

BROEN FULL FLOW DN10-50

Reliability and quality for modern buildings



New Thinking by BROEN

If we never dared to think differently, then nothing new would ever happen. If we never challenge what we know, we cannot move forward. At BROEN we believe in doing away with old habits and constantly replacing them with something better.

We call this New Thinking by BROEN

Quite simply, it is about simplifying – from start to finish – the complex systems and solutions you are already familiar with, and ensuring that what we deliver always fits into the bigger picture.

So let's make it simple and tell you about our value-creating cooperation.

BROEN ApS is known for its leading role in valve technology. We offer a wide range of tube systems, fittings and valves using a variety of materials and technologies. The solutions are used in water, heating, cooling, gas and fire protection systems in residential, commercial and industrial buildings.

We possess exhaustive knowledge of the applications' characteristics, which enables us to develop innovative products and services that are optimized for today's needs and the future requirements of the plumbing industry.

BROEN ApS is certified in accordance with ISO 9001.



TRAINING

BROEN offers information, training and advice that will keep you up-to-date with all the latest developments and solutions.

DESIGN

BROEN has more than 70 years' experience and is capable of working closely together with you and helping you through the entire design and project management process.

SUPPORT

Our technical support team is ready and able to collaborate with engineers and installers to ensure that the optimal result and yield is achieved both during and after the installation process.

CARE

Service is assured after the delivery of our products – from the initial contact and all the way through the process. If you are in need of expertise and assistance, we are ready to help.

Next generation valve technology

We have developed a new valve that delivers the reliability, efficiency and quality required by modern buildings.

BROEN FULL FLOW is a new valve that provides many more options for complete solutions with uniform connection technology and material properties.

The new BROEN FULL FLOW valve is the most flexible valve available. It delivers trouble-free operation in countless systems because its material standards and technologies are uniform.



BROEN introduces the next generation valve technology

- All Systems – One Technology
- Compact Full Flow design
- Connection flexibility
- Unique valve identification
- Danish Innovation – produced in Denmark

DN10-50 | PN16 | Press, thread or swivel nut



All systems – One technology

BROEN FULL FLOW is available in stainless steel or galvanized steel – developed to suit any application

Domestic water

BROEN FULL FLOW ensures that all standards that apply to water and domestic water systems are complied with. Stainless-steel BROEN FULL FLOW valves are corrosion-resistant in relation to ordinary domestic water. All metal parts in BROEN FULL FLOW valves used for domestic water are made from acid-proof stainless steel (AISI 316), which minimises the risk of mixing with other material types in corrosion-resistant installations.

Treated water

BROEN FULL FLOW valves made from stainless steel are ideal for use with treated water where materials must meet stringent requirements. All parts that come into contact with water – including the ball – are made from acid resistant stainless steel (AISI 316).

Heating systems

The BROEN FULL FLOW valve is the best solution for heating systems. Strict quality testing is carried out on every single compact valve throughout the entire production process and they are leak tested before they leave the factory. The combination of energy-optimised flow design and laser welding ensures that all fittings have very low internal flow resistance. BROEN FULL FLOW valves are the optimal choice when energy efficiency is important.

Cooling systems

BROEN FULL FLOW is the valve of tomorrow when it comes to cooling installations. It delivers the same benefits you get with heating installations – an optimal energy-efficient solution with the lowest possible flow resistance. You can also choose the material that best suits the individual installation. BROEN FULL FLOW valves with extended stems also help to ensure the correct diffusion-proof insulation of the entire installation.

Compressed air

BROEN FULL FLOW valves can be used in many different types of compressed air installations. In consideration of water and oil content, the galvanized version can be used or the stainless steel version can be used when there is a need to meet more stringent requirements.



reddot design award



BROEN FULL FLOW – Stainless steel

BROEN FULL FLOW stainless steel valves are particularly well suited for drinking water installations, but they can also be used for other purposes, such as:

- Central heating systems
- District heating systems
- Cooling systems
- Industry
- Certain types of compressed air systems
- Systems for treated water



BROEN FULL FLOW – Galvanized steel

BROEN FULL FLOW galvanized steel valves can be used in applications such as:

- Cooling systems (closed)
- Central heating systems (closed)
- District heating systems
- Certain types of compressed air systems



Compact Full Flow design

The compact BROEN FULL FLOW valve housing provides the best insulation option on the market, meeting modern HVAC system requirements. Streamlined full flow design.

All Systems – One Technology

BROEN FULL FLOW ensures uniform installation using the same materials for pipes and valves, which ensures minimum risk of corrosion. All valves are available in stainless steel and electro-galvanized steel.

Stem

All valves are fitted with a short or long stem – the long stem version is an integrated part of the valve, which ensures the correct insulation around the stem.

