plastic pipes using compression fittings. There is no need to purchase expensive electric tools, you can quickly install small sections of heating or water supply systems. In addition, the installation of such systems does not require considerable work experience and specific knowledge. All that you may need for installation is a set of wrenches, a pipe cutter and a beveller.

TECHNICAL CHARACTERISTICS:

- Fitting body made of nickel-plated brass CW617N, as per UNI EN 12165;
- Crimp nut made of nickel-plated brass CW508L as per UNI4892;
- Teflon dielectric ring to prevent the aluminum layer from contacting the fitting body;
- EPDM O-rings;
- Maximum operating temperature up to 90°C;
- Maximum operating pressure up to 10 bar.

Coupling





Coupling

Size	Per box	Per package	Code
16 x 16	200	10	k01-16-16
20 x 20	120	10	k01-20-20



Elbow

Size	Per box	Per package	Code
16 x 16	200	10	k02-16-16
20 x 20	120	10	k02-20-20



Coupling, M

Size	Per box	Per package	Code
16 x 1/2"	250	10	k01-16-m15
16 x 3/4"	250	10	k01-16-m20
20 x 1/2"	200	10	k01-20-m15
20 x 3/4"	180	10	k01-20-m20



Elbow, M

Size	Per box	Per package	Code
16 x 1/2"	250	10	k02-16-m15
20 x 1/2"	150	10	k02-20-m15



Coupling, F

Size	Per box	Per package	Code
16 x 1/2"	250	10	k01-16-f15
16 x 3/4"	200	10	k01-16-f20
20 x 1/2"	200	10	k01-20-f15
20 x 3/4"	160	10	k01-20-f20



Elbow, F

Size	Per box	Per package	Code
16 x 1/2"	200	10	k02-16-f15
16 x 3/4"	150	10	k02-16-f20
20 x 1/2"	150	10	k02-20-f15
20 x 3/4"	120	10	k02-20-f20



Adapter coupling

Size	Per box	Per package	Code
20 x 16	150	10	k01-20-16



Elbow with attachment, F

Size	Per box	Per package	Code
16 x 1/2"	150	10	k22-16-f15
20 x 1/2"	90	5	k22-20-f15



Tee

Size	Per box	Per package	Code
16 x 16 x 16	130	110	k03-16-16-16
20 x 20 x 20	70	5	k03-20-20-20



Transition tee

Size	Per box	Per package	Code
16 x 20 x 16	80	1	k23-16-20-16
16 x 20 x 20	80	5	k23-16-20-20
20 x 16 x 16	80	5	k23-20-16-16
20 x 16 x 20	80	5	k23-20-16-20
20 x 26 x 20	50	1	k23-20-26-20
20 x 26 x 26	50	1	k23-20-26-26



Tee, M

Size	Per box	Per package	Code
16 x 1/2" x 16	130	10	k03-16-m15-16



Tee, F

Size	Per box	Per package	Code
16 x 1/2 x 16	130	10	k03-16-f15-16



Eurocone

Size	Per box	Per package	Code
Adapter for plane joint mod. 835			
16 x 1/2"	440	10	k04-16-15
Eurocone mod. 836			
16 x 3/4"	200	1	k05-16-20
20 x 3/4"	200	10	k05-20-20

Flexible joints

They are used for connecting sanitary equipment: connection of washbasins, mixer taps, bidets, toilets, washing machines, boilers and dishwashers.

TECHNICAL CHARACTERISTICS:

- Internal tube and gasket made of non-toxic EPDM rubber.
- Stainless steel braid and cage.
- Flexible connections for mixers are supplied in pairs (2 pcs. in 1 set).



Flexible connections, F/F, thread 1/2"

Size	Code
30	1230FF
40	1240FF
50	1250FF
60	1260FF
80	1280FF
100	12100FF
120	12120FF
150	12150FF
200	12200FF

Operating pressure: 20 atm
Operating temperature: up to 95 °C



Flexible connections, M/F, thread 1/2 inch

Size	Code
30	1230FM
40	1240FM
50	1250FM
60	1260FM
80	1280FM
100	12100FM
150	12150FM
200	12200FM

Operating pressure: 20 atm
Operating temperature: up to 95 °C



Flexible connections for mixers F/M, thread 1/2"

Size	Code
50	M10500
60	M10600
80	M10800
100	M101000

Operating pressure: 20 atm
Operating temperature: up to 95 °C



Cast iron fittings



PRO AQUA BRENNEN ductile iron fittings meet the requirements of the applicable ISO 49 and EN 10242 standards. Main threaded fittings are connecting threaded elements of joints as per ISO 7-1. The internal threads of PRO AQUA BRENNEN cast iron fittings are cylindrical, the external threads are tapered with 1:16 tapering. Threaded connections with cylindrical male threads are used for sealing using a gasket or lock nut. In accordance with EN10242, the weight of the zinc coating is at least 500 g/m², which corresponds to an average layer thickness of 70 µm. Each fitting is subjected to hydraulic testing as per EN 10242.

TECHNICAL CHARACTERISTICS:

- Material composition: ductile iron as per ISO 49 and EN10242
- Coating: deep hot galvanized with corrosion protection
- Scope of application: gas and water supply and heating systems
- Operating temperature: up to 300 °C
- Operating pressure: up to 25 bar
- Diameter: 1/2" - 4"



Nipple

Size D	Per box	Per package	Code
1/2"	250	10	G28015
3/4"	160	10	G28020
1"	120	10	G28025
1.1/4"	100	50	G28032
1.1/2"	80	40	G28040
2"	50	1	G28050



Adapter nipple

Size D	Per box	Per package	Code
3/4"-1/2"	160	10	G24520x15
1" x 3/4"	140	10	G24525x20
1.1/4" x 3/4"	100	50	G24532x20
1.1/4" x 1"	70	70	G24532x25
1.1/2" x 3/4"	90	45	G24540x20
1.1/2" x 1"	90	40	G24540x25
1.1/2" x 1.1/4"	80	40	G24540x32
2" x 1.1/2"	50	25	G24550x40



Coupling, right-left

Size D	Per box	Per package	Code
3/4"	130	1	G27120
1"	120	10	G27125



Coupling

Size D	Per box	Per package	Code
1/2"	200	10	G27015
3/4"	130	10	G27020
1"	120	10	G27025
1.1/4"	100	50	G27032
1.1/2"	70	35	G27040
2"	36	18	G27050
2 1/2"	20	1	G27065
3"	14	1	G27080



Adapter coupling

Size D	Per box	Per package	Code
3/4" x 1/2"	120	10	G24020x15
1" x 1/2"	140	10	G24025x15
1" x 3/4"	140	10	G24025x20
1.1/4" x 3/4"	120	60	G24032x20
1.1/4" x 1"	100	50	G24032x25
1.1/2" x 1/2"	100	50	G24040x15
1.1/2" x 1"	90	45	G24040x25
1.1/2" x 1.1/4"	70	35	G24040x32
2" x 1"	50	25	G24050x25
2" x 1.1/4"	40	20	G24050x32
2" x 1.1/2"	40	1	G24050x40



90° elbow

Size	Per box	Per package	Code
1/2"	170	10	G9015
3/4"	90	10	G9020
1"	100	10	G9025
1.1/4"	70	35	G9032
1.1/2"	50	50	G9040
2"	25	25	G9050



45° elbow

Size D	Per box	Per package	Code
1/2"	160	1	G12015
3/4"	100	1	G12020
1"	100	1	G12025



90° elbow, F-M

Size D	Per box	Per package	Code
1/2"	160	10	G9215
3/4"	100	10	G9220
1"	80	10	G9225
1.1/4"	5	25	G9232
1.1/2"	40	10	G9240
2"	20	1	G9250



45° elbow, F-M

Size D	Per box	Per package	Code
1/2"	160	1	G12115
3/4"	100	1	G12120



Half normal bend, F-M

Size D	Per box	Per package	Code
1/2"	-	-	G1A15
3/4"	-	-	G1A20
1"	-	-	G1A25

Reducing elbow



Size D	Per box	Per package	Code
3/4" x 1/2"	120	10	G90R20X15
1" x 1/2"	120	10	G90R25X15
1" x 3/4"	120	1	G90R25X20
1.1/4" x 1/2"	90	1	G90R32X15
1.1/4" x 3/4"	90	1	G90R32X20
1.1/4" x 1"	70	35	G90R32X25
2" x 1.1/4"	30	15	G90R50X32
2" x 1.1/2"	30	1	G90R50X40
2" x 1"	40	1	G90R50X25



Bypass

Size D	Per box	Per package	Code
1/2"	80	-	G8515
3/4"	40	-	G8520

Bend



Size D	Per box	Per package	Code
1/2"	80	1	G215
3/4"	60	10	G220
1"	50	10	G225
1.1/4"	24	1	G232
1.1/2"	20	1	G240

Bend, F-M



Size D	Per box	Per package	Code
1/2"	100	-	G115art1
3/4"	60	-	G120
2"	-	-	G150



Reducing tee

Size D	Per box	Per package	Code
3/4" x 1/2" x 1/2"	70	10	G130R20x15x15
3/4" x 1/2" x 3/4"	70	10	G130R20x15
1" x 1/2" x 1"	60	1	G130R25x15
1" x 3/4" x 1/2"	80	1	G130R25x20x15
1" x 3/4" x 1"	60	10	G130R25x20
1.1/4" x 1/2" x 1.1/4"	60	30	G130R32x15
1.1/4" x 3/4" x 1.1/4"	50	25	G130R32x20
1.1/4" x 1.1/2" x 1.1/4"	30	1	G130R32x40x32
1.1/4" x 1" x 1.1/4"	50	25	G130R32x25
1.1/2" x 1/2" x 1.1/2"	40	20	G130R40x15
1.1/2" x 3/4" x 1.1/2"	40	20	G130R40x20
1.1/2" x 1" x 1.1/2"	40	20	G130R40x25
1.1/2" x 1.1/4" x 1.1/2"	30	15	G130R40x32
2" x 1/2" x 2"	30	30	G130R50x15
2" x 3/4" x 2"	30	12	G130R50x20
2" x 1" x 2"	24	12	G130R50x25
2" x 1.1/4" x 2"	24	1	G130R50x32
2" x 1.1/2" x 2"	24	1	G130R50x40

Half normal bend



Size D	Per box	Per package	Code
3/4"	-	-	G2A20



Tee

Size D	Per box	Per package	Code
1/2"	100	10	G13015
3/4"	60	10	G13020
1"	60	10	G13025
1.1/4"	36	18	G13032
1.1/2"	24	12	G13040
2"	1	1	G13050



Cross-piece

Size D	Per box	Per package	Code
1/2"	70	10	G18015
3/4"	50	10	G18020
1"	60	1	G18025



