HOW TO CHOOSE YOUR LEGRIS VALVE

What type of fluid do you wish to convey?

Parker offers ranges dedicated to **compressed air and neutral gases.**

Parker presents ranges specifically designed for **water**, including:

- *Industrial water (tap water)*
- *Treated water (deionised, pure and demineralised)*

All our solutions are compatible with glycol mixtures.

Parker also has ranges compatible with **technical gases**:

- *Oxygen, breathing air, carbon dioxide, analytical gases, anaesthetic gases and inert gases.*

Parker offers ranges for **oils and lubricants.**

Do you have any compliance requirements?

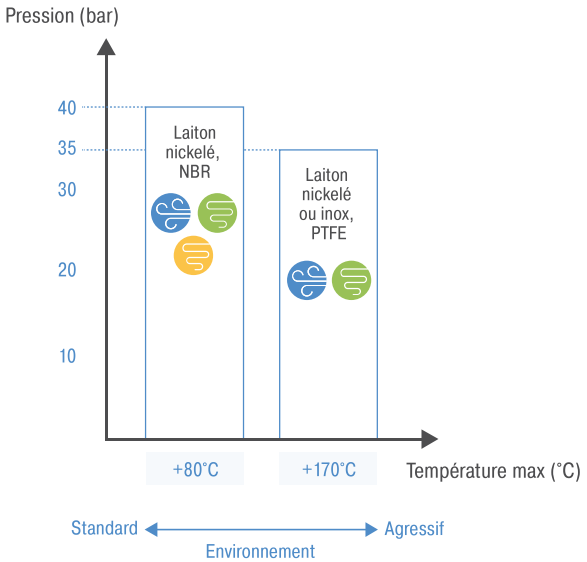
- All our products comply with RoHS and REACh standards.
- Our product ranges dedicated to specific markets, such as food, medical or clean rooms, comply with the relevant regulations.
- The range of specific gas valves (DVGW) complies with the DIN EN 331 standard.
- All our processes comply with ISO 9001 and ISO 14001 standards.

For a complete list of our certificates, *please click here.*

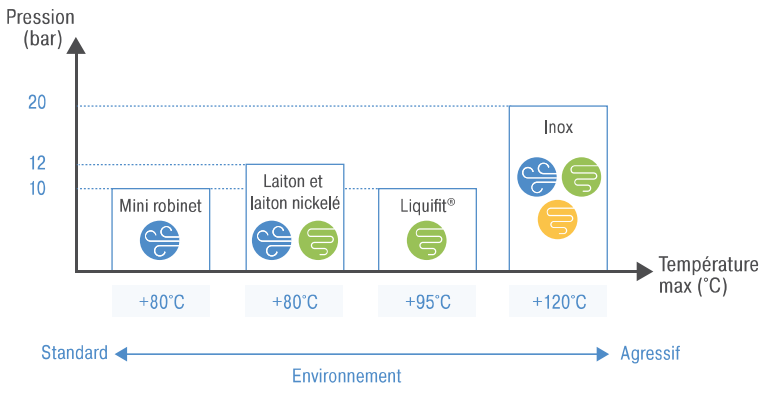
Under what conditions do you use your valve?

Legris valve ranges are designed to withstand a variety of environments.
Below you will find recommended products for conveying air, water and gases according to specific usage constraints.

Long handle



Short handle



VALVE TECHNOLOGIES AND THEIR SPECIAL FEATURES

Ball valve

This valve uses a ball with a hole in it that pivots to open or close the fluid pass, providing a quick and reliable seal.



Valve open position



Valve closed position

Legris valves are equipped with **wear compensation seals on the cap** to ensure a long-lasting seal.



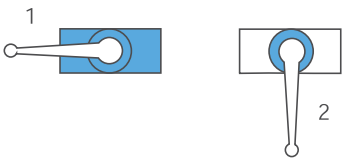
The nitrile seals, assembled under tension, exert constant pressure on the wear compensation o-rings to ensure a tight seal.

Seals can always be dismantled and reassembled using seal kits sold as spare parts.

Vocabulary related to “2/2, 3/2 and 3/3 way” valves

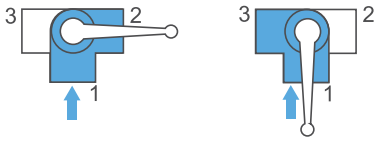
2/2: 2 outputs/2 handle positions

(opening/closing)

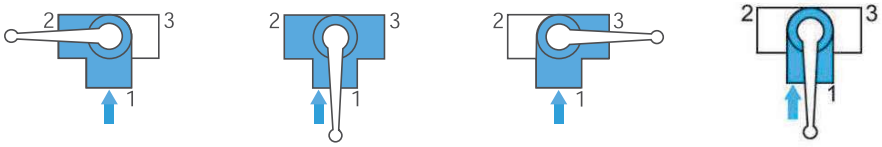


3/2: 3 outputs/2 handle positions

(left pass, right pass, no closed position)



3/3: 3 outputs/3 handle positions



Left pass | Dispensing position | Right pass | Closed position in the middle

Needle valve

This valve precisely controls the flow rate thanks to a conical rod (needle) that inserts into a seat, allowing for fine and gradual adjustment.



