

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 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.



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.





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:

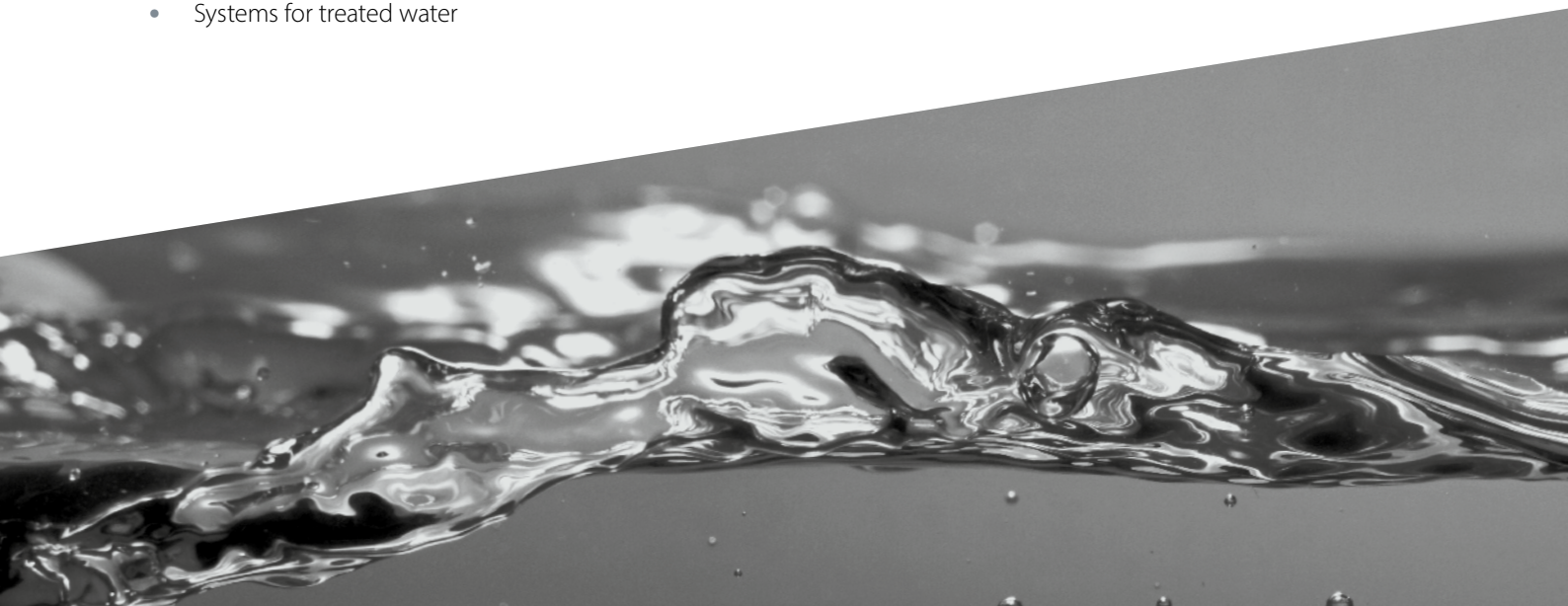
- Central heating systems
- District heating systems
- Cooling systems
- Industry
- Certain types of compressed air systems
- Systems for treated water