Seat design

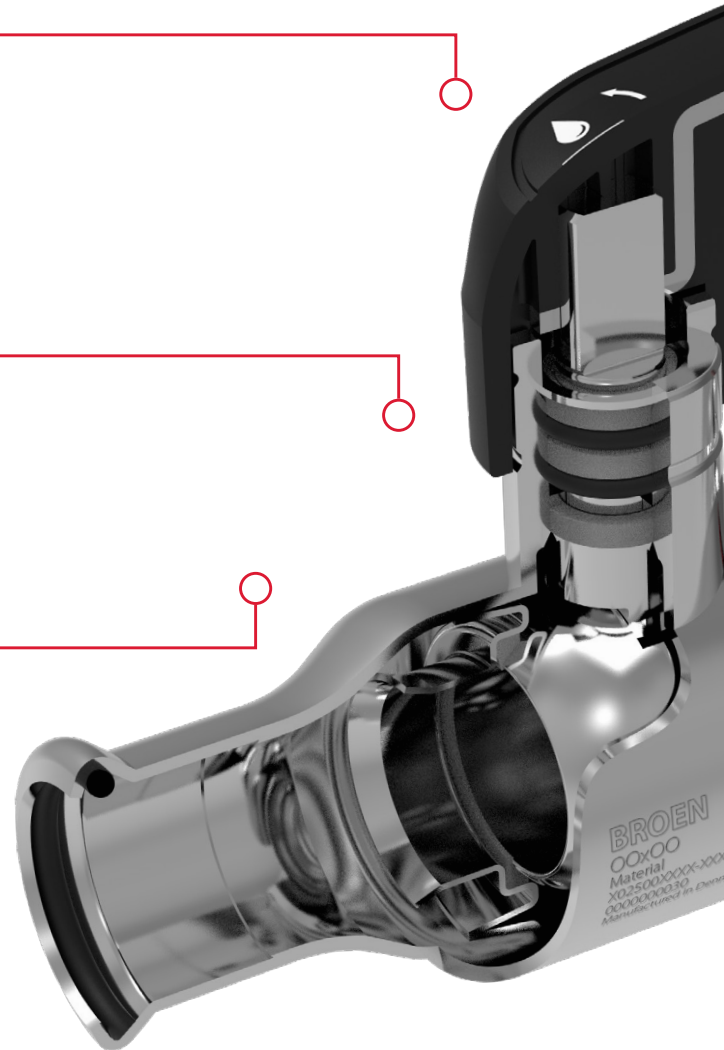
The patented spring supported seat design ensures optimal tightness, smooth operation and long lifetime.

Leak Before Press

All Press valves are leak tested using “Leak Before Press”, which minimises the risk of leaks.

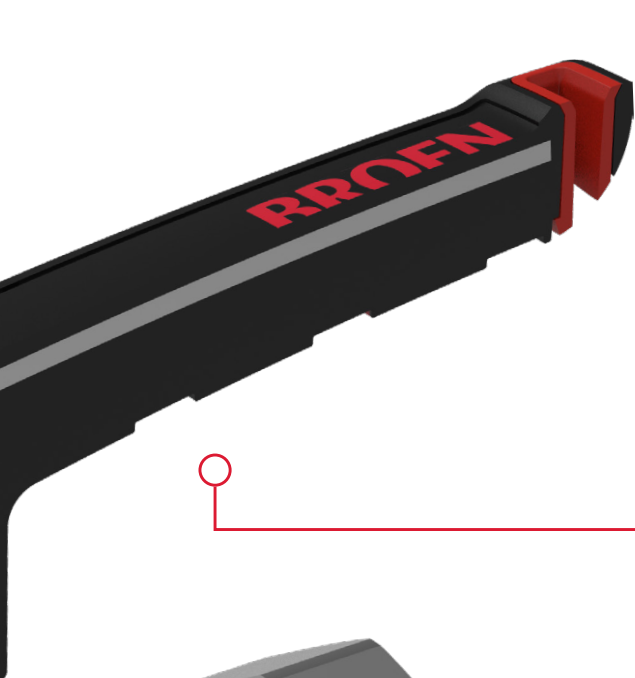
Unique valve identification

All BROEN FULL FLOW valves are individually marked with a unique identification number and data matrix with information about process, quality and distribution at the individual valve level. All valves are leak tested before they leave the factory.



BROEN FULL FLOW DN10-50 OVERVIEW

DN10-50 | PN16 | Temp: -35°C and +135°C | Press, thread or swivel nut



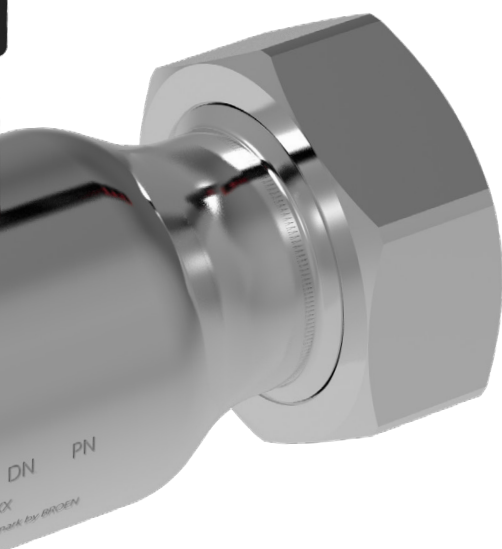
Clips

The handle has replaceable clips that ensure easy identification, e.g. cold and hot water or supply and return flow. The clip can also be fitted with a label.



Handle

The ergonomic handle is specially designed for easy activation. The L-handles and T-handles are made from fibreglass-reinforced nylon cast around a metal reinforcement and can be fitted in both directions without the use of tools. In addition, BROEN FULL FLOW is available with gear-handles, which can also be installed without the use of tools



Connection flexibility

The BROEN FULL FLOW system can be quickly and easily connected to other connection technologies – Press, threaded or swivel nut. The valves are suitable in all pipe systems.

Laser marking

As standard, BROEN FULL FLOW valves are clearly marked by laser, showing information about size, material and Pressure class. The valves are also colour-coded to indicate the type of material. Green for stainless steel. Red for galvanized steel.