Separable joint, conical, F-F

Size D	Per box	Per package	Code
3/4"	60	10	G34020
1"	60	10	G34025
1.1/4"	40	20	G34032
1.1/2"	30	15	G34040
2"	20	10	G34050



Separable joint, straight, F-F (without gasket)

Size D	Per box	Per package	Code
1/2"	60	10	G33015
3/4"	40	10	G33020
1"	50	10	G33025
1.1/4"	30	15	G33032
1.1/2"	40	12	G33040
2"	50	7	G33050
2.1/2"	10	10	G33065



Separable joint, conical, F-M

Size D	Per box	Per package	Code
1/2"	60	10	G34115
3/4"	40	10	G34120
1"	50	10	G34125
1.1/4"	30	12	G34132
1.1/2"	24		G34140
2"	14		G34150



Separable joint (without gasket), straight, M-F

Size D	Per box	Per package	Code
1/2"	60	10	G33115
3/4"	40	10	G33120
1"	60	10	G33125
1.1/4"	30	15	G33132
1.1/2"	24	12	G33140
2"	14	7	G33150



Gasket for separable joint

Size D	Per box	Per package	Code
1/2"	1	1	BRGASK15
3/4"	1	1	BRGASK20
1"	1	1	BRGASK25
1.1/4"	1	1	BRGASK32
1.1/2"	1	1	BRGASK40
2"	1	1	BRGASK50
2.1/2"	1	1	BRGASK65



Threaded sleeve

Size D	Per box	Per package	Code
3/4" x 1/2"	250	10	G24120x15
1" x 1/2"	180	10	G24125x15
1" x 3/4"	180	10	G24125x20
1.1/4" x 1/2"	120	60	G24132x15
1.1/4" x 3/4"	140	70	G24132x20
1.1/4" x 1"	180	90	G24132x25
1.1/2" x 1/2"	90	90	G24140x15
1.1/2" x 3/4"	100	45	G24140x20
1.1/2" x 1"	110	50	G24140x25
1.1/2" x 1.1/4"	150	55	G24140x32
2" x 1/2"	60	75	G241D50x15
2" x 3/4"	60	28	G241D50x20
2" x 1"	56	30	G234150x25
2" x 1.1/4"	60	1	G24150x32
2" x 1.1/2"	60	30	G24150x40



Lock nut

Size D	Per box	Per package	Code
1/2"	400	1	G31015
3/4"	300	1	G31020
1"	280	10	G31025
1.1/4"	200	200	G31032
1.1/2"	180	1	G31040
2"	100	100	G31050



Plug, M

Size D	Per box	Per package	Code
1/2"	400	10	G29015
3/4"	250	25	G29020
1"	200	10	G29025
1.1/4"	140	70	G29032
1.1/2"	100	50	G29040
2"	66	33	G29050



Plug, F

Size D	Per box	Per package	Code
1/2"	300	10	G30015
3/4"	250	25	G30020
1"	150	15	G30025
1.1/4"	150	75	G30032
1.1/2"	130	1	G30040
2"	70	35	G30050



Heatsink valves



PRO AQUA shut-off control valves are perfectly suited for heatsinks made of any metal. It can be used to ensure reliable sealed joints that will have a long service life. PRO AQUA valves are manufactured using high quality sanitary brass and are nickel plated to protect the body from electrochemical corrosion. A pipe notch prevents the liner threads from slipping when installing the valve.

TECHNICAL CHARACTERISTICS:

- Operating pressure: 10 bar
- Maximum temperature of use: 110 °C
- Mean service life: 25 years;
- Body material: nickel plated brass.





Manual control straight valve

Size	Per box	Per package	Code
1/2"	108	18	MVS-m15-f15x
3/4"	84	14	MVS-m20-f20x



Manual control angle valve

Size	Per box	Per package	Code
1/2"	108	18	MVA-m15-f15x
3/4"	84	14	MVA-m20-f20x



Straight shut-off control valve

Size	Per box	Per package	Code
1/2"	144	24	LVS-m15-f15x
3/4"	102	17	LVS-m20-f20x



Angle shut-off control valve

Size	Per box	Per package	Code
1/2"	162	27	LVA-m15-f15x
3/4"	84	14	LVA-m20-f20x



Straight thermostatic valve

Size	Connection to thermostatic head	Per box	Per package	Code
1/2"	M30x1,5	96	16	INS103ST12x
3/4"	M30x1,5	72	12	INS104ST34x



Angle thermostatic valve

Size	Connection to thermostatic head	Per box	Per package	Code
1/2"	M30x1,5	108	18	INS101AT12x
3/4"	M30x1,5	72	12	INS102AT34x



Bottom connection unit for 2-pipe systems, straight (with nipple)

Size	Per box	Per package	Code
1/2" x 3/4"	90	15	INS202HVSx



Bottom connection unit for 2-pipe systems, angle (with nipple)

Size	Per box	Per package	Code
1/2" x 3/4"	72	12	INS201HVAx



Liquid thermostatic head 6-28 °C

Size	Per box	Per package	Code
M30 x 1,5	100	1	INS1000TH



Liquid thermostatic head with remote sensor

Size	Per box	Per package	Code
M30 x 1,5	50	1	INS3000THS



Nipple for bottom connection units (2 pcs. supplied)

Size	Per box	Per package	Code
1/2" x 3/4"	500	2	INS1234AD



Compression fittings for HDPE pipes



UNI9 is an perfect solution for cold water supply in cottage and dacha settlements, as well as a reliable system for irrigation and watering.

The company's product portfolio includes more than 300 SKU: couplings, tees, elbows, bends, plugs, ball valves of 20- 110 diameter and seats of 20- 160 diameter.

MAIN ADVANTAGES:

- Easy installation, which does not require any special skills and tools + Reusability + Resistance to corrosion and environmental exposure + Can be applied for all types of irrigation: rain, drip and combined + Sustainability, fittings do not emit harmful substances into the transported water, so they are suitable for drinking water supply.
- Frost resistance, withstanding freezing without any effects.

TECHNICAL CHARACTERISTICS:

- Material: body and coupling of the compression fitting made of PP copolymer, O-ring made of NBR rubber, clamping bushing made of white polyacetal resin
- Pressure: PN 16
- Scope of application: drinking water transportation, agriculture, greeneries, greenhouses.

Certification: ISO 9001 - Ed.2000, UNI 9596, UNI 9562, KIWA BRL-K534/01, AS/N25 4129, GOST 32415-2013.



Coupling, M

Standard size	Per box	Per package	Code
20 x 1/2"	600	50	71020000000M012
20 x 3/4"	600	25	71020000000M034
20 x 1"	600	40	71020000000M100
25 x 1/2"	360	30	71025000000M012
25 x 3/4"	360	30	71025000000M034
25 x 1"	330	30	71025000000M100
32 x 1/2"	240	15	71032000000M012
32 x 3/4"	240	15	71032000000M034
32 x 1"	210	15	71032000000M100
32 x 1.1/4"	210	15	71032000000M114
40 x 1"	130	10	71040000000M100
40 x 1.1/4"	130	10	71040000000M114
40 x 1.1/2"	130	10	71040000000M112
40 x 2"	112	8	71040000000M200
50 x 1"	80	1	71050000000M100
50 x 1.1/4"	80	1	71050000000M114
50 x 1.1/2"	80	1	71050000000M112
50 x 2"	80	1	71050000000M200
63 x 1.1/4"	48	1	71063000000M114
63 x 1.1/2"	48	1	71063000000M112
63 x 2"	46	1	71063000000M200
63 x 2.1/2"	40	1	71063000000M212
75 x 2"	27	1	71075000000M200
75 x 2.1/2"	27	1	71075000000M212
75 x 3"	24	1	71075000000M300
90 x 3"	14	1	71090000000M300
110 x 3"	10	1	71110000000M300
110 x 4"	10	1	71110000000M400



Coupling, F

Standard size	Per box	Per package	Code
20 x 1/2"	600	50	72020000000F012
20 x 3/4"	560	20	72020000000F034
20 x 1"	360	30	72020000000F100
25 x 1/2"	360	30	72025000000F012
25 x 3/4"	360	30	72025000000F034
25 x 1"	325	25	72025000000F100
32 x 1/2"	240	15	72032000000F012
32 x 3/4"	210	15	72032000000F034
32 x 1"	210	15	72032000000F100
32 x 1.1/4"	210	15	72032000000F114
40 x 1"	140	10	72040000000F100
40 x 1.1/4"	130	10	72040000000F114
40 x 1.1/2"	120	10	72040000000F112
50 x 1"	80	1	72050000000F100
50 x 1.1/4"	80	1	72050000000F114
50 x 1.1/2"	80	1	72050000000F100
50 x 2"	50	1	72050000000F200
63 x 1.1/4"	48	1	72063000000F114
63 x 1.1/2"	48	1	72063000000F112
63 x 2"	42	1	72063000000F200
75 x 2"	27	1	72007500000F200
75 x 2.1/2"	27	1	72007500000F212
75 x 3"	27	1	72007500000F300
90 x 2.1/2"	14	1	72009000000F212
90 x 3"	14	1	72009000000F300
90 x 4"	14	1	72009000000F400
110 x 3"	8	1	72011000000F300
110 x 4"	8	1	72011000000F400



Connecting coupling

Standard size	Per box	Per package	Code
20	330	30	72020020000X000
25	210	15	72025025000X000
32	120	10	72032032000X000
40	84	6	72040040000X000
50	50	1	72050050000X000
63	28	1	72063063000X000
75	16	1	72075075000X000
90	8	1	72090090000X000
110	5	1	72110110000X000

Adapter coupling

Standard size	Per box	Per package	Code
25 x 20	240	20	87025020000X000
32 x 20	180	10	87032020000X000
32 x 25	160	10	87032025000X000
40 x 20	110	10	87040020000X000
40 x 25	110	10	87040025000X000
40 x 32	88	8	87040032000X000
50 x 20	70	1	87050020000X000
50 x 25	70	1	87050025000X000
50 x 32	70	1	87050032000X000
50 x 40	60	1	87050040000X000
63 x 20	40	1	87063020000X000
63 x 25	40	1	87063025000X000
63 x 32	40	1	87063032000X000
63 x 40	40	1	87063040000X000
63 x 50	30	1	87063050000X000
75 x 50	18	1	87075050000X000
75 x 63	18	1	87075063000X000
90 x 63	10	1	87090063000X000
90 x 75	10	1	87090075000X000
110 x 63	8	1	87110063000X000
110 x 75	6	1	87110075000X000
110 x 90	6	1	87110090000X000

Plug

Standard size	Per box	Per package	Code
20	640	20	88110000020X000
25	390	30	88220000025X000*
32	240	20	88330000032X000
40	150	10	88550000040X000
50	84	1	88550000050X000
63	56	1	88660000063X000
75	28	1	88770000075X000
90	16	1	88880000090X000
110	10	1	88990000110X000



