



**BROEN BALLOMAX®
MONOBLOCK AND SHORT VALVES**





Climate change is our common challenge

Energy efficiency is one of the greatest challenges of our times and for district energy BROEN delivers ready solutions to meet the globally rising demand for energy efficiency.

Based on the heritage from leading edge innovations in Danish District Heating, BROEN offers the most comprehensive range of proven valves for distribution and transmission of district heating in residential, commercial and industrial applications.

BROEN is your assurance of energy efficiency, reliability and low cost of ownership.

Our brand is our promise.

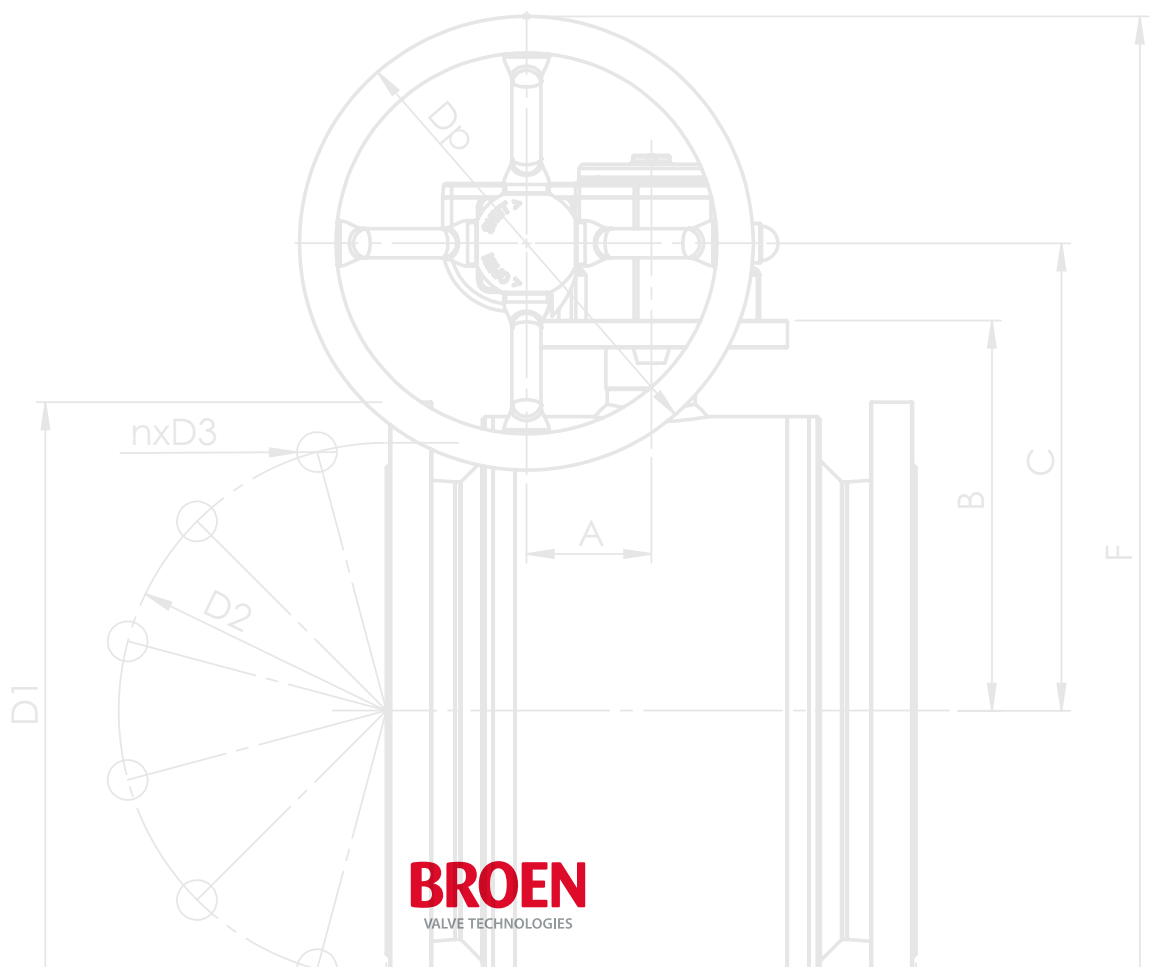
ABOUT BROEN

In 1948 Poul Broen established the company BROEN, which was among the pioneers, when district heating took off in Denmark. In 1982 the BROEN Ballomax® ball valve for district heating was launched. We strive to develop and improve products, that use nature's resources as efficiently as possible.

