

VERY IMPORTANT VALVES

COMPLETE RANGE



BARDIANI
VALVOLI

 **QUILINOX**[®]
ALL ABOUT FLUIDS



902 304 316 
quilinox@quilinox.com 
www.quilinox.com 



A STRONG IDENTITY

“Thanks to our passion, high level of specialization and the seriousness of our collaborators’ work, we offer top quality valves accompanied by a flexible and reliable service with constant attention to our customers and their needs.

We make integrity and seriousness the cornerstones of our actions and relations.”

Bardiani Valvole means **Quality, Passion, Reliability and Precision.**

The Company was established in 1981 by Emilio Bardiani – the father of Emanuela Bardiani, Managing Director, and Luca Bardiani, the company’s Chairman and CEO – to make valves for some of the most important food manufacturing companies in the area. It is the quality of its solutions and services that has allowed Bardiani Valvole to reach customers operating in the same sector all over the World as well as to make quality valves for other sectors.

The commitment in such delicate sectors has allowed Bardiani to develop a deep understanding of the respect needed for product integrity. A commitment which can be seen in the production of valves for the specific nature of the various spheres of use and applications.

INDUSTRIAL PARTNERS

Bardiani Valvole Spa can count on business partners to supply pumps and heat exchangers.



Unique features for quality products

- **Raw materials high quality**
All parts in contact with the product are made from **AISI 316L** stainless steel.
- **Excellent hygiene <math><0.8 \mu\text{m}</math>**
Surface finish on parts in contact with the product.
- **Greater resistance** Single machined valve body with no welds.
- **Maximum efficiency**
Optimization of flow passages and minimization of friction loss.
- **Certified safety** ATEX version, available for use in potentially explosive atmospheres.
- **Easy installation** Designed to facilitate installation and maintenance operations without the use of any special tools.
- **Efficient monitoring Giotto Top® and J-Giotto Top®** allow for constant monitoring of valves status.
- **Space-saving solutions** to improve efficiency and save space
- **Fully tested** All valves are supplied pre-assembled and tested
- **Customized products** As well as standard models, Bardiani Valvole offers the possibility to design **special valves**.

Valves designed for every kind of application



Certifications: Quality, reliability and safety

The quest for quality has always been the main focus at Bardiani. This is why Bardiani valves have obtained important and significant certifications which objectively certify the quality, performance and safety of its products.



**QUALITY,
INDUSTRIAL
EFFICIENCY,
PRODUCT
RELIABILITY**

The combination of technology, product customization and attention to details makes Bardiani Valvole an extraordinary supplier in its flexibility and ability to meet customer requests.

The standards achieved through experience and a process of continual improvement make it possible to reach maximum reliability. What is more, continual improvement allows Bardiani Valvole to take decisive steps forward also in offering increasingly competitive solutions.



Certificated sealing solutions

In order to manufacture reliable and high quality products, Bardiani Valvole select only European partners able to supply certified, reliable and long-lasting seals. These are sealing solutions provided:

<p>EPDM is a polymer composed of ethylene, propylene and a small percentage of a diene and is particularly well-suited for applications involving polar media. It has an outstanding resistance to water and aqueous systems.</p>	<p>FKM is a fluorinated material with a monomer composition, thanks to its good swelling resistance towards aliphatic and aromatic hydrocarbons, oils and greases.</p>	<p>VMQ (Silicone) has very good mechanical resistance values and a low compression set. It is also resistant to many different media and has good properties also at low temperatures.</p>	<p>HNBR is distinguished by its resistance to greases, waxes and oils and for this reason, it is used in systems in which these media are contained or controlled.</p>	<p>PTFE can be used in an extremely wide range of temperatures. It has high heat expansion and is hard but barely elastic. PTFE has a very low coefficient of friction with regard to most counterfacing materials.</p>
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For special request, Bardiani Valvole evaluates with the customers additional solutions.

TOTAL ASSISTANCE

Flexible made-to-measure services based on client needs

And it is here, in its capacity to build a made-to-measure post-sales service for each customer that **Bardiani Valvole** makes the difference.