BROEN
FULL FLOW

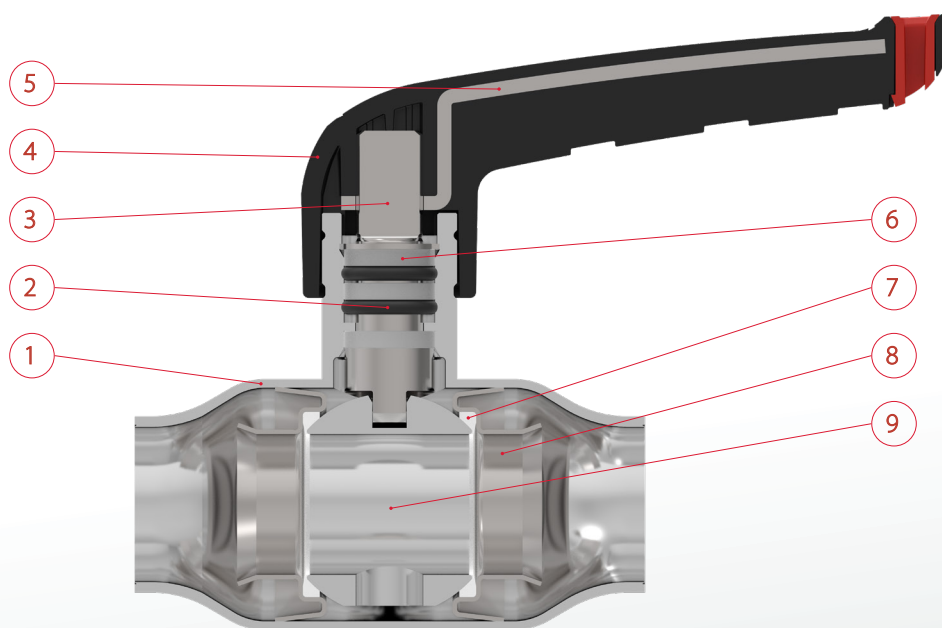
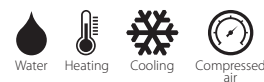
All systems – One technology

BROEN FULL FLOW DN10-50 | STAINLESS STEEL

Technical data

Material, valve housing:	Stainless steel EN 1.4404
Material, handle:	PA66 - fiberglass-reinforced nylon with metal insert
Sizes:	DN10-50
Seals:	PTFE*
O-rings:	EPDM**
Connections:	Press, female, male and swivel nut
Leakage protection:	LBP - Leak Before Press
Medium:	Water
Operating Pressure:	Max. 16 bar (marked with PN10, cf. EN 13828)
Operating temperature:	-35°C to +135°C
Press tools:	Only approved Press machines with M-jaws or slings, in accordance with published tool list
Heat expansion coefficient:	0.0160 mm per mtr. $\Delta T = 1k$

* Ethylene Propylene Diene Monomer ** Polytetrafluorethylene



No.	Component	Material	Standard
1	Valve housing	Stainless steel	EN 1.4404
2	O-ring	EPDM	
3	Stem	Stainless steel	EN 1.4401
4	Handle	Fiberglass-reinforced nylon	PA66
5	Metal reinforcement	Stainless steel	EN 1.4401

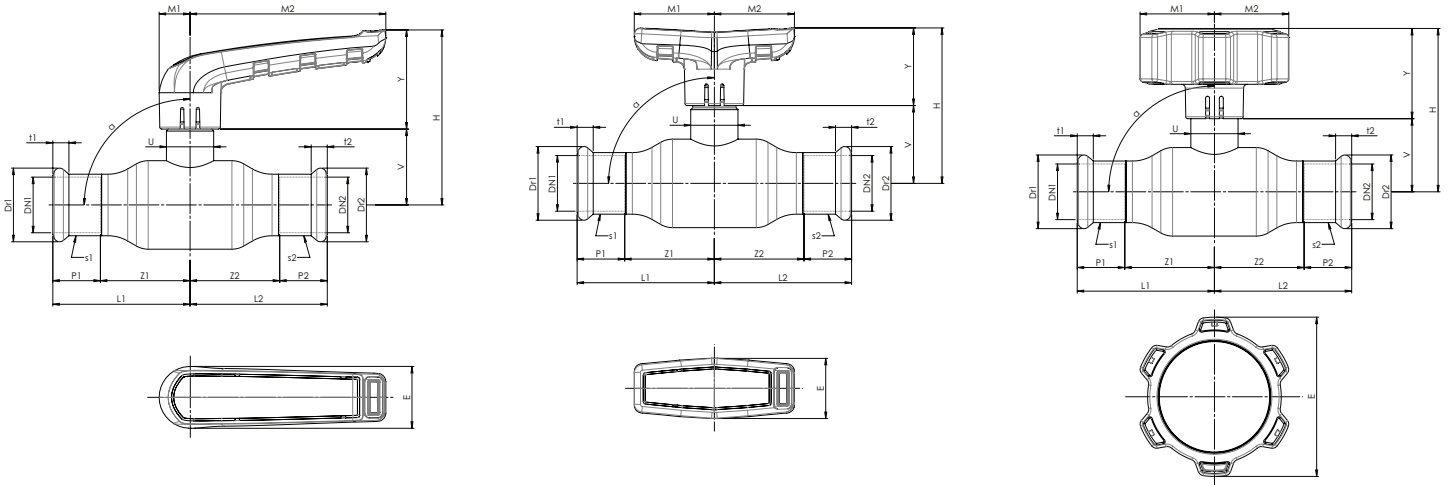
No.	Component	Material	Standard
6	Friction ring	PTFE	
7	Seal	PTFE	
8	Spring support ring	Stainless steel	EN 1.4401
9	Ball	Stainless steel	EN 1.4401

Note: Threads in accordance with ISO 228/1

BROEN FULL FLOW DN10-50 | STAINLESS STEEL

Product data and drawings

Product data and drawings see www.broen.com/products/building-installations or scan the QR code.



BROEN FULL FLOW DN10-50 | Press × Press

Press × Press Stainless steel			BF201001 Low stem	BF201011 High stem
L-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	15 × 15	2010000100-0100	2010000101-0100
	DN15	18 × 18	2015000100-0100	2015000101-0100
	DN20	22 × 22	2020000100-0100	2020000101-0100
	DN25	28 × 28	2025000100-0100	2025000101-0100
	DN32	35 × 35	2032000100-0100	2032000101-0100
	DN40	42 × 42	2040000100-0100	2040000101-0100
	DN50	54 × 54	2050000100-0100	2050000101-0100

Press × Press Stainless steel			BF201004 Low stem	BF201014 High stem
T-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	15 × 15	2010000100-0400	2010000101-0400
	DN15	18 × 18	2015000100-0400	2015000101-0400
	DN20	22 × 22	2020000100-0400	2020000101-0400
	DN25	28 × 28	2025000100-0400	2025000101-0400
	DN32	35 × 35	2032000100-0400	2032000101-0400