Tee

Standard size	Per box	Per package	Code
20	195	15	76020020020X000
25	110	10	76025025025X000
32	76	4	76032032032X000
40	44	4	76040040040X000
50	27	1	76050050050X000
63	17	1	76063063063X000
75	7	1	76075075075X000
90	5	1	76090090090X000
110	2	1	76110110110X000

Transition tee

Standard size	Per box	Per package	Code
25 x 20 x 25	140	10	86025020025x000
32 x 20 x 32	90	6	86032020032x000
32 x 25 x 32	84	6	86032025032x000
40 x 20 x 40	52	4	86040020040x000
40 x 25 x 40	52	4	86040025040x000
40 x 32 x 40	52	4	86040032040x000
50 x 25 x 50	30	1	86050025050X000
50 x 32 x 50	30	1	86050032050X000
50 x 40 x 50	27	1	86050040050X000
63 x 25 x 63	17	1	86063025063X000
63 x 32 x 63	17	1	86063032063X000
63 x 40 x 63	17	1	86063040063X000
63 x 50 x 63	17	1	86063050063X000
75 x 50 x 75	9	1	86075050075X000
75 x 63 x 75	9	1	86075063075X000
90 x 63 x 90	4	1	86093063090X000
90 x 75 x 90	4	1	86090075090X000
110 x 90 x 110	3	1	86110090110X000



Tee, F

Standard size	Per box	Per package	Code
20 x 1/2" x 20	280	20	78020000020F012
20 x 3/4" x 20	280	20	78020000020F034
20 x 1" x 20	200	20	78020000020F100
25 x 1/2" x 25	180	10	78025000025F012
25 x 3/4" x 25	160	10	78025000025F034
25 x 1" x 25	160	5	78025000025F100
32 x 1/2" x 32	96	8	78032000032F012
32 x 3/4" x 32	96	8	78032000032F034
32 x 1" x 32	88	8	78032000032F100
40 x 1" x 40	60	4	78040000040F100
40 x 1.1/4" x 40	60	4	78040000040F114
40 x 1.1/2" x 40	60	4	78040000040F112
50 x 1" x 50	35	1	78050000050F100
50 x 1.1/4" x 50	35	1	78050000050F114
50 x 1.1/2" x 50	35	1	78050000050F112
63 x 1.1/4" x 63	18	1	78063000063F114
63 x 1.1/2" x 63	18	1	78063000063F112
63 x 2" x 63	18	1	78063000063F200
75 x 2" x 75	9	1	78075000075F200
75 x 2 1/2" x 75	9	1	78075000075F212
90 x 3" x 90	6	1	78090000090F300
110 x 3" x 110	4	1	780110000110F300
110 x 4" x 100	4	1	780110000110F400



Tee, M

Standard size	Per box	Per package	Code
20 x 1/2" x 20	280	20	77020000020M012
20 x 3/4" x 20	260	10	77020000020M034
20 x 1" x 20	260	20	77020000020M100
25 x 1/2" x 25	160	10	77025000025M012
25 x 3/4" x 25	160	10	77025000025M034
25 x 1" x 25	160	5	77025000025M100
32 x 1/2" x 32	88	8	77032000032M012
32 x 3/4" x 32	88	8	77032000032M034
32 x 1" x 32	88	8	77032000032M100
32 x 1.1/4" x 32	90	6	77032000032M114
40 x 1" x 40	64	4	77040000040M100
40 x 1.1/4" x 40	64	4	77040000040M114
40 x 1.1/2" x 40	64	4	77040000040M112
40 x 2" x 40	60	4	77040000040M200
50 x 1.1/4" x 50	35	1	77050000050M114
50 x 1.1/2" x 50	35	1	77050000050M112
50 x 2" x 50	35	1	77050000050M200
63 x 1.1/4" x 63	18	1	77063000063M114
63 x 1.1/2" x 63	18	1	77063000063M112
63 x 2" x 63	18	1	77063000063M200
63 x 2 1/2" x 63	18	1	77063000063M212
75 x 2 1/2" x 75	9	1	77075000075M212
75 x 3" x 75	9	1	77075000075M300
90 x 3" x 90	5	1	77090000090M300
110 x 3" x 110	4	1	77110000110M300
110 x 4" x 110	4	1	77110000110M400



Bend

Standard size	Per box	Per package	Code
20	325	25	81020020000X000
25	180	15	81025025000X000
32	112	8	81032032000X000
40	72	6	81040040000X000
50	40	1	81050050000X000
63	20	1	81063063000X000
75	10	1	81075075000X000
90	6	1	81090090000X000
110	3	1	81110110000X000



Bend, F

Standard size	Per box	Per package	Code
20 x 1/2"	520	40	83020000000F012
20 x 3/4"	480	10	83020000000F034
20 x 1"	390	30	83020000000F100
25 x 1/2"	325	25	83025000000F012
25 x 3/4"	325	25	83025000000F034
25 x 1"	260	10	83025000000F100
32 x 1/2"	180	15	83032000000F012
32 x 3/4"	180	15	83032000000F034
32 x 1"	160	10	83032000000F100
40 x 1"	96	8	83040000000F100
40 x 1 1/4"	96	8	83040000000F114
50 x 1"	65	1	83050000000F100
50 x 1.1/4"	65	1	83050000000F114
50 x 1.1/2"	65	1	83050000000F112
63 x 1.1/4"	35	1	83063000000F114
63 x 1.1/2"	35	1	83063000000F112
63 x 2"	32	1	83063000000F200
75 x 2"	15	1	83075000000F200
75 x 2.1/2"	15	1	83075000000F212
75 x 3"	15	1	83075000000F300



Bend, M

Standard size	Per box	Per package	Code
20 x 1/2"	520	40	8202000000M012
20 x 3/4"	520	20	8202000000M034
20 x 1"	510	30	8202000000M100
25 x 1/2"	325	25	8202500000M012
25 x 3/4"	325	25	8202500000M034
25 x 1"	250	25	8202500000M100
32 x 1/2"	210	15	8203200000M012
32 x 3/4"	210	15	8203200000M034
32 x 1"	180	15	8203200000M100
32 x 1.1/4"	165	15	8203200000M114
40 x 1"	110	10	8204000000M100
40 x 1.1/4"	110	10	8204000000M114
40 x 1.1/2"	96	8	8204000000M112
50 x 1.1/2"	70	1	8205000000M112
50 x 2"	70	1	8205000000M200
63 x 1.1/4"	40	1	8206300000M114
63 x 2"	40	1	8206300000M200
63 x 2.1/2"	35	1	8206300000M212
75 x 2.1/2"	15	1	8207500000M212
90 x 3"	10	1	8209000000M300
110 x 3"	6	1	8211000000M300
110 x 4"	6	1	8211000000M400



Seat with coupling (bolting)

Standard size	Per box	Per package	Code
32 x 20	90	1	94032020032x000
32 x 25	90	1	94032025032x000
40 x 20	80	1	94040020040x000
40 x 25	70	1	94040025040x000
40 x 32	60	1	94040032040x000
50 x 20	200	1	94050020050x000
50 x 25	180	1	94050025050x000
50 x 32	160	1	94050032050x000
50 x 40	90	1	94050040050x000
63 x 20	160	1	94063020063x000
63 x 25	140	1	94063025063x000
63 x 32	120	1	94063032063x000
63 x 40	80	1	94063040063x000
63 x 50	60	1	94063050063x000



Seat with male thread, bolting

Standard size	Per box	Per package	Code
32 x 1/2"	120	1	93032000000M012
32 x 3/4"	120	1	93032000000M034
32 x 1"	20	1	93032000000M100
40 x 1/2"	60	1	93040000000M012
40 x 3/4"	60	1	93040000000M034
40 x 1"	50	1	93040000000M100
50 x 1/2"	40	1	93050000000M012
50 x 3/4"	40	1	93020000000M114
50 x 1"	30	1	93050000000M100
50 x 1.1/4"	30	1	93050000000M034



Seat with female thread (bolting)

Standard size	Per box	Per package	Code
20 x 1/2"	200	20	91020000000F012
25 x 1/2"	160	20	91025000000F012
25 x 3/4"	160	20	91025000000F034
32 x 1/2"	140	20	91032000000F012
32 x 3/4"	140	20	91032000000F034
32 x 1"	120	20	91032000000F100
40 x 1/2"	84	12	91040000000F012
40 x 3/4"	84	12	91040000000F034
40 x 1"	84	12	91040000000F100
50 x 1/2"	60	10	91050000000F012
50 x 3/4"	60	10	91050000000F034
50 x 1"	60	10	91050000000F100
50 x 1.1/4"	60	5	91050000000F114
63 x 1/2"	50	5	91063000000F012
63 x 3/4"	50	5	91063000000F034
63 x 1"	50	5	91063000000F100
63 x 1.1/4"	50	5	91063000000F114
63 x 1.1/2"	50	5	91063000000F112
75 x 1/2"	40	5	91075000000F012
75 x 3/4"	40	5	91075000000F034
75 x 1"	40	5	91075000000F100
75 x 1.1/4"	21	3	91075000000F114
75 x 1.1/2"	21	3	91075000000F112
75 x 2"	21	3	91075000000F200
90 x 1/2"	21	5	91090000000F012
90 x 3/4"	35	5	91090000000F034
90 x 1"	35	5	91090000000F100
90 x 1.1/4"	18	2	91090000000F114
90 x 1.1/2"	18	2	91090000000F112
90 x 2"	18	2	91090000000F200
110 x 1/2"	16	2	91110000000F012
110 x 3/4"	16	2	91110000000F034
110 x 1"	16	2	91110000000F100
110 x 1.1/4"	24	8	91110000000F114
110 x 1.1/2"	24	8	91110000000F112
110 x 2"	24	8	91110000000F200
125 x 3/4"	36	1	91250000000F034
125 x 1"	36	1	91250000000F100
125 x 1.1/4"	36	1	91250000000F114
125 x 1.1/2"	36	1	91250000000F112
125 x 2"	36	1	91250000000F200
140 x 1			91400000000F100
140 x 3/4			91400000000F034
160 x 1			91600000000F100
160 x 1.1/4			91600000000F114
160 x 3			91250000000F300
160 x 3/4			91600000000F034



Ball valve, coupling-to-coupling

Standard size	Per box	Per package	Code
20 x 20	160	10	9950000000X020
25 x 25	90	6	9950000000X025
32 x 32	70	5	9950000000X032
40 x 40	48	1	9950000000X040
50 x 50	28	1	9950000000X050
63 x 63	15	1	9950000000X063



Ball valve, non-separable, coupling-to-coupling

Standard size	Per box	Per package	Code
20 x 20	200	10	9960000000X020
25 x 25	125	5	9960000000X025
32 x 32	80	4	9960000000X032