In 1993 BROEN was acquired by Aalberts Industries and today we have more than 15,000 colleagues operating from more than 200 locations in more than 30 countries. Aalberts Industries (AALB) is listed at the EuroNext Stock Exchange, NL

VISION AND VALUES

Our vision is simple: Be the best in valve technology. Strong values are the foundation for our business and with the same shared vision they link us together as one company across borders and time zones on 3 continents.



BROEN Ballomax® – our response

Monoblock and short valves

BROEN Ballomax® monoblock and short valves offers a safe and modern construction for district heating networks, air conditioning and industrial installations with water, air, steam, gas and oil.

The monoblock and short valves are suitable for tight spaces fitting narrow build-in requirements when re-configuring or renovating pipelines.

The valve is tested and subjected to a 100% quality control before leaving the factory and it therefore requires minimal service for the rest of its life.

Both the ball and the spindle are made from stainless steel.

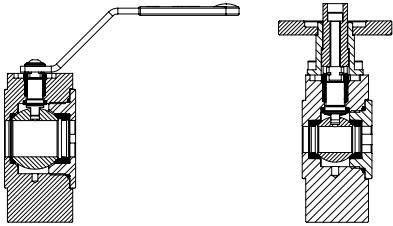


- All CE-marked valves are approved according to PED 2014/68/EU - module H
- Highest Class A tightness - EN 12266
- Double sealing : O-ring (EPDM), VITON,
- Temperature compensation (linear)
- Double bearing spindle system, diameter \geq DN 65
- Operating temperature from -20°C to $+200^{\circ}\text{C}$

DN15 - DN200

PN16 - PN25 - PN40

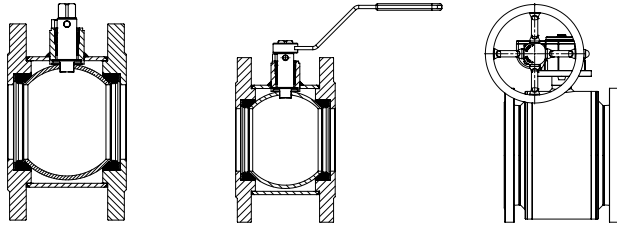
Heating - Cooling - Steam - Oil



BROEN Ballomax® monoblock ball valves with handle and ISO-flange acc. to EN ISO 5211.

Connection flange according to EN 10025-2.

DN15-32 | PN40

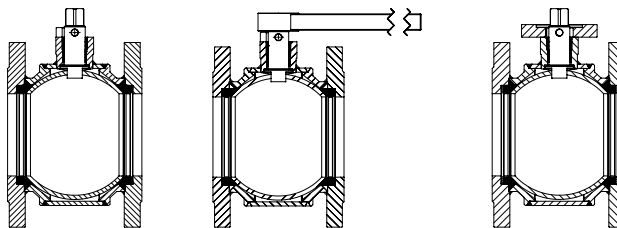


BROEN Ballomax® short ball valves without handle, with handles and with ISO-flange acc. to EN ISO 5211.

Connection flange according to EN 10025-2.

DN40-80 | PN16

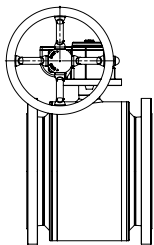
Together with our comprehensive range of BROEN valves, actuators, gears, extensions and hot tapping tools, BROEN offers complete solutions for district energy.



BROEN Ballomax® short ball valves without handles, with handles and with ISO-flange acc. to EN ISO 5211.

Connection flange according to EN 10025-2.

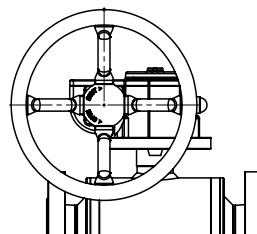
DN100-200 | PN16



BROEN Ballomax® block and short ball valves with gear.

Connection flange according to EN 10025-2.

DN100-200 | PN16



Gear for BROEN Ballomax® monoblock and short ball valves.