Press × Press Stainless steel			BF201002 Low stem	BF201012 High stem
Gear-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	15 × 15	2010000100-0200	2010000101-0200
	DN15	18 × 18	2015000100-0200	2015000101-0200
	DN20	22 × 22	2020000100-0200	2020000101-0200
	DN25	28 × 28	2025000100-0200	2025000101-0200
	DN32	35 × 35	2032000100-0200	2032000101-0200
	DN40	42 × 42	2040000100-0200	2040000101-0200
	DN50	54 × 54	2050000100-0200	2050000101-0200

BROEN FULL FLOW DN10-50 | Press × Female

Press × Female Stainless steel			BF210001 Low stem	BF210011 High stem
L-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	1/2" × 15	2010001010-0100	2010001011-0100
	DN15	3/4" × 18	2015001010-0100	2015001011-0100
	DN20	3/4" × 22	2020001000-0100	2020001001-0100
	DN25	1" × 28	2025001000-0100	2025001001-0100
	DN32	1 1/4" × 35	2032001000-0100	2032001001-0100
	DN40	1 1/2" × 42	2040001000-0100	2040001001-0100
	DN50	2" × 54	2050001000-0100	2050001001-0100

Press × Female Stainless steel			BF210004 Low stem	BF210014 High stem
T-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	1/2" × 15	2010001010-0400	2010001011-0400
	DN15	3/4" × 18	2015001010-0400	2015001011-0400
	DN20	3/4" × 22	2020001000-0400	2020001001-0400
	DN25	1" × 28	2025001000-0400	2025001001-0400
	DN32	1 1/4" × 35	2032001000-0400	2032001001-0400

Press × Female Stainless steel			BF210002 Low stem	BF210012 High stem
Gear-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	1/2" × 15	2010001010-0200	2010001011-0200
	DN15	3/4" × 18	2015001010-0200	2015001011-0200
	DN20	3/4" × 22	2020001000-0200	2020001001-0200
	DN25	1" × 28	2025001000-0200	2025001001-0200
	DN32	1 1/4" × 35	2032001000-0200	2032001001-0200
	DN40	1 1/2" × 42	2040001000-0200	2040001001-0200
	DN50	2" × 54	2050001000-0200	2050001001-0200

BROEN FULL FLOW DN10-50 | Press × Male

Press × Male Stainless steel			BF212001 Low stem	BF212011 High stem
L-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	1/2" × 15	2010001210-0100	2010001211-0100
	DN15	3/4" × 18	2015001210-0100	2015001211-0100
	DN20	3/4" × 22	2020001200-0100	2020001201-0100
	DN25	1" × 28	2025001200-0100	2025001201-0100
	DN32	1 1/4" × 35	2032001200-0100	2032001201-0100
	DN40	1 1/2" × 42	2040001200-0100	2040001201-0100
	DN50	2" × 54	2050001200-0100	2050001201-0100

Press × Male Stainless steel			BF220004 Low stem	BF220014 High stem
T-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	1/2" × 15	2010001210-0400	2010001211-0400
	DN15	3/4" × 18	2015001210-0400	2015001211-0400
	DN20	3/4" × 22	2020001200-0400	2020001201-0400
	DN25	1" × 28	2025001200-0400	2025001201-0400
	DN32	1 1/4" × 35	2032001200-0400	2032001201-0400

Press × Male Stainless steel			BF220002 Low stem	BF220012 High stem
Gear-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	1/2" × 15	2010001210-0200	2010001211-0200
	DN15	3/4" × 18	2015001210-0200	2015001211-0200
	DN20	3/4" × 22	2020001200-0200	2020001201-0200
	DN25	1" × 28	2025001200-0200	2025001201-0200
	DN32	1 1/4" × 35	2032001200-0200	2032001201-0200
	DN40	1 1/2" × 42	2040001200-0200	2040001201-0200
	DN50	2" × 54	2050001200-0200	2050001201-0200

BROEN FULL FLOW DN10-50 | Press × Swivel

Press × Swivel Stainless steel			BF214001 Low stem	BF214011 High stem
L-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	3/4" × 15	2010001410-0100	2010001411-0100
	DN15	3/4" × 18	2015001400-0100	2015001401-0100
	DN20	3/4" × 22	2020001410-0100	2020001411-0100
	DN25	1 1/4" × 28	2025001400-0100	2025001401-0100
	DN32	1 1/2" × 35	2032001400-0100	2032001401-0100
	DN40	1 3/4" × 42	2040001400-0100	2040001401-0100
	DN50	2 1/4" × 54	2050001400-0100	2050001401-0100

Press × Swivel Stainless steel			BF214004 Low stem	BF214014 High stem
T-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	3/4" × 15	2010001410-0400	2010001411-0400
	DN15	3/4" × 18	2015001400-0400	2015001401-0400
	DN20	3/4" × 22	2020001410-0400	2020001411-0400
	DN25	1 1/4" × 28	2025001400-0400	2025001401-0400
	DN32	1 1/2" × 35	2032001400-0400	2032001401-0400

Press × Swivel Stainless steel			BF214002 Low stem	BF214012 High stem
Gear-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	3/4" × 15	2010001410-0200	2010001411-0200
	DN15	3/4" × 18	2015001400-0200	2015001401-0200
	DN20	3/4" × 22	2020001410-0200	2020001411-0200
	DN25	1 1/4" × 28	2025001400-0200	2025001401-0200
	DN32	1 1/2" × 35	2032001400-0200	2032001401-0200
	DN40	1 3/4" × 42	2040001400-0200	2040001401-0200
	DN50	2 1/4" × 54	2050001400-0200	2050001401-0200