Ball valve, coupling-F

Standard size	Per box	Per package	Code
20 x 1/2"	180	10	9910000000F020
25 x 3/4"	140	5	9910000000F025
32 x 1"	100	5	9910000000F032
40 x 1.1/2"	60	4	9910000000F040
50 x 1.1/2"	36	1	9910000000F050
63 x 2"	19	1	9910000000F063



Ball valve, coupling-M

Standard size	Per box	Per package	Code
20 x 1/2"	180	10	9930000000M020
25 x 3/4"	120	5	9930000000M025
32 x 1"	80	5	9930000000M032
40 x 1.1/2"	60	4	9930000000M040
50 x 1.1/2"	36	1	9930000000M050
63 x 2"	19	1	9930000000M063



Ball valve, M-F

Standard size	Per box	Per package	Code
1/2" x 1/2"	240	20	999000M015F015
3/4" x 3/4"	180	10	999000M020F020
1" x 1"	120	8	999000M025F025
1 1/4" x 1.1/4"	84	6	999000M032F032
1 1/2" x 1.1/2"	40	1	999000M040F040
2" x 2"	28	1	999000M063F063



Ball valve, F-F

Standard size	Per box	Per package	Code
1/2" x 1/2"	280	20	997000F015F015
3/4" x 3/4"	180	10	997000F020F020
1" x 1"	120	10	997000F025F025
1.1/4" x 1.1/4"	84	6	997000F032F032
1.1/2" x 1.1/2"	45	1	997000F040F040
2" x 2"	28	1	997000F063F063



Ball valve, M-M

Standard size	Per box	Per package	Code
1/2" x 1/2"	260	20	998000M015M015
3/4" x 3/4"	160	10	998000M020M020
1" x 1"	112	8	998000M025M025
1 1/4" x 1 1/4"	84	6	998000M032M032
1 1/2" x 1 1/2"	40	1	998000M040M040
2" x 2"	28	1	998000M050M050

PE 100 polyethylene pipes

Polyethylene pressure pipes are designed for pipelines transporting water for domestic and drinking water supply, as well as liquid and gaseous substances to which polyethylene is chemically resistant (refer to the table of chemical resistance depending on the medium, concentration and temperature). Polyethylene pipes are resistant to aqueous solutions of acids, alkalis, salts, and many other organic solvents. Polyethylene pipes are not suitable for transporting concentrated acids. Pipes are made of polyethylene composition with thermal and light stabilizers.

Pipe marking shall include trademark of the company, pipe designation, name of PE 100 material, standard dimension ratio (SDR), outer diameter, wall thickness, purpose (household drinking purpose is indicated by "drinking water"), standard designation, pipe length from the beginning of the coil.

The pipelines shall be assembled using compression fittings, butt or socket welding

TECHNICAL CHARACTERISTICS:

- Nominal operating pressure up to 1.6MPa;
- Maximum operating temperature: constant up to 40°C, short-term up to 80°C;



PE 100 POLYETHYLENE PIPES

Diameter:	SDR	Multiplicity, m	Code
20	11 (1,6 MPa)	100	PE100W020100
25	13,6 (1,25 MPa)	100	PE100W025100
32	17 (1 MPa)	100	PE100W032100
40	17 (1 MPa)	100	22 4811 3407pa
50	17 (1 MPa)	100	22 4811 3408pa
63	17 (1 MPa)	100	22 4811 3409pa
75	17 (1 MPa)	100	2 248 113 660
90	17 (1 MPa)	100	2 248 113 406 100
110	17 (1 MPa)	12	22 4811 3412tt
32 x 1.1/4"	210	15	7103200000M114
40 x 1"	130	10	7104000000M100



R BIM-MODELS
OF PRODUCTS
FOR AUTODESK SW

REVIT®

Pipes and fittings for indoor sewage



COMFORT INTERNAL SEWAGE SYSTEMS

Sewage pipes and fittings made of polypropylene are used in non-pressure sewage systems. Compared to cast iron, polypropylene pipes have increased chemical resistance, no corrosion and cross-section clogging, they have light weight and smooth surface.

TECHNICAL CHARACTERISTICS:

- Pipes and fittings for indoor sewage (grey)
- Material: polypropylene.
- Operating temperature + 75°C, short-term up to +95°C;
- GOST 32414-2013, TU 2248-004-16965449-2016
- DIN 19560 EN 1451

MAIN ADVANTAGES:

- 15-20 times lighter than similar products made of cast iron, which facilitates transportation, installation and storage;
- installation is easier and quicker by 5-6 times;
- pipes have smooth internal surfaces that do not clog over time;
- do not require painting or pre-treatment;
- high resistance to aggressive media;
- polypropylene systems are not subject to chemical and electrochemical corrosion;
- resistant to hydroabrasive wear.

Pipes and fittings feature a socket style construction, and completed with double-leaf rubber sealing rings (diameters 50-110), which increases installation speed and ensures high reliability and tightness of joints.





Pipe with socket

Size D,mm	Length L, mm	Thickness of wall, mm	Per package	Code	Size D,mm	Length L, mm	Thickness of wall, mm	Per package	Code
32	150	1,8	64	113015	50	1500	1,8	50	500051
32	250	1,8	60	113025	50	2000	1,8	50	500053
32	500	1,8	32	113050	50	3000	1,8	50	500055
32	750	1,8	60	113075	75	150	2,0	28	500061
32	1000	1,8	60	113100	75	250	2,0	28	500063
32	1500	1,8	60	113150	75	500	2,0	30	500065
32	2000	1,8	60	113200	75	750	2,0	30	500067
40	150	1,8	84	114015	75	1000	2,0	20	500069
40	250	1,8	84	114025	75	1500	2,0	20	500071
40	500	1,8	84	114050	75	2000	2,0	20	500073
40	750	1,8	60	114750	75	3000	2,0	20	500075
40	1000	1,8	60	114100	110	150	2,7	30	500081
40	1500	1,8	60	114150	110	250	2,7	30	500083
40	2000	1,8	60	114200	110	500	2,7	20	500085
50	150	1,8	60	500041	110	750	2,7	20	500087
50	250	1,8	60	500043	110	1000	2,7	20	500089
50	500	1,8	60	500045	110	1500	2,7	20	500091
50	750	1,8	50	500047	110	2000	2,7	20	500093
50	1000	1,8	50	500049	110	3000	2,7	20	500095

Tee

Size D,mm x ∟°	Per box	Per package	Code
32 x 32 x 45°	60	1	203245
32 x 32 x 87,5°	60	1	203287
40 x 40 x 45°	28	1	214445
40 x 40 x 87,5°	28	1	214487
50 x 40 x 45°	18	1	215445
50 x 40 x 87,5°	18	1	215487
50 x 50 x 45°	20	1	205545
50 x 50 x 87,5°	28	1	205587
75 x 50 x 45°	40	1	207545
75 x 50 x 87,5°	40	1	207587
75 x 75 x 45°	40	1	207745
75 x 75 x 87,5°	50	1	207787
110 x 50 x 45°	30	1	201545
110 x 50 x 87,5°	30	1	201587
110 x 75 x 45°	20	1	201745
110 x 75 x 87,5°	25	1	201787
110 x 110 x 45°	15	1	201145
110 x 110 x 87,5°	20	1	201187

Bend

Size D,mm x ∟°	Per box	Per package	Code
32 x 45°	100	1	100345P
32 x 87,5°	90	1	110387
40 x 45°	60	1	110445
40 x 87,5°	50	1	110487
50 x 15°	40	1	100515
50 x 30°	40	1	100530
50 x 45°	40	1	100545
50 x 67°	40	1	100567
50 x 87,5°	30	1	100587
75 x 15°	20	1	100715
75 x 30°	17	1	100730
75 x 45°	15	1	100745
75 x 67°	15	1	100767
75 x 87,5°	12	1	100787
110 x 15°	40	1	100115
110 x 30°	40	1	100130
110 x 45°	40	1	100145
110 x 67°	35	1	100167
110 x 87,5°	30	1	100187



Pipe bend with outlet 50 (left)

Size D,mm x ∟°	Per box	Per package	Code
110 x 50 x 45°	30	1	10010545L
110 x 50 x 87,5°	28	1	10010587L



Pipe bend with outlet 50 (right)

Size D,mm x ∟°	Per box	Per package	Code
110 x 50 x 45°	30	1	10010545R
110 x 50 x 87,5°	28	1	10010587R



Pipe bend with outlet 50 (left and right)

Size D,mm x ∟°	Per box	Per package	Code
110 x 50 x 50 x 45°	25	1	10010545LR



Pipe bend with outlet 50 (straight)

Size D,mm x ∟°	Per box	Per package	Code
110 x 50° x 87,5°	28	1	10010587U



Pipe bend with outlet 50 (frontal)

Size D,mm x ∟°	Per box	Per package	Code
110 x 50 x 87,5°	28	1	10010587F



Universal slewable pipe bend

Size D	Per box	Per package	Code
50°	180	1	1005087T
110°	20	1	1011087T



Eccentric adapter

Size D,mm	Per box	Per package	Code
32 x 40	100	1	504032P
32 x 50	100	1	505032P
40 x 50	50	1	515040
50 x 75	36	1	507750
50 x 110	12	1	511050
75 x 110	12	1	510075



Short eccentric adapter

Size D, mm	Per box	Per package	Code
110 x 50	60	1	511050k



Cleanout pipe with lid

Size D, mm	Per box	Per package	Code
50	25	1	605000
75	9	1	607500
110	25	1	611000



Repair coupling

Size D, mm	Per box	Per package	Code
32	100	1	300310P
40	75	1	300411
50	45	1	300510
75	18	1	300710
110	60	1	301110



Double-socket coupling

Size D, mm	Per box	Per package	Code
32	100	1	300320P
40	60	1	300421
50	45	1	300520
75	18	1	300720
110	60	1	301120



Adapter for cast-iron pipe with coupling

Size D	Per box	Per package	Code
50 x 73	27	1	920050
110 x 124	40	1	920110



Adapter for cast-iron pipe (taper)

Size D,mm	Per box	Per package	Code
50 x 73	36	1	150075
110 x 123	80	1	124110

* Manufactured at allied suppliers



Sealing for adapter for cast-iron material

Size D, mm	Per box	Per package	Code
50 x 72	100	1	150075s
110 x 123	50	1	124110s



Adapter for black HDPE sewage

Size D, mm *	Per box	Per package	Code
50 x 48	1	1	925050
110 x 108	1	1	925110



Double plane cross-piece (left)

Size D,mm x ∠°	Per box	Per package	Code
110 x 110 x 50 x 87,5°	15	1	711587



Double plane cross-piece (right)