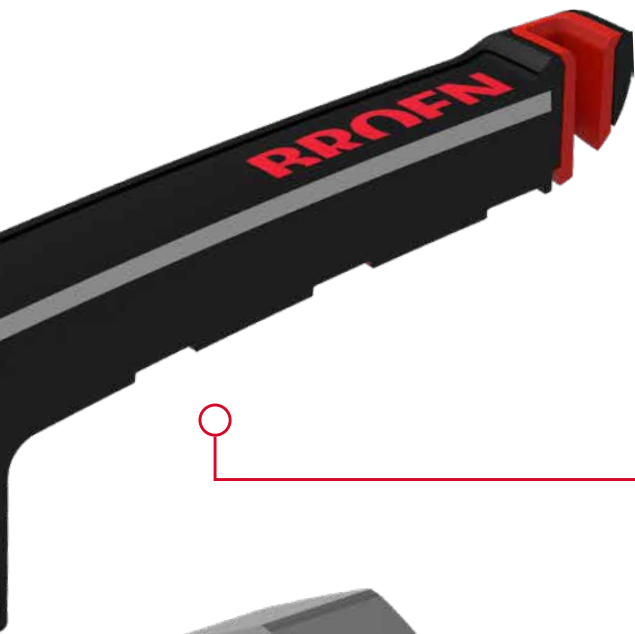


BROEN FULL FLOW – Galvanized steel

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





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

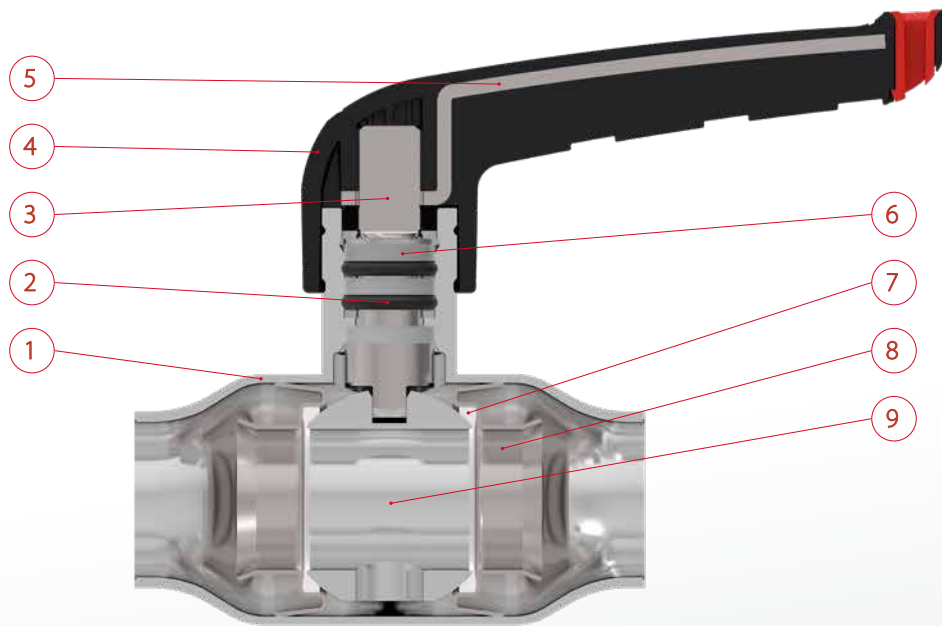
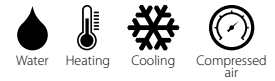
All systems – One technology

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

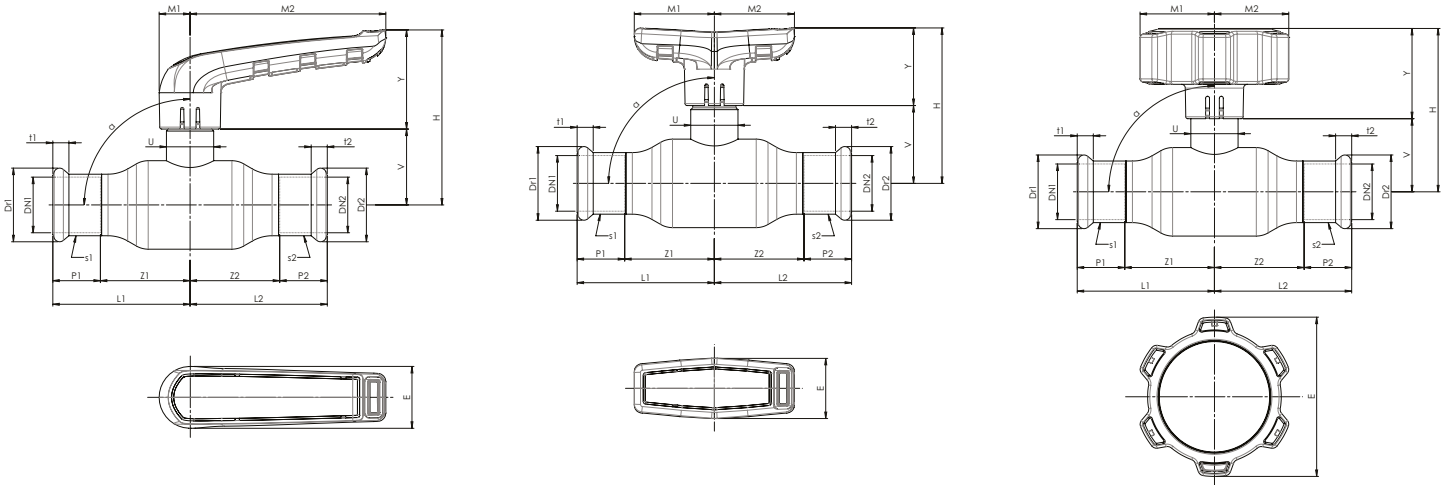
*DN 32 - 50 Stainless steel variants holds a hollow ball