BROEN FULL FLOW DN10-50 | Female × Female

Female × Female Stainless steel			BF220001 Low stem	BF220011 High stem
L-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	3/8" × 3/8"	2010002000-0100	2010002001-0100
	DN15	1/2" × 1/2"	2015002000-0100	2015002001-0100
	DN20	3/4" × 3/4"	2020002000-0100	2020002001-0100
	DN25	1" × 1"	2025002000-0100	2025002001-0100
	DN32	1 1/4" × 1 1/4"	2032002000-0100	2032002001-0100
	DN40	1 1/2" × 1 1/2"	2040002000-0100	2040002001-0100
	DN50	2" × 2"	2050002000-0100	2050002001-0100

Female x Female Stainless steel			BF212004 Low stem	BF212014 High stem
T-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	3/8" x 3/8"	2010002000-0400	2010002001-0400
	DN15	1/2" x 1/2"	2015002000-0400	2015002001-0400
	DN20	3/4" x 3/4"	2020002000-0400	2020002001-0400
	DN25	1" x 1"	2025002000-0400	2025002001-0400
	DN32	1 1/4" x 1 1/4"	2032002000-0400	2032002001-0400

Female x Female Stainless steel			BF212002 Low stem	BF212012 High stem
Gear-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	3/8" x 3/8"	2010002000-0200	2010002001-0200
	DN15	1/2" x 1/2"	2015002000-0200	2015002001-0200
	DN20	3/4" x 3/4"	2020002000-0200	2020002001-0200
	DN25	1" x 1"	2025002000-0200	2025002001-0200
	DN32	1 1/4" x 1 1/4"	2032002000-0200	2032002001-0200
	DN40	1 1/2" x 1 1/2"	2040002000-0200	2040002001-0200
	DN50	2" x 2"	2050002000-0200	2050002001-0200

BROEN FULL FLOW DN10-50 | Female x Swivel

Female x Swivel Stainless steel			BF222001 Low stem	BF222011 High stem
L-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	1/2" x 3/8"	2010002200-0100	2010002201-0100
	DN15	3/4" x 1/2"	2015002200-0100	2015002201-0100
	DN20	3/4" x 3/4"	2020002210-0100	2020002211-0100
	DN20	1" x 3/4"	2020002200-0100	2020002201-0100
	DN25	1 1/4" x 1"	2025002200-0100	2025002201-0100
	DN32	1 1/2" x 1 1/4"	2032002200-0100	2032002201-0100
	DN40	2" x 1 1/2"	2040002210-0100	2040002211-0100
	DN50	2 1/4" x 2"	2050002200-0100	2050002201-0100

Female x Swivel Stainless steel			BF222004 Low stem	BF222014 High stem
T-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	1/2" x 3/8"	2010002200-0400	2010002201-0400
	DN15	3/4" x 1/2"	2015002200-0400	2015002201-0400
	DN20	3/4" x 3/4"	2020002210-0400	2020002211-0400
	DN20	1" x 3/4"	2020002200-0400	2020002201-0400
	DN25	1 1/4" x 1"	2025002200-0400	2025002201-0400
	DN32	1 1/2" x 1 1/4"	2032002200-0400	2032002201-0400

Female x Swivel Stainless steel			BF222002 Low stem	BF222012 High stem
Gear-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	1/2" x 3/8"	2010002200-0200	2010002201-0200
	DN15	3/4" x 1/2"	2015002200-0200	2015002201-0200
	DN20	3/4" x 3/4"	2020002210-0200	2020002211-0200
	DN20	1" x 3/4"	2020002200-0200	2020002201-0200
	DN25	1 1/4" x 1"	2025002200-0200	2025002201-0200
	DN32	1 1/2" x 1 1/4"	2032002200-0200	2032002201-0200
	DN40	2" x 1 1/2"	2040002210-0200	2040002211-0200
	DN50	2 1/4" x 2"	2050002200-0200	2050002201-0200

BROEN FULL FLOW DN10-50 | Female x Male

Female x Male Stainless steel			BF224001 Low stem	BF22401 High stem
L-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	3/8" x 3/8"	2010002400-0100	2010002401-0100
	DN15	1/2" x 1/2"	2015002400-0100	2015002401-0100
	DN20	3/4" x 3/4"	2020002400-0100	2020002401-0100
	DN25	1" x 1"	2025002400-0100	2025002401-0100
	DN32	1 1/4" x 1 1/4"	2032002400-0100	2032002401-0100
	DN40	1 1/2" x 1 1/2"	2040002400-0100	2040002401-0100
	DN50	2" x 2"	2050002400-0100	2050002401-0100

Female x Male Stainless steel			BF224004 Low stem	BF224014 High stem
T-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	3/8" x 3/8"	2010002400-0400	2010002401-0400
	DN15	1/2" x 1/2"	2015002400-0400	2015002401-0400
	DN20	3/4" x 3/4"	2020002400-0400	2020002401-0400
	DN25	1" x 1"	2025002400-0400	2025002401-0400
	DN32	1 1/4" x 1 1/4"	2032002400-0400	2032002401-0400

