

BROEN

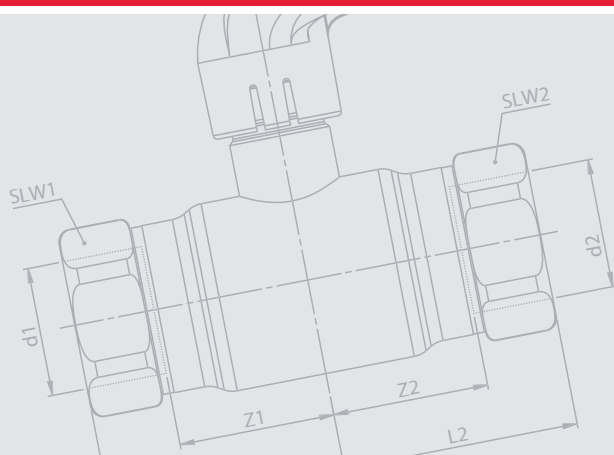
VALVE TECHNOLOGIES



NEXT GENERATION VALVE TECHNOLOGY

RELIABILITY AND QUALITY FOR MODERN BUILDINGS

BALLOFIX®
FULL FLOW





BROEN A/S 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 A/S is certified in accordance with ISO 9001.

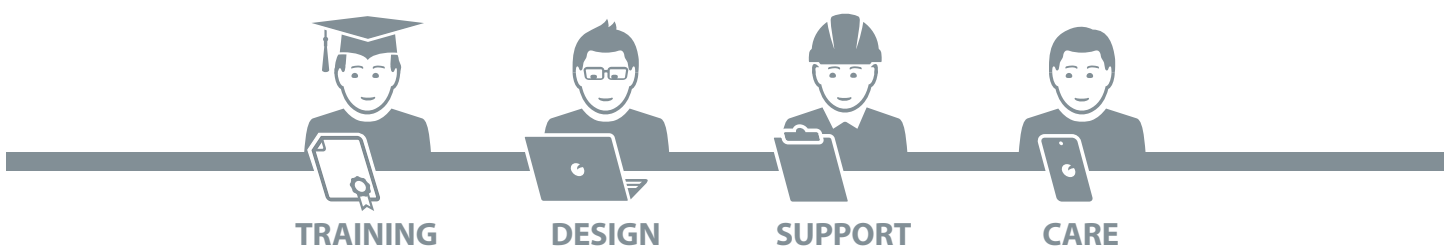
New Thinking by BROEN

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.



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.

BALLOFIX®

FULL FLOW

Next generation valve technology

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

BROEN Ballofix® Full Flow is a new valve that provides many more options for complete solutions with uniform connection technology and material properties.

The new Ballofix® 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.

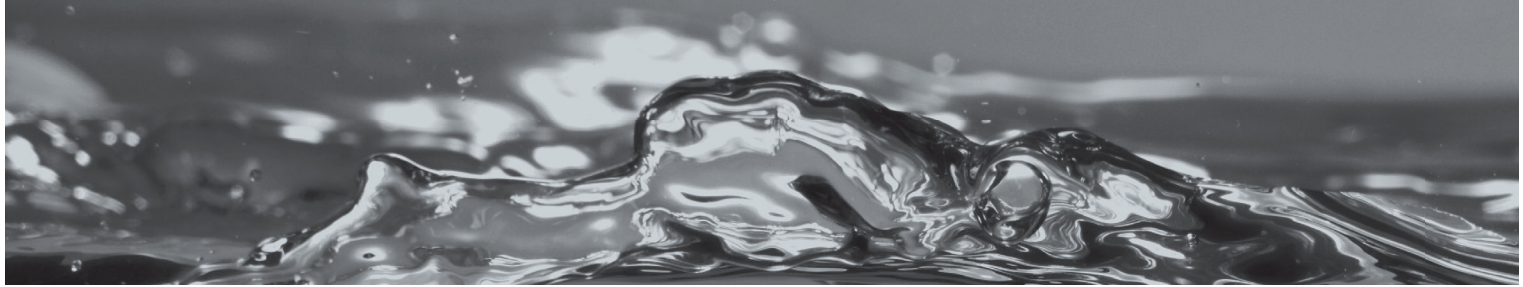


- All Systems – One Technology
- Compact Full Flow design
- Connection flexibility
- Unique valve identification
- Danish Innovation – produced in Denmark

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

BROEN Ballofix® Full Flow

Next generation valve technology



BROEN Ballofix® Full Flow is available in stainless steel or galvanized steel – developed to suit any application

Domestic water

BROEN Ballofix® Full Flow ensures that all standards that apply to water and domestic water systems are complied with. Stainless-steel BROEN Ballofix® Full Flow valves are corrosion-resistant in relation to ordinary domestic water. All metal parts in BROEN Ballofix® 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 Ballofix® 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 Ballofix® 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 Ballofix® Full Flow valves are the optimal choice when energy efficiency is important.

Cooling systems

BROEN Ballofix® 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 Ballofix® Full Flow valves with extended stems also help to ensure the correct diffusion-proof insulation of the entire installation.

Compressed air

BROEN Ballofix® 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.

BALLOFIX®

FULL FLOW



BROEN Ballofix® Full Flow – Stainless steel ball valve

BROEN Ballofix® Full Flow ventiler 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 Ballofix® Full Flow – Galvanized steel ball valve

BROEN Ballofix® 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

BROEN Ballofix® Full Flow

Next generation valve technology

Compact Full Flow design

The compact BROEN Ballofix® 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 Ballofix® 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.

Seat design

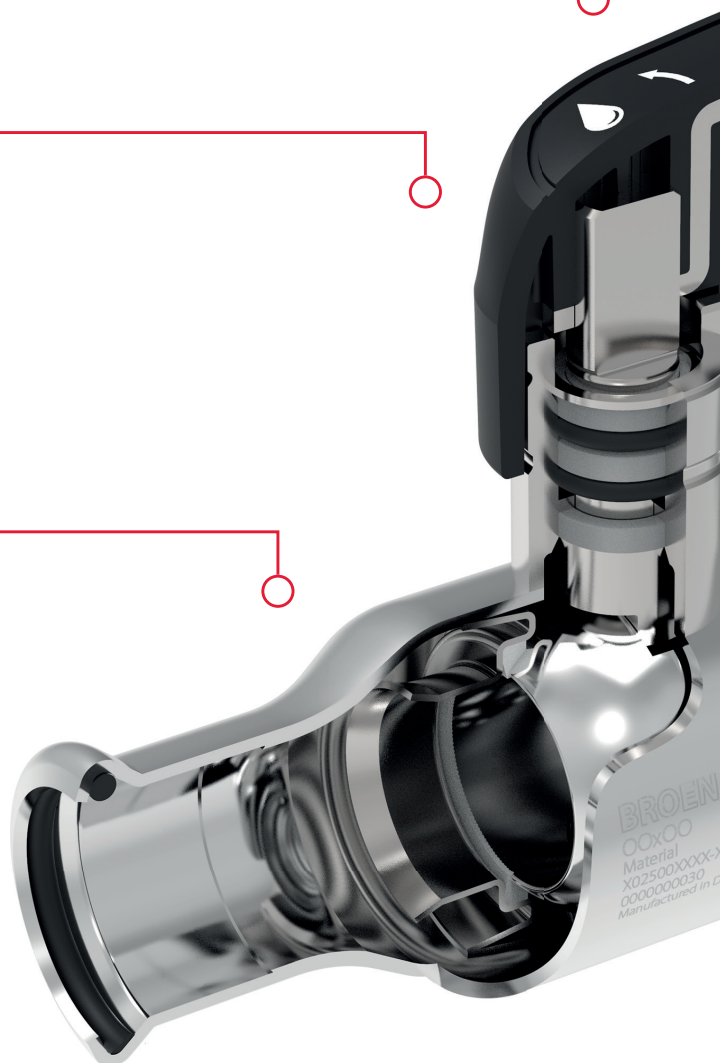
The patented spring supported seat design ensures optimal tightness, smooth operation and long lifetime.

