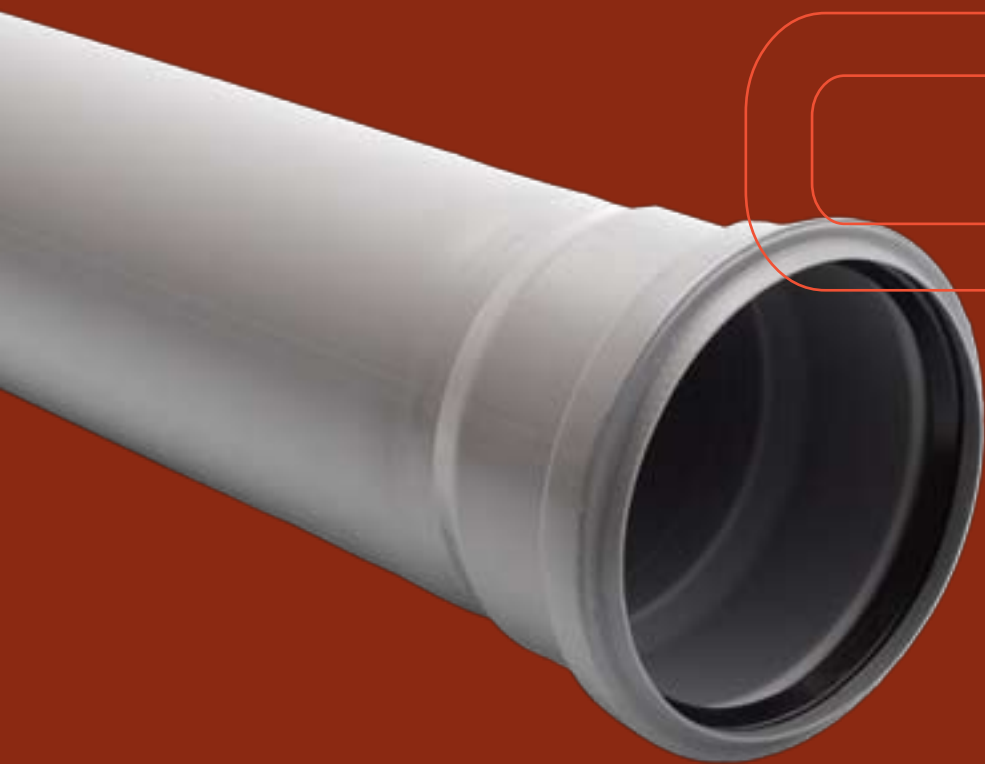


House sewage systems

Argonomy of house sewage systems:
because tidiness and care start at home



ARGO d.o.o. is a Slovenian company established in 1990. We deal with manufacturing and trade activities. Initially it was engaged in designing and production of specialised nautical equipment, deck equipment of vessels for recreational and competitive sailing. Today the sailing boat production represents 5% of the whole production.

In 1991 we added a programme of house sewage systems to the nautical programme. The programme of the production of pipes and polypropylene fittings has successfully expanded and soon surpassed the nautical programme. Today it represents as much as 70% of the production. Argo is a manufacturer of sanitary plastic products with the most wide-ranging programme in the country. The quality of our products is second to none in Slovenia and we are also successfully proving our worth in the markets of Western and Eastern Europe.

In 2001 we launched the third programme: the programme of polyethylene cable ducts which currently represents 25% of our production.

We are operating on an area of 17,000 m², 4,000 m² of those are covered.

Yearly we produce approximately 1,000 tons of polyethylene and 3,000 tons of polypropylene. We also offer our clients a comprehensive programme of pipe systems including pipes and fittings for house sewage systems, street sewage systems, drainage, plumbing etc.

Despite the fact that we are already successful in our activities we do not intend to rest. We are expanding, complementing and improving our offer. So it is no coincidence that we named our company Argo. In mythology Argo was the name of Jason's ship that carried the fearless and daring sailors into the unknown world to find the Golden Fleece. Daring, boldness and the desire to make new discoveries is the entrepreneurial spirit of the Argonauts that also pervades our company. This is why we constantly expand and upgrade our manufacturing capacities, invest in professional training, follow the world trends and develop innovative solutions.

All this enables us to reach our most important goal: the satisfaction of our customers. We strive to offer our every client not just products of high quality but also solutions that are tailored for the client's specific needs and wishes. Following this mission is also the best guarantee for an even greater success on the broader European market, including Slovenia.

Polypropylene – a modern story of success

Polypropylene is a polymer with no odour and colour, which is slightly transparent to opaque and can be coloured in an easy way and in multiple hues. Its most important properties are high bruising resistance and resistance to most chemical substances, it is highly resistant to physical damage, detergents and tensioactive materials even at high temperatures, to dissolved inorganic substances in water, low-concentration inorganic acids, basic solutions, alcohols and some oils. But it is not resistant to strong oxidising agents, chlorine sulphuric acid, 100% oleum, to evaporating nitrate acid and to halogen hydrocarbons. It is also not suitable for adhesives.

It is resistant to almost every acid, base or salt even in high concentrations or in temperatures above 60°C. It also excels at being resistant to working temperatures, at washing away effluents because of a smooth inner wall, a great stable shape and good insulation. It only absorbs minimum quantities of water (less than 0.02%) And only on the surface layer.

To the pure raw material we can, at our client's request, add additives to achieve the desired effect – for example halogens (bromides) are added for self-extinguishing, and better resistance to low temperatures can be achieved through co-polymerisation with other olefines (most frequently with ethylene).