Size D,mm x ∠°	Per box	Per package	Code
110 x 110 x 50 x 87,5°	15	1	712587



Double plane cross-piece with three outlets

Size D,mm x ∠°	Per box	Per package	Code
110 x 50 x 50 x 110 x 87,5°	12	1	715587



Single plane cross-piece

Size D,mm x ∠°	Per box	Per package	Code
50 x 50 x 50 x 45°*	12	1	855545
50 x 50 x 50 x 87,5°*	12	1	855587
110 x 50 x 50 x 45°	24	1	805545
110 x 50 x 50 x 87,5°	26	1	805587P
110 x 110 x 110 x 45°	10	1	801145P
110 x 110 x 50 x 87,5°	18	1	801587P
110 x 110 x 110 x 87,5°	12	1	8001187



Double plane cross-piece

Size D,mm x ∠°	Per package	Code
110 x 110 x 110 x 87,5°	12	711187P



Connection to toilet bowl

Size D, mm x ∟'	Per box	Per package	Code
110 x прямое*	35	1	540100
110 x 45	30	1	498043
110 x 87,5	30	1	498044

Plug

Size D, mm	Per box	Per package	Code
32	250	50	403000
40	200	50	404000
50	150	25	405000
75	80	1	407000
110	30	1	411000

Compensatory branch pipe

Size D, mm	Per box	Per package	Code
50	25	1	905000P
75	12	1	907500
110	27	1	911000

O-ring for cleanout pipe

Size D, mm	Code
40*	MOL0040
50*	108P
110*	116P

Deflector

Size D, mm	Per box	Per package	Code
50	15	1	2910
110	25	1	940110

Vacuum valve

Size D	Per box	Per package	Code
50	24	1	950050
110	55	1	950110

Clamp

Size D, mm	Per box	Per package	Code
40	250	50	700040
50	150	25	700050
75	100	1	707000
110	60	1	700100

Check valve

Size D, mm	Per box	Per package	Code
50	8	1	930050
110	8	1	930110

* Manufactured at allied suppliers



Vertical floor drain with plastic grill*

Diameter of connection, mm	Grill size, mm	Per box	Per package	Code
50	100 x 100	60	1	9-2610-050-46-01-04

Vertical floor drain with stainless steel grill*

Diameter of connection, mm	Grill size, mm	Per box	Per package	Code
50	100 x 100	16	1	9-2600-050-46-01-04
110	150 x 150	8	1	9-2600-110-46-01-04

Horizontal floor drain with plastic grill*

Diameter of connection, mm	Grill size, mm	Per box	Per package	Code
50	100 x 100	50	1	9-2610-050-47-01-04

Horizontal floor drain with stainless steel grill*

Diameter of connection, mm	Grill size, mm	Per box	Per package	Code
50	100 x 100	5	1	9-2600-050-47-01-04
110	150 x 150	1	1	9-2600-110-47-01-04

Flexible coupling

Size D, mm	Per box	Per package	Code
40	108	1	11326
50	105	1	11328

Fire-prevention sleeve

Size D, mm	Per box	Per package	Code
50*	100	1	MPP50CT
75*	1	1	MPP75CT
110*	40	1	MPP110CT
160*	10	1	MPP150CT

OTK PIPES

OTK pipes are produced as per the specifications of manufacturing plant, and feature a reduced wall thickness as compared to GOST 32414, they recommended for use in low-storey development. OTK pipes are compatible with PRO AQUA shaped pieces and components. Due to the smaller wall thickness, it is recommended to reduce the distance between the fasteners of OTK pipes, and avoid discharge of effluent with a temperature above 90°C.

OTK pipes

Size D, mm	Per package	Code
50 x 150 x 1,5	60	otk150500150
50 x 250 x 1,5	60	otk150500250
50 x 500 x 1,5	60	otk150500500
50 x 750 x 1,5	50	otk150500750
50 x 1000 x 1,5	50	otk150501000
50 x 1500 x 1,5	50	otk150501500
50 x 2000 x 1,5	50	otk150502000
110 x 500 x 2,2	20	otk221100500
110 x 750 x 2,2	20	otk221100750
110 x 1000 x 2,2	20	otk221101000
110 x 1500 x 2,2	20	otk221101500
110 x 2000 x 2,2	20	otk221102000
110 x 3000 x 2,2	20	otk221103000

* Manufactured at allied suppliers





Low noise sewage

PRO AQUA

STILTE

LOW NOISE
SEWAGE SYSTEMS

Pipes and fittings of PRO AQUA STILTE series create acoustic comfort in premise while remaining very affordable.

Ø110, Ø160 pipes consist of three layers: outer one produced of pure polypropylene that gives the pipe resistance to external mechanical exposure, middle one of mineral-reinforced polypropylene, and inner layer of pure polypropylene that ensures the pipe with excellent hydraulic performance, chemical and abrasive resistance.

Such a multi-layer design features a significant stiffness, and due to the use of mineral additives and increased wall thickness, it absorbs noises well. Advantages of polypropylene, namely resistance to high temperatures, up to 95°C (short-term), are preserved, and mineral additives allow minimizing thermal expansion, and reducing thermal conductivity.

PRO AQUA STILTE series consists of pipes and fittings of N/OD 32, 40, 50, 75, 110 and 160 mm standard sizes. Pipes and fittings are fully compatible with PRO AQUA COMFORT sewage featuring at the same time a wall thicker to 25% as compared with PRO AQUA COMFORT regular pipes.

Ø 32-50 mm pipes and fittings of PRO AQUA STILTE series are monolith, and made of composite based on polypropylene.

Pipes are manufactured in accordance with TU 2248-011-16965449-2016.



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LOW NOISE SEWAGE



Pipe with socket

Size D,mm	Length L, mm	Wall thick-ness, mm	Per package	Code	Size D,mm	Length L, mm	Wall thick-ness, mm	Per package	Code
32	150	1,8	64	ST113015W	75	150	2,0	28	ST500061W
32	250	1,8	60	ST113025W	75	250	2,0	28	ST500063W
32	500	1,8	32	ST113050W	75	500	2,0	20	ST500065W
32	750	1,8	60	ST113075W	75	750	2,0	30	ST500067W
32	1000	1,8	60	ST113100W	75	1000	2,0	20	ST500069W
32	1500	1,8	60	ST113150W	75	1500	2,0	20	ST500071W
32	2000	1,8	60	ST113200W	75	2000	2,0	20	ST500073W
40	150	1,8	84	ST114015W	75	3000	2,0	20	ST500075W
40	250	1,8	84	ST114025W	110	150	3,4	30	ST500081W
40	500	1,8	84	ST114050W	110	250	3,4	30	ST500083W
40	750	1,8	60	ST114750W	110	500	3,4	20	ST500085W
40	1000	1,8	60	ST114100W	110	750	3,4	20	ST500087W
40	1500	1,8	60	ST114150W	110	1000	3,4	20	ST500089W
40	2000	1,8	60	ST114200W	110	1500	3,4	20	ST500091W
50	150	1,8	60	ST500041W	110	2000	3,4	20	ST500093W
50	250	1,8	60	ST500043W	110	3000	3,4	20	ST500095W
50	500	1,8	60	ST500045W	160	500	4,9	10	ST500685W
50	750	1,8	50	ST500047W	160	750	4,9	35	ST500687W
50	1000	1,8	50	ST500049W	160	1000	4,9	35	ST500689W
50	1500	1,8	50	ST500051W	160	2000	4,9	35	ST500693W
50	2000	1,8	50	ST500053W	160	3000	4,9	35	ST500695W
50	3000	1,8	50	ST500055W					

Tee

Size D,mm x ∟°	Per box	Per package	Code
32 x 32 x 45°	60	1	ST203245W
32 x 32 x 87,5°	60	1	ST203287W
40 x 40 x 45°	28	1	ST214445W
40 x 40 x 87,5°	28	1	ST214487W
50 x 40 x 45°	20		ST215445W
50 x 40 x 87,5°	18	1	ST215487W
50 x 50 x 45°	18	1	ST205545W
50 x 50 x 87,5°	18	1	ST205587W
75 x 50 x 45°	60		ST207545W
75 x 50 x 87,5°	60		ST207587W
75 x 75 x 45°	40		ST207745W
75 x 75 x 87,5°	50		ST207787W
110 x 110 x 45°	15	1	ST201145W
110 x 110 x 87,5°	20	1	ST201187W
110 x 75 x 45°	20		ST201745W
110 x 75 x 87,5°	25		ST201787W
110x 50 x 45°	30		ST201545W
110x 50 x 87,5°	30		ST201587W
160 x 110 x 45°	15	1	ST206145W
160 x 110 x 87,5°	7		ST206187W
160 x 160 x 45°	4	1	ST206645W
160 x 160 x 87,5°	6	1	ST206687W

Eccentric adapter

Size D	Per box	Per package	Code
32 x 40	100	1	ST504032W
32 x 50	100	1	ST505032W
40 x 50	50	1	ST515040W
50 x 75	36	1	ST507750W
50 x 110	12	1	ST511050W
75 x 110	12	1	ST510075W
110 x 160	33	1	ST516011W

Short eccentric adapter

Size D	Per box	Per package	Code
50 x 110	16	1	ST51150KW



Bend

Size D,mm x ∟°	Per box	Per package	Code
32 x 45°	100	1	ST100345W
32 x 87,5°	90	1	ST110387W
40 x 45°	60	1	ST110445W
40 x 87,5°	50	1	ST110487W
50 x 15°	40	1	ST100515W
50 x 30°	40	1	ST100530W
50 x 45°	40	1	ST100545W
50 x 67°	40	1	ST100567W
50 x 87,5°	30	1	ST100587W
75 x 15°	20	1	ST100715W
75 x 30°	17	1	ST100730W
75 x 45°	15	1	ST100745W
75 x 67°	15	1	ST100767W
75 x 87,5°	12	1	ST100787W
110 x 15°	40	1	ST100115W
110 x 30°	40	1	ST100130W
110 x 45°	40	1	ST100145W
110 x 67°	35	1	ST100167W
110 x 87,5°	20	1	ST100187W

Pipe bend with outlet (left)

Size D,mm x ∟°	Per box	Per package	Code
110 x 50 x 45°	30	1	ST10010545LW
110 x 50 x 87,5°	28	1	ST10010587LW

Pipe bend with outlet 50 (right)

Size D,mm x ∟°	Per box	Per package	Code
110 x 50 x 45°	30	1	ST10010545RW
110 x 50 x 87,5°	28	1	ST10010587RW

Pipe bend with outlet (left and right)

Size D,mm x ∟°	Per box	Per package	Code
110 x 50 x 45°	25	1	ST10010545LRW

Pipe bend with outlet (straight)

Size D,mm x ∟°	Per box	Per package	Code
110 x 50 x 87,5°	28	1	ST10010587LW

Pipe bend with outlet (frontal)

