

Трубы для транспортировки газа под высоким давлением PE 80 GAS, PE 100 GAS

Технические характеристики

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PEHD gas pipes

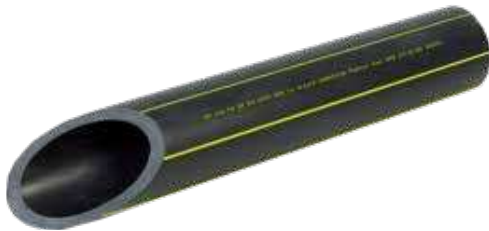
Technical datasheet

Applications

Peštan HDPE pipes are used for transportation of gas under high-pressure. Pipeline can follow configuration of the ground because of its elasticity that reduces couplings needed. Very flexible and extremely resistant to vibration, seismic strikes and ground movements.

Product description

Peštan PEHD pipes are high quality pipes made of supreme quality polyethylene PE-80 and PE-100. Complete program Peštan PEHD pipes is produced under the norm EN 1555. Polyethylene gas pipes are resistant to UV rays and temperatures up to 60 °C. They are completely physiologically and toxicologically safe and are extremely chemically resistant.



Product Availability

Production range covers diameters from Ø16 to Ø630. These pipes are being made in 4 versions (depending on the pressure they are ment for and the material from which they are made):

PE 100	PE 80
SDR 17 - PN 6	SDR 11 - PN 4
SDR 11 - PN 10	SDR 17 - PN 1

Peštan distributes all the necessary fittings, electric and ordinary for gas pipes from the known world manufacturer "GEORG FISCHER".

Peštan is able to offer complete program of welded accessories made in all diameters and in all working pressures. Also other working pressures are available by the request..

Characteristics and technical data

Safety coefficient of PEHD pipes is 1,25. Bending radius is 20d. PEHD pipes have high abrasion resistance. Very low pressure losses since coefficient friction are 10 times less than with steel pipes. Easy for transport and handling. Easy connection by welding or with couplings. Life time above 50 years. Coefficient of linear extension for polyethylene is $1,3 \times 10^{-4} \text{C}^{-1}$ (0,13 mm/m °C).

Resistance to superficial temperatures:

Under the higher exploitation temperatures (industrial appliance) it is necessary to adjust the value of PN by using reducing coefficient from the table:

Pressure reduction coefficient for PE100 i PE80 piping systems	
Temperature	Coefficient
20°	1,00
30°	0,87
40°	0,74

Physical properties of materials:

	Norm	UOM	PE 80	PE100
Density on 23 °C	ISO 1183-1	g/cm ³	0,93	0,95
Mass flow	ISO 1133	g/10 min	0,45	0,45
Tensile strenght	ISO 527	MPa	23	25
Elasticity modul	ISO 178	MPa	1000	1300
The coefficient of linear expansion	DIN 53 752	mm/m°K	0,18	0,18
Vicat softening point	ISO 306	C°	72	77
Thermal conductivity on 20°	DIN 53 612	W/m°K	0,4	0,38
Surface resistivity	DIN/IEC60167	Ω	>10 ¹⁴	VT>10 ¹⁴

Assembly of polyethylene pipes

There are more ways of connecting polyethylene water pipes:

- Head welding
- Electro-fusion
- Compression fitting (up to diameter 125)
- Connecting sleeves and langes

Head welding and electro-fusion are being executed according to DVS 2207-1.

Chemical resistance

Resistant to fresh and salt water, to vegetable and animal oils, alcohol, chlorine compounds, alkaloid acids, bases and detergents. Do not contain heavy metals (eg Pb, Cd, Sn ...).

*Plastic pipes and fittings - Combined chemical-resistance classification table ISO/TR 10358..

Technical Assistance

Our technical and engineering team is supported and advised by European institutes. For more information about products please contact PEŠTAN technical support or regional salesman.



BELNIIS - Belarus



KIWA - Netherland



VUPS - Czech Republic



BELNIIS - Belarus



IMS - Serbia



GOST R - Russia



MPA - Germany



IGH - Croatia



HDPE
GAS PIPES

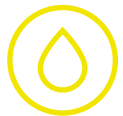


WE ARE

a private company Peštan, leader in the Balkans in the production and distribution of products and solutions from the polymers.

Company was founded in 1989 and has been producing water pipes made of polyethylene.

