HDPE PIPING SYSTEM

Wasser HDPE Pipe

Black high-density polyethylene pipe for water and gas, joined by heat fusion into leak-free, fully restrained joints.

PN6–PN20 · 20–110 mm · 6 m to 100 m lengths · Black

SPECIFICATION

Property	Value
Composition	1 layer (HDPE)
Nominal pressure	PN6, PN8, PN10, PN12.5, PN16 and PN20
Length	Varies (6 to 100 metres)
Colour	Black
Maximum working temperature	65°C
Sizes	20 mm to 110 mm (for water and gas)

APPLICATIONS

- Water supply mains and reticulation
- Gas
- Farms and irrigation
- Municipal and infrastructure projects

HDPE PIPE — NOMINAL (MINIMUM) WALL THICKNESS IN MM

Nominal size (mm)	PN6	PN8	PN10	PN12.5	PN16	PN20
20	–	–	–	–	2.0	2.3
25	–	–	–	2.0	2.3	3.0
32	–	–	2.0	2.4	3.0	3.6
40	–	2.0	2.4	3.0	3.7	4.5
50	2.0	2.4	3.0	3.7	4.6	5.6
63	2.5	3.0	3.8	4.7	5.8	7.1
75	2.9	3.6	4.5	5.6	6.8	8.4
90	3.5	4.3	5.4	6.7	8.2	10.1
110	4.2	5.3	6.6	8.1	10.0	13.7

RECOMMENDED MAXIMUM OPERATING PRESSURE

PN	at 25°C – 40°C
6	6 bar
8	8 bar
10	10 bar

Specifications are taken from the Wasser Pipes technical data. Final pipe sizing and pressure selection should be confirmed by a qualified plumber or engineer.

12.5	12.5 bar
16	16 bar
20	20 bar

The maximum working temperature for the pipes is 65°C.

PRODUCT CODES

PN6
HDP50,6 · HDP63,6 · HDP75,6 · HDP90,6 · HDP110,6

PN8
HDP40,8 · HDP50,8 · HDP63,8 · HDP75,8 · HDP90,8 · HDP110,8

PN10
HDP32,10 · HDP40,10 · HDP50,10 · HDP63,10 · HDP75,10 · HDP90,10 · HDP110,10

PN12.5
HDP25,12.5 · HDP32,12.5 · HDP40,12.5 · HDP50,12.5 · HDP63,12.5 · HDP75,12.5 · HDP90,12.5 · HDP110,12.5

PN16
HDP20,16 · HDP25,16 · HDP32,16 · HDP40,16 · HDP50,16 · HDP63,16 · HDP75,16 · HDP90,16 · HDP110,16

PN20
HDP20,20 · HDP25,20 · HDP32,20 · HDP40,20 · HDP50,20 · HDP63,20 · HDP75,20 · HDP90,20 · HDP110,20

ADVANTAGES

Construction cost savings
Construction cost of PE pipe can be significantly less than other pipe materials.

Leak-free, fully restrained joints
PE heat fusion joining forms leak-free joints that are as strong as, or stronger than, the pipe itself. For municipal applications, fused joints eliminate the potential leak points.

Construction advantages
PE pipe's combination of light weight, flexibility and leak-free, fully restrained joints permits unique and cost-effective installation methods that are not practical with alternate materials.

Durability
PE pipe installations are cost-effective and have long-term cost advantages due to the pipe's physical properties, leak-free joints, and reduced maintenance costs.

Produced in longer lengths
HDPE pipes can be produced in 50 metre to 100 metre lengths.