Size D,mm x ∟°	Per box	Per package	Code
110 x 50 x 87,5°	28	1	ST10010587FW



Double plane cross-piece (left)

Size D,mm x ∟°	Per box	Per package	Code
110x110x 50 x 87,5°	15	1	ST711587W



Double plane cross-piece (right)

Size D,mm x ∟°	Per box	Per package	Code
110 x 110 x 50 x 87,5°	15	1	ST712587W



Double plane cross-piece with two outlets

Size D,mm x ∟°	Per box	Per package	Code
110 x 50 x 50 x 110 x 87,5°	12	1	ST711187W



Single plane cross-piece

Size D,mm x ∟°	Per box	Per package	Code
50 x 50 x 50 x 45°	12	1	ST855545W
50 x 50 x 50 x 87,5°	12	1	ST855587W
110 x 50 x 50 x 45°	24	1	ST805545W
110 x 110 x 110 x 45°	26	1	ST801145W
110 x 110 x 110 x 87,5°	18	1	ST801187W
110 x 110 x 50 x 87,5°	10	1	ST801587W
110 x 50 x 50 x 87,5°	12	1	ST805587W



Double plane cross-piece

Size D,mm x ∟°	Per box	Per package	Code
110 x 110 x 110 x 87,5°	12	1	ST711187W



Adapter for cast-iron pipe (taper)

Size D	Per box	Per package	Code
50/73	80	1	ST150075W
110/123	36	1	ST124110W



Cleanout pipe with lid

Size D,mm	Per box	Per package	Code
50	25	1	ST605000W
75	9	1	ST607500W
110	25	1	ST611000W
160	6	1	ST616000W



Double-socket coupling

Size D,mm	Per box	Per package	Code
32	100	1	ST300320W
40	75	1	ST300421W
50	45	1	ST300520W
75	18	1	ST300720W
110	60	1	ST301120W
160	18	1	ST301620W



Repair coupling

Size D,mm	Per box	Per package	Code
32	100	1	ST300310W
40	75	1	ST300411W
50	45	1	ST300510W
75	18	1	ST300710W
110	60	1	ST301110W
160	18	1	ST301610W



Compensatory branch pipe

Size D,mm	Per box	Per package	Code
50	25	1	ST905000W
75	12	1	ST907500W
110	27	1	ST911000W



Plug

Size D,mm	Per box	Per package	Code
32	400	50	ST403000W
40	250	50	ST404000W
50	150	25	ST405000W
75	80	1	ST407000W
110	30	1	ST411000W
160	10	1	ST416000W



Clamps

Size D	Per box	Per package	Code
40	250	1	ST700040W
50	150	1	ST700050W
75	100	1	ST700070W
110	60	1	ST700110W



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10
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WARRANTY

Noiseless sewage

PRO AQUA

STILTE PLUS

SILENT
SEWAGE SYSTEMS

PRO AQUA STILTE PLUS series of pipes and fittings for noiseless sewage provides a quality solution in the premium segment, incorporating the best practices of the market. Single-layer pipe is made of high-density polypropylene-based composite. PRO AQUA STILTE PLUS series (TU 2248-011-16965449-2016) helps to reduce structure-borne and acoustic noise in sewage systems to minimum values. There are no special requirements for fixing these pipes.

According to tests conducted at Bauman Moscow State Technical University, the noise level in PRO AQUA STILTE PLUS pipes is significantly lower compared to conventional polypropylene sewage system under similar conditions. Thus, at a sewage flow rate of 1 l/s the noise level reduction reaches 3 dB at the horizontal pipe section and 10 dB — at the vertical pipe section; at a flow rate of 2 l/s the noise level reduction is 4 and 11 dB, respectively. According to the tests conducted at the Fraunhofer Institute (Stuttgart, Germany), noise level in the protected premise when using Pro PRO AQUA STILTE PLUS system fails to exceed 17 dB(A).

PRO AQUA STILTE PLUS series consists of pipes and fittings of DN/OD 58, 110, 160 and 200 mm standard sizes. Outer diameter of PRO AQUA STILTE PLUS pipes and fittings complies with standard sizes of SML code sewage, and may be combined with these pipes via a regular joining clamp for cast-iron pipes. Pipes and fittings feature a higher circular stiffness, resistance to high temperatures (short-term to 100°C).

PRO AQUA STILTE PLUS pipes and fittings are significantly lighter than cast-iron fittings, and in contrast to the SML system, connection is performed in socket style, which is considerably quicker. Plastic pipes are not subject to corrosion, and fail to conduct current, which also increases reliability of the system. Owing to a plain and smooth inner surface, risk in clogging of pipe cross section is reduced. The pipes are resistant to abrasion and wear, ensuring failure-free operation for at least 50 years. As opposed to metal sewage, the PRO AQUA STILTE PLUS system does not need to be painted.

NOISELESS SEWAGE



Noiseless sewage pipe

Size D,mm	Wall thickness, mm	Per package	Code	Size D,mm	Wall thickness, mm	Per package	Code
58 x 150	4	45	STPL550580150	110 x 2000	5,3	4	STPL551102000
58 x 250	4	45	STPL550580250	110 x 3000	5,3	40	STPL551103000
58 x 500	4	45	STPL550580500	160 x 250	5,3	12	STPL551600250
58 x 1000	4	120	STPL550581000	160 x 500	5,3	12	STPL551600500
58 x 1500	4	120	STPL550581500	160 x 1000	5,3	25	STPL551601000
58 x 2000	4	120	STPL550582000	160 x 2000	5,3	25	STPL551602000
58 x 3000	4	120	STPL550583000	160 x 3000	5,3	25	STPL551603000
110 x 150	5,3	30	STPL551100150	200 x 250	6,2	9	STPL552000250
110 x 250	5,3	30	STPL551100250	200 x 500	6,2	20	STPL552000500
110 x 500	5,3	40	STPL551100500	200 x 1000	6,2	20	STPL552001000
110 x 1000	5,3	4	STPL551101000	200 x 2000	6,2	20	STPL552002000
110 x 1500	5,3	40	STPL551101500	200 x 3000	6,2	20	STPL552003000

Bend



Size D, mm x ∠°	Per box	Per package	Code
58 x 15°	25	2	STPL1005815
58 x 30°	20	2	STPL1005830
58 x 45°	25	2	STPL1005845
58 x 67,5°	20	2	STPL1005867
58 x 87,5°	20	2	STPL1005887
110 x 15°	25	2	STPL1011015
110 x 30°	20	2	STPL1011030
110 x 45°	12	2	STPL1011045
110 x 67,5°	12	2	STPL1011067
110 x 87,5°	12	2	STPL1011087
160 x 30°	6	1	STPL1016030
160 x 45°	6	1	STPL1016045
160 x 87,5°	5	1	STPL1016087
200 x 45°	3	1	STPL1020045
200 x 87,5°	2	1	STPL1020087

Tee



Size D, mm x ∠°	Per box	Per package	Code
58 x 58 x 45°	8	2	STPL2005805845
58 x 58 x 87,5°	10	2	STPL2005805887
110 x 58 x 45°	12	1	STPL2011005845
110 x 58 x 87,5°	12	1	STPL2011005887
110 x 110 x 45°	8	1	STPL2011011045
110 x 110 x 87,5°	10	1	STPL2011011087
160 x 110 x 45°	3	1	STPL2016011045
160 x 160 x 45°	2	1	STPL2016016045
160 x 160 x 87,5°			STPL2016016087
200 x 110 x 87,5°			STPL2020011087
200 x 160 x 45°	1	1	STPL2020016045
200 x 160 x 87,5°			STPL2020016087
200 x 200 x 45°	1	1	STPL2020020045
200 x 200 x 87,5°	1	1	STPL2020020087

Compensatory branch pipe



Size D,mm	Per box	Per package	Code
110	15	2	STPL90110

Plug



Size D,mm	Per box	Per package	Code
58	64	4	STPL40058
110	28	2	STPL40110
160	28	2	STPL40160
200	10	1	STPL40200



Double-socket coupling

Size D,mm	Per box	Per package	Code
58	28	2	STPL30058
110	24	2	STPL30110
160	5	1	STPL30160
200	4	1	STPL30200



Repair coupling

Size D,mm	Per box	Per package	Code
58	28	2	STPL31058
110	24	2	STPL31110
160	6	1	STPL31160
200	4	1	STPL31200



Eccentric adapter

Size D,mm	Per box	Per package	Code
40 x 58	40	2	STPL50058040
50 x 58	40	2	STPL50058050
110 x 58	10	1	STPL50110058
160 x 110	10	1	STPL50160110
200 x 110			STPL50200110
200 x 160	6	1	STPL50200160



Cleanout pipe with lid

Size D,mm	Per box	Per package	Code
58	8	2	STPL60058



Cleanout pipe with lid

Size D,mm	Per box	Per package	Code
110	8	1	STPL60110
160	2	1	STPL60160



Double plane cross-piece

Size D,mm	Per box	Per package	Code
110 x 110 x 110	72	1	STPL711187



Single plane cross-piece

Size D,mm	Per box	Per package	Code
110 x 110 x 110	80	1	STPL801187



Pipes and fittings for outdoor sewage



TERRA

EXTERNAL
SEWAGE SYSTEMS

Polypropylene pipes and fittings are widely used in the construction of outdoor water sewage networks due to combined qualities such as excellent chemical resistance, flexibility, abrasion resistance, light weight and attractive price. Polymer pipes are resistant to soil movement and can be used in areas with seismicity up to 9 points. Polypropylene sewage pipes are less likely to reduce ring stiffness when heated than PE pipes and are more frost resistant than PVC pipes.

PRO AQUA pipes and fittings are manufactured using polypropylene block copolymer, which has the best combination of impact strength and rigidity. Under the PRO AQUA Terra brand, pipes and fittings of SN 4 ring stiffness with smooth wall are manufactured for outdoor sewage systems. The series contains products with outer diameters of 110, 160 and 200 mm. PRO AQUA PROKAN double-layer corrugated pipes with ring (110) stiffness from SN8 to SN16 and inner diameters from 150 to 1000 mm are available for large diameter sewer networks. PRO AQUA pipes and fittings for outdoor sewage under the PRO AQUA brands are designed for a service life of at least 50 years.

ADVANTAGES:

- + quick and easy installation;
- + tight connection;
- + light weight with high rigidity;
- + chemical resistance to the main types of effluents;
- + long service life of polypropylene;
- + insignificant level of wear on the inner pipe surface;
- + absence of corrosion;
- + maintainability;
- + resistance to low temperatures.



**PRO AQUA TERRA pipes
FOR OUTDOOR SEWAGE**

PRO AQUA TERRA pipes are manufactured using polypropylene block copolymer (PP-B) as per TU 2248-005-16965449-2016 and are designed for use in outdoor non-pressure wastewater networks or in gravity sewers.