Over time, we introduced new materials (polypropylene and PVC) and expanded product range. Today, in our offer you may find more than 6500 products, divided into four categories:



**PIPING
SOLUTIONS**



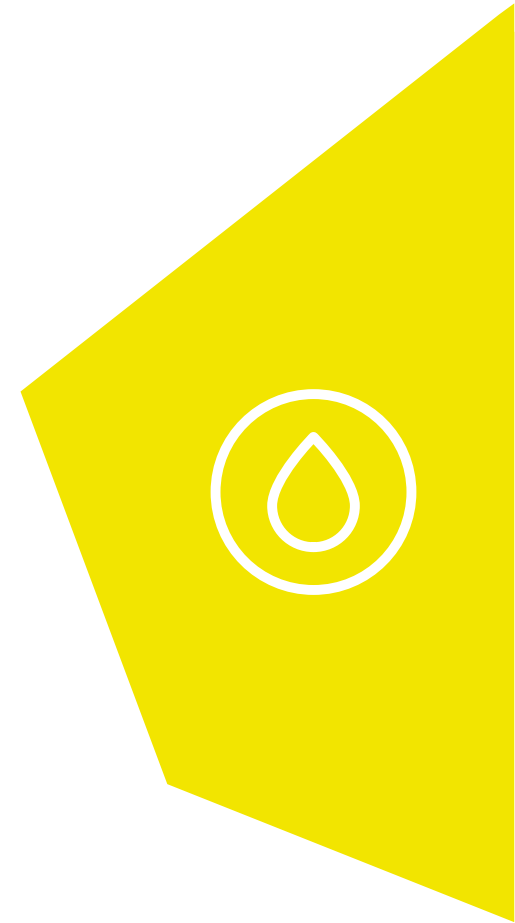
**DRAIN
SOLUTIONS**



**AGRICULTURE
SOLUTIONS**



**HOUSEHOLD
SOLUTIONS**



Edition 5



HDPE GAS PIPES



Polyethylene gas pipes

The need for PE pipes is increasing throughout the whole world. Their small weight allows easy handling, and simple, swift and reliable assembling. They are flexible and can be delivered in the rollers of 200m. They are extremely resistant to chemical, therefore they can be easily placed into the aggressive ground. They have a very high impact resistance even at very low temperatures, especially if made of network like polyethylene. These pipes do not corrode and have a lifespan of over 50 years.

Pipes are entirely in accordance with SRPS-EN1555, ISO 4437 (DIN8074).

PREFERENCES

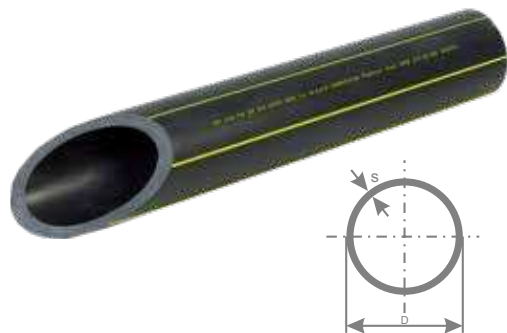
Pipes PE80 - products are available in black with yellow longitudinal lines.

The material used in the manufacture of the gas pipe is approved by the European Union for this application.

Wall thickness for both PE80 and PE100 gas pipes is the same, but with the difference in working pressure is 1,4,6,6,2 and 10 bar..

TECHNOLOGY

The pipes are entirely in accordance with EN 1555, ISO 4437 (DIN 8074) standards. PEŠTAN uses materials made by the world known companies, which have been checked and approved by its own laboratory. The production itself is monitored and controlled by the contemporary scanners. At the same time PEŠTAN controls the quality of its products in the independent international laboratories.



D(MM)	CODE	SDR17 (S-8) PN1		SDR11 (S-5) PN4		
		S	KG/M	CODE	S	KG/M
20	11600001	2.3	0.133	11600101	3	0.163
25	11600002	2.3	0.171	11600102	3	0.211
32	11600003	2.3	0.224	11600103	3	0.279
40	11600004	2.3	0.285	11600104	3.7	0.43
50	11600005	2.9	0.44	11205105	4.6	0.666
63	11600006	3.6	0.688	11600106	5.8	1.05
75	11600007	4.3	0.976	11600107	6.8	1.47
90	11600008	5.2	1.41	11600108	8.2	2.12
110	11600009	6.3	2.08	11600109	10	3.14
125	11600010	7.1	2.66	11600110	11.4	4.08
140	11600011	8	3.34	11600111	12.7	5.08
160	11600012	9.1	4.35	11600112	14.6	6.67
180	11600013	10.3	5.53	11600113	16.4	8.42
200	11600014	11.4	6.79	11600114	18.2	10.4
225	11600015	12.8	8.55	11600115	20.5	13.1
250	11600016	14.2	10.6	11600116	22.7	16.2
280	11600017	15.9	13.2	11600117	25.4	20.3
315	11600018	17.9	16.7	11600118	28.6	25.6
355	11600019	20.2	21.3	11600119	32.3	32.6
400	11600020	22.8	27	11600120	36.4	41.4
450	11600021	25.6	34.23	11600121	41	52.83
500	11600022	28.5	42.34	11600122	45.5	65.15
560	11600023	31.9	53.08	11600123	51	81.78
630	11600024	35.8	67.02	11600124	57.3	103.38