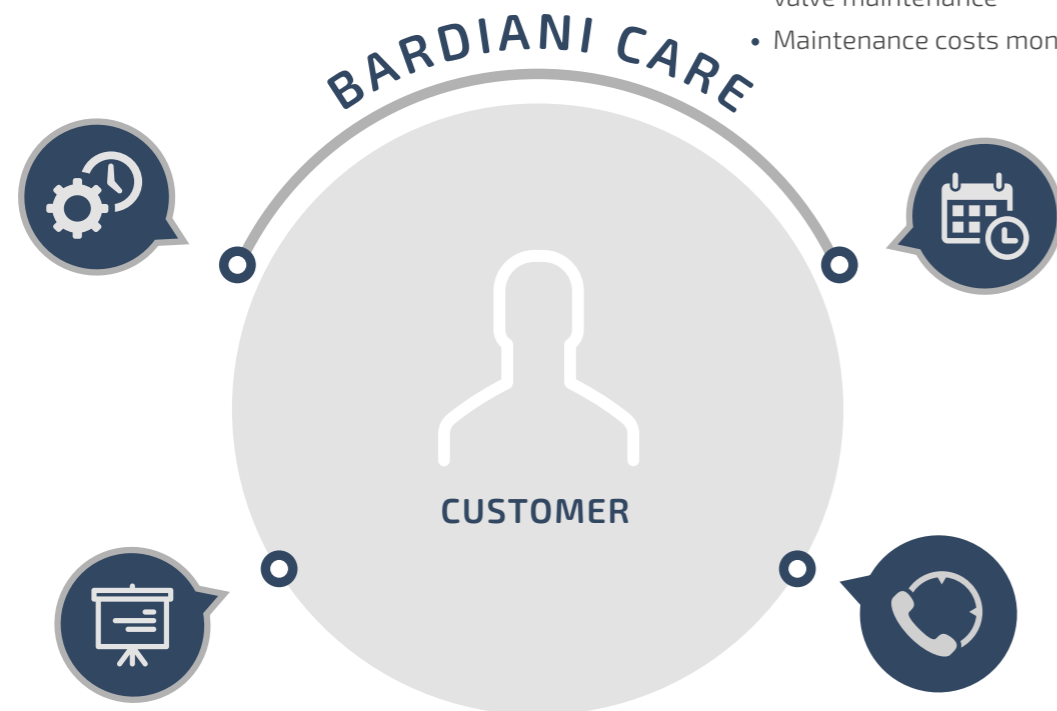


Guaranteeing parts availability

- Original spare parts
- Prompt deliveries
- Availability over time

Preventive maintenance

- Customer-specific production schedules
- Life cycle analysis and in-person valve maintenance
- Maintenance costs monitoring



Technical trainings

- Hands-on trainings
- On site or at customer plants
- Video tutorials

Continual technical support

- Dedicated and made by experienced technicians
- Quick claims resolution



Valve clusters: customized solutions

From the collaboration between the customer and Bardiani Valvole technicians, valve clusters take shape. Bardiani clusters are made according to the **customer's specific design**, orbital welded, passivated and tested.

Thanks to the excellent product quality and the maximum responsiveness to the customer's needs, the valve clusters are one of the **strong points** of the Bardiani Valvole production range.

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B925

DOUBLE SEAT VALVE

B925 is a double seat valve (mix-proof) with an extremely modern and compact design. This valve directs and controls the flow of two different liquids simultaneously, guaranteeing total separation between the two, to avoid any risk of contamination. Extremely effective in production plants B925 allows a reduction in the number of single seat valves required and consequently optimizes the use of available installation space.



Standard features

- 1 Connections from DN15 to DN150 (from 3/4" to 6")
- 2 Seals: EPDM, FKM, HNBR
- 3 Maximum pressure: 10 bar

CERTIFICATIONS



Main benefits

- **Complete separation** between two different products
- **Maximum versatility** for different applications and products
- **Maximum hygiene** (EHEDG, 3A certified)
- **Easy maintenance** without use of special tools
- **Sturdiness:** valve bodies made from solid bar
- Balanced valve shutters made from **solid bar**
- Auxiliary external cleaning circuit (optional)
- Upper and lower lift
- **Serviceable actuator**