TECHNICAL CHARACTERISTICS:

- Material: polypropylene (PP-B);
- Max. oper. temperature: up to 95 °C
- Ring stiffness class: SN 4



Pipes for outdoor sewage

Size D,mm	Wall thickness, mm	Per package	Code
110 x 500	3,4	20	1100500
110 x 1000	3,4	20	1101000
110 x 2000	3,4	20	1102000
110 x 2500	3,4	20	1102500
110 x 3000	3,4	20	1103000
110 x 5000	3,4	20	1105000
160 x 500	4,9	10	1600500
160 x 1000	4,9	35	1601000
160 x 2000	4,9	35	1602000
160 x 3000	4,9	35	1603000
160 x 5000	4,9	35	1605000
200 x 500	6,2	8	2000500
200 x 1000	6,2	20	2001000
200 x 2000	6,2	20	2002000
200 x 3000	6,2	20	2003000
200 x 5000	6,2	20	2005000

Bend

Size D,mm x	Per box	Per package	Code
110 x 15	40	1	PPH3011015
110 x 30	40	1	PPH3011030
110 x 45	40	1	PPH3011045
110 x 67	35	1	PPH3011067
110 x 87,5	30	1	PPH3011087
160 x 30	12	1	PPH3016030
160 x 45	12	1	PPH3016045
160 x 87,5	10	1	PPH3016087
200 x 45	7	1	PPH3020045
200 x 87,5	5	1	PPH3020087

Eccentric adapter

Size D,mm x	Per box	Per package	Code
110 x 160	33	1	PPH4016011
200 x 110	18	1	PPH4020011
200 x 160	12	1	PPH4020016

Plug

Size D,mm	Per box	Per package	Code
110	30	1	PPH60110
160	10	1	PPH60160
200	20	1	PPH60200

Deflector

Size D,mm	Per box	Per package	Code
160	24	1	9-3003-160-37-01-03



45° tee

Size D,mm	Per box	Per package	Code
110 x 110	15	1	PPH70111145
160 x 110	7	1	PPH70161145
160 x 160	4	1	PPH70161645
200 x 110	5	1	PPH70201145
200 x 160	3	1	PPH700201645
200 x 200	2	1	PPH700202045

T-bend 87.5°

Size D,mm	Per box	Per package	Code
110 x 110	20	1	PPH70111187
160 x 110	8	1	PPH70161187
160 x 160	6	1	PPH70161687
200 x 110	5	1	PPH70201187
200 x 160	4	1	PPH70201687
200 x 200	3	1	PPH70202087

Cross-piece

Size D,mm	Per box	Per package	Code
110 x 110 x 45°	15	1	PPH90111145
110 x 110 x 87,5°	12	1	PPH90111187

Repair coupling

Size D,mm	Per box	Per package	Code
110	60	1	PPH20110
160	18	1	PPH20160
200	8	1	PPH20200

Double-socket coupling

Size D,mm	Per box	Per package	Code
110	60	1	PPH10110
160	18	1	PPH10160
200	8	1	PPH10200

Cleanout pipe

Size D,mm	Per box	Per package	Code
110	25	1	PPH50110
160	6	1	PPH50160

Check valve

Size D,mm	Per box	Per package	Code
110	8	1	PPH80110
160	1	1	PPH80160

O-ring

Size D,mm	Per box	Per package	Code
110*		1	110_BL
160*		1	BL160
200*		1	BL200

**PRO AQUA PROKAN EXTERNAL
 CORRUGATED DOUBLE-LAYER
 POLYPROPYLENE PIPE**

In 2007, PRO AQUA plant started production of an innovative product — PRO AQUA PROKAN corrugated double-layer pipes and fittings made of polypropylene and polyethylene with stiffness SN8 and SN16 for outdoor sewage. It is also possible to manufacture pipes with ring stiffness SN 10, SN 12, SN 14 upon request. These pipes are characterized by elasticity, light weight and high rigidity (they can be used for construction of outdoor sewage networks located under roads). The pipes are about 2-3 times lighter than PVC pipes, 10 times lighter than ceramic pipes, and 25 times lighter than concrete pipes. Therefore, the installation of new systems implies savings of about 20-30% compared to similar systems made of other materials. The company's specialists have developed materials for design. Design solutions portfolio has passed the necessary approvals with Research Institute Mostroy SUE, Mosvodostok SUE, and Mosvodokanal SUE. PROKAN pipes comply with TU 2248-007-16965449-2016 and GOST R 54475-2011. 5 years warranty.



**PRO AQUA PROKAN SN 8 ID double wall pipe
 with socket**

Size ID,mm	Length, mm	Per package	Code
150	6000	1	PPK 00 0150 06
200	6000	1	PPK 00 0200 06
250	6000	1	PPK 00 0250 06
300	6000	1	PPK 00 0300 06
400	6000	1	PPK 00 0400 06
500	6000	1	PPK 00 0500 06
600	6000	1	PPK 00 0600 06
800	6000	1	PPK 00 0800 06
1000	6000	1	PPK 00 1000 06



**PRO AQUA PROKAN SN 10 ID double wall pipe
 with socket**

Size ID,mm	Length, mm	Per package	Code
150	6000	1	
200	6000	1	PPK 10 0200 06
250	6000	1	PPK 10 0250 06
300	6000	1	PPK 10 0300 06
400	6000	1	PPK 10 0400 06
500	6000	1	PPK 10 0500 06
600	6000	1	PPK 10 0500 06
800	6000	1	PPK 10 0800 06
1000	6000	1	PPK 10 1000 06



**PRO AQUA PROKAN SN 16 ID double wall pipe
 with socket**

Size ID,mm	Length, mm	Per package	Code
200	6000	1	PPK 16 0200 06
250	6000	1	PPK 16 0250 06
300	6000	1	PPK 16 0300 06
400	6000	1	PPK 16 0400 06
500	6000	1	PPK 16 0500 06
600	6000	1	PPK 16 0600 06
800	6000	1	PPK 16 0800 06
1000	6000	1	PPK 16 1000 06

PRO AQUA PROKAN SN8 OD PE pipe with socket

Size OD, mm	Length, mm	Per package	Code
110	6000	1	PPK 00 0110 06
160	6000	1	PPK 00 0160 06
200	6000	1	PPK 00 0199 06
250	6000	1	PPK 00 0249 06
315	6000	1	PPK 00 0315 06
400	6000	1	PPK 00 0399 06
500	6000	1	PPK 00 0630 06
630	6000	1	PPK 00 0630 06



PRO AQUA PROKAN SN10 OD pipe with socket

Size OD,mm	Length, mm	Per package	Code
110	6000	1	PPK 10 0110 06
160	6000	1	PPK 10 0160 06
200	6000	1	PPK 10 0199 06
250	6000	1	PPK 10 0249 06
315	6000	1	PPK 10 0315 06
400	6000	1	PPK 10 0399 06
500	6000	1	PPK 10 0499 06
630	6000	1	PPK 10 0630 06



PRO AQUA PROKAN SN16 OD pipe with socket

Size OD, mm	Length, mm	Per package	Code
110	6000	1	PPK 16 0110 06
160	6000	1	PPK 16 0160 06
200	6000	1	PPK 16 0199 06
250	6000	1	PPK 16 0249 06
315	6000	1	PPK 16 0315 06
400	6000	1	PPK 16 0399 06
500	6000	1	PPK 16 0499 06
630	6000	1	PPK 16 0630 06



Eccentric adapter

Standard size	Per box	Per package	Code
ID 250 x 160	1	1	PPK 655. 250160
ID 300 x 150	1	1	PPK 655. 300150
ID 300 x 200	1	1	PPK 655. 300200
ID 600 x 400	1	1	PPK 655. 600400



Adapter for concrete pits

Size D,mm	Per package	Code
150	1	PPK 35 0150
200	1	PPK 35 0200
250	1	PPK 35 0250
300	1	PPK 35 0300
400	1	PPK 35 0400

Shortened adapter for concrete pits

Size D,mm	Per package	Code
150	1	PPK 15 0150
200	1	PPK 15 0200
250	1	PPK 15 0250
300	1	PPK 15 0300
400	1	PPK 15 0400



Connecting coupling

Size D,mm	Per package	Code
150	1	PPK 10 0150
200	1	PPK 10 0200
250	1	PPK 10 0250
300	1	PPK 10 0300
400	1	PPK 10 0400



Cross-piece

Standard size	Per box	Per package	Code SN8	Code SN16
ID 150	1	1	PPK 60 0150 00	-
ID 200	1	1	PPK 60 0200 00	PPK 66 0200 00
ID 250	1	1	PPK 60 0250 00	PPK 66 0250 00
ID 300	1	1	PPK 60 0300 00	PPK 66 0300 00

Tee

Standard size	Per box	Per package	Code SN8	Code SN16
ID 150 x 45°	1	1	PPK 43 0150 45	-
ID 150 x 90°	1	1	PPK 43 0150 90	-
ID 200 x 45°	1	1	PPK 43 0200 45	PPK 46 0200 45
ID 200 x 90°	1	1	PPK 43 0200 90	PPK 46 0200 90
ID 250 x 45°	1	1	PPK 43 0250 45	PPK 46 0250 45
ID 250 x 90°	1	1	PPK 43 0250 90	PPK 46 0250 90
ID 300x90°	1	1	PPK 43 0300 90	PPK 46 0300 90



Transition tee

Standard size	Per box	Per package	Code SN8
ID 150 x 110 x 45°	1	1	PKN. 625.150110
ID 200 x 110 x 90°	1	1	PKN. 625.200110

Attention! Special O-rings can be ordered separately if required.