There are various types of polypropylene with different molecular structure, for industrial purposes, however, only the isotactic polymer is relevant. It is used to produce pipes and fittings used in house sewage systems to drain away domestic and faecal sewage and rain water in buildings.

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- 02 Pipes, connectors, gaskets
 - Proper use of pipes and connecting elements
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Advantages of Argo pipe system

- a wide-ranging selection of fittings in various diameters, lengths and shapes enable the fastest and the most economical installation
- simple installation – no expensive adhesives and kits necessary
- easy to repair and potentially replace
- the manner of connecting and a wide range of special fittings allow for an easy and fast connection of various pipes
- highly stable pipe shapes allow for an effective, functional, long-lasting and safe connection to a rubber gasket
- impact resistance
- excellent resistance to boiling water effluents from washing machines and dishwashers
- the surface structure allows for drainage of waste water without formation of crusts and sediments
- lower condensation due to a low thermal conductivity

Pipes, sockets, connectors, gaskets

Gaskets made of elastomer are already pre-installed in the suitable canal in the socket of the bottom part. They are made from materials that provide the best possible sealing, are the safest and have a lifetime equal to pipes and fittings. They comply with the conditions, methodology and frequency of control in accordance with standard EN 1451.

Argo can also provide you with numerous special elements needed for removing various installation problems: connectors made from various materials, special reducer elements including small sized reducer elements etc.

Be careful: Do not expose the gaskets to direct sunlight because they are not UV-stabilised.

Proper use of pipes and connecting elements

A professional installer of the fitting should plan and estimate every detail of the sewage system beforehand.

If a sewage system is to be installed outside the building, you should – before excavating – foresee a possibility of an unequal load on a part or parts of pipes due to possible eventual terrain subsidence. In these cases, we recommend that you excavate in a straight line with bends that enable the installation of special elements with specific angles (15°, 30°, 45° etc.). We also recommend that you line the bottom of the excavation with a smooth concrete base with a suitable incline and with suitable pipe holders to prevent pipe load only on the area of connectors.

Vertical fitting should pose no problem because the installation procedure is simplified by the connector sockets that function as dilation clips. Installations can be mounted in two ways:

- lay the pipe conduit so that the clips are cemented in the concrete slab of a storey:

- no additional securing is needed
- any pipe elongation under the concrete slab will be absorbed by the connector in the lower storey without any shear load in the dilution element.
- to compensate for the elongation it is essential to determine the eventual pipe dilation beforehand
- place a clamp in each storey to secure the pipes so that sliding is possible
- as a free pipe conduit, for example in the auxiliary shaft;

Ensure the primary ventilation by extending the drainage pipe through the ceiling of the top storey in the building. The diameter of the ventilation pipe above the last drainage point should be equal to the diameter of the drainage pipe (usually 110mm). Special muzzle protection above the ventilation pipe is not necessary, however, be sure to provide a protection that will prevent the snow covering the muzzle in wintertime.

As a rule this system is used for lower buildings. It could also be called installation with venting. In some cases it reduces or removes siphon effects due to vacuum, however it does not remove the siphon effects due to compression (pressure).

We also recommend that you follow the instructions below:



For pipe elongation, use a saw with fine teeth; saw so that the cut is at a right angle



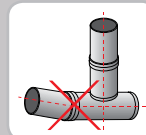
Brush the pipe ends with a special device or with a fine filer and deburr them at the angle of 15°; the surface of the brushed part must be smooth, because this is the only way to prevent damage to the peripheral gasket in the neck of the pipe into which you will be inserting the new pipe.



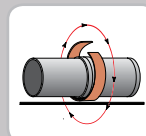
The ends of connecting elements should never be cut/shortened because the connector becomes unreliable.



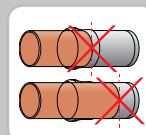
Always check the inside of the pipe socket, gasket and the new pipe end; interperse the connectors with a material that allows sliding – soap water is also an option, but do not use mineral oil or grease.



Prevent excessive pipe movement as this can reduce the reliability of the pipe connector, and render the sealing incomplete.



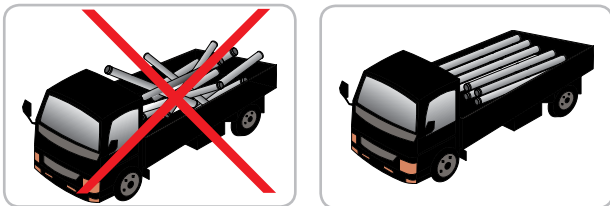
We recommend that you cover the connectors so that the gaskets are protected from concrete which can damage them.



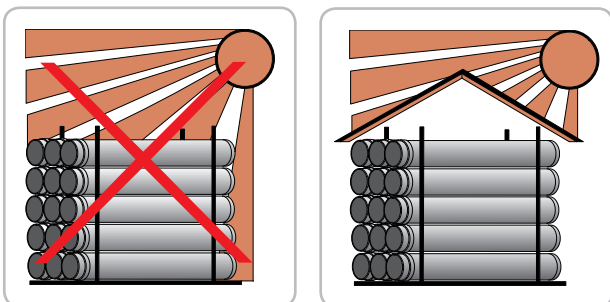
Insert the pipes in the socket – in the bottom part suitably deep; determine the depth in accordance with the necessary expansion joint; if the pipe is not inserted deep enough the sealing will not be complete; however, if it is inserted too deep you will prevent pipe elongation.

Transport and storing

Transport and store with care. Before transportation: pipes should be loaded horizontally and in a way that prevents crossing. The best option is to load the pipes onto pallets before transport. Insert the pipes into spacers in order to prevent them from damage.