Tmax: -20°C to +200°C

Monoblock ball valve DN15-32

1. Ball material

SA351Gr CF8 acc. to ASME

2. Valve body

S355J2C Steel acc. to EN 100025-2

Short ball valve DN40-80

1. Ball material

1.4306 (AISI 304) acc. to EN 10217-7

2. Valve body

P235GH acc. to EN 10217-2 / EN 10216-2

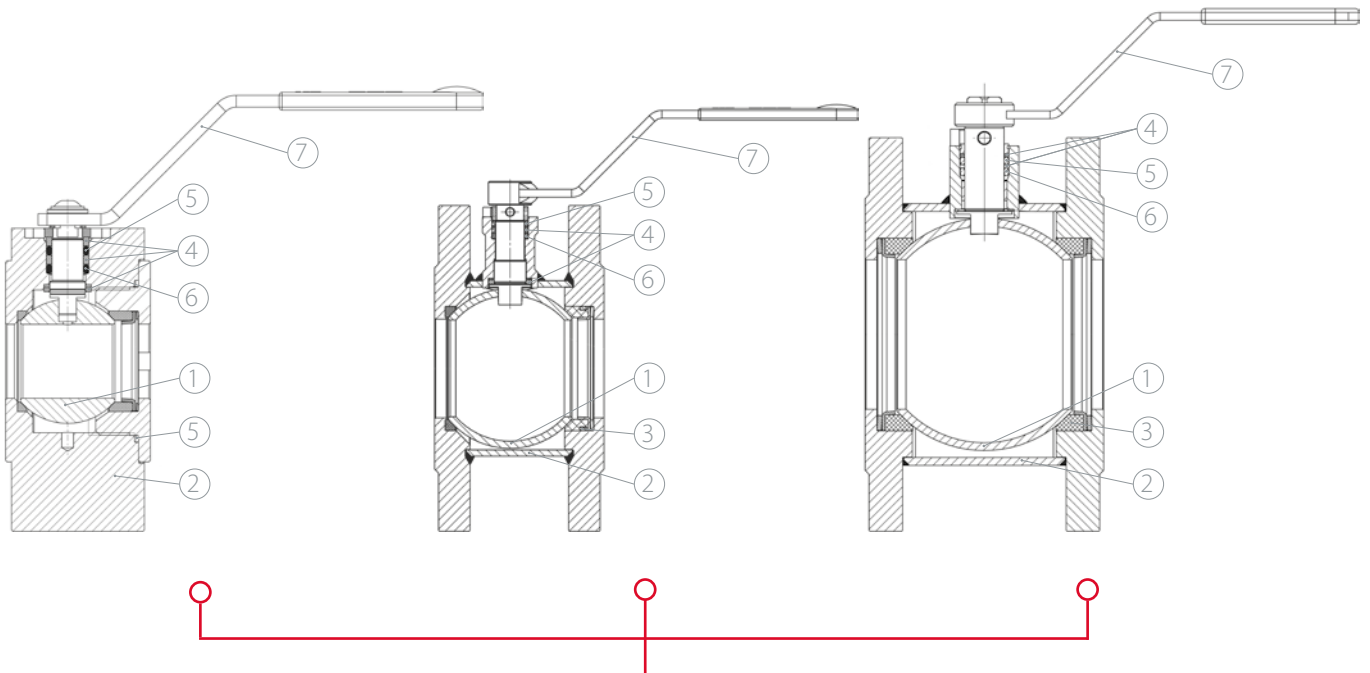
Short ball valve DN100-200

1. Ball material

1.4306 (AISI 304) acc. to EN 10217-7

2. Valve body

Steel P235GH acc. to EN 102017-2 / EN 10216-2



3. Ball sealing

PTFE + Carbon

4. O-ring - PTFE+C

5. O-ring - EPDM

6. O-ring - FKM (Viton)

7. Operation

Handle, no handle, ISO-flange acc. to ISO 5211

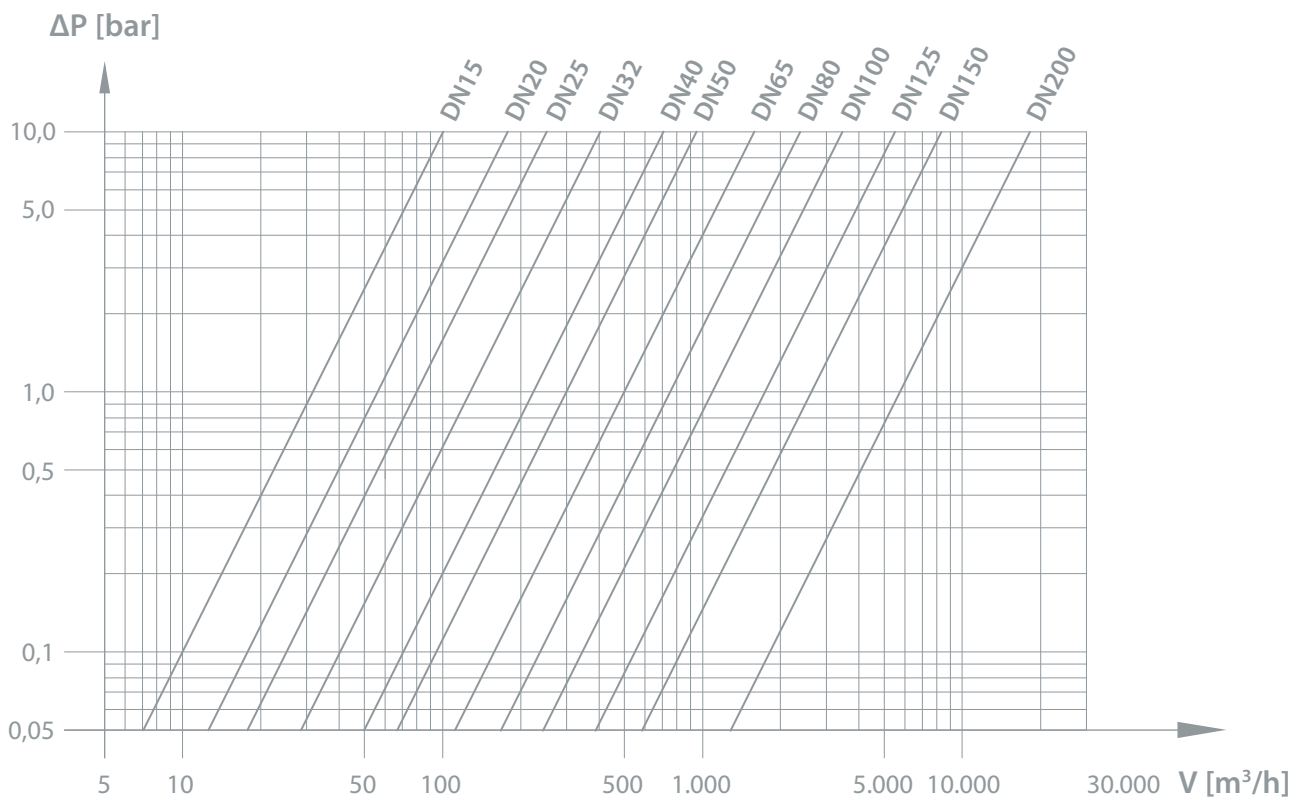


BROEN Ballomax® – block and short valves

Kv values and Build-in length dimension

DN [mm]	15	20	25	32	40	50	65	80	100	125	150	200
Kvs [m ³ /h]	32	57	81	133	229	295	498	754	1.159	1.841	2.652	5.720
Build-in length dimension mm	40	46	49	67	77	86	106	121	160	186	236	292

ΔP-V GRAPH Pressure losses on valve, depending on medium flow speed and valve diameter



Ever since BROEN was established
our passion for valve technology has been
a major part of our core competences.

Our brand is our promise.

BROEN Engineered Valve Group

For more than 70 years BROEN has been the global leader in the development and production of valve technology for the control of water, air, gas and oil. BROEN delivers complete solutions for HVAC building installations and is a leading supplier of district energy valves.

We know application and valve technology in depth and in close dialogue with our customers and partners all over the world we create value and reliability with proven valves offering full quality assurance.

BROEN is headquartered in Assens, Denmark and is part of Aalberts Industries NL.

Read more on: www.broen.com

BROEN Group locations

Headquarters in Assens, DK

Sales- and productions sites ●

BROEN A/S, Assens (DK)
BROEN SA, Dzierżonów (PL)
BROEN LLC, Kolomna (RU)
BROEN INC., Houston (US)
BROEN OIL & GAS, Suchy Las & Rogoźno (PL)
BSM Valves B.V., Breda (NL)
Clorius Controls, Dzierżonów (PL)

Sales companies and offices ○

BROEN, Assens
BROEN, Stockholm
BROEN, Helsinki
BROEN SEI, Romania
BROEN, Beijing
BROEN, Singapore
BROEN, Dusseldorf
BROEN, Moscow
Clorius Controls, Copenhagen
Clorius Controls, Shanghai



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