FITTING

Peštan is able to offer complete program of welded accessories made in all diameters and in all working pressures. Also other working pressures are available by the request.

HDPE PE-80

SDR11 (S-5) PN10				SDR17,6 (S-8.3) PN6				SDR17 (S-8) PN6			
D(MM)	CODE	S	KG/M	D(MM)	CODE	S	KG/M	D(MM)	CODE	S	KG/M
16	11700500	3.0c	0.126	16	11700000	2.3c	/	16	11700260	2.3c	/
20	11700501	3.0c	0.165	20	11700001	2.3c	0,133	20	11700261	2.3c	0,133
25	11700502	3.0c	0.213	25	11700002	2.3c	0,171	25	11700262	2.3c	0,171
32	11700503	3.0	0.281	32	11700003	2.3c	0,224	32	11700263	2.3c	0,224
40	11700504	3.7	0.434	40	11700004	2.3	0,285	40	11700264	2.4	0,295
50	11700505	4.6	0.672	50	11700005	2.9	0,440	50	11700265	3.0	0,454
63	11700506	5.8	1.062	63	11700006	3.6	0,688	63	11700266	3.8	0,722
75	11700507	6.8	1.483	75	11700007	4.3	0,976	75	11700267	4.5	1,02
90	11700508	8.2	2.149	90	11700008	5.2	1,41	90	11700268	5.4	1,466
110	11700509	10.0	3.187	110	11700009	6.3	2,08	110	11700269	6.6	2,182
125	11700613	11.4	4.134	125	11700112	7.1	2,66	125	10700342	7.4	2,783
140	11700623	12.7	5.153	140	11700123	8.0	3,34	140	11700352	8.3	3,494
160	11700633	14.6	6.762	160	11700133	9.1	4,35	160	11700362	9.5	4,56
180	11700643	16.4	8.541	180	11700142	10.3	5,53	180	11700372	10.7	5,768
200	11700653	18.2	10.539	200	11700153	11.4	6,79	200	11700382	11.9	7,118
225	11700663	20.5	13.342	225	11700163	12.8	8,55	225	11700392	13.4	9,028
250	11700673	22.7	16.406	250	11700173	14.2	10,60	250	11700402	14.8	11,063
280	11700683	25.4	20.036	280	11700183	15.9	13,20	280	11700412	16.6	13,899
315	11700693	28.6	26.036	315	11700193	17.9	16,70	315	11700422	18.7	17,601
355	11700703	32.2	33.141	355	11700203	20.2	21,30	355	11700432	21.1	22,403
400	11700713	36.3	42.057	400	11700213	22.8	27,00	400	11700442	23.7	28,312
450	11700723	40.9	53.132	450	11700223	25.6	34,23	450	11700452	26.7	35,869
500	11700733	45.4	65.684	500	11700233	28.4	42,34	500	11700462	29.7	44,32
560	11700743	50.8	82.273	560	11700243	31.9	53,08	560	11700472	33.2	55,523
630	11700753	57.2	104.22	630	11700253	35.8	67,02	630	11700482	37.4	70,322

HDPE PE-100

Registration control number: DVGW DG8106BR0083 DG8111BR0084

PREFERENCES

PE100 pipes are made in black color with orange longitudinal lines.

PACKAGING & TRANSPORT

When transporting and storing the pipes, they must not be dragged in the dirt or on sharp objects; also they must not come in contact with mineral oils, emollients or various coatings.

The pipes should be placed on the flat surface. The can be stored for the period of up to two years in the open.



BRAND MANIFESTO

We do not only sell pipes, we combine reliability with quality for the ultimate benefit of our clients.

We do not build short-term client relationships, but long-term and genuine partnerships.

Everything we do, we do with one thing in mind - to create ideas to perfectly match all our client needs and the best way for us to achieve this goal is to constantly educate our clients provide solutions that meet their specific needs and support them throughout the entire process.

Because our success is as big as your trust in us.

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