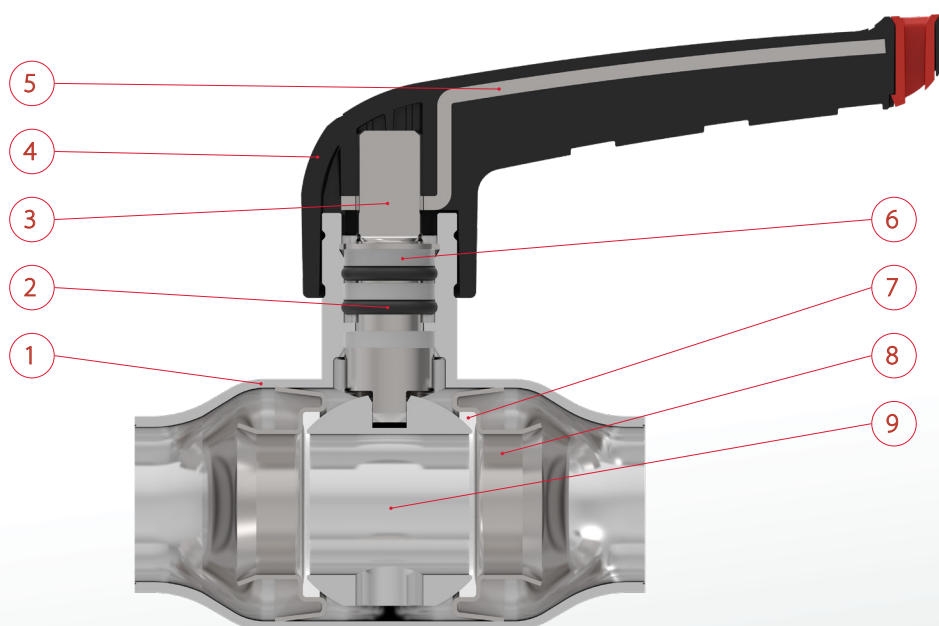
Female x Male Stainless steel			BF224002 Low stem	BF224012 High stem
Gear-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	3/8" x 3/8"	2010002400-0200	2010002401-0200
	DN15	1/2" x 1/2"	2015002400-0200	2015002401-0200
	DN20	3/4" x 3/4"	2020002400-0200	2020002401-0200
	DN25	1" x 1"	2025002400-0200	2025002401-0200
	DN32	1 1/4" x 1 1/4"	2032002400-0200	2032002401-0200
	DN40	1 1/2" x 1 1/2"	2040002400-0200	2040002401-0200
	DN50	2" x 2"	2050002400-0200	2050002401-0200

BROEN FULL FLOW DN10-50 | GALVANIZED STEEL

Technical data

Material, valve housing:	P235GH in accordance with EN 10217-2
Material, handle:	PA66 - fiberglass-reinforced nylon with metal insert
Sizes:	DN10-50
Seals:	PTFE*
O-rings:	EPDM**
Connections:	Press, female, male and swivel nut
Leakage protection:	LBP - Leak Before Press
Medium:	Water
Operating Pressure:	Max. 16 bars
Operating temperature:	-35°C to +135°C
Press tools:	Only approved Press machines with M-jaws or slings, in accordance with published tool list
Heat expansion coefficient:	0.0108 mm per mtr. $\Delta T = 1k$

* Ethylene Propylene Diene Monomer ** Polytetrafluorethylene



No.	Component	Material	Standard
1	Valve housing	Galvanized steel - P235GH	EN 10217-2
2	O-ring	EPDM	
3	Stem	Stainless steel	EN 1.4401
4	Handle	Fiberglass-reinforced nylon	PA66
5	Metal reinforcement	Galvanized steel	

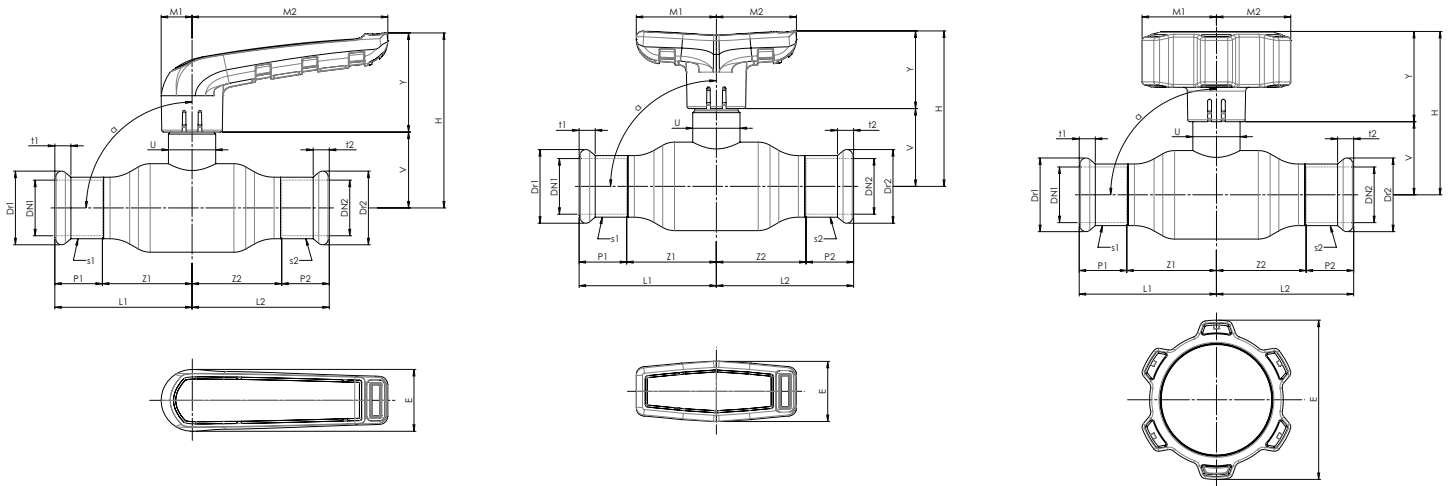
No.	Component	Material	Standard
6	Friction ring	PTFE	
7	Seal	PTFE	
8	Spring support ring	Stainless steel	EN 1.4401
9	Ball	Nickel plated brass	CW617N

Note: Threads in accordance with ISO 228/1

BROEN FULL FLOW DN10-50 | GALVANIZED STEEL

Product data and drawings

Product data and drawings see www.broen.com/products/building-installations or scan the QR code.