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. | Art. no. |
| | DN10 | 15 × 15 | 2010000100-0100 | 2010000101-0100 | 2010000101-0100 |
| | DN15 | 18 × 18 | 2015000100-0100 | 2015000101-0100 | 2015000101-0100 |
| | DN20 | 22 × 22 | 2020000100-0100 | 2020000101-0100 | 2020000101-0100 |
| | DN25 | 28 × 28 | 2025000100-0100 | 2025000101-0100 | 2025000101-0100 |
| | DN32 | 35 × 35 | 2032000100-0100 | 2032000101-0100 | 2032000101-0100 |
| | DN40 | 42 × 42 | 2040000100-0100 | 2040000101-0100 | 2040000101-0100 |
| | DN50 | 54 × 54 | 2050000100-0100 | 2050000101-0100 | 2050000101-0100 |


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

| Press × Press Stainless steel | | BF201002 Low stem | | BF201012 High stem | |
|---------------------------------|------|---------------------|-----------------|----------------------|-----------------|
| Gear-Handle | DN | Dim. | Art. no. | Art. no. | Art. no. |
| | DN10 | 15 × 15 | 2010000100-0200 | 2010000101-0200 | 2010000101-0200 |
| | DN15 | 18 × 18 | 2015000100-0200 | 2015000101-0200 | 2015000101-0200 |
| | DN20 | 22 × 22 | 2020000100-0200 | 2020000101-0200 | 2020000101-0200 |
| | DN25 | 28 × 28 | 2025000100-0200 | 2025000101-0200 | 2025000101-0200 |
| | DN32 | 35 × 35 | 2032000100-0200 | 2032000101-0200 | 2032000101-0200 |
| | DN40 | 42 × 42 | 2040000100-0200 | 2040000101-0200 | 2040000101-0200 |
| | DN50 | 54 × 54 | 2050000100-0200 | 2050000101-0200 | 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 | 1¼" × 35 | 2032001000-0100 | 2032001001-0100 |
| | DN40 | 1½" × 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 | 1¼" × 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 | 1¼" × 35 | 2032001000-0200 | 2032001001-0200 |
| | DN40 | 1½" × 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 | 1¼" × 35 | 2032001200-0100 | 2032001201-0100 |
| | DN40 | 1½" × 42 | 2040001200-0100 | 2040001201-0100 |
| | DN50 | 2" × 54 | 2050001200-0100 | 2050001201-0100 |


| Press × Male Stainless steel | | | BF212004 Low stem | BF212014 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 | 1¼" × 35 | 2032001200-0400 | 2032001201-0400 |

| Press × Male Stainless steel | | | BF212002 Low stem | BF212012 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 | 1¼" × 35 | 2032001200-0200 | 2032001201-0200 |
| | DN40 | 1½" × 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 | 1¼" × 28 | 2025001400-0100 | 2025001401-0100 |
| | DN32 | 1½" × 35 | 2032001400-0100 | 2032001401-0100 |
| | DN40 | 1¾" × 42 | 2040001400-0100 | 2040001401-0100 |
| | DN50 | 2¼" × 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 | 1¼" × 28 | 2025001400-0400 | 2025001401-0400 |
| | DN32 | 1½" × 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 | 1¼" × 28 | 2025001400-0200 | 2025001401-0200 |
| | DN32 | 1½" × 35 | 2032001400-0200 | 2032001401-0200 |
| | DN40 | 1¾" × 42 | 2040001400-0200 | 2040001401-0200 |
| | DN50 | 2¼" × 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 | 1¼" × 1¼" | 2032002000-0100 | 2032002001-0100 |
| | DN40 | 1½" × 1½" | 2040002000-0100 | 2040002001-0100 |
| | DN50 | 2" × 2" | 2050002000-0100 | 2050002001-0100 |


| Female x Female Stainless steel | | | BF220004 Low stem | BF220014 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 | | | BF220002 Low stem | BF2220012 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 |