The optimal storage facilities for pipes and fittings are closed or at least covered spaces that are protected against low temperatures, direct sunlight and other weather influences. This is especially important when temperatures drop below 0°C as, because of their structure, all polymers, even polypropylene, become brittle and less flexible. The best way to store pipes is to stack them horizontally on pallets. Do not stack them higher than 1.7m. The pipes should not be stored on the open and exposed to sun for more than 12 months.



Certificates



PRODUCT – PP PIPES AND CONNECTING ELEMENTS

PP PIPES

Ø (mm) L (mm) EAN code Unit units per band units per palette

PP PIPE WITH ONE SOCKET HTEM



32	250	383 10205 0301 4	pcs	30	4500
32	500	383 10205 0303 8	pcs	30	3000
32	1000	383 10205 0073 0	pcs	30	600
32	1500	383 10205 0074 7	pcs	10	600
32	2000	383 10205 0075 4	pcs	10	600
32	3000	383 10205 0070 9	pcs	10	600
40	250	383 10205 0300 7	pcs	30	2880
40	500	383 10205 0302 1	pcs	30	1920
40	1000	383 10205 0305 2	pcs	30	600
40	1500	383 10205 0306 9	pcs	10	600
40	2000	383 10205 0308 3	pcs	10	600
40	2500	383 10205 0309 0	pcs	10	600
40	3000	383 10205 0307 6	pcs	10	600
50	250	383 10205 0310 6	pcs	30	2520
50	500	383 10205 0312 0	pcs	30	1440
50	1000	383 10205 0314 4	pcs	30	400
50	1500	383 10205 0316 8	pcs	10	400
50	2000	383 10205 0318 2	pcs	10	400
50	2500	383 10205 0320 5	pcs	10	400
50	3000	383 10205 0322 9	pcs	10	400
75	250	383 10205 0330 4	pcs	10	1080
75	500	383 10205 0332 8	pcs	10	720
75	1000	383 10205 0334 2	pcs	10	210
75	1500	383 10205 0335 9	pcs	10	210
75	2000	383 10205 0348 9	pcs	10	210
75	2500	383 10205 0349 6	pcs	10	210
75	3000	383 10205 0340 3	pcs	10	210
110	250	383 10205 0342 7	pcs	10	600
110	500	383 10205 0344 1	pcs	10	400
110	1000	383 10205 0346 5	pcs	10	100
110	1500	383 10205 0347 2	pcs	10	100
110	2000	383 10205 0350 2	pcs	10	100
110	2500	383 10205 0352 6	pcs	10	100
110	3000	383 10205 0354 0	pcs	10	100
110	4000	383 10205 0356 4	pcs	10	100
125	250	383 10205 0390 8	pcs	8	560
125	500	383 10205 0380 9	pcs	8	320
125	1000	383 10205 0381 6	pcs	8	64
125	1500	383 10205 0391 5	pcs	8	64
125	2000	383 10205 0382 3	pcs	8	64
125	2500	383 10205 0392 2	pcs	8	64
125	3000	383 10205 0383 0	pcs	8	64
125	4000	383 10205 0384 7	pcs	1	64
160	250	383 10205 0395 3	pcs	6	288
160	500	383 10205 0385 4	pcs	6	192
160	1000	383 10205 0386 1	pcs	6	48
160	1500	383 10205 0397 7	pcs	6	48
160	2000	383 10205 0387 8	pcs	6	48
160	2500	383 10205 0394 6	pcs	6	48
160	3000	383 10205 0388 5	pcs	1	48
160	4000	383 10205 0389 2	pcs	1	48

PRODUCT – PP PIPES AND CONNECTING ELEMENTS

PP PIPES	Ø (mm)	L (mm)	EAN code	Unit	units per band	units per palette
 PIPE WITH TWO SOCKETS HTDM	32	500	383 10205 0050 1	pcs	30	2550
	32	1000	383 10205 0051 8	pcs	30	600
	32	1500	383 10205 0052 5	pcs	10	600
	32	2000	383 10205 0053 2	pcs	10	600
	32	3000	383 10205 0054 9	pcs	10	600
	40	500	383 10205 0800 2	pcs	30	1440
	40	1000	383 10205 0802 6	pcs	30	600
	40	1500	383 10205 0804 0	pcs	10	600
	40	2000	383 10205 0806 4	pcs	10	600
	40	3000	383 10205 0808 8	pcs	10	600
	50	500	383 10205 0810 1	pcs	30	1080
	50	1000	383 10205 0812 5	pcs	30	400
	50	1500	383 10205 0814 9	pcs	10	400
	50	2000	383 10205 0816 3	pcs	10	400
	50	3000	383 10205 0818 7	pcs	10	400
	75	500	383 10205 0820 0	pcs	10	540
	75	1000	383 10205 0822 4	pcs	10	210
	75	1500	383 10205 0824 8	pcs	10	210
	75	2000	383 10205 0826 2	pcs	10	210
	75	3000	383 10205 0828 6	pcs	10	210
	110	500	383 10205 0830 9	pcs	10	300
	110	1000	383 10205 0832 3	pcs	10	100
	110	1500	383 10205 0834 7	pcs	10	100
	110	2000	383 10205 0836 1	pcs	10	100
	110	3000	383 10205 0838 5	pcs	10	100
	125	500	383 10205 0058 7	pcs	8	240
	125	1000	383 10205 0059 4	pcs	8	64
	125	1500	383 10205 0060 0	pcs	8	64
	125	2000	383 10205 0061 7	pcs	8	64
	125	3000	383 10205 0062 4	pcs	8	64
	160	1000	383 10205 0909 2	pcs	6	48
	160	2000	383 10205 0910 8	pcs	6	48
	160	3000	383 10205 0911 5	pcs	6	48