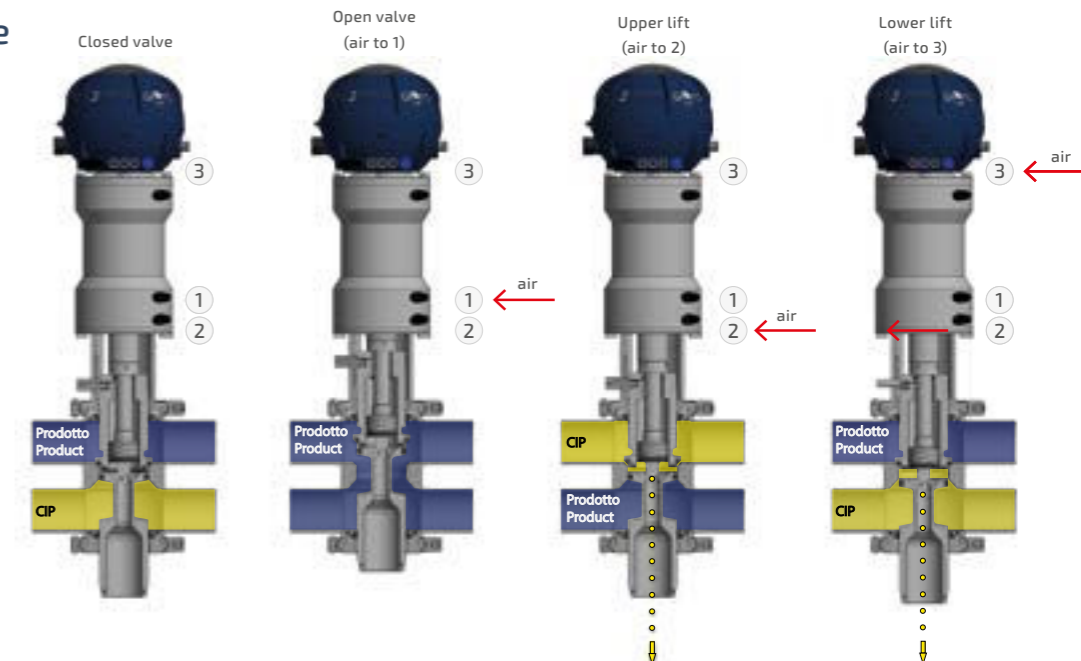
Versions

B925V Double seat valve with steam barrier

B925B Double seat valve with auxiliary external cleaning circuit

B925A Double seat valve with auxiliary external cleaning circuit and with steam barrier

Working principle



B935

TANK-BOTTOM DOUBLE SEAT VALVE

B935 is a tank-bottom double seat valves (mix-proof) with an extremely modern and compact design. These valves direct and control the flow of two different liquids simultaneously, guaranteeing total separation between the two, to avoid any risk of contamination. Extremely effective in production plants these valves allow a reduction in the number of single seat valves required and consequently optimize the use of available installation space.



Standard features

- 1 Connections from DN25 to DN150 (from 1" to 6")
- 2 Seals: EPDM, FKM, HNBR
- 3 Maximum pressure: 10 bar