BROEN FULL FLOW DN10-50 | Press × Press

Press × Press Galvanized steel			BF101001 Low stem	BF101011 High stem
L-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	15 × 15	1010000100-1100	1010000101-1100
	DN15	18 × 18	1015000100-1100	1015000101-1100
	DN20	22 × 22	1020000100-1100	1020000101-1100
	DN25	28 × 28	1025000100-1100	1025000101-1100
	DN32	35 × 35	1032000100-1100	1032000101-1100
	DN40	42 × 42	1040000100-1100	1040000101-1100
	DN50	54 × 54	1050000100-1100	1050000101-1100

Press × Press Galvanized steel			BF101004 Low stem	BF101014 High stem
T-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	15 × 15	1010000100-1400	1010000101-1400
	DN15	18 × 18	1015000100-1400	1015000101-1400
	DN20	22 × 22	1020000100-1400	1020000101-1400
	DN25	28 × 28	1025000100-1400	1025000101-1400
	DN32	35 × 35	1032000100-1400	1032000101-1400

Press × Press Galvanized steel			BF101002 Low stem	BF101014 High stem
Gear-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	15 × 15	1010000100-1200	1010000101-1200
	DN15	18 × 18	1015000100-1200	1015000101-1200
	DN20	22 × 22	1020000100-1200	1020000101-1200
	DN25	28 × 28	1025000100-1200	1025000101-1200
	DN32	35 × 35	1032000100-1200	1032000101-1200
	DN40	42 × 42	1040000100-1200	1040000101-1200
	DN50	54 × 54	1050000100-1200	1050000101-1200

BROEN FULL FLOW DN10-50 | Press × Female

Press × Female Galvanized steel			BF110001 Low stem	BF110011 High stem
L-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	1/2" × 15	1010001010-1100	1010001011-1100
	DN15	3/4" × 18	1015001010-1100	1015001011-1100
	DN20	3/4" × 22	1020001000-1100	1020001001-1100
	DN25	1" × 28	1025001000-1100	1025001001-1100
	DN32	1 1/4" × 35	1032001000-1100	1032001001-1100
	DN40	1 1/2" × 42	1040001000-1100	1040001001-1100
	DN50	2" × 54	1050001000-1100	1050001001-1100

Press × Female Galvanized steel			BF110004 Low stem	BF110014 High stem
T-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	1/2" × 15	1010001010-1400	1010001011-1400
	DN15	3/4" × 18	1015001010-1400	1015001011-1400
	DN20	3/4" × 22	1020001000-1400	1020001001-1400
	DN25	1" × 28	1025001000-1400	1025001001-1400
	DN32	1 1/4" × 35	1032001000-1400	1032001001-1400

Press × Female Galvanized steel			BF110002 Low stem	BF110012 High stem
Gear-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	1/2" × 15	1010001010-1200	1010001011-1200
	DN15	3/4" × 18	1015001010-1200	1015001011-1200
	DN20	3/4" × 22	1020001000-1200	1020001001-1200
	DN25	1" × 28	1025001000-1200	1025001001-1200
	DN32	1 1/4" × 35	1032001000-1200	1032001001-1200
	DN40	1 1/2" × 42	1040001000-1200	1040001001-1200
	DN50	2" × 54	1050001000-1200	1050001001-1200

BROEN FULL FLOW DN10-50 | Press × Male

Press × Male Galvanized steel			BF112001 Low stem	B1212011 High stem
L-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	1/2" × 15	1010001210-1100	1010001211-1100
	DN15	3/4" × 18	1015001210-1100	1015001211-1100
	DN20	3/4" × 22	1020001200-1100	1020001201-1100
	DN25	1" × 28	1025001200-1100	1025001201-1100
	DN32	1 1/4" × 35	1032001200-1100	1032001201-1100
	DN40	1 1/2" × 42	1040001200-1100	1040001201-1100
	DN50	2" × 54	1050001200-1100	1050001201-1100

Press × Male Galvanized steel			BF120004 Low stem	BF120014 High stem
T-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	1/2" × 15	1010001210-1400	1010001211-1400
	DN15	3/4" × 18	1015001210-1400	1015001211-1400
	DN20	3/4" × 22	1020001200-1400	1020001201-1400
	DN25	1" × 28	1025001200-1400	1025001201-1400
	DN32	1 1/4" × 35	1032001200-1400	1032001201-1400

Press × Male Galvanized steel			BF120002 Low stem	B1220012 High stem
Gear-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	1/2" × 15	1010001210-1200	1010001211-1200
	DN15	3/4" × 18	1015001210-1200	1015001211-1200
	DN20	3/4" × 22	1020001200-1200	1020001201-1200
	DN25	1" × 28	1025001200-1200	1025001201-1200
	DN32	1 1/4" × 35	1032001200-1200	1032001201-1200
	DN40	1 1/2" × 42	1040001200-1200	1040001201-1200
	DN50	2" × 54	1050001200-1200	1050001201-1200

BROEN FULL FLOW DN10-50 | Swivel × Press

Swivel × Press Galvanized steel			BF114001 Low stem	BF114011 High stem
L-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	3/4" × 15	1010001410-1100	1010001411-1100
	DN15	3/4" × 18	1015001400-1100	1015001401-1100
	DN20	3/4" × 22	1020001410-1100	1020001411-1100
	DN25	1 1/4" × 28	1025001400-1100	1025001401-1100
	DN32	1 1/2" × 35	1032001400-1100	1032001401-1100
	DN40	1 3/4" × 42	1040001400-1100	1040001401-1100
	DN50	2 1/4" × 54	1050001400-1100	1050001401-1100

Swivel × Press Galvanized steel			BF114004 Low stem	BF114014 High stem
T-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	3/4" × 15	1010001410-1400	1010001411-1400
	DN15	3/4" × 18	1015001400-1400	1015001401-1400
	DN20	3/4" × 22	1020001410-1400	1020001411-1400
	DN25	1 1/4" × 28	1025001400-1400	1025001401-1400
	DN32	1 1/2" × 35	1032001400-1400	1032001401-1400

Swivel × Press Galvanized steel			BF114002 Low stem	BF114012 High stem
Gear-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	3/4" × 15	1010001410-1200	1010001411-1200
	DN15	3/4" × 18	1015001400-1200	1015001401-1200
	DN20	3/4" × 22	1020001410-1200	1020001411-1200
	DN25	1 1/4" × 28	1025001400-1200	1025001401-1200
	DN32	1 1/2" × 35	1032001400-1200	1032001401-1200
	DN40	1 3/4" × 42	1040001400-1200	1040001401-1200
	DN50	2 1/4" × 54	1050001400-1200	1050001401-1200

