



BALL VALVE

PE 100



agru

Worldwide Competence
in Plastics



Worldwide competence in plastics

AGRU Kunststofftechnik GmbH is a successful Austrian family business with worldwide activities in production and distribution of high-grade thermoplastic products.

To meet the growing demands for uniform PE-pipeline systems our supply programme has been expanded by the PE 100 ball valve.

Based on many years of experience in natural gas, potable water and industrial applications, we support our customers and partners with service and know-how. One stop-shopping is just one of the advantages for our customers.

The ISO 9001:2008 quality management system ensures high quality products.

PE 100 BALL VALVE

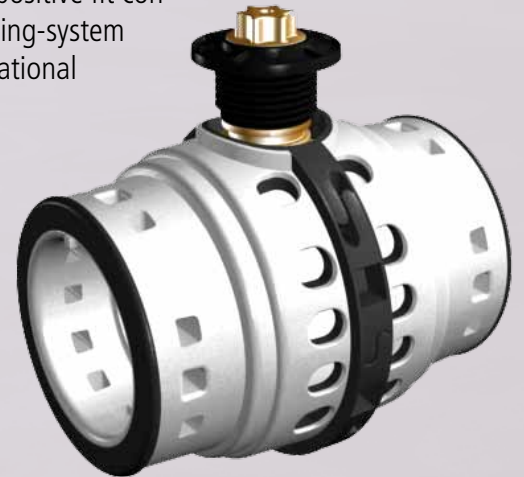


PE 100 ball valve - The system

The patented PE 100 ball valve is an innovative and unique solution for natural gas, potable water and sewage applications and has excellent advantages in comparison to existing valve systems.

The construction of the ball valve is based on a reinforced inner cage, which ensures safety and pressure resistance. It is fully coated with PE 100 material and has a positive fit connection without welding seams. The heavy duty, the redundant sealing-system and the three-way centering mechanism of the ball guarantees operational reliability.

This valve can be installed in new pipelines as well as in existing ones using electrofusion or butt welding technology. It is manufactured according to EN 12201 for water pipelines and EN 1555 for natural gas distribution system applications.



**FOR NATURAL GAS, POTABLE WATER,
SEWAGE & INDUSTRIAL APPLICATIONS**



Features

- Supply programme ranges from OD 32 mm to OD 225 mm
- High operating pressures: 16 bar for water / 10 bar for natural gas
- Tough construction through heavy duty monobloc construction
- Available with integrated planetary gear box (clockwise and anti-clockwise)
- Integrated scrapper ring avoids particle insertion



Features & benefits

Simple installation

The AGRU PE 100 ball valve is easy to handle because it is up to 50 % lighter than conventional metal valves. The installation can be conducted by electro fusion welding and butt welding technologies. Due to this the PE 100 shows an advantage through its ease of installation.

High pressure resistance

Due to the mono-block construction of the ball valve, it guarantees durable pressure resistance and is designed for an operating pressure of 24 bar. The spigot ends in PE 100 SDR 11 are approved for an MOP (maximum operating pressure) of 16 bar for water applications and 10 bar for natural gas applications.



TIGHT & CONSISTENT

Corrosion resistance

The AGRU PE 100 ball valve offers an entire corrosion resistance - internally and externally. It is resistant to surrounding conditions, e.g. at below-ground installed pipes.

Sealing System

The redundant sealing system is integrated in the inner cage. The used material for the sealings is EPDM for water applications and NBR for natural gas applications.

Integrated gear box

Valves larger than OD 63 mm are available with an integrated gear box. The two step planetary gear system has a transmission ratio of 1:40 for a smooth opening and closing to eliminate water hammers.



DURABLE & RELIABLE



Further advantages

- Full bore
- Fixed housing stops
- Integrated protective system to avoid dirt disposal



Without gear

OD [mm]	weight [kg]
32	0.75
50	1.77
63	3.29
90	6.72
110	11.43
125	14.28

With gear

OD [mm]	weight [kg]
63	3.85
90	7.60
110	12.34
125	14.80
160	27.30
180	37.29
225	69.52

Supply programme

In all dimensions: SDR 11

Available for:

- **Natural gas** with NBR gasket (orange)
- **Potable water** and **industry** with EPDM gasket (black)



BALL VALVE SUPPLY PROGRAMME

Approvals

The AGRU PE 100 ball valve is approved according to EN 1555 for natural gas applications and EN 12201 for potable water applications.



Supply programme IPS

In all dimensions: SDR 11

Available for:

- **Water and industry**
with EPDM gasket



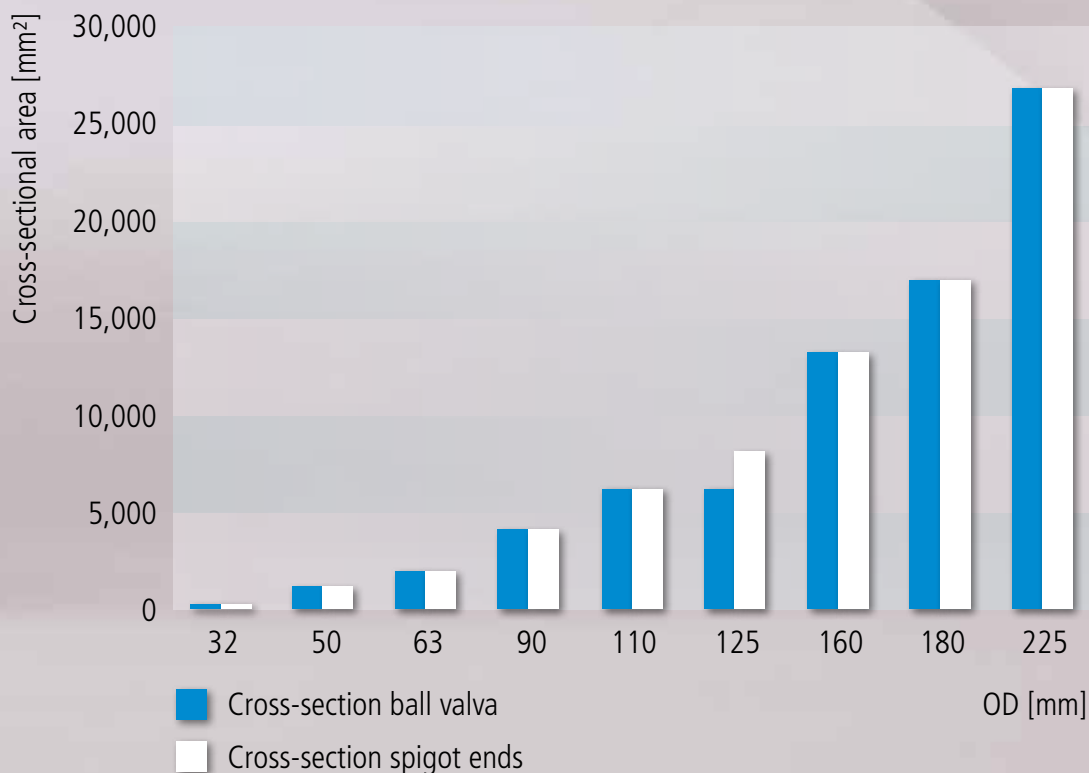
IPS without gear

OD [inch]	weight [lbs]
1"	1.65
1.5"	3.00
2"	8.26
3"	14.83
4"	25.21

IPS with gear

OD [inch]	weight [lbs]
2"	8.48
3"	16.75
4"	27.22
6"	60.20
8"	153.37

FOR NATURAL GAS, POTABLE WATER,
SEWAGE & INDUSTRIAL APPLICATIONS





AGRULINE

PIPING SYSTEMS FOR NATURAL GAS, POTABLE WATER
& SEWAGE



INDUSTRIAL

PIPING SYSTEMS FOR INDUSTRIAL APPLICATIONS

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