Leak Before Press

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

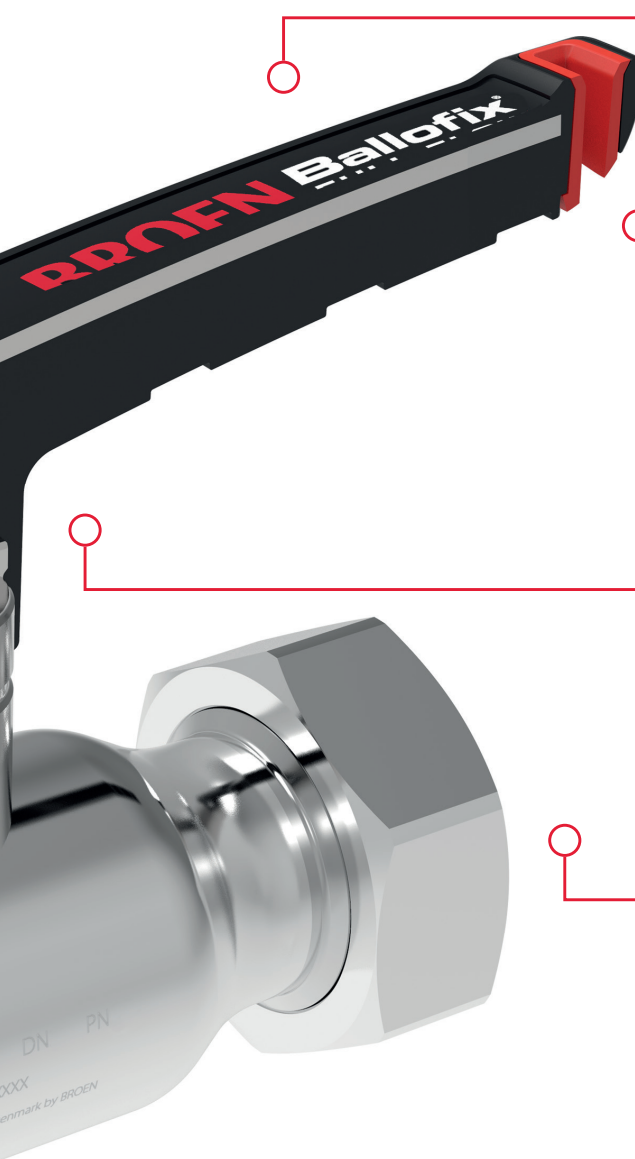
Unique valve identification

All BROEN Ballofix® 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.



BALLOFIX®

FULL FLOW



Handle

The ergonomic handle is specially designed for easy activation. The handle is made from fibreglass-reinforced nylon cast around a metal reinforcement and it can be fitted in both directions without the use of tools.

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.

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.

Connection flexibility

The BROEN Ballofix® 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 Ballofix® 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 Ballofix® Full Flow overview

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

Technical data

BROEN Ballofix® Full Flow – STAINLESS STEEL

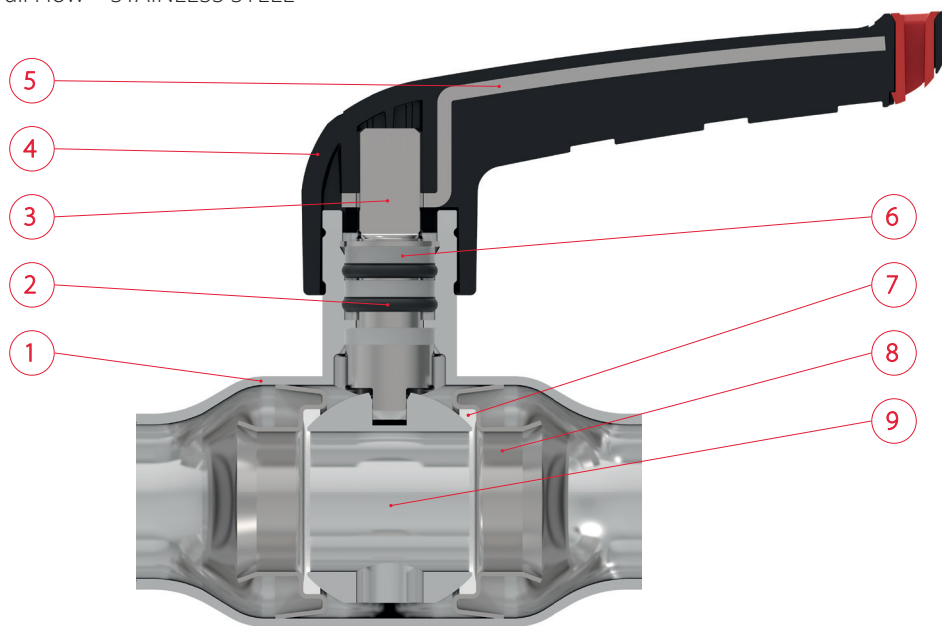
Material, valve housing:	Stainless steel EN 1.4404
Material, handle:	PA66 - fiberglass-reinforced nylon with metal insert
Sizes:	DN10-50
Seals:	PTFE*
O-rings:	EPDM**
Connections:	Press, female, male and swivel nut
Leakage protection:	LBP - Leak Before Press
Medium:	Water
Operating pressure:	Max. 16 bar (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



Product description

BROEN Ballofix® Full Flow – STAINLESS STEEL



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	Galvanized steel	EN 1.4401

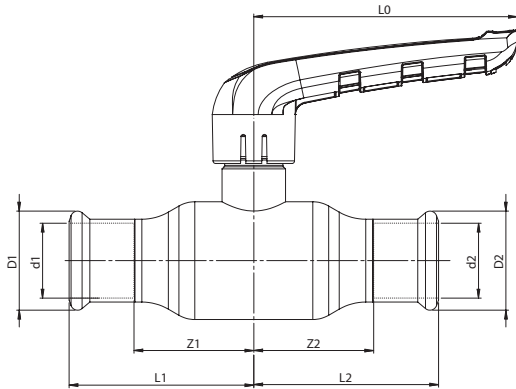
No.	Component	Material	Standard
6	Friction ring	PTFE	
7	Seal	PTFE	
8	Spring support ring	Stainless steel	EN 1.4401
9	Ball	Stainless steel	EN 1.4401

Note: Threads in accordance with ISO 228/1

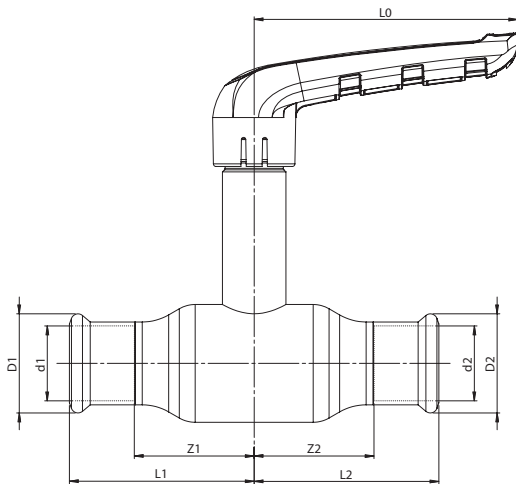
BROEN Ballofix® Full Flow ball valve BXF20100 / BXF20101

Stainless Steel | Press × Press

Can be used in piping systems made of stainless steel. Is approved for use in drinking water installations as well as in cooling and heating systems. M-jaws are used for pressing, in accordance with published tool list.



Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
2010000100-0100	DN10	15 × 15	15	15	23.4	23.4	74.8	47.0	47.0	47.0	27.6	27.6	-	-
2015000100-0100	DN15	18 × 18	18	18	26.45	26.45	74.8	52.0	52.0	52.0	33.8	33.8	-	-
2020000100-0100	DN20	22 × 22	22	22	31.65	31.65	74.8	60.5	60.5	60.5	40.6	40.6	-	-
2025000100-0100	DN25	28 × 28	28	28	37.45	37.45	99.6	67.5	67.5	67.5	45.6	45.6	-	-
2032000100-0100	DN32	35 × 35	35	35	44.55	44.55	99.6	80.2	80.2	80.2	55.6	55.6	-	-
2040000100-0100	DN40	42 × 42	42	42	53.55	53.55	119.3	99.0	99.0	99.0	69.8	69.8	-	-
2050000100-0100	DN50	54 × 54	54	54	65.25	65.25	119.3	113.0	113.0	113.0	79.0	79.0	-	-

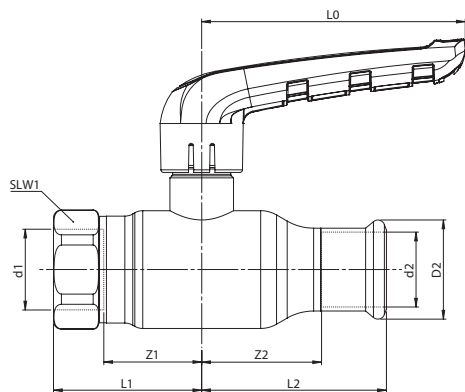


Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
2010000101-0100	DN10	15 × 15	15	15	23.4	23.4	74.8	47.0	47.0	47.0	27.6	27.6	-	-
2015000101-0100	DN15	18 × 18	18	18	26.45	26.45	74.8	52.0	52.0	52.0	33.8	33.8	-	-
2020000101-0100	DN20	22 × 22	22	22	31.65	31.65	74.8	60.5	60.5	60.5	40.6	40.6	-	-
2025000101-0100	DN25	28 × 28	28	28	37.45	37.45	99.6	67.5	67.5	67.5	45.6	45.6	-	-
2032000101-0100	DN32	35 × 35	35	35	44.55	44.55	99.6	80.2	80.2	80.2	55.6	55.6	-	-
2040000101-0100	DN40	42 × 42	42	42	53.55	53.55	119.3	99.0	99.0	99.0	69.8	69.8	-	-
2050000101-0100	DN50	54 × 54	54	54	65.25	65.25	119.3	113.0	113.0	113.0	79.0	79.0	-	-

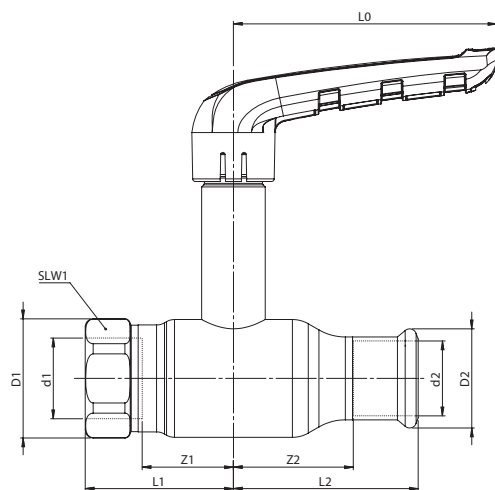
BROEN Ballofix® Full Flow ball valve BXF21000 / BXF21001

Stainless Steel | Female × Press

Can be used in piping systems made of stainless steel. Is approved for use in drinking water installations as well as in cooling and heating systems. M-jaws are used for pressing, in accordance with published tool list.



Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
2010001010-0100	DN10	1/2" × 15	21	15	30.0	23.4	74.8	46.2	47.0	47.0	34.7	27.6	27	-
2015001010-0100	DN15	3/4" × 18	26	18	35.0	26.45	74.8	51.0	52.0	52.0	39.5	33.8	32	-
2020001000-0100	DN20	3/4" × 22	26	22	40.0	31.65	74.8	52.0	59.0	59.0	36.0	39.1	36	-
2025001000-0100	DN25	1" × 28	33	28	45.0	37.45	99.6	56.0	67.5	67.5	37.0	45.6	41	-
2032001000-0100	DN32	1 1/4" × 35	42	35	55.0	44.55	99.6	70.0	80.2	80.2	49.0	56.5	50	-
2040001000-0100	DN40	1 1/2" × 42	48	42	59.3	53.55	119.3	78.0	99.0	99.0	57.0	69.8	56	-
2050001000-0100	DN50	2" × 54	59	54	76.1	65.25	119.3	96.0	113.0	113.0	69.0	79.0	69	-

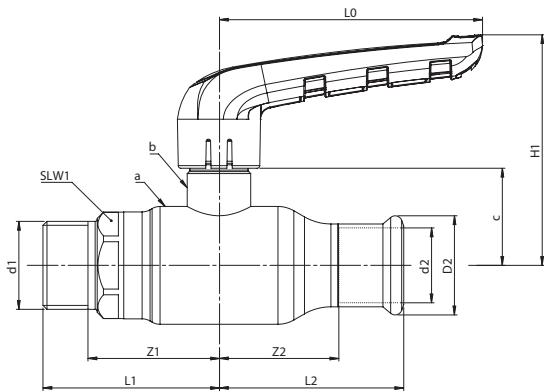


Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
2010001011-0100	DN10	1/2" × 15	21	15	30.0	23.4	74.8	46.2	47.0	47.0	34.7	27.6	27	-
2015001011-0100	DN15	3/4" × 18	26	18	35.0	26.45	74.8	51.0	52.0	52.0	39.5	33.8	32	-
2020001001-0100	DN20	3/4" × 22	26	22	40.0	31.65	74.8	52.0	59.0	59.0	36.0	39.1	36	-
2025001001-0100	DN25	1" × 28	33	28	45.0	37.45	99.6	56.0	67.5	67.5	37.0	45.6	41	-
2032001001-0100	DN32	1 1/4" × 35	42	35	55.0	44.55	99.6	70.0	80.2	80.2	49.0	56.5	50	-
2040001001-0100	DN40	1 1/2" × 42	48	42	59.3	53.55	119.3	78.0	99.0	99.0	57.0	69.8	56	-
2050001001-0100	DN50	2" × 54	59	54	76.1	65.25	119.3	96.0	113.0	113.0	69.0	79.0	69	-

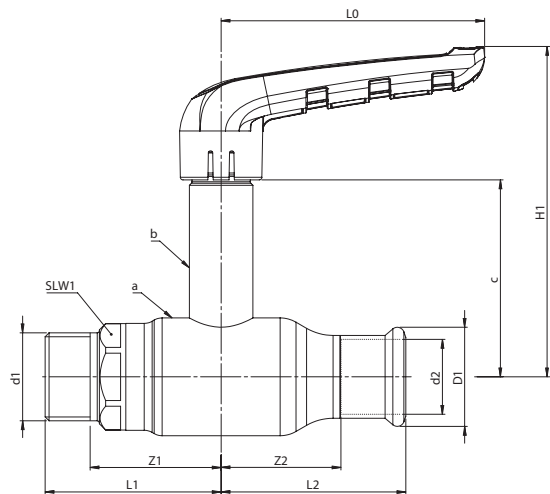
BROEN Ballofix® Full Flow ball valve BXF21200 / BXF21201

Stainless Steel | Press × Male

Can be used in piping systems made of stainless steel. Is approved for use in drinking water installations as well as in cooling and heating systems. M-jaws are used for pressing, in accordance with published tool list.



Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
2010001210-0100	DN10	1/2" × 15	21	15	22.7	23.4	74.8	51.0	48.8	48.8	40.0	27.0	21	-
2015001210-0100	DN15	3/4" × 18	26	18	26.9	26.45	74.8	58.5	52.3	52.3	44.0	30.5	27	-
2020001200-0100	DN20	3/4" × 22	26	22	33.7	31.65	74.8	56.0	61.2	61.2	41.5	38.88	30	-
2025001200-0100	DN25	1" × 28	33	28	40.2	37.45	99.6	66.5	69.8	69.8	49.5	45.28	36	-
2032001200-0100	DN32	1 1/4" × 35	42	35	49.5	44.55	99.6	79.0	82.8	82.8	59.0	55.28	46	-
2040001200-0100	DN40	1 1/2" × 42	48	42	59.3	53.55	119.3	89.0	100.8	100.8	69.9	69.28	55	-
2050001200-0100	DN50	2" × 54	59	54	76.1	65.25	119.3	112.0	115.8	115.8	86.0	79.9	69	-

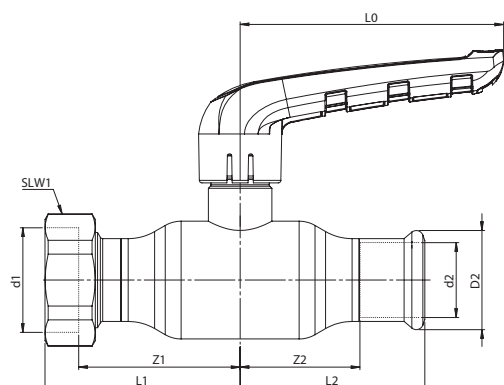


Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
2010001211-0100	DN10	1/2" × 15	21	15	22.7	23.4	74.8	51.0	48.8	48.8	40.0	27.0	21	-
2015001211-0100	DN15	3/4" × 18	26	18	26.9	26.45	74.8	58.5	52.3	52.3	44.0	30.5	27	-
2020001201-0100	DN20	3/4" × 22	26	22	33.7	31.65	74.8	56.0	61.2	61.2	41.5	38.88	30	-
2025001201-0100	DN25	1" × 28	33	28	40.2	37.45	99.6	66.5	69.8	69.8	49.5	45.28	36	-
2032001201-0100	DN32	1 1/4" × 35	42	35	49.5	44.55	99.6	79.0	82.8	82.8	59.0	55.28	46	-
2040001201-0100	DN40	1 1/2" × 42	48	42	59.3	53.55	119.3	88.0	100.8	100.8	68.9	69.28	55	-
2050001201-0100	DN50	2" × 54	59	54	76.1	65.25	119.3	112.0	115.8	115.8	86.0	79.9	69	-

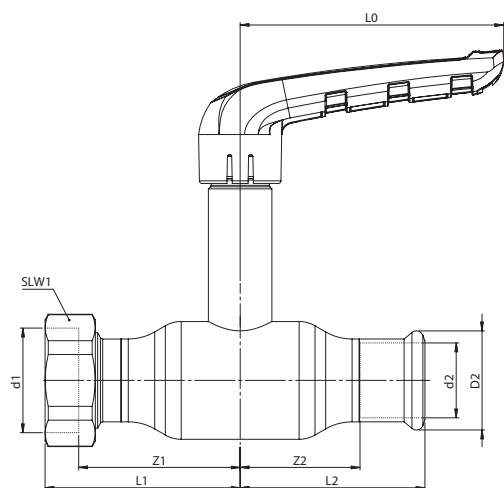
BROEN Ballofix® Full Flow ball valve BXF21400 / BXF21401

Stainless Steel | Swivel × Press

Can be used in piping systems made of stainless steel. Is approved for use in drinking water installations as well as in cooling and heating systems. M-jaws are used for pressing, in accordance with published tool list.



Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
2010001410-0100	DN10	3/4" × 15	26	15	35.0	23.4	74.8	52.0	47.0	47.0	43.0	27.6	32	-
2015001400-0100	DN15	3/4" × 18	26	18	35.0	26.45	74.8	57.9	52.0	52.0	48.0	33.8	32	-
2020001410-0100	DN20	3/4" × 22	26	22	35.0	31.65	74.8	68.75	57.75	57.75	59.25	40.6	32	-
2025001400-0100	DN25	1 1/4" × 28	42	28	52.0	37.45	99.6	73.9	67.5	67.5	61.0	45.6	46	-
2032001400-0100	DN32	1 1/2" × 35	48	35	56.0	44.55	99.6	83.1	80.2	80.2	70.7	55.6	52	-
2040001400-0100	DN40	1 3/4" × 42	54	42	62.5	53.55	119.3	92.4	99.0	99.0	81.0	69.8	58	-
2050001400-0100	DN50	2 1/4" × 54	66	54	77.0	65.25	119.3	111.2	113.0	113.0	98.0	79.0	72	-

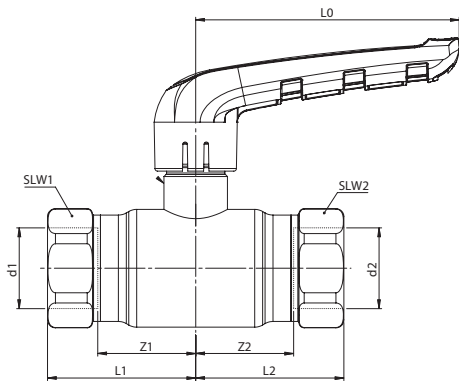


Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
2010001411-0100	DN10	3/4" × 15	26	15	35.0	23.4	74.8	52.0	47.0	47.0	43.0	27.6	32	-
2015001401-0100	DN15	3/4" × 18	26	18	35.0	26.45	74.8	57.9	52.0	52.0	48.0	33.8	32	-
2020001411-0100	DN20	3/4" × 22	26	22	35.0	31.65	74.8	68.75	57.75	57.75	59.25	40.6	32	-
2025001401-0100	DN25	1 1/4" × 28	42	28	52.0	37.45	99.6	73.9	67.5	67.5	61.0	45.6	46	-
2032001401-0100	DN32	1 1/2" × 35	48	35	56.0	44.55	99.6	83.1	80.2	80.2	70.7	55.6	52	-
2040001401-0100	DN40	1 3/4" × 42	54	42	62.5	53.55	119.3	92.4	99.0	99.0	81.0	69.8	58	-
2050001401-0100	DN50	2 1/4" × 54	66	54	77.0	65.25	119.3	111.2	113.0	113.0	98.0	79.0	72	-

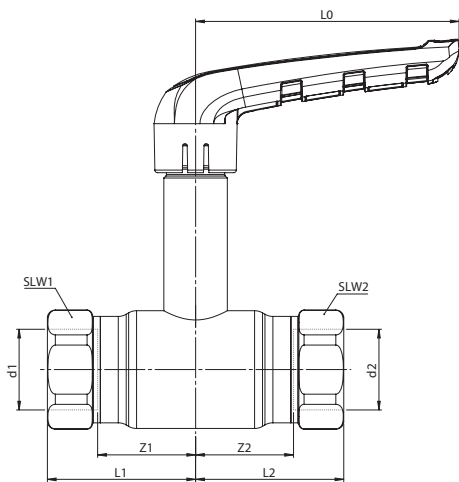
BROEN Ballofix® Full Flow ball valve BXF22000 / BXF22001

Stainless Steel | Female × Female

Can be used in piping systems made of stainless steel. Is approved for use in drinking water installations as well as in cooling and heating systems.



Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
2010002000-0100	DN10	3/8" × 3/8"	16	16	27.0	27.0	74.8	37.0	37.0	37.0	25.5	25.5	24	24
2015002000-0100	DN15	1/2" × 1/2"	21	21	30.0	30.0	74.8	47.5	47.5	47.5	36.0	36.0	27	27
2020002000-0100	DN20	3/4" × 3/4"	26	26	40.0	40.0	74.8	52.0	52.0	52.0	36.0	36.0	36	36
2025002000-0100	DN25	1" × 1"	33	33	45.0	45.0	99.6	56.0	56.0	56.0	37.0	34.0	41	41
2032002000-0100	DN32	1 1/4" × 1 1/4"	42	42	55.0	55.0	99.6	67.0	67.0	67.0	46.0	46.0	50	50
2040002000-0100	DN40	1 1/2" × 1 1/2"	48	47	59.3	59.3	119.3	78.0	78.0	78.0	57.0	57.0	56	56
2050002000-0100	DN50	2" × 2"	60	59	76.1	76.1	119.3	96.0	96.0	96.0	69.0	69.0	69	69

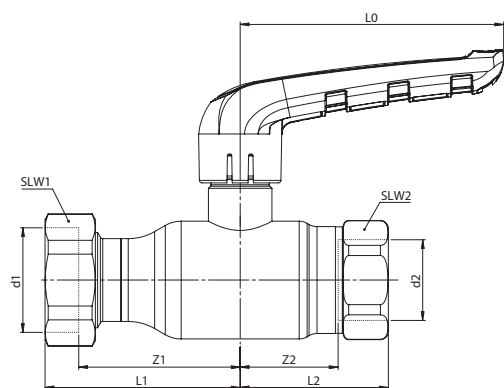


Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
2010002001-0100	DN10	3/8" × 3/8"	16	16	27.0	27.0	74.8	37.0	37.0	37.0	25.5	25.5	24	24
2015002001-0100	DN15	1/2" × 1/2"	21	21	30.0	30.0	74.8	47.5	47.5	47.5	36.0	36.0	27	27
2020002001-0100	DN20	3/4" × 3/4"	26	26	40.0	40.0	74.8	52.0	52.0	52.0	36.0	36.0	36	36
2025002001-0100	DN25	1" × 1"	33	33	45.0	45.0	99.6	56.0	56.0	56.0	37.0	34.0	41	41
2032002001-0100	DN32	1 1/4" × 1 1/4"	42	42	55.0	55.0	99.6	67.0	67.0	67.0	46.0	46.0	50	50
2040002001-0100	DN40	1 1/2" × 1 1/2"	48	47	59.3	59.3	119.3	78.0	78.0	78.0	57.0	57.0	56	56
2050002001-0100	DN50	2" × 2"	60	59	76.1	76.1	119.3	96.0	96.0	96.0	69.0	69.0	69	69

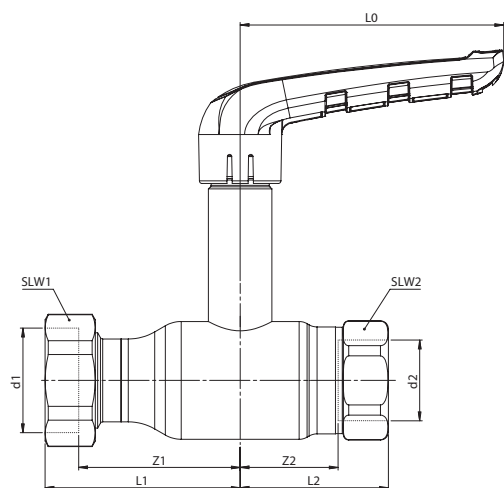
BROEN Ballofix® Full Flow ball valve BXF22200 / BXF22201

Stainless steel | Swivel × Female

Can be used in piping systems made of stainless steel. Is approved for use in drinking water installations as well as in cooling and heating systems.



Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
2010002200-0100	DN10	1/2" × 3/8"	16	21	27.0	30.0	74.8	44.0	59.4	59.4	32.5	49.5	27	24
2015002200-0100	DN15	3/4" × 1/2"	16	26	30.0	35.0	74.8	47.0	57.9	57.9	35.5	48.0	32	27
2020002210-0100	DN20	3/4" × 3/4"	21	26	40.0	35.0	74.8	52.0	68.75	68.75	36.0	59.25	32	36
2020002200-0100	DN20	1" × 3/4"	26	26	40.0	41.0	74.8	52.0	64.85	64.85	36.0	53.25	36	36
2025002200-0100	DN25	1 1/4" × 1"	26	26	45.0	52.0	99.6	56.0	73.9	73.9	37.0	61.0	46	41
2032002200-0100	DN32	1 1/2" × 1 1/4"	33	42	55.0	56.0	99.6	70.0	83.1	83.1	49.0	70.7	52	50
2040002210-0100	DN40	2" × 1 1/2"	48	60	59.3	72.0	119.3	78.0	100.4	100.4	57.0	85.0	69	56
2050002200-0100	DN50	2 1/4" × 2"	60	54	76.1	77.0	119.3	96.0	111.2	111.2	69.0	98.0	72	69