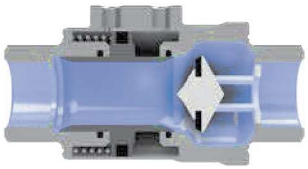
Valve open position



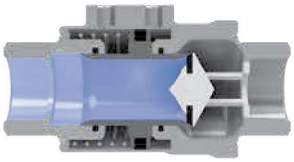
Valve closed position

Axial valve

This valve regulates flow by moving a piston along the axis of the pass, ensuring fluid control and low pressure drop.



Axial valve position open



Axial valve position closed

Part number identification

Each valve is identified by:
- item type (4 digits);
- the nominal diameter;
- the thread code. If the product does not have a thread, the code used is 00.

0402 **04** **10**

Item type

Example:
040x
050x
79xx
//
42xx
BVGx

Nominal diameter

04 = 4 mm
05 = 6 mm
…
40 = 40 mm

Thread code

10 = 1/8”
13 = 1/4”
…
48 = 2”

LEGRIS VALVES WITH LONG HANDLES



Legris ball valves are equipped with long handles specially designed for easy operation. Available in several diameters and connection types, they are suitable for both standard applications and specific uses.

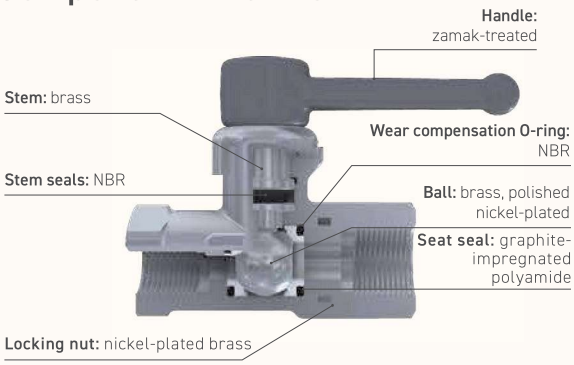
NICKEL-PLATED BRASS STANDARDS VERSIONS

Technical specifications

- **Fluids:** compressed air and other fluids
- **Operating pressure:** 10^{-2} millibar to 40 bar
- **Operating temperature:** -20 to +80°C
- **Nominal diameter (DN):** 4 to 50 mm
- **Connection:** G1/8 to G2
- **Regulations:** RoHS, REACh, PED

Performance depends on the fluid, material and tube used.

Component materials



Benefits

- **Durability:** valves equipped with wear compensation seals for **long-lasting tightness (not only for water)** of the product.
- **Optimal operation guaranteed down to -40°C**, with no handle operation after installation.
- **Reliability:** all valves are individually tested and then marked to certify that they have been checked and to ensure traceability.
- **Ease of operation**: reduced friction coefficient thanks to graphite-coated polyamide seat seals and nickel-plated brass ball polishing.
- **Numerous versions available:** 2/2, 3/2, 3/3, with vent, lockable, to offer a Legris solution for every application.

Recommended applications



Guaranteed manoeuvrability and reliability over time

VENTED VERSION, **WITH RED HANDLE**

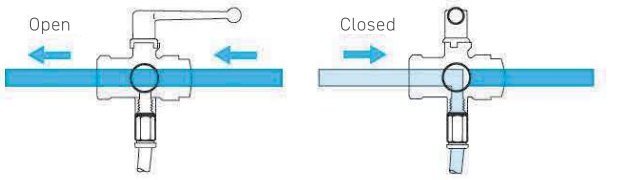
Valves equipped with a vent can be identified by their red handle.

To stop the fluid circulation and vent the circuit, 2 venting systems are provided:
• **threaded vent**, for collecting exhaust fluids
• **pin-hole vent**, usable in all cases where there are no particular constraints
A fluid direction marking indicates the direction of installation.

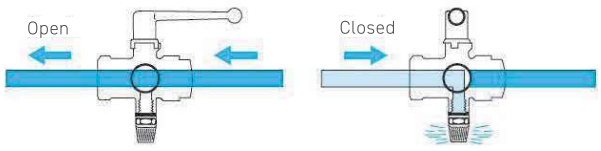


Operating principle

With vent connected to a tube = drain collected, without noise or pollution



With vent connected to a silencer = noiseless discharge to atmosphere



PADLOCKABLE VERSION

To protect your installations from unauthorised tampering, the lockable plate, which is attached to the stem, ensures compliance with the ISO 4414 safety standard.
Locking can be achieved using:
• **1 hook point in open or closed position:** models 0432 and 0439.
Simple locking when only one operator or team needs to lock the valve;
• **1, 2 or 3 attachment points in the closed position:** models 0437 and 0438.
Multiple locking (up to 3 points) when several people need to lock the valve simultaneously, thus ensuring enhanced safety.

Lockable valves are also available with and without vents.



LOCKABLE VERSION

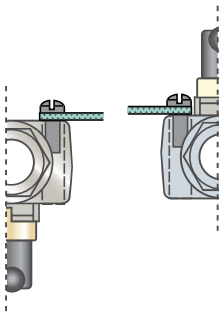
Available with lock nut on BVG4-LOCK and BVG4P-LOCK models (version with vent)



VERSION WITH FIXING SCREWS

For assembly requiring attachment to sheet metal or a machine frame (model 6402).

On sheet metal plate:
• bulkhead fixing
• rear screw fixing



On frame:
• assemble with bolts

On wooden panel:
• woodscrew fastening