BROEN FULL FLOW DN10-50 | Female × Female

Female × Female Galvanized steel			BF120001 Low stem	BF120011 High stem
L-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	3/8" × 3/8"	1010002000-1100	1010002001-1100
	DN15	1/2" × 1/2"	1015002000-1100	1015002001-1100
	DN20	3/4" × 3/4"	1020002000-1100	1020002001-1100
	DN25	1" × 1"	1025002000-1100	1025002001-1100
	DN32	1 1/4" × 1 1/4"	1032002000-1100	1032002001-1100
	DN40	1 1/2" × 1 1/2"	1040002000-1100	1040002001-1100
	DN50	2" × 2"	1050002000-1100	1050002001-1100

Female × Female Galvanized steel			BF122004 Low stem	BF122014 High stem
T-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	3/8" × 3/8"	1010002000-1400	1010002001-1400
	DN15	1/2" × 1/2"	1015002000-1400	1015002001-1400
	DN20	3/4" × 3/4"	1020002000-1400	1020002001-1400
	DN25	1" × 1"	1025002000-1400	1025002001-1400
	DN32	1 1/4" × 1 1/4"	1032002000-1400	1032002001-1400

Female × Female Galvanized steel			BF112002 Low stem	BF112012 High stem
Gear-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	3/8" × 3/8"	1010002000-1200	1010002001-1200
	DN15	1/2" × 1/2"	1015002000-1200	1015002001-1200
	DN20	3/4" × 3/4"	1020002000-1200	1020002001-1200
	DN25	1" × 1"	1025002000-1200	1025002001-1200
	DN32	1 1/4" × 1 1/4"	1032002000-1200	1032002001-1200
	DN40	1 1/2" × 1 1/2"	1040002000-1200	1040002001-1200
	DN50	2" × 2"	1050002000-1200	1050002001-1200

BROEN FULL FLOW DN10-50 | Female × Swivel

Female × Swivel Galvanized steel			BF122001 Low stem	BF122011 High stem
L-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	1/2" × 3/8"	1010002200-1100	1010002201-1100
	DN15	3/4" × 1/2"	1015002200-1100	1015002201-1100
	DN20	3/4" × 3/4"	1020002210-1100	1020002211-1100
	DN20	1" × 3/4"	1020002200-1100	1020002201-1100
	DN25	1 1/4" × 1"	1025002200-1100	1025002201-1100
	DN32	1 1/2" × 1 1/4"	1032002200-1100	1032002201-1100
	DN40	2" × 1 1/2"	1040002210-1100	1040002211-1100
	DN50	2 1/4" × 2"	1050002200-1100	1050002201-1100

Female × Swivel Galvanized steel			BF122004 Low stem	BF122014 High stem
T-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	1/2" × 3/8"	1010002200-1400	1010002201-1400
	DN15	3/4" × 1/2"	1015002200-1400	1015002201-1400
	DN20	3/4" × 3/4"	1020002210-1400	1020002211-1400
	DN20	1" × 3/4"	1020002200-1400	1020002201-1400
	DN25	1 1/4" × 1"	1025002200-1400	1025002201-1400
	DN32	1 1/2" × 1 1/4"	1032002200-1400	1032002201-1400

Female × Swivel Galvanized steel			BF122002 Low stem	BF122012 High stem
Gear-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	1/2" × 3/8"	1010002200-1200	1010002201-1200
	DN15	3/4" × 1/2"	1015002200-1200	1015002201-1200
	DN20	3/4" × 3/4"	1020002210-1200	1020002211-1200
	DN20	1" × 3/4"	1020002200-1200	1020002201-1200
	DN25	1 1/4" × 1"	1025002200-1200	1025002201-1200
	DN32	1 1/2" × 1 1/4"	1032002200-1200	1032002201-1200
	DN40	2" × 1 1/2"	1040002210-1200	1040002211-1200
	DN50	2 1/4" × 2"	1050002200-1200	1050002201-1200

BROEN FULL FLOW DN10-50 | Female x Male

Female x Male Galvanized steel			BF124001 Low stem	BF124011 High stem
L-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	3/8" x 3/8"	1010002400-1100	1010002401-1100
	DN15	1/2" x 1/2"	1015002400-1100	1015002401-1100
	DN20	3/4" x 3/4"	1020002400-1100	1020002401-1100
	DN25	1" x 1"	1025002400-1100	1025002401-1100
	DN32	1 1/4" x 1 1/4"	1032002400-1100	1032002401-1100
	DN40	1 1/2" x 1 1/2"	1040002400-1100	1040002401-1100
	DN50	2" x 2"	1050002400-1100	1050002401-1100

Female x Male Galvanized steel			BF124004 Low stem	BF124014 High stem
T-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	3/8" x 3/8"	1010002400-1400	1010002401-1400
	DN15	1/2" x 1/2"	1015002400-1400	1015002401-1400
	DN20	3/4" x 3/4"	1020002400-1400	1020002401-1400
	DN25	1" x 1"	1025002400-1400	1025002401-1400
	DN32	1 1/4" x 1 1/4"	1032002400-1400	1032002401-1400

Female x Male Galvanized steel			BF124002 Low stem	BF124012 High stem
Gear-Handle	DN	Dim.	Art. no.	Art. no.
	DN10	3/8" x 3/8"	1010002400-1200	1010002401-1200
	DN15	1/2" x 1/2"	1015002400-1200	1015002401-1200
	DN20	3/4" x 3/4"	1020002400-1200	1020002401-1200
	DN25	1" x 1"	1025002400-1200	1025002401-1200
	DN32	1 1/4" x 1 1/4"	1032002400-1200	1032002401-1200
	DN40	1 1/2" x 1 1/2"	1040002400-1200	1040002401-1200
	DN50	2" x 2"	1050002400-1200	1050002401-1200

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