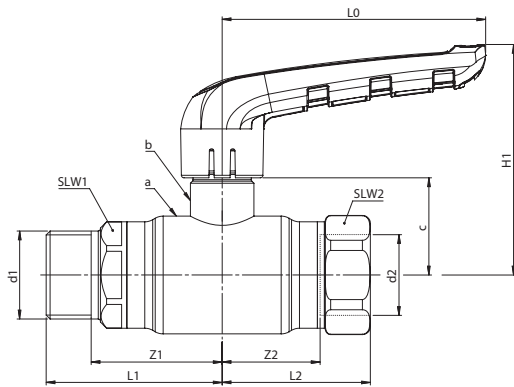


Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
2010002201-0100	DN10	1/2" × 3/8"	16	21	27.0	30.0	74.8	44.0	59.4	59.4	32.5	49.5	27	24
2015002201-0100	DN15	3/4" × 1/2"	16	26	30.0	35.0	74.8	47.0	57.9	57.9	35.5	48.0	32	27
2020002211-0100	DN20	3/4" × 3/4"	21	26	40.0	35.0	74.8	52.0	68.75	68.75	36.0	59.25	32	36
2020002201-0100	DN20	1" × 3/4"	26	33	40.0	41.0	74.8	52.0	64.85	64.85	36.0	53.25	36	36
2025002201-0100	DN25	1 1/4" × 1"	26	26	45.0	52.0	99.6	56.0	73.9	73.9	37.0	61.0	46	41
2032002201-0100	DN32	1 1/2" × 1 1/4"	33	42	55.0	56.0	99.6	70.0	83.1	83.1	49.0	70.7	52	50
2040002211-0100	DN40	2" × 1 1/2"	48	60	59.3	72.0	119.3	78.0	100.4	100.4	57.0	85.0	69	56
2050002201-0100	DN50	2 1/4" × 2"	60	54	76.1	77.0	119.3	96.0	111.2	111.2	69.0	98.0	72	69

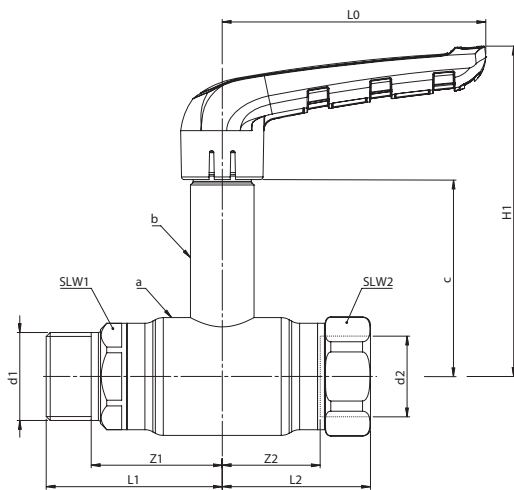
BROEN Ballofix® Full Flow ball valves BXF22400 / BXF22401

Stainless steel | Female × Male

Can be used in piping systems made of stainless steel. Is approved for use in drinking water installations as well as in cooling and heating systems.



Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
2010002400-0100	DN10	3/8" × 3/8"	16	16	27.0	22.7	74.8	37.0	49.0	49.0	25.5	39.5	24	21
2015002400-0100	DN15	1/2" × 1/2"	21	21	30.0	26.9	74.8	47.5	54.5	54.5	36.0	43.5	27	24
2020002400-0100	DN20	3/4" × 3/4"	26	26	40.0	33.7	74.8	52.0	56.0	56.0	36.0	41.5	36	30
2025002400-0100	DN25	1" × 1"	33	33	45.0	40.2	99.6	56.0	66.5	66.5	37.0	49.5	41	36
2032002400-0100	DN32	1 1/4" × 1 1/4"	42	42	55.0	49.5	99.6	67.0	79.0	79.0	46.0	59.0	50	46
2040002400-0100	DN40	1 1/2" × 1 1/2"	48	48	59.3	59.3	119.3	78.0	89.0	89.0	57.0	69.9	56	55
2050002400-0100	DN50	2" × 2"	60	59	76.1	76.1	119.3	96.0	112.0	112.0	69.0	86.0	69	69



Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
2010002401-0100	DN10	3/8" × 3/8"	16	16	27.0	22.7	74.8	37.0	49.0	49.0	25.5	39.5	24	21
2015002401-0100	DN15	1/2" × 1/2"	21	21	30.0	26.9	74.8	47.5	54.5	54.5	36.0	43.5	27	24
2020002401-0100	DN20	3/4" × 3/4"	26	26	40.0	33.7	74.8	52.0	56.0	56.0	36.0	41.5	36	30
2025002401-0100	DN25	1" × 1"	33	33	45.0	40.2	99.6	56.0	66.5	66.5	37.0	49.5	41	36
2032002401-0100	DN32	1 1/4" × 1 1/4"	42	42	55.0	49.5	99.6	67.0	79.0	79.0	46.0	59.0	50	46
2040002401-0100	DN40	1 1/2" × 1 1/2"	48	48	59.3	59.3	119.3	78.0	89.0	89.0	57.0	69.9	56	55
2050002401-0100	DN50	2" × 2"	60	59	76.1	76.1	119.3	96.0	112.0	112.0	69.0	86.0	69	69

Technical data

BROEN Ballofix® Full Flow – GALVANIZED STEEL

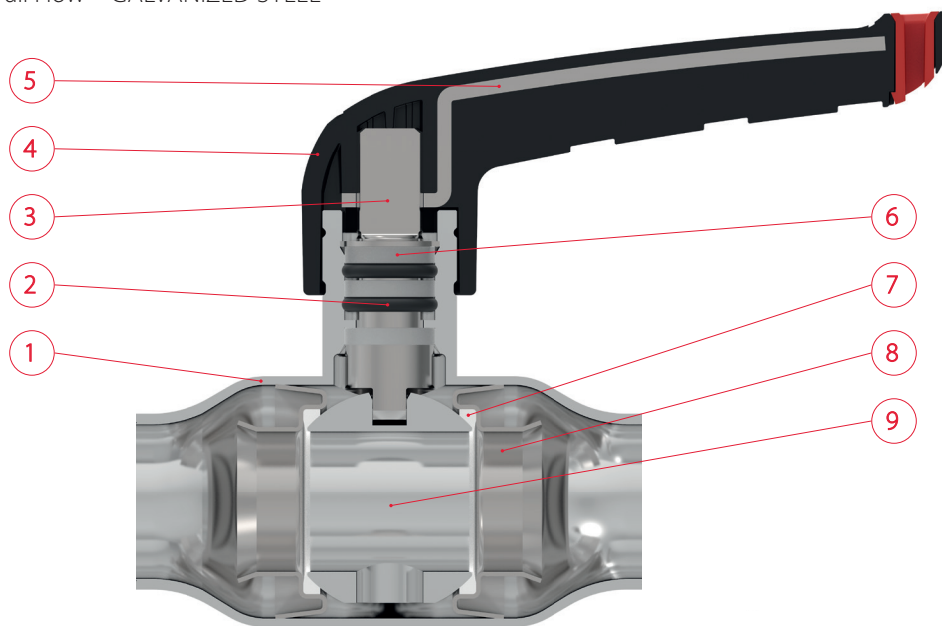
Material, valve housing:	P235GH in accordance with EN 10217-2
Material, handle:	PA66 - fiberglass-reinforced nylon with metal insert
Sizes:	DN10-50
Seals:	PTFE*
O-rings:	EPDM**
Connections:	Press, female, male and swivel nut
Leakage protection:	LBP - Leak Before Press
Medium:	Water
Operating pressure:	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



Product description

BROEN Ballofix® Full Flow – GALVANIZED STEEL



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	

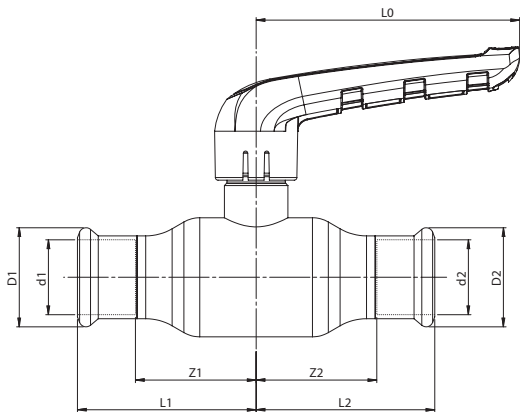
No.	Component	Material	Standard
6	Friction ring	PTFE	
7	Seal	PTFE	
8	Spring support ring	Stainless steel	EN 1.4401
9	Ball	Nickel plated brass	CW617N

Note: Threads in accordance with ISO 228/1

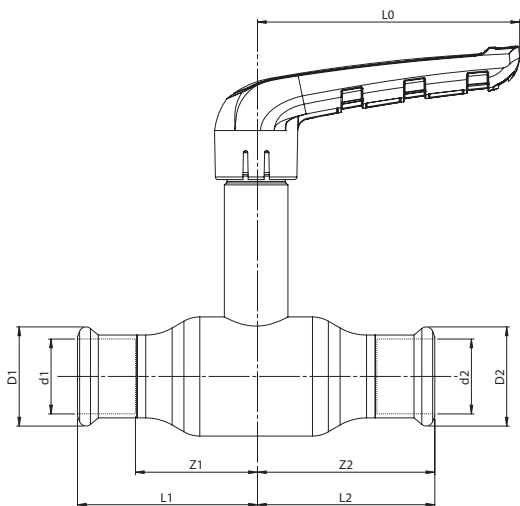
BROEN Ballofix® Full Flow ball valve BXF10100 / BXF10101

Galvanized steel | Press × Press

Can be used in piping systems made of galvanized steel. Is approved for use in closed cooling and heating systems. M-jaws are used for pressing, in accordance with published tool list.



Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
1010000100-1100	DN10	15 × 15	15	15	23.4	23.4	74.8	47.0	47.0	47.0	27.6	27.6	-	-
1015000100-1100	DN15	18 × 18	18	18	26.45	26.45	74.8	52.0	52.0	52.0	33.8	33.8	-	-
1020000100-1100	DN20	22 × 22	22	22	31.65	31.65	74.8	60.5	60.5	60.5	40.6	40.6	-	-
1025000100-1100	DN25	28 × 28	28	28	37.45	37.45	99.6	67.5	67.5	67.5	45.6	45.6	-	-
1032000100-1100	DN32	35 × 35	35	35	44.55	44.55	99.6	80.2	80.2	80.2	55.6	55.6	-	-
1040000100-1100	DN40	42 × 42	42	42	53.55	53.55	119.3	99.0	99.0	99.0	69.8	69.8	-	-
1050000100-1100	DN50	54 × 54	54	54	65.25	65.25	119.3	113.0	113.0	113.0	79.0	79.0	-	-

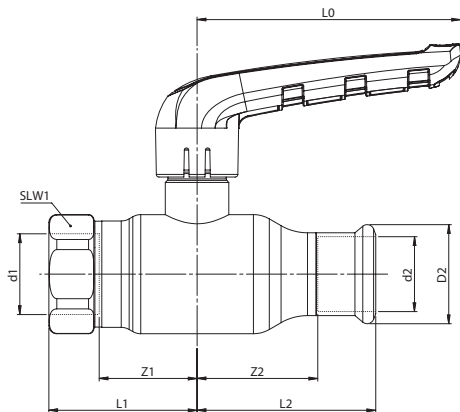


Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
1010000101-1100	DN10	15 × 15	15	15	23.4	23.4	74.8	47.0	47.0	47.0	27.6	27.6	-	-
1015000101-1100	DN15	18 × 18	18	18	26.45	26.45	74.8	52.0	52.0	52.0	33.8	33.8	-	-
1020000101-1100	DN20	22 × 22	22	22	31.65	31.65	74.8	60.5	60.5	60.5	40.6	40.6	-	-
1025000101-1100	DN25	28 × 28	28	28	37.45	37.45	99.6	67.5	67.5	67.5	45.6	45.6	-	-
1032000101-1100	DN32	35 × 35	35	35	44.55	44.55	99.6	80.2	80.2	80.2	55.6	55.6	-	-
1040000101-1100	DN40	42 × 42	42	42	53.55	53.55	119.3	99.0	99.0	99.0	69.8	69.8	-	-
1050000101-1100	DN50	54 × 54	54	54	65.25	65.25	119.3	113.0	113.0	113.0	79.0	79.0	-	-

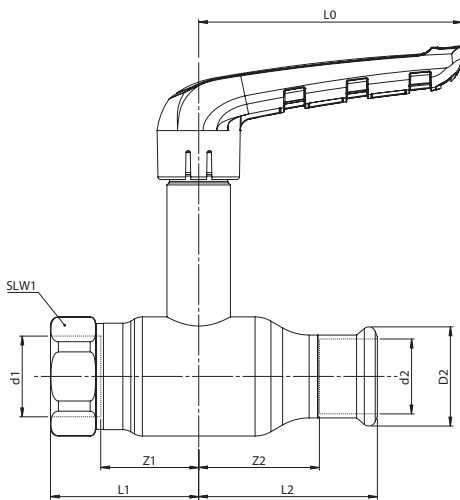
BROEN Ballofix® Full Flow ball valve BXF11000 / BXF11001

Galvanized steel | Female × Press

Can be used in piping systems made of galvanized steel. Is approved for use in closed cooling and heating systems. M-jaws are used for pressing, in accordance with published tool list.



Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
1010001010-1100	DN10	1/2" × 15	21	15	30.0	23.4	74.8	46.2	47.0	47.0	34.7	27.6	27	-
1015001010-1100	DN15	3/4" × 18	26	18	35.0	26.45	74.8	51.0	52.0	52.0	39.5	33.8	32	-
1020001000-1100	DN20	3/4" × 22	26	22	40.0	31.65	74.8	52.0	59.0	59.0	36.0	39.1	36	-
1025001000-1100	DN25	1" × 28	33	28	45.0	37.45	99.6	56.0	67.5	67.5	37.0	45.6	41	-
1032001000-1100	DN32	1 1/4" × 35	42	35	55.0	44.55	99.6	70.0	80.2	80.2	49.0	56.5	50	-
1040001000-1100	DN40	1 1/2" × 42	48	42	59.3	53.55	119.3	78.0	99.0	99.0	57.0	69.8	56	-
1050001000-1100	DN50	2" × 54	59	54	76.1	65.25	119.3	96.0	113.0	113.0	69.0	79.0	69	-

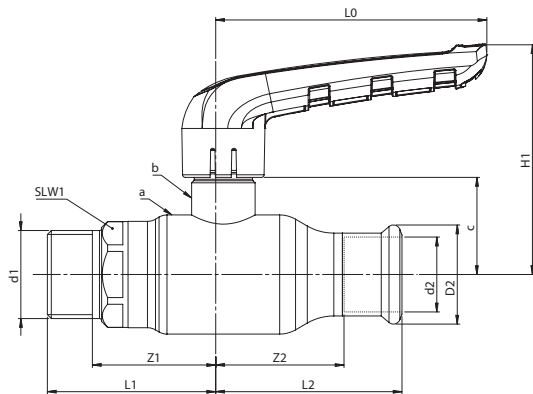


Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
1010001011-1100	DN10	1/2" × 15	21	15	30.0	23.4	74.8	46.2	47.0	47.0	34.7	27.6	27	-
1015001011-1100	DN15	3/4" × 18	26	18	35.0	26.45	74.8	51.0	52.0	52.0	39.5	33.8	32	-
1020001001-1100	DN20	3/4" × 22	26	22	40.0	31.65	74.8	52.0	59.0	59.0	36.0	39.1	36	-
1025001001-1100	DN25	1" × 28	33	28	45.0	37.45	99.6	56.0	67.5	67.5	37.0	45.6	41	-
1032001001-1100	DN32	1 1/4" × 35	42	35	55.0	44.55	99.6	70.0	80.2	80.2	49.0	56.5	50	-
1040001001-1100	DN40	1 1/2" × 42	48	42	59.3	53.55	119.3	78.0	99.0	99.0	57.0	69.8	56	-
1050001001-1100	DN50	2" × 54	59	54	76.1	65.25	119.3	96.0	113.0	113.0	69.0	79.0	69	-

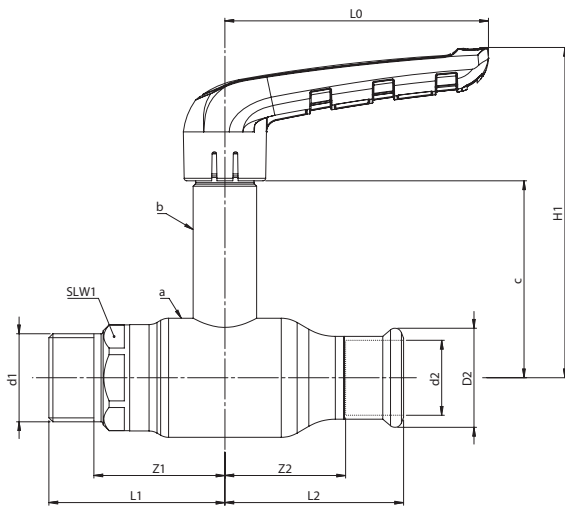
BROEN Ballofix® Full Flow ball valve BXF11200 / BXF11201

Galvanized steel | Press × Male

Can be used in piping systems made of galvanized steel. Is approved for use in closed cooling and heating systems. M-jaws are used for pressing, in accordance with published tool list.



Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
1010001210-1100	DN10	1/2" × 15	21	15	22.7	23.4	74.8	51.0	47.0	47.0	40.0	27.5	21	-
1015001210-1100	DN15	3/4" × 18	26	18	26.9	26.45	74.8	58.0	52.0	52.0	43.5	33.8	27	-
1020001200-1100	DN20	3/4" × 22	26	22	33.7	31.65	74.8	56.0	59.0	59.0	41.5	39.1	30	-
1025001200-1100	DN25	1" × 28	33	28	40.2	37.45	99.6	66.5	67.5	67.5	49.5	45.6	36	-
1032001200-1100	DN32	1 1/4" × 35	42	35	49.5	44.55	99.6	82.0	80.2	80.2	62.0	56.5	46	-
1040001200-1100	DN40	1 1/2" × 42	48	42	59.3	53.55	119.3	88.0	99.0	99.0	68.9	69.8	55	-
1050001200-1100	DN50	2" × 54	59	54	76.1	65.25	119.3	112.0	113.0	113.0	86.0	79.0	69	-

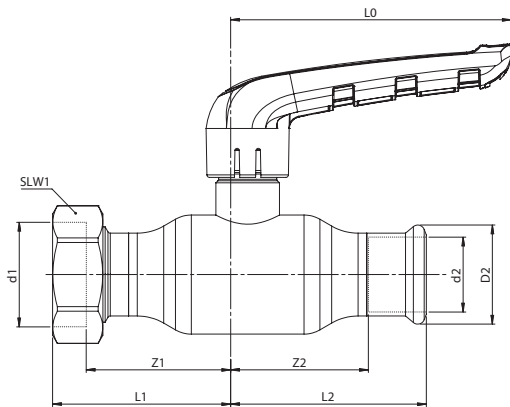


Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
1010001211-1100	DN10	1/2" × 15	21	15	22.7	23.4	74.8	51.0	47.0	47.0	40.0	27.5	21	-
1015001211-1100	DN15	3/4" × 18	26	18	26.9	26.45	74.8	58.0	52.0	52.0	43.5	33.8	27	-
1020001201-1100	DN20	3/4" × 22	26	22	33.7	31.65	74.8	56.0	59.0	59.0	41.5	39.1	30	-
1025001201-1100	DN25	1" × 28	33	28	40.2	37.45	99.6	66.5	67.5	67.5	49.5	45.6	36	-
1032001201-1100	DN32	1 1/4" × 35	42	35	49.5	44.55	99.6	82.0	80.2	80.2	62.0	56.5	46	-
1040001201-1100	DN40	1 1/2" × 42	48	42	59.3	53.55	119.3	88.0	99.0	99.0	68.9	69.8	55	-
1050001201-1100	DN50	2" × 54	59	54	76.1	65.25	119.3	112.0	113.0	113.0	86.0	79.0	69	-

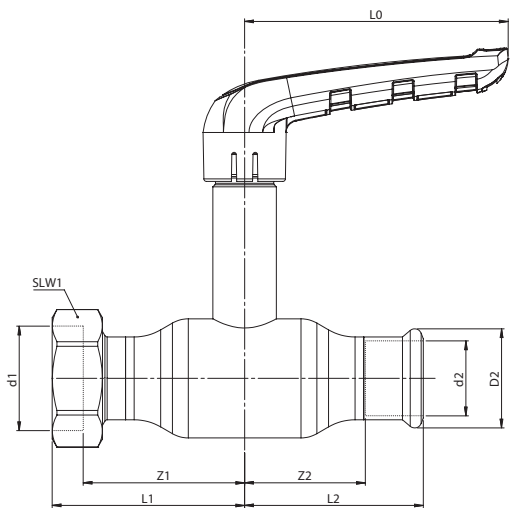
BROEN Ballofix® Full Flow ball valve BXF11400 / BXF11401

Galvanized steel | Swivel × Press

Can be used in piping systems made of galvanized steel. Is approved for use in closed cooling and heating systems. M-jaws are used for pressing, in accordance with published tool list.



Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
1010001410-1100	DN10	3/4" × 15	26	15	35.0	23.4	74.8	52.0	47.0	47.0	43.0	27.6	32	-
1015001400-1100	DN15	3/4" × 18	26	18	35.0	26.45	74.8	57.9	52.0	52.0	48.0	33.8	32	-
1020001410-1100	DN20	3/4" × 22	26	22	35.0	31.65	74.8	68.75	57.75	57.75	59.25	40.6	32	-
1025001400-1100	DN25	1 1/4" × 28	42	28	52.0	37.45	99.6	73.9	67.5	67.5	61.0	45.6	46	-
1032001400-1100	DN32	1 1/2" × 35	48	35	56.0	44.55	99.6	83.1	80.2	80.2	70.7	55.6	52	-
1040001400-1100	DN40	1 3/4" × 42	54	42	62.5	53.55	119.3	92.4	99.0	99.0	81.0	69.8	58	-
1050001400-1100	DN50	2 1/4" × 54	66	54	77.0	65.25	119.3	111.2	113.0	113.0	98.0	79.0	72	-

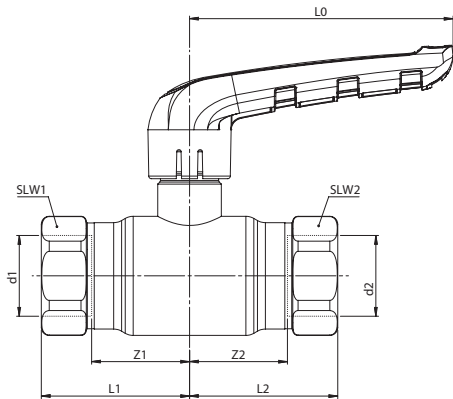


Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
1010001411-1100	DN10	3/4" × 15	26	15	35.0	23.4	74.8	52.0	47.0	47.0	43.0	27.6	32	-
1015001401-1100	DN15	3/4" × 18	26	18	35.0	26.45	74.8	57.9	52.0	52.0	48.0	33.8	32	-
1020001411-1100	DN20	3/4" × 22	26	22	35.0	31.65	74.8	68.75	57.75	57.75	59.25	40.6	32	-
1025001401-1100	DN25	1 1/4" × 28	42	28	52.0	37.45	99.6	73.9	67.5	67.5	61.0	45.6	46	-
1032001401-1100	DN32	1 1/2" × 35	48	35	56.0	44.55	99.6	83.1	80.2	80.2	70.7	55.6	52	-
1040001401-1100	DN40	1 3/4" × 42	54	42	62.5	53.55	119.3	92.4	99.0	99.0	81.0	69.8	58	-
1050001401-1100	DN50	2 1/4" × 54	66	54	77.0	65.25	119.3	111.2	113.0	113.0	98.0	79.0	72	-

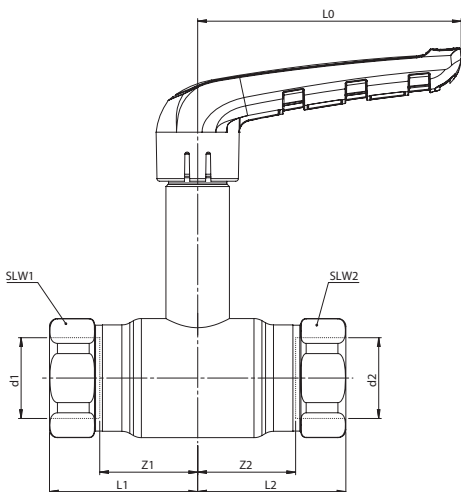
BROEN Ballofix® Full Flow ball valve BXF12000 / BXF12001

Galvanized steel | Female × Female

Can be used in piping systems made of galvanized steel. Is approved for use in closed cooling and heating systems.



Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
1010002000-1100	DN10	3/8" × 3/8"	16	16	27.0	27.0	74.8	37.0	37.0	37.0	25.5	25.5	24	24
1015002000-1100	DN15	1/2" × 1/2"	21	21	30.0	30.0	74.8	47.5	47.5	47.5	36.0	36.0	27	27
1020002000-1100	DN20	3/4" × 3/4"	26	26	40.0	40.0	74.8	52.0	52.0	52.0	36.0	36.0	36	36
1025002000-1100	DN25	1" × 1"	33	33	45.0	45.0	99.6	56.0	56.0	56.0	37.0	34.0	41	41
1032002000-1100	DN32	1 1/4" × 1 1/4"	42	42	55.0	55.0	99.6	67.0	67.0	67.0	46.0	46.0	50	50
1040002000-1100	DN40	1 1/2" × 1 1/2"	48	47	59.3	59.3	119.3	78.0	78.0	78.0	57.0	57.0	56	56
1050002000-1100	DN50	2" × 2"	60	59	76.1	76.1	119.3	96.0	96.0	96.0	69.0	69.0	69	69

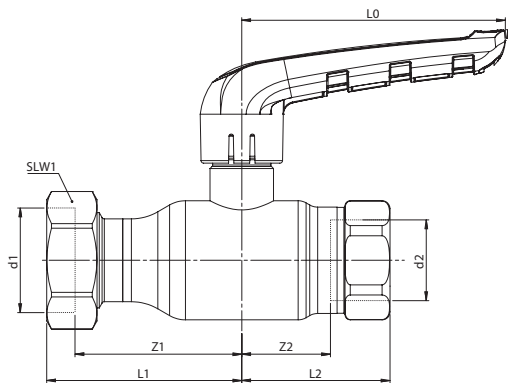


Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
1010002001-1100	DN10	3/8" × 3/8"	16.66	16.66	27.0	27.0	74.8	37.0	37.0	37.0	25.5	25.5	24	24
1015002001-1100	DN15	1/2" × 1/2"	21.0	21.0	30.0	30.0	74.8	47.5	47.5	47.5	36.0	36.0	27	27
1020002001-1100	DN20	3/4" × 3/4"	26.44	26.44	40.0	40.0	74.8	52.0	52.0	52.0	36.0	36.0	36	36
1025002001-1100	DN25	1" × 1"	33.25	33.25	45.0	45.0	99.6	56.0	56.0	56.0	37.0	34.0	41	41
1032002001-1100	DN32	1 1/4" × 1 1/4"	41.91	41.91	55.0	55.0	99.6	67.0	67.0	67.0	46.0	46.0	50	50
1040002001-1100	DN40	1 1/2" × 1 1/2"	47.8	47.8	59.3	59.3	119.3	78.0	78.0	78.0	57.0	57.0	56	56
1050002001-1100	DN50	2" × 2"	59.61	59.61	76.1	76.1	119.3	96.0	96.0	96.0	69.0	69.0	69	69