CERTIFICATIONS



Main benefits

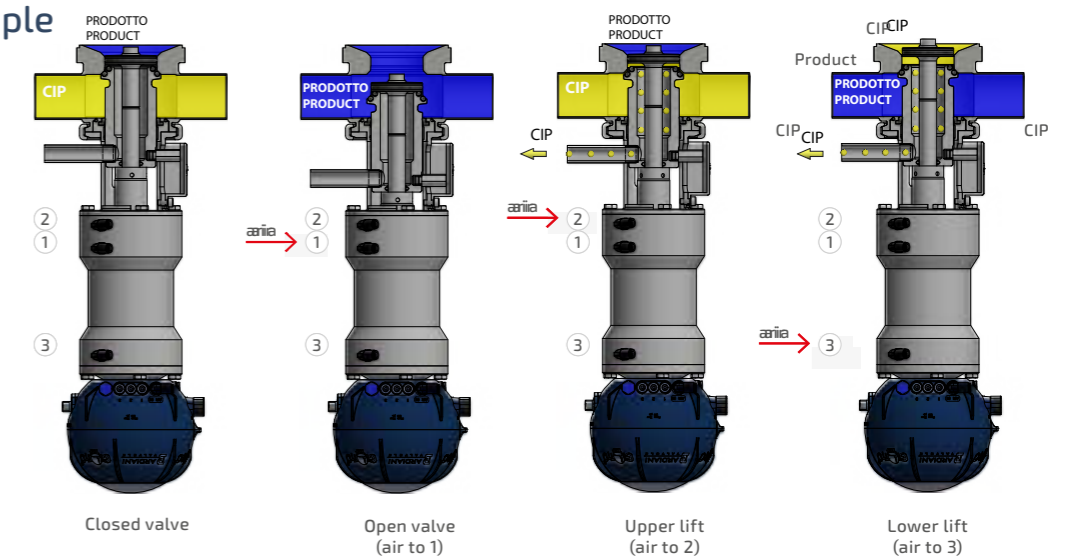
- **Complete separation** between two different products
- **Maximum versatility** for different applications and products
- **Maximum hygiene** (EHEDG, 3A certified)
- **Easy maintenance** without use of special tools
- **Sturdiness:** valve bodies made from solid bar
- Balanced valve shutters made from **solid bar**
- **Auxiliar proximity** for a complete monitoring (optional)
- Upper and lower lift
- **Serviceable actuator**



Versions

B935V Tank-bottom double seat valve with steam barrier

Working principle



B915PMO

DOUBLE SEAT VALVE PMO CERTIFIED

B915PMO has a modern, compact design; engineered to guarantee an easy maintenance. As mixproof valve, **B915PMO** directs and controls the flow of Milk (or dairy products) and cleaning solution simultaneously, guaranteeing the total separation between the two liquids. Furthermore, to meet PMO (Pasteurized Milk Ordinance) requirements it has been designed to ensure that a vacuum always exist in the leakage chamber, during the chamber cleaning; and to guarantee no CIP impingement on the opposite seat during seat lift cleaning. To ensure maximum safety lower and upper seats indicators are managed by an external sensor and by Giotto Top control unit.