PRODUCT – PP PIPES AND CONNECTING ELEMENTS

PP SHAPED ELEMENTS AND ACCESSORIES

	Ø (mm)	Ø2 (mm)	EAN code	Unit	units per bag	units per box
BEND HTB 15° 	32		383 10205 0034 1	pcs	250	50
	40		383 10205 0076 1	pcs	150	50
	50		383 10205 0081 5	pcs	100	20
	75		383 10205 0037 2	pcs		20
	90		383 10205 0010 5	pcs		20
	110		383 10205 0091 4	pcs	35	20
	125		383 10205 0098 3	pcs		20
	160		383 10205 0103 4	pcs		10
BEND HTB 30° 	32		383 10205 0035 8	pcs	250	50
	40		383 10205 0077 8	pcs	150	50
	50		383 10205 0082 2	pcs	100	20
	75		383 10205 0038 9	pcs		20
	90		383 10205 0011 2	pcs		20
	110		383 10205 0092 1	pcs	30	20
	125		383 10205 0099 0	pcs		20
	160		383 10205 0104 1	pcs		10
BEND HTB 45° 	32		383 10205 0071 6	pcs	250	50
	40		383 10205 0078 5	pcs	150	50
	50		383 10205 0083 9	pcs	100	20
	75		383 10205 0086 0	pcs		20
	90		383 10205 0012 9	pcs		20
	110		383 10205 0093 8	pcs	30	20
	125		383 10205 0096 9	pcs	25	20
	160		383 10205 0101 0	pcs	10	10
BEND HTB 67° 	32		383 10205 0036 5	pcs	250	50
	40		383 10205 0079 2	pcs	150	50
	50		383 10205 0084 6	pcs	100	20
	75		383 10205 0039 6	pcs		20
	90		383 10205 0013 6	pcs		20
	110		383 10205 0094 5	pcs	25	20
	125		383 10205 0105 8	pcs		20
	160		383 10205 0087 0	pcs		10
BEND HTB 87° 	32		383 10205 0072 3	pcs	250	50
	40		383 10205 0080 8	pcs	150	50
	50		383 10205 0085 3	pcs	100	20
	75		383 10205 0087 7	pcs	30	20
	90		383 10205 0014 3	pcs		20
	110		383 10205 0095 2	pcs	25	20
	125		383 10205 0097 6	pcs	20	20
	160		383 10205 0102 7	pcs	9	10
BRANCH FITTING HTEA 45° – SINGLE 	32	32	383 10205 0111 9	pcs	120	20
	40	40	383 10205 0114 0	pcs	70	20
	50	50	383 10205 0117 1	pcs	40	20
	75	75	383 10205 0120 1	pcs	30	20
	90	90	383 10205 0015 0	pcs		20
	110	110	383 10205 0123 2	pcs	12	20
	125	125	383 10205 0126 9	pcs	9	20
	160	160	383 10205 0129 4	pcs	5	10

PRODUCT – PP PIPES AND CONNECTING ELEMENTS							
PP SHAPED ELEMENTS AND ACCESSORIES	Ø (mm)	Ø1 (mm)	Ø2 (mm)	EAN code	Unit	units per bag	units per box
BRANCH FITTING HTEA 67° – SINGLE 	32	32		383 10205 0041 9	pcs		40
	40	40		383 10205 0042 6	pcs	70	20
	50	50		383 10205 0043 3	pcs	50	20
	110	110		383 10205 0045 7	pcs	15	20
BRANCH FITTING HTEA 87° – SINGLE 	32	32		383 10205 0112 6	pcs	120	20
	40	40		383 10205 0115 7	pcs	70	20
	50	50		383 10205 0118 8	pcs	50	20
	75	75		383 10205 0121 8	pcs	45	20
	90	90		383 10205 0016 7	pcs		20
	110	110		383 10205 0124 9	pcs	15	20
	125	125		383 10205 0127 0	pcs	10	10
	160	160		383 10205 0130 0	pcs	5	10
BRANCH FITTING HTEA 45° – REDUCED 	50	40		383 10205 0132 4	pcs	50	20
	75	50		383 10205 0134 8	pcs	45	20
	90	40		383 10205 0021 1	pcs		20
	90	50		383 10205 0019 8	pcs		20
	90	75		383 10205 0017 4	pcs		20
	110	40		383 10205 0047 1	pcs	25	20
	110	50		383 10205 0137 9	pcs	25	20
	110	75		383 10205 0140 9	pcs	15	20
	110	90		383 10205 0871 2	pcs		20
	125	110		383 10205 0143 0	pcs	10	10
	160	110		383 10205 0146 1	pcs	7	10
	160	125		383 10205 0148 5	pcs	6	10
BRANCH FITTING HTEA 67° – REDUCED 	75	50		383 10205 0872 9	pcs		20
	110	50		383 10205 0044 0	pcs	25	20
	110	75		383 10205 0873 6	pcs		20
BRANCH FITTING HTEA 87° REDUCED 	50	40		383 10205 0133 1	pcs		20
	75	50		383 10205 0135 4	pcs	50	20
	90	40		383 10205 0022 8	pcs		20
	90	50		383 10205 0020 4	pcs		20
	90	75		383 10205 0018 1	pcs		20
	110	40		383 10205 0046 4	pcs	25	20
	110	50		383 10205 0138 6	pcs	25	20
	110	75		383 10205 0141 6	pcs	20	20
	110	90		383 10205 0874 3	pcs		20
	125	110		383 10205 0144 7	pcs	12	10
	160	110		383 10205 0147 8	pcs	7	10
	160	125		383 10205 0149 2	pcs	6	10
DOUBLE BRANCH FITTING HTDA 45° 	50	50	50	383 10205 0670 1	pcs	30	10
	75	50	50	383 10205 0590 2	pcs	30	10
	75	75	75	383 10205 0674 9	pcs	20	10
	110	50	50	383 10205 0679 4	pcs	20	10
	110	110	110	383 10205 0420 2	pcs	8	10
DOUBLE BRANCH FITTING HTDA 87° 	50	50	50	383 10205 0671 8	pcs	30	10
	75	50	50	383 10205 0591 9	pcs	30	10
	75	75	75	383 10205 0675 6	pcs	20	10
	110	50	50	383 10205 0680 0	pcs	20	10
	110	110	110	383 10205 0685 5	pcs	10	10