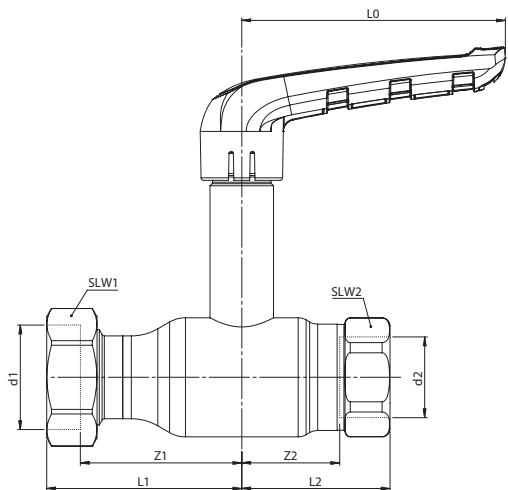
BROEN Ballofix® Full Flow ball valve BXF12200 / BXF12201

Galvanized steel | Swivel × Female

Can be used in piping systems made of galvanized steel. Is approved for use in closed cooling and heating systems.



Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
1010002200-1100	DN10	1/2" × 3/8"	16	21	27.0	30.0	74.8	44.0	59.4	59.4	32.5	49.5	27	24
1015002200-1100	DN15	3/4" × 1/2"	16	26	30.0	35.0	74.8	47.0	57.9	57.9	35.5	48.0	32	27
1020002210-1100	DN20	3/4" × 3/4"	21	26	40.0	35.0	74.8	52.0	68.75	68.75	36.0	59.25	32	36
1020002200-1100	DN20	1" × 3/4"	26	26	40.0	41.0	74.8	52.0	64.85	64.85	36.0	53.25	36	36
1025002200-1100	DN25	1 1/4" × 1"	26	26	45.0	52.0	99.6	56.0	73.9	73.9	37.0	61.0	46	41
1032002200-1100	DN32	1 1/2" × 1 1/4"	33	42	55.0	56.0	99.6	70.0	83.1	83.1	49.0	70.7	52	50
1040002210-1100	DN40	2" × 1 1/2"	48	60	59.3	72.0	119.3	78.0	100.4	100.4	57.0	85.0	69	56
1050002200-1100	DN50	2 1/4" × 2"	60	54	76.1	77.0	119.3	96.0	111.2	111.2	69.0	98.0	72	69

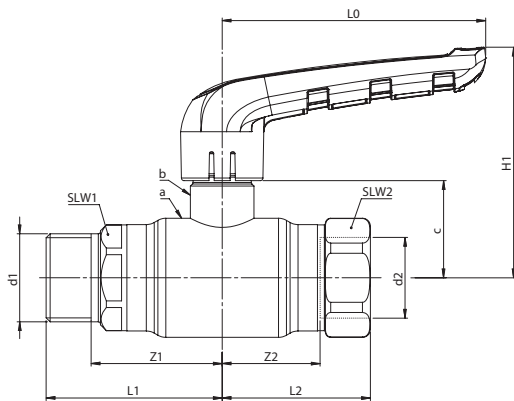


Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
1010002201-1100	DN10	1/2" × 3/8"	16	21	27.0	30.0	74.8	44.0	59.4	59.4	32.5	49.5	27	24
1015002201-1100	DN15	3/4" × 1/2"	16	26	30.0	35.0	74.8	47.0	57.9	57.9	35.5	48.0	32	27
1020002211-1100	DN20	3/4" × 3/4"	21	26	40.0	35.0	74.8	52.0	68.75	68.75	36.0	59.25	32	36
1020002201-1100	DN20	1" × 3/4"	26	26	40.0	41.0	74.8	52.0	64.85	64.85	36.0	53.25	36	36
1025002201-1100	DN25	1 1/4" × 1"	26	26	45.0	52.0	99.6	56.0	73.9	73.9	37.0	61.0	46	41
1032002201-1100	DN32	1 1/2" × 1 1/4"	33	42	55.0	56.0	99.6	70.0	83.1	83.1	49.0	70.7	52	50
1040002211-1100	DN40	2" × 1 1/2"	48	60	59.3	72.0	119.3	78.0	100.4	100.4	57.0	85.0	69	56
1050002201-1100	DN50	2 1/4" × 2"	60	54	76.1	77.0	119.3	96.0	111.2	111.2	69.0	98.0	72	69

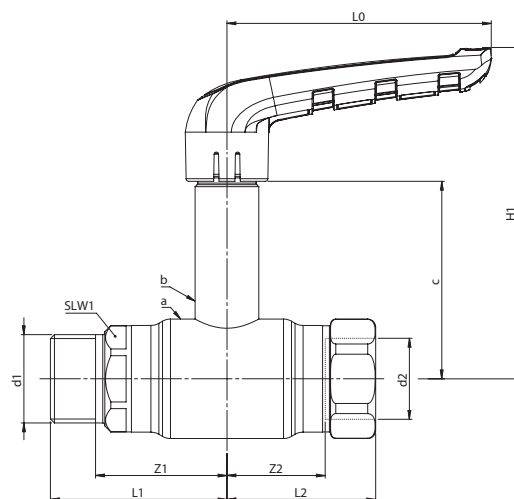
BROEN Ballofix® Full Flow ball valve BXF12400 / BXF12401

Galvanized steel | Male × Female

Can be used in piping systems made of galvanized steel. Is approved for use in closed cooling and heating systems.



Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
1010002400-1100	DN10	3/8" × 3/8"	16	16	27.0	22.7	74.8	44.0	49.0	49.0	32.5	39.5	24	21
1015002400-1100	DN15	1/2" × 1/2"	21	21	30.0	26.9	74.8	47.0	54.0	54.0	35.5	43.0	27	24
1020002400-1100	DN20	3/4" × 3/4"	26	26	40.0	33.7	74.8	52.0	56.0	56.0	36.0	41.5	36	30
1025002400-1100	DN25	1" × 1"	33	33	45.0	40.2	99.6	56.0	66.5	66.5	37.0	49.5	41	36
1032002400-1100	DN32	1 1/4" × 1 1/4"	42	42	55.0	49.5	99.6	70.0	82.0	82.0	49.0	62.0	50	46
1040002400-1100	DN40	1 1/2" × 1 1/2"	48	48	59.3	59.3	119.3	78.0	88.0	88.0	57.0	68.9	56	55
1050002400-1100	DN50	2" × 2"	60	59	76.1	76.1	119.3	96.0	112.0	112.0	69.0	86.0	69	69



Art. no.	DN	Dim.	d1	d2	D1	D2	L0	L1	L2	L3	Z1	Z2	SLW1	SLW2
1010002401-1100	DN10	3/8" × 3/8"	16.66	16.35	27.0	22.7	74.8	44.0	49.0	49.0	32.5	39.5	24	21
1015002401-1100	DN15	1/2" × 1/2"	21.0	20.6	30.0	26.9	74.8	47.0	54.0	54.0	35.5	43.0	27	24
1020002401-1100	DN20	3/4" × 3/4"	26.44	26.4	40.0	33.7	74.8	52.0	56.0	56.0	36.0	41.5	36	30
1025002401-1100	DN25	1" × 1"	33.25	33.25	45.0	40.2	99.6	56.0	66.5	66.5	37.0	49.5	41	36
1032002401-1100	DN32	1 1/4" × 1 1/4"	41.91	41.91	55.0	49.5	99.6	70.0	82.0	82.0	49.0	62.0	50	46
1040002401-1100	DN40	1 1/2" × 1 1/2"	47.8	47.7	59.3	59.3	119.3	78.0	88.0	88.0	57.0	68.9	56	55
1050002401-1100	DN50	2" × 2"	59.61	59.4	76.1	76.1	119.3	96.0	112.0	112.0	69.0	86.0	69	69

BROEN Valve Technologies

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 and gas. 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 N.V., Netherland.

Read more at: www.broen.com

BROEN Group locations

Headquarters in Assens, DK

Sales- and productions sites ●

BROEN A/S, Assens (DK)
BROEN POLAND, Dzierżonów (PL)
BROEN POLAND, Rogoźno (PL)
BROEN LLC, Kolomna (RU)
BROEN INC., Houston (US)
BROEN Clorius, Dzierżonów (PL)

Sales companies and offices ○

BROEN Assens (DK)
BROEN Helsinki (FI)
BROEN SEI, Bucharest (RO)
BROEN Beijing (CN)
BROEN Moscow (RU)
BROEN Clorius, Shanghai (CN)



BROEN A/S

Skovvej 30, 5610 Assens, Denmark

Tel. +45 6471 2095 | Fax +45 6471 2495

broen@broen.com | www.broen.com