Standard features

1 Connections from DN38.1 to DN 101.6

2 Seals: EPDM, FKM, HNBR

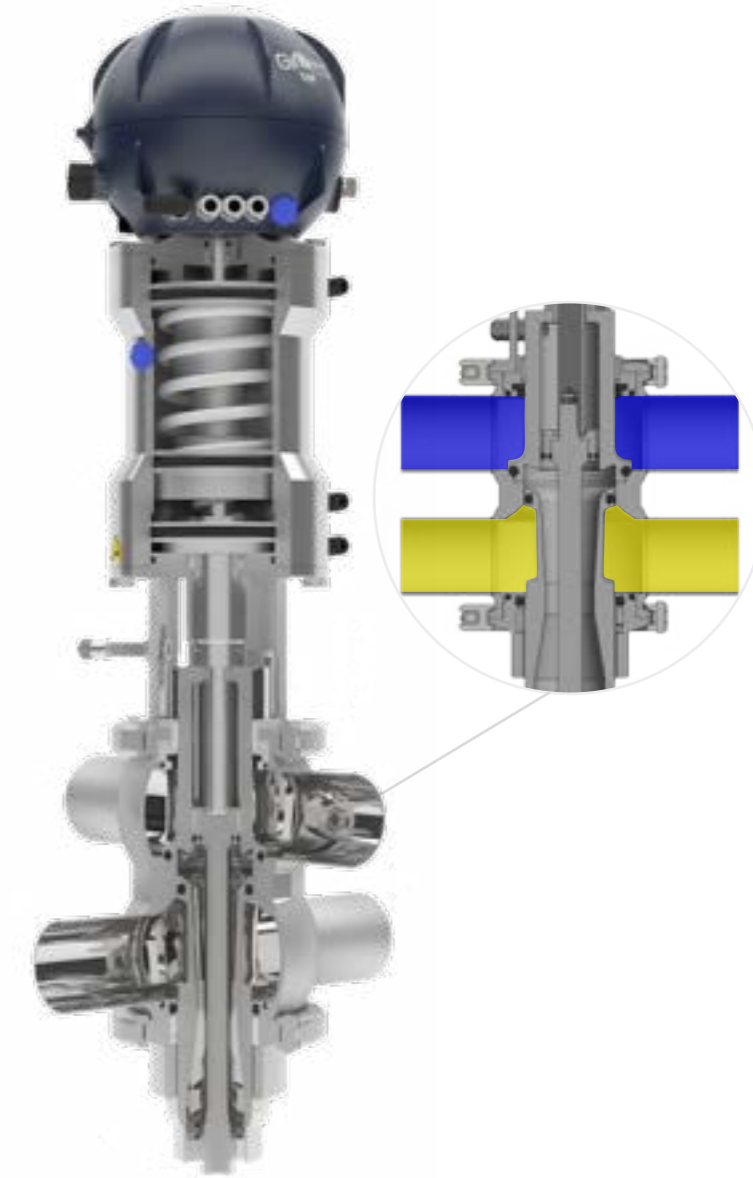
3 Maximum pressure: 10 bar

CERTIFICATIONS



Main benefits

- **Complete separation** between two different products
- **Maximum versatility** for different applications and products
- **Maximum hygiene** (EHEDG, 3A certified)
- **Easy maintenance** without use of special tools
- **Sturdiness**: valve bodies made from solid bar
- Upper and lower lift
- **Serviceable actuator**



B915PMO mixproof valve meets 3A/PMO requirements

PMO regulations has the aim to promote the sanitary processing of milk for manufacturing purposes, and to assure wholesome, stable, and high-quality dairy products. In order to save time and increase production without interruption of production line for cleaning operations, Bardiani Valvole has designed its PMO mixproof valve **B915PMO** which allow total and safe separation between dairy products and CIP solution with no possibility of contamination during seat cleaning procedures.

BZZWT1

ASEPTIC MIXPROOF VALVE

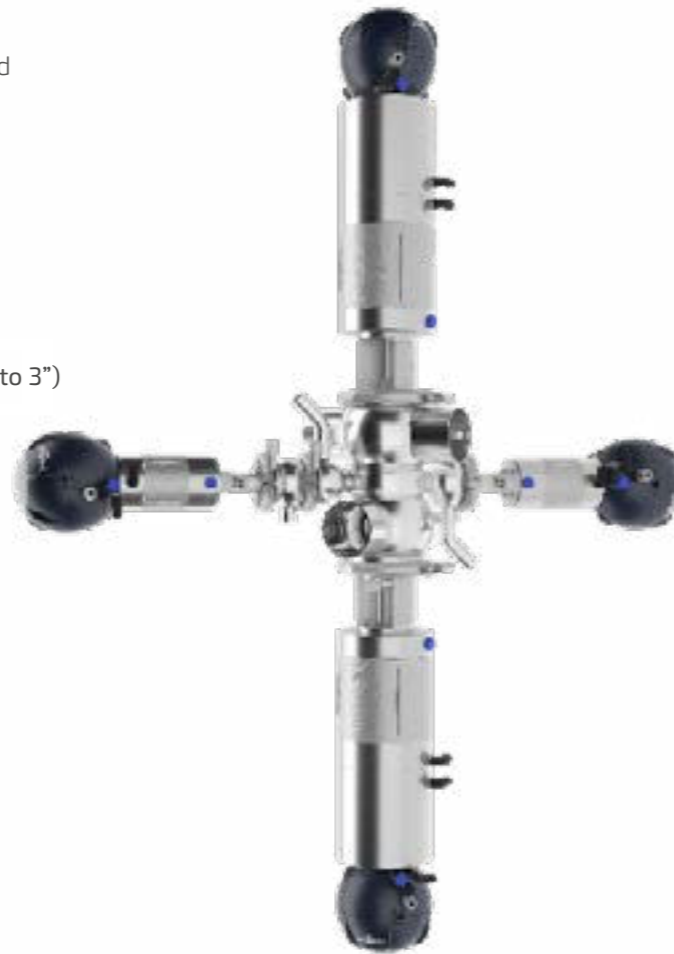
Bardiani aseptic mixproof valves are designed to separate two different products or fluids without risk of cross-contamination, ensuring complete asepticity of the process. It meets the highest requirements of the process in terms of asepticity, cleanability and safety in the pharmaceutical, food, dairy and beverage industries.