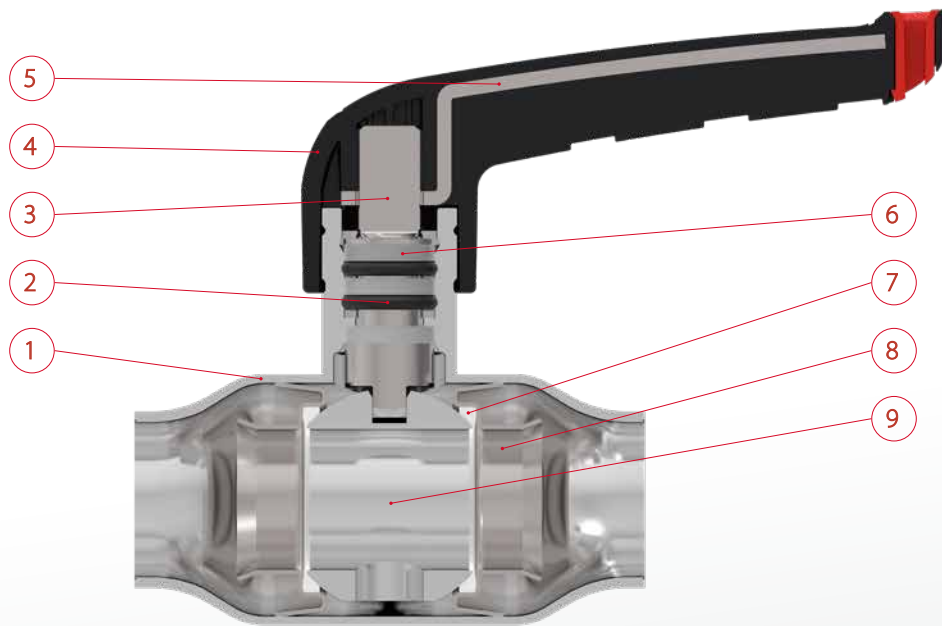
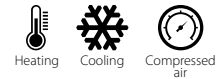
| Female x Male Stainless steel | | | BF224002 Low stem | BF224012 High stem |
|---|------|-----------------|---------------------|----------------------|
| Gear-Handle | DN | Dim. | Art. no. | Art. no. |
|  | DN10 | 3/8" x 3/8" | 2010002400-0200 | 2010002401-0200 |
| | DN15 | 1/2" x 1/2" | 2015002400-0200 | 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 |

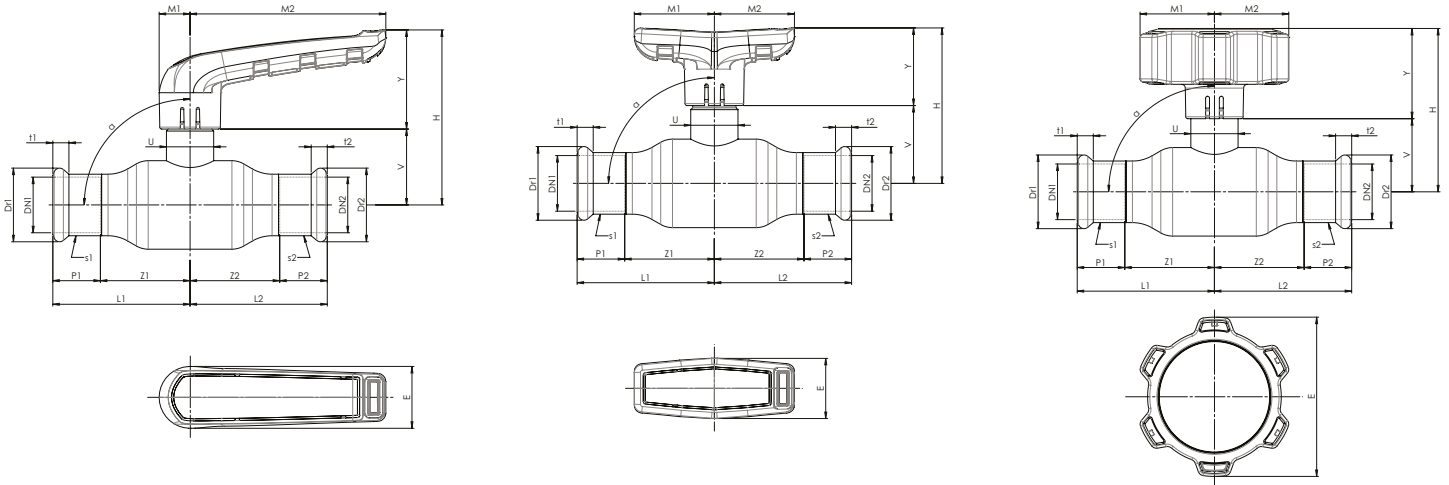
Note: Threads in accordance with ISO 228/1

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. | Art. no. |
| | DN10 | 15 × 15 | 1010000100-1100 | 1010000101-1100 | 1010000101-1100 |
| | DN15 | 18 × 18 | 1015000100-1100 | 1015000101-1100 | 1015000101-1100 |
| | DN20 | 22 × 22 | 1020000100-1100 | 1020000101-1100 | 1020000101-1100 |
| | DN25 | 28 × 28 | 1025000100-1100 | 1025000101-1100 | 1025000101-1100 |
| | DN32 | 35 × 35 | 1032000100-1100 | 1032000101-1100 | 1032000101-1100 |
| | DN40 | 42 × 42 | 1040000100-1100 | 1040000101-1100 | 1040000101-1100 |
| | DN50 | 54 × 54 | 1050000100-1100 | 1050000101-1100 | 1050000101-1100 |


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

| Press × Press Galvanized steel | | BF101002 Low stem | | BF101012 High stem | |
|----------------------------------|------|---------------------|-----------------|----------------------|-----------------|
| Gear-Handle | DN | Dim. | Art. no. | Art. no. | Art. no. |
| | DN10 | 15 × 15 | 1010000100-1200 | 1010000101-1200 | 1010000101-1200 |
| | DN15 | 18 × 18 | 1015000100-1200 | 1015000101-1200 | 1015000101-1200 |
| | DN20 | 22 × 22 | 1020000100-1200 | 1020000101-1200 | 1020000101-1200 |
| | DN25 | 28 × 28 | 1025000100-1200 | 1025000101-1200 | 1025000101-1200 |
| | DN32 | 35 × 35 | 1032000100-1200 | 1032000101-1200 | 1032000101-1200 |
| | DN40 | 42 × 42 | 1040000100-1200 | 1040000101-1200 | 1040000101-1200 |
| | DN50 | 54 × 54 | 1050000100-1200 | 1050000101-1200 | 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 | 1¼" × 35 | 1032001000-1100 | 1032001001-1100 |
| | DN40 | 1½" × 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 | 1¼" × 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 | 1¼" × 35 | 1032001000-1200 | 1032001001-1200 |
| | DN40 | 1½" × 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 | BF112011 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 | 1¼" × 35 | 1032001200-1100 | 1032001201-1100 |
| | DN40 | 1½" × 42 | 1040001200-1100 | 1040001201-1100 |
| | DN50 | 2" × 54 | 1050001200-1100 | 1050001201-1100 |


| Press × Male Galvanized steel | | | BF112004 Low stem | BF112014 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 | 1¼" × 35 | 1032001200-1400 | 1032001201-1400 |

| Press × Male Galvanized steel | | | BF112002 Low stem | BF112012 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 | | | BF120004 Low stem | BF120014 High stem |
|---|------|-----------------|---------------------|----------------------|
| T-Handle | | DN | Dim. | 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 | | | BF120002 Low stem | BF120012 High stem |
|---|------|-----------------|---------------------|----------------------|
| Gear-Handle | | DN | Dim. | 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. |
|  | 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. |
|  | 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. |
|  | 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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