PRODUCT – PP PIPES AND CONNECTING ELEMENTS

PP SHAPED ELEMENTS AND ACCESSORIES

Ø (mm)	Ø1 (mm)	Ø2 (mm)	EAN code	Unit	units per bag	units per box
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DOUBLE BRANCH FITTING HTED 67° – CORNER

110	110	110	383 10205 0058 7	pcs	1	10
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ACCESS PIPE HTRE

50			383 10205 0206 2	pcs	40	20
75			383 10205 0207 9	pcs	45	20
90			383 10205 0023 5	pcs		20
110			383 10205 0208 6	pcs	15	20
125			383 10205 0209 3	pcs	15	20
160			383 10205 0210 9	pcs	8	10



SLIDE COUPLER HTU

32			383 10205 0212 3	pcs	300	50
40			383 10205 0213 0	pcs	150	50
50			383 10205 0214 7	pcs	100	20
75			383 10205 0215 4	pcs	40	20
90			383 10205 0024 2	pcs		20
110			383 10205 0216 1	pcs	35	20
125			383 10205 0217 8	pcs	25	20
160			383 10205 0219 2	pcs	15	10



CONNECTOR WITH EDGE HTMM

32			383 10205 0048 8	pcs	300	50
40			383 10205 0401 1	pcs	150	50
50			383 10205 0402 8	pcs	100	20
75			383 10205 0403 5	pcs	40	20
90			383 10205 0025 9	pcs		20
110			383 10205 0404 2	pcs	35	20
125			383 10205 0405 9	pcs	25	20
160			383 10205 0049 5	pcs	15	10



ECCENTRIC REDUCER HTR

40	32		383 10205 0189 8	pcs	200	20
50	32		383 10205 0190 4	pcs	200	20
50	40		383 10205 0191 1	pcs	150	50
75	50		383 10205 0192 8	pcs	60	20
90	40		383 10205 0033 4	pcs		20
90	50		383 10205 0032 7	pcs		20
90	75		383 10205 0031 0	pcs		20
110	50		383 10205 0194 2	pcs	50	20
110	75		383 10205 0195 9	pcs	50	20
110	90		383 10205 0030 3	pcs		20
125	110		383 10205 0198 0	pcs	30	20
160	110		383 10205 0201 7	pcs	30	20
160	125		383 10205 0202 4	pcs	30	20



ECCENTRIC REDUCER HTR – SHORT

40	32		383 10205 0056 3	pcs		50
50	40		383 10205 0057 0	pcs		50
110	40		383 10205 0055 6	pcs		20
110	50		383 10205 0892 7	pcs		20
110	90		383 10205 0893 4	pcs		20



PRODUCT – PP PIPES AND CONNECTING ELEMENTS							
PP SHAPED ELEMENTS AND ACCESSORIES	Ø (mm)	Ø1 (mm)	Ø2 (mm)	EAN code	Unit	units per bag	units per box
ECCENTRIC REDUCER HTRR – REVERSED 	32	40		383 10205 0894 1	pcs		50
	40	50		383 10205 0895 8	pcs		50
	75	110		383 10205 0896 5	pcs		20
	110	125		383 10205 0897 2	pcs		20
SIPHON BEND HTSW 	40			383 10205 0106 5	pcs	150	50
	50			383 10205 0108 9	pcs	100	20
CLOSING CAP HTM 	32			383 10205 0248 8	pcs	1000	100
	40			383 10205 0225 3	pcs	600	100
	50			383 10205 0226 0	pcs	400	50
	75			383 10205 0227 7	pcs	200	20
	90			383 10205 0088 4	pcs		20
	110			383 10205 0228 4	pcs	80	20
	125			383 10205 0229 1	pcs	60	20
	160			383 10205 0249 5	pcs	30	10
VENTILATION CAP –SHORT KADH 	50			383 10205 0221 5	pcs	40	10
	75			383 10205 0222 2	pcs	35	5
	110			383 10205 0223 9	pcs	15	5
	125			383 10205 0898 9	pcs	20	
	160			383 10205 0899 6	pcs	10	
VENTILATION CAP – LONG KADH 	50			383 10205 0900 9	pcs		10
	75			383 10205 0901 6	pcs		5
	110			383 10205 0902 3	pcs		5
CONNECTOR HTLL – LONG 	40			383 10205 0026 6	pcs		20
	50			383 10205 0027 3	pcs		20
	75			383 10205 0028 0	pcs		20
	90			383 10205 0891 0	pcs		20
	110			383 10205 0029 7	pcs		20
DOUBLE SIPHON BEND HTSDW 	40	50	40	383 10205 0110 2	pcs		20