Standard features

1 Connections from DN25 to DN100 (from 1" to 3")

2 Seals: EPDM, FKM, HNBR e P.T.F.E.

3 Maximum pressure: 10 bar



CERTIFICATIONS



Main benefits

- Manages highly viscous products.
- Manages products containing large particles
- **Safety** against pressure spikes
- **Aseptic design** with single layer diaphragm
- **No dead zone** inside valve body
- **Reduced volume of leakage chamber**
- **Easier cleanability**
- **Easy maintenance** as single seat technology valve



Versions

- **BZZWT1** Main valves: single seat valves with twin stop. Auxiliary valves: single seats valves.
- **BZZWP1** Main valves: single seat valves with diaphragm. Auxiliary valves: single seats valves.
- **BZZYP** Main valves: single seat valves with steam barrier. Auxiliary valves: single seats valves.
- **BZZYT** Main valves: single seat valves with steam barrier and twin stop. Auxiliary valves: single seats valves.

BZAW3

DOUBLE SEAL VALVE

BZAW3 is a double seal valve designed to guarantee separation between two fluids. The special design of the shutter provides a separation chamber between the two seals. This ensures that any product leaks flow out through the two auxiliary valves located on the separation chamber, avoiding any contact between the two fluids.

Standard features

1 Connections from DN25 to DN150 (from 1" to 4")

2 Seals: EPDM, FKM, HNBR

3 Maximum pressure: 10 bar

CERTIFICATIONS



Main benefits

- **Complete separation.**
Created to guarantee separation between two different products
- **Maximum versatility** for different applications and products
- **Easy maintenance** without use of special tools
- **Sturdiness:** valve bodies made from solid bar



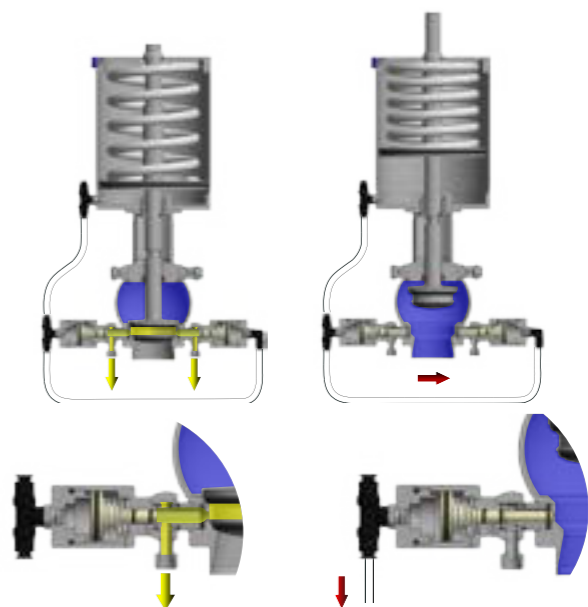
Versions

BYAW3 Double seal valve with steam barrier

Working principle

Closed valve

Open valve



BBZP

SINGLE SEAT VALVE

BBZP is a single seat valve made from top quality raw materials. Thanks to its versatility, sturdiness and reduced number of seals in contact with the product, it can be installed in all applications requiring maximum reliability in cutting off and directing a fluid.

Standard features

1 Connections from DN10 to DN150 (from 1/2" to 6")

2 Seals: EPDM, FKM, HNBR, PTFE

3 Maximum pressure: 10 bar

CERTIFICATIONS



Main benefits

- **Maximum hygiene and reliability** (EHEDG and 3A certified)
- **Reduced number** of seals in contact with the product
- Bodies made from **solid bar**
- **Easy maintenance** without use of special tools
- **Maximum versatility** thanks to the various configurations available



Variants

- Stroke limiter
- Oversized actuator
- Parabolic shutter
- Pressure regulator for by-pass application

Versions

- **BBZM** Manual single seat valve
- **BBZR** Long stroke single seat valve
- **BBYP** Single seat valve with steam barrier
- **BBZT** Single seat valve with Twin stop
- **BBWT1** Single seat valve with Twin stop - aseptic with diaphragm

BBZO- BBZOG

TANK-BOTTOM SINGLE SEAT VALVES

BBZO and BBZOG are tank-bottom single seat valves made from top quality raw materials. Thanks to their versatility, sturdiness and reduced number of seals in contact with the product they can be installed in all applications requiring maximum reliability in cutting off and directing a fluid. Manual version and aseptic version with steam barrier or diaphragm are available.