Bend

Standard size	Per box	Per package	Code SN8	Code SN16
ID 150 x 15°	1	1	PPK 23 0150 15	-
ID 150 x 30°	1	1	PPK 23 0150 30	-
ID 150 x 45°	1	1	PPK 23 0150 45	-
ID 150 x 60°	1	1	PPK 23 0150 60	-
ID 150 x 90°	1	1	PPK 23 0150 90	-
ID 200 x 15°	1	1	PPK 23 0200 15	PPK 26 0200 15
ID 200 x 30°	1	1	PPK 23 0200 30	PPK 26 0200 30
ID 200 x 45°	1	1	PPK 23 0200 45	PPK 26 0200 45
ID 200 x 60°	1	1	PPK 23 0200 60	PPK 26 0200 60
ID 200 x 90°	1	1	PPK 23 0200 90	PPK 26 0200 90
ID 250 x 15°	1	1	PPK 23 0250 15	PPK 26 0250 15
ID 250 x 30°	1	1	PPK 23 0250 30	PPK 26 0250 30
ID 250 x 45°	1	1	PPK 23 0250 45	PPK 26 0250 45
ID 250 x 60°	1	1	PPK 23 0250 60	PPK 26 0250 60
ID 250 x 90°	1	1	PPK 23 0250 90	PPK 26 0250 90
ID 300 x 15°	1	1	PPK 23 0300 15	PPK 26 0300 15
ID 300 x 30°	1	1	PPK 23 0300 30	PPK 26 0300 30
ID 300 x 45°	1	1	PPK 23 0300 45	PPK 26 0300 45
ID 300 x 60°	1	1	PPK 23 0300 60	PPK 26 0300 60
ID 300 x 90°	1	1	PPK 23 0300 90	PPK 26 0300 90



Plug for smooth end

Standard size	Per box	Per package	Code SN8	Code SN16
ID 150	1	1	PKN.634.0150	-
ID 200	1	1	PKN.634.0200	PKN.638.0200
ID 250	1	1	PKN.634.0250	PKN.638.0250
ID 300	1	1	PKN.634.0300	PKN.638.0300
ID 400	1	1	PKN.634.0400	PKN.638.0400



Socket plug

Standard size	Per box	Per package	Code SN8	Code SN16
ID 150	1	1	PKN.664.0150	-
ID 200	1	1	PKN.664.0200	PKN.668.0200
ID 250	1	1	PKN.664.0250	PKN.668.0250
ID 300	1	1	PKN.664.0300	PKN.668.0300
ID 400	1	1	PKN.664.0400	PKN.668.0400



O-ring

Size D, mm	Per box	Per package	Code
150	3000	1	PPK 3290010150
200	2000	20	PPK 3290010200
250	1100	1	PPK 3290010250
300	600	1	PPK 3290010300
400	375	1	PPK 3290010400
500	150	1	PPK 3290010500
600	100	1	PPK 3290010600
800	40	1	PPK 3290010800
1000	20	1	PPK 3290011000



PRO AQUA PRODREN are flexible single-layer corrugated drain pipes and double-layer pipes for drain in sections (stiffness classes: SN6, SN4) used in the construction of buildings and transport infrastructure, landscaping and agriculture, as well as in the construction of sports facilities. In contrast to their analogues made of other materials, plastic drain pipes have a long service life, high strength and resistance to adverse conditions, as well as minimal clogging and siltation when using pipes with a geofilter.

ADVANTAGES OF PRO AQUA PRODREN DRAIN PIPES

Reliability

- Estimated service life is more than 50 years
- High seismic resistance
- Chemical resistance to aggressive media

Easy installation

- Fast to install
- Light weight
- Flexible and elastic even at low temperatures

Safety and environment

- No toxic substances are released into the environment
- No harmful effects on the human body
- Minimal clogging and siltation when using geofilter pipes.

The best quality/price ratio

Quality control for all production stages

TECHNICAL CHARACTERISTICS:

Material: polypropylene/
polyethylene

Technical specifications: TU
2248-006-16965449-2016

Perforation: 360°

Landscape fabric density: 75 g/m²

Operating temperature: from
-40°C to +60°C.

Color: black





SN4 single-layer drain pipe without geofilter

Size D,mm	Length, m	Code
110	50	D105203701
170	40	D105203703
225	25	D105203705



SN4 single-layer drain pipe with geofilter

Size D,mm	Length, m	Code
110	50	D105203702
170	40	D105203704
225	25	D105203706



SN6 double-layer drain pipe without geofilter

Size D,mm	Length, m	Code
110	50	D205203701
170	6	D205203703_06
225	6	D205203705_06



Drain pipe coupling

Size D,mm	Length, m	Code
110	50	D205203702
170	6	D205203704_06
225	6	D205203706_06



Drain pipe tee

Size D,mm	Per box	Per package	Code
110	40	1	PPD 10 0100
170	15	1	PPD 10 0150
225	1	1	PPD 10 0200



Drain pipe tee

Size D,mm	Per box	Per package	Code
10	1	1	PPD 20 0100



Drain pipe plug

Size D,mm	Per box	Per package	Code
110	1	1	PPD 30 0100



Drain pipe bend

Size D,mm	Per box	Per package	Code
110	1	1	PPD 40 0100



Drain landscape fabric

Width, m	Code
1,6	101.000369



Drain pits

Pit diameter DN, mm	Pit height L, mm	Hole	SN 8
300	1000	110	PPK 83 0300 10 110
300	1000	160	PPK 83 0300 10 160
400	1000	110	PPK 83 0400 10 110
400	1000	160	PPK 83 0400 10 160
300	1500	110	PPK 83 0300 15 110
300	1500	160	PPK 83 0300 15 160
400	1500	110	PPK 83 0400 15 110
400	1500	160	PPK 83 0400 15 160
300	2000	110	PPK 83 0300 20 110
300	2000	160	PPK 83 0300 20 160
400	2000	110	PPK 83 0400 20 110
400	2000	160	PPK 83 0400 20 160



Drain pit lip seal

Size D,mm	Per box	Per package	Code
110			124110s
160			101.002655



Drain pit cover

Size D,mm	Per box	Per package	Code
300			101.002645
400			101.002646



Drain pit nozzle

Size D,mm	Per box	Per package	Code
110			925110
160			101.002644

Fastening systems



PRO AQUA PROFIX fasteners and mounting elements are designed for installation of various pipelines, risers, sprinkler and fire systems, air conditioning and ventilation systems, cable laying, etc.

The range of supplied products includes metal clamps with rubber gaskets for fixing heavy pipes of various types and sizes, anchors and dowels for working in all types of materials (including plasterboard, chipboard, hollow materials, concrete, bricks and lightweight building boards), fasteners for window frames and doorways, special anchors and braces for fixing suspended structures, pipelines and cables.

All products are made of high quality galvanized steel, which increases its anti-corrosion properties.

MAIN ADVANTAGES:

- high quality product, reusability;
- possibility of using fasteners for different loads;
- application in various fields of construction;
- versatility and commonality;
- high mechanical strength;
- anti-corrosive coating;
- reliable anchor technology designed for both medium and heavy loads;
- durability and mechanical strength;
- easy and simple installation.

PRO AQUA fasteners have successfully passed certification tests and have received international quality certificates. All products are characterized by their uniformity, variety, easy and simple installation along with their high quality and corrosion protection.



Products comply with the following regulatory documents: GOST 1759.0; GOST 1147

CLAMP DIAMETER SELECTION TABLE

Clamp size		Cast iron sewage pipe		PVC/PP sewage pipe	HDPE/PPR pressure pipe	Steel pipe			Copper pipe
Size	Clamping range, mm	DN, mm	D, mm	D, mm	DN, mm	DN, mm	D, inches	D, mm	DN, mm
1/2"	20-23				20	15	1/2"	21,3	22
3/4"	25-30				25	20	3/4"	26,9	28
1"	32-35			32	32	25	1"	33,7	35
1.1/4"	40-45			40	40	32	1 1/4"	42,4	42
1.1/2"	48-52	40	48	50	50	40	1 1/2"	48,3	48
2"	60-64			63	63	50	2"	60,3	60
2.1/2"	72-78	70	78	75	75	65	2 1/2"	76,1	76,1
3"	87-92			90	90	80	3"	88,9	88,9
4"	110-114	100	110	110	110	100	4"	114,3	114,3
4.1/2"	122-130			125	125			127	125
5"	135 - 143	125	135	140	140	125	5"	139,7	
6"	156-166	150	160	160	160	150	6"	165,1	159
8"	216-225					200		219,1	

Metal clamp completed with nut and screw

Size	D,mm	Nut size	Per box	Code
1/2"	20-23	M8	130	CLS12M08
3/4"	25-30	M8	120	CLS34M08
1"	32-35	M8	100	CLS1M08
1.1/4"	40-45	M8	90	CLS114M08
1.1/2"	48-52	M8	85	CLS112M08
2"	60-64	M8	70	CLS2M08
2.1/2"	72-78	M8	70	CLS212M08
2.1/2"	72-78	M10	70	CLS212M10
3"	87-92	M8	60	CLS3M08
3"	87-92	M10	60	CLS3M10
4"	110-114	M8	25	CLS4M08
4"	110-114	M10	50	CLS4M10
4 1/2"	122-130	M8		CLS412M08
5"	135-143	M10		CLS5M10
6"	156-166	M10	30	CLS6M10
8"	216-225	M10	25	CLS8M10



Metal clamp with nut and rubber profile



Size	D,mm	Nut size	Per box	Code
3/8"	15-19	M8	400	CL38M8
1/2"	20-24	M8	300	CL12M8
3/4"	23-28	M8	280	CL34M8
1"	31-36	M8	200	CL1M8
1.1/4"	38-44	M8	200	CL114M8
1.1/2"	44-50	M8	130	CL112M8
2"	59-65	M8	100	CL2M8
2.1/2"	73-80	M10	150	CL212M10
3"	89-90	M8	140	CL3M8
3"	87-90	M10	140	CL3M10
4"	108-114	M8	140	CL4M8
4"	108-114	M10	100	CL4M10
5"	132-141	M10	70	CL5M10
6"	159-168	M10	60	CL6M10
8"	219-255	M10	50	CL8M10



Threaded stud (metric thread)

Size	Per box	Per package	Code
M8 x 1000	50	1	TROD081000
M8 x 2000	25	1	TROD082000
M10 x 1000	25	1	TROD101000
M10 x 2000	25	1	TROD102000
M12 x 1000	20	1	TROD121000
M12 x 2000	10	10	TROD122000
M14 x 1000	10	10	TROD141000
M16 x 2000	10	10	TROD161000

Long hexagon nut



Size	Per box	Per package	Code
M10 x 30	600	100	NUTEX10030
M12 x 35	600	1	NUTEX12035

Metal suspension clamp



Size	Per box	Per package	Code
3/4"	100	1	PCSPR020
1"	100	1	PCSPR025
1.1/4"	50	1	PCSPR032
1.1/2"	50	1	PCSPR040
2"	50	1	PCSPR050
2.1/2"	25	1	PCSPR065
3"	25	1	PCSPR080
4"	25	1	PCSPR100
5"	25	1	PCSPR125
6"	25	1	PCSPR150
8"	15	1	PCSPR200

Driven anchor



Size	Per box	Per package	Code
M6 x 25	2400	100	ADRP106
M8 x 30	2000	100	ADRP108
M10 x 40	800	50	ADRP110
M12 x 50	400	50	ADRP112
M16 x 65	200	25	ADRP116

Stud screw



Size	Per box	Per package	Code
M8 x 80	1000	100	SCRD08080
M8 x 100	1000	100	SCRD08100
M8 x 120	800	80	SCRD08120
M10 x 100	500	50	SCRD10100



Bushing anchor

Size	Per box	Per package	Code
M8 x 57	2400	120	ADRWI08
M10 x 63	1000	100	ADRWI10
M12 x 75	300	25	ADRWI12

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