PRODUCT – PP PIPES AND CONNECTING ELEMENTS

PP SHAPED ELEMENTS AND ACCESSORIES			Ø (mm)	Ø1 (mm)	Ø2 (mm)	de- scrip- tion	EAN code	Unit	units per box
	WC BEND HTB 87° – GRAY		110	50		L	383 10205 0160 7	pcs	10
			110	50		D	383 10205 0875 0	pcs	10
			110	40		L	383 10205 0155 3	pcs	10
			110	40		D	383 10205 0876 7	pcs	10
			110	50		Z	383 10205 0156 0	pcs	10
			110	40		Z	383 10205 0157 7	pcs	10
			110	50	50	DV	383 10205 0161 4	pcs	10
			110	40	40	DV	383 10205 0162 1	pcs	10
	WC BEND HTSB 87° WHITE, LOW		110				383 10205 0877 4	pcs	10
			110	50		L	383 10205 0878 1	pcs	10
			110	50		D	383 10205 0879 8	pcs	10
			110	40		L	383 10205 0880 4	pcs	10
			110	40		D	383 10205 0881 1	pcs	10
			110	50	50	DV	383 10205 0882 8	pcs	10
			110	40	40	DV	383 10205 0883 5	pcs	10
	WC BEND HTSB 87° WHITE, HIGH		110				383 10205 0884 2	pcs	10
			110	50		L	383 10205 0885 9	pcs	10
			110	50		D	383 10205 0886 6	pcs	10
			110	40		L	383 10205 0887 3	pcs	10
			110	40		D	383 10205 0888 0	pcs	10
			110	50	50	DV	383 10205 0889 7	pcs	10
			110	40	40	DV	383 10205 0890 3	pcs	10
			110	120			383 10205 0159 1	pcs	
	WC CONNECTOR WITH GASKET HTSK								
	SIPHON GASKET		50	32			383 10205 0233 8	pcs	210
			50	40			383 10205 0234 5	pcs	210
	FLOOR SIPHONS	HORIZONTAL SINGLE	110 /50/1/1				383 10205 0265 9	pcs	
		FLOW-THROUGH	110 /50/2/2				383 10205 0266 6	pcs	
		SINGLE	130 /50/1/1				383 10205 0268 0	pcs	
		FLOW-THROUGH	130 /50/2/2				383 10205 0269 7	pcs	
		VERTICAL	150X150/50				383 10205 0163 8	pcs	
			200X200/75				383 10205 0164 5	pcs	
			250X250/75				383 10205 0903 0	pcs	
			250X250/110				383 10205 0904 7	pcs	
			300X300/75				383 10205 0905 4	pcs	
			300X300/110				383 10205 0906 1	pcs	

PRODUCT – PP PIPES AND CONNECTING ELEMENTS					
PP SHAPED ELEMENTS AND ACCESSORIES		Ø (mm)	Ø2 (mm)	EAN code	Unit units per box
PIPE CLAMPS 		32		383 10205 0907 8	pcs 40
		40		383 10205 0908 5	pcs 40
		50		383 10205 0707 4	pcs 40
		75		383 10205 0709 8	pcs 40
		110		383 10205 0711 1	pcs 30
LABIRINT GASKET 		32		383 10205 0231 4	pcs
		40		383 10205 0235 2	pcs
		50		383 10205 0236 9	pcs
		75		383 10205 0237 6	pcs
		110		383 10205 0238 3	pcs
		125		383 10205 0239 0	pcs
WC GASKETS 	WC CONNECTOR	110		383 10205 0271 0	pcs
	UNIVERSAL	110		383 10205 0272 7	pcs
	ART. 03	110		383 10205 0273 4	pcs
	ART. 04	110		383 10205 0274 1	pcs
	HIGH	110		383 10205 0275 8	pcs
	LOW	110		383 10205 0276 5	pcs
MGN GREASE 250 gr		250 gr		383 10205 0279 6	pcs 50
					
JUVIDUR PIPE 		15	20	383 10205 0280 2	pcs
		20	25	383 10205 0281 9	pcs
		22	27	383 10205 0912 2	pcs
		25	32	383 10205 0282 6	pcs
		28	32	383 10205 0283 3	pcs

Technical data

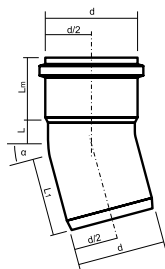
PIPES AND SHAPED ELEMENTS

POLYPROPENE SHAPED ELEMENTS

sizes in mm

HTB d/15°

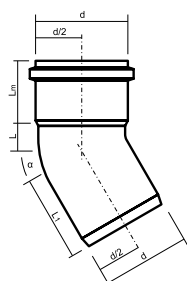
BEND



d	32	40	50	110
a	15°	15°	15°	15°
L	51	63	60	82
L1	47	55	57	77
Lm	53	53	52	70

HTB d/30°

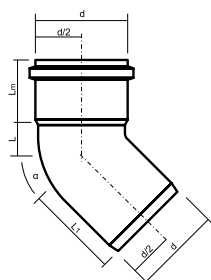
BEND



d	32	40	50	110
a	30°	30°	30°	30°
L	53	60	61	90
L1	48	57	59	77
Lm	42	53	52	67

HTB d/45°

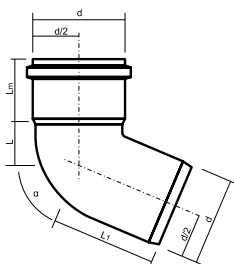
BEND



d	32	40	50	75	110	125	160
a	45°	45°	45°	45°	45°	45°	45°
L	145	170	183	225	287	320	411
L1	48	54	53	62	63	71	88
Lm	45	54	52	57	65	70	85

HTB d/67°

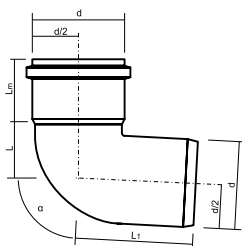
BEND



d	32	40	50	110
a	67°30'	67°30'	67°30'	67°30'
L	58	69	69	105
L1	53	64	66	100
Lm	44	53	53	68