Standard features

1 Connections from DN25 to DN150 (from 1" to 6")

2 Seals: EPDM, FKM, HNBR, PTFE

3 Maximum pressure: 10 bar

CERTIFICATIONS



BBZO



BBZOG

Main benefits

- **Maximum hygiene and reliability** (EHEDG and 3A certified)
- **Reduced number** of seals in contact with the product
- Bodies made from **solid bar**
- **Easy maintenance** without use of special tools
- **Maximum versatility** thanks to the various configurations available



Variants

- Oversized actuator

Versions

- **BBZMF-BBZMG** Manual tank-bottom single seat valve - with or without handle
- **BBYO-BBYOG** Tank-bottom single seat valve with steam barrier
- **BBW01-BBWOG1** Aseptic tank-bottom single seat valve with diaphragm



BBZPA

DIVERT SINGLE SEAT VALVE - EASY MAINTENANCE

BBZPA is a divert single seat valve developed to improve efficiency during maintenance operations. Its **EASY MAINTENANCE** design allows a reduction of maintenance operations, a reduction of contamination points, less gaskets to be replaced, therefore a reduction of time required for service.

Standard features

1 Connections from DN25 to DN150 (from 1" to 6")

2 Seals: EPDM, FKM, HNBR, PTFE

3 Maximum pressure: 10 bar

CERTIFICATIONS



Main benefits

- **Reduction of service time** (-40% operations, -30% gaskets compared to BBZP)
- **Maximum hygiene and reliability** (less contamination points)
- **Versatility** it can be installed for all applications and different products



EasyMaintenanceDESIGN

Versions

- **BBYPA** Divert single seat valve with steam barrier

BBWP1

ASEPTIC VALVE WITH DIAPHRAGM

The **BBWP1** valve has been designed for sterile applications which require safety in cutting off and/or directing of product. The demand of aseptic valves is increasing thanks to the wide range of applications from pharma to tomato and dairy industries. BBWP1 features a **new diaphragm** in Gylon® which ensures maximum operating performance and improved valve efficiency.

Standard features

1 Connections from DN15 to DN100

2 Seals: EPDM, FKM, HNBR, PTFE

3 Maximum pressure: 10 bar

CERTIFICATIONS



Main benefits

- **100% aseptic:** ideal for sterile applications
- **Improved performance of diaphragm:** operating pressure up to 10bar and operating temperature up to 150 °C
- **Maximum hygiene** and reliability
- **Easy maintenance** without use of special tools
- **Flexibility:** Single seat BBZP easily upgradable to BBWP1
- **Maximum versatility** thanks to the various configurations available



Variants

- Parabolic shutter
- Shutter in peek

Versions

- **BBWM1**
Manual aseptic valve with diaphragm

BBZS1 BBZS5

BY-PASS VALVES

BBZS1 and **BBZS5** by-pass valves have been designed to be highly versatile. These valves are suitable for different types of application and for diverse industrial sectors. Regulation of the retained pressure depends on the loading of the spring. This load can be regulated by adjusting ring nut located inside the protective casing on **BBZS1**. Or by using the adjustment pin on the top back of the actuator on **BBZS5** with the possibility to facilitate valve washing by opening the actuator with air injection.

Standard features

1 Connections from DN10 to DN100 (from 1/2" to 4")

2 Seals: EPDM, FKM, HNBR, PTFE

3 Maximum pressure: 10 bar

CERTIFICATIONS



BBZS1



BBZS5 (3A -EHEDG)

Main benefits

- **Maximum hygiene and reliability**
- **Sturdiness:** valve bodies made from solid bar
- **Easy maintenance** without the need for special tools
- **Maximum versatility:** suitable for different applications and products
- **Maximum safety**



BBWS11



BBZS5

Variants (BBZS5 only):

- Parabolic shutter
- Sensor and solenoid valve
- Lockable

Versions

- **BBYS1** Manual by-pass with steam barrier
- **BBYS5** Pneumