



BALL VALVE

MADE OF PE 100



agru

Worldwide Competence
in Plastics



Worldwide competence in plastics

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

To meet the growing demands for uniform PE pipeline systems the supply range 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.

BALL VALVE

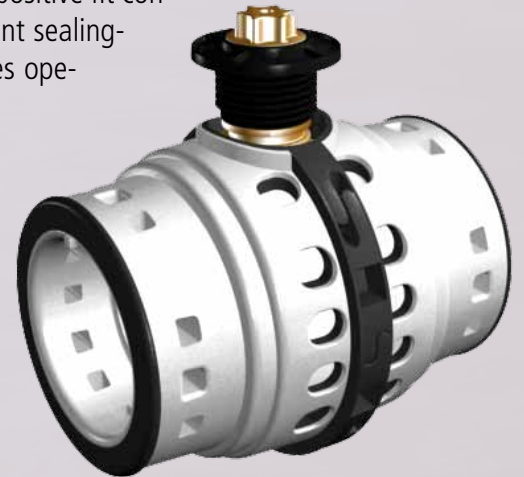


The PE 100 ball valve system

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 sturdy construction the redundant sealing-system and the three-way centring mechanism of the ball guarantees operational reliability.

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



FOR NATURAL GAS, WATER, SEWAGE & INDUSTRIAL APPLICATIONS



Features

- Supply range from OD 32 mm to OD 225 mm
- High operating pressures: 16 bar for water / 10 bar for natural gas
- Tough construction due to heavy duty monobloc construction
- Available with integrated planetary gearbox (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 electrofusion welding and heating element butt welding. Due to this the PE 100 ball valve has the advantage of an easy installation.

High pressure resistance

The ball valve has a durable pressure resistance due to the monobloc construction. The spigots in PE 100 SDR 11 are approved for an MOP (maximum operating pressure) of 16 bars for water applications and 10 bars for natural gas applications.

BALL VALVE

Corrosion resistance

The AGRU PE 100 ball valve offers a good corrosion resistance - internally and externally. It is resistant to surrounding conditions, e.g. a below-ground installation.

Sealing System

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

Integrated gearbox

Valves larger than OD 63 mm are available with an integrated gearbox. The planetary gear system ensures a smooth opening and closing without water hammers.

| from OD [mm] | to OD [mm] | Transmission ratio | Opening/ Closing [rotation] |
|-----------------|---------------|-----------------------|--------------------------------|
| 63 | 125 | 1:6 | 1.5 |
| 160 | 225 | 1:40 | 10 |

DURABLE & RELIABLE



Further advantages

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



Without gearbox

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

With gearbox

| 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 range

In all dimensions: SDR 11

Available for:

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



BALL VALVE



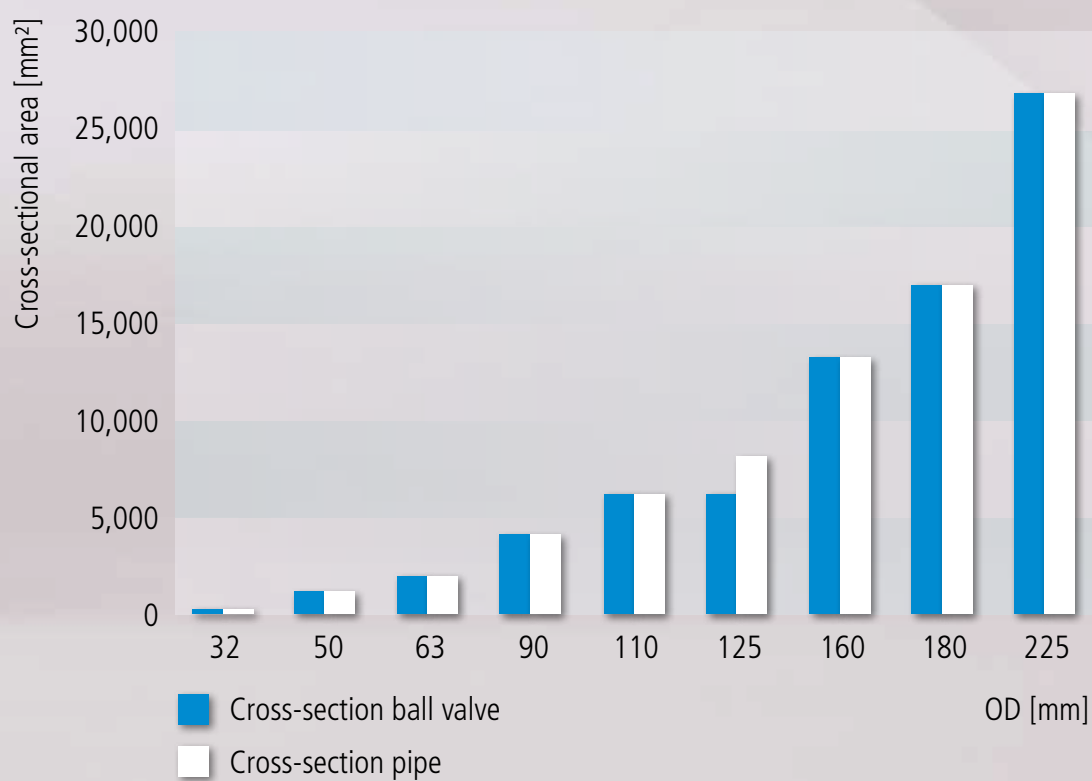
The quality

AGRU manufactures quality products. These meet and exceed the requirements of international standards (such as the EN 1555 for natural gas applications and the EN 12201 for potable water applications). A quality management system according to ISO 9001 and ongoing internal tests, as well as regular third party certifications ensure high precision and performance of AGRU products. Various approvals document the excellent quality.





SUPPLY RANGE





AGRULINE

Unique and innovative solutions in polyethylene for natural gas, potable water, sewage and industrial piping systems

- Easy & fast
- Safe & tough
- Pressure resistant
- High durability



Electrofusion fittings

... made of PE 100 and PE 100-RC for safe and reliable joining of PE piping systems.

- Easy joining procedure
- Entirely embedded resistance wire
- Excellent long-term behaviour

E-couplers made of PE 100-RC are the optimum solution for demanding applications, such as no sand embedding!



- **AGRULINE**
PIPING SYSTEMS FOR NATURAL GAS, WATER & SEWAGE
- **INDUSTRIAL**
PIPING SYSTEMS FOR INDUSTRIAL APPLICATIONS

Y20508020710 3F

Subject to errors of typesetting, misprints and modifications.
Illustrations are generic and for reference only.

Your distributor:



Worldwide Competence
in Plastics

AGRU Kunststofftechnik GmbH

A - 4540 Bad Hall

Ing. Pesendorfer-Straße 31

T +43 (0) 7258 790 - 0

F +43 (0) 7258 3863

office@agru.at

www.agru.at