HTB d/87°

BEND



d	32	40	50	75	110	125	160
a	87°30'	87°30'	87°30'	87°30'	87°30'	87°30'	87°30'
L	25	25	32	46	62	72	92
L1	64	70	78	108	124	136	155
Lm	42	47	48	57	68	70	86

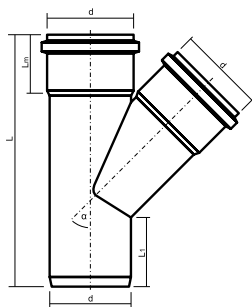
PIPES AND SHAPED ELEMENTS

POLYPROPENE SHAPED ELEMENTS

order number

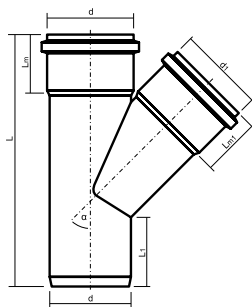
sizes in mm

HTEA d/ d/45°

SINGLE BRANCH
FITTING

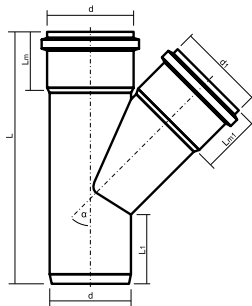
d	32	40	50	75	110	125	160
a	45°	45°	45°	45°	45°	45°	45°
L	145	170	183	225	287	320	411
L1	48	54	53	62	63	71	88
Lm	45	54	52	57	65	70	85

HTEA d/ d1/ 45°

SINGLE
REDUCED
BRANCH
FITTING

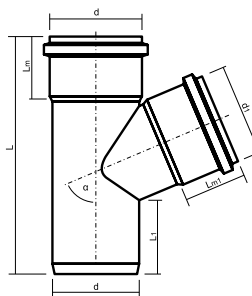
d	50	75	110	110	110	125	160
d1	40	50	40	50	75	110	110
a	45°	45°	45°	45°	45°	45°	45°
L	167	193	200	200	239	301	342
L1	52	60	68	65	66	71	94
Lm	52	55	68	60	65	64	85
Lm1	55	52	53	50	55	61	69

HTEA d/ d1/ 45°

SINGLE
REDUCED
BRANCH
FITTING

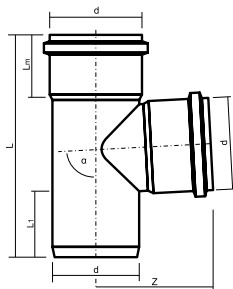
d	160
d1	125
a	45°
L	370
L1	94
Lm	85
Lm1	70

HTEA d/ d1/ 67°

SINGLE
BRANCH
FITTING and
SINGLE
REDUCED
BRANCH
FITTING

d	40	50	110	110
d1	40	50	110	50
a	67°30'	67°30'	67°30'	67°30'
L	153	164	260	185
L1	51	54	70	60
Lm	53	52	65	65
Lm1				50

HTEA d/ d1/ 87°

SINGLE
BRANCH
FITTING

d	42	40	50	75	110	125	160
a	87°30'	87°30'	87°30'	87°30'	87°30'	87°30'	87°30'
L	130	153	160	195	241	269	340
L1	47	56	52	59	60	68	86
Lm	45	53	51	57	66	70	85
Z	69	80	85	103	133	146	187

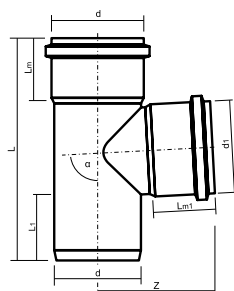
PIPES AND SHAPED ELEMENTS

POLYPROPENE SHAPED ELEMENTS

order number

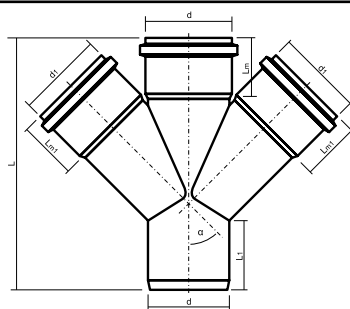
sizes in mm

HTEA d/d/87°

SINGLE
REDUCED
BRANCH FITTING

d	75	110	110	110	125	160	160
d1	50	40	50	75	110	110	125
a	87°30'	87°30'	87°30'	87°30'	87°30'	87°30'	87°30'
L	179	185	188	212	208	292	322
L1	62	68	70	70	72	90	95
Lm	57	69	61	62	70	85	85
Lm1	52	55	50	56	70	70	70

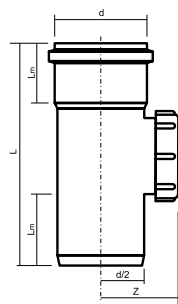
HTDA d/d1/d1/45°

DOUBLE
BRANCH
FITTING

d	110	110
d1	50	110
a	45°	45°
L	215	300
L1	68	70
Lm	68	69
Lm1	52	69

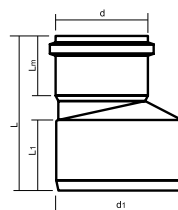
HTRE d

ACCESS PIPE



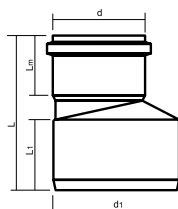
d	50	75	110	125	160
L	195	210	257	268	292
L1	52	62	70	78	90
Lm	54	57	68	73	85
Z	61	73	96	103	127

HTR d1/d

ECCENTRIC
PIECE

d	32	32	40	50	50	75	110
d1	40	50	50	75	110	110	125
L	96	89	109	128	130	146	158
L1	45	36	53	65	68	65	73
Lm	42	36	44	50	50	55	71

HTR d1/d

ECCENTRIC
PIECE

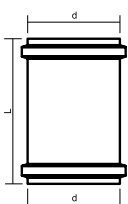
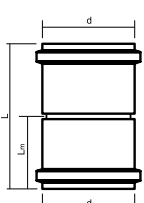
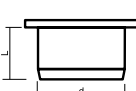
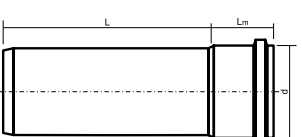
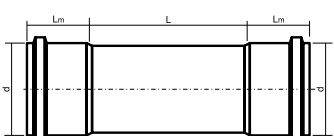
d	110	125
d1	160	160
L	174	170
L1	88	85
Lm	69	70

PIPES AND SHAPED ELEMENTS

POLYPROPENE SHAPED ELEMENTS

order number

sizes in mm

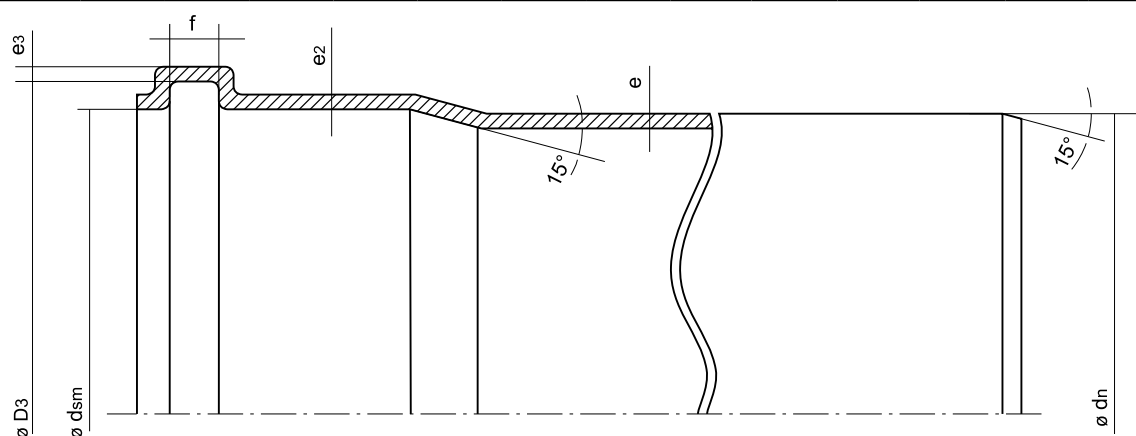
HTU d	SLIDE COUPLER		d	32	40	50	75	110	125	160
			L	86	110	116	122	150	166	180
HTMM d	CONNECTOR WITH EDGE		d	32	40	50	75	110	125	160
			L	86	110	116	122	150	166	180
			Lm	43	55	58	61	75	83	90
HTM d	CLOSING CAP		d	32	40	50	75	110	125	160
			L	31	33	31	34	37	42	48
HTEM d/L	PIPE WITH SINGLE neck SOCKET		d	32	40	50	75	110	125	160
			Lm	50	53	54	57	65	69	82
			L	250	250	250	250	250	250	250
				500	500	500	500	500	500	500
				1000	1000	1000	1000	1000	1000	1000
				1500	1500	1500	1500	1500	1500	1500
				2000	2000	2000	2000	2000	2000	2000
				2500	2500	2500	2500	2500	2500	2500
				3000	3000	3000	3000	3000	3000	3000
						4000	4000	4000	4000	4000
							6000	6000	6000	6000
HTDM d/L	PIPE WITH TWO SOCKETS		d	32	40	50	75	110	125	160
			Lm	50	53	54	57	65	69	82
			L	250	250	250	250	250	250	250
				500	500	500	500	500	500	500
				1000	1000	1000	1000	1000	1000	1000
				1500	1500	1500	1500	1500	1500	1500
				2000	2000	2000	2000	2000	2000	2000
				2500	2500	2500	2500	2500	2500	2500
				3000	3000	3000	3000	3000	3000	3000
						4000	4000	4000	4000	4000
							6000	6000	6000	6000

PIPES AND SHAPED ELEMENTS

POLYPROPENE SHAPED ELEMENTS

sizes and allowances of pipes and connecting pieces in mm

sizes in mm



d	32		40		50		75		110		125		160	
	min	max	min	max	min	max	min	max	min	max	min	max	min	max
e	1,8	2,2	1,8	2,2	1,8	2,2	1,9	2,3	2,7	3,2	3,1	3,7	3,9	4,5
e _{2min}	1,6	/	1,6	/	1,6	/	1,7	/	2,4	/	2,8	/	3,5	/
e _{3min}	1,0	/	1,0	/	1,0	/	1,1	/	1,5	/	1,8	/	2,2	/
f	6,0	7,8	7,8	9,6	7,8	9,6	7,8	9,6	9,1	11,1	10,4	12,6	11,7	14,1
d _n	32,0	32,3	40,0	40,3	50,0	50,3	75,0	75,4	110,0	110,4	125,0	125,4	160,0	160,5
d _{sm}	32,3	33,1	40,3	41,1	50,3	51,1	75,4	76,2	110,4	111,3	125,4	126,4	160,5	161,5
D ₃	38,3	39,3	49,6	50,6	59,6	60,6	84,5	85,5	120,6	122,4	137,6	139,3	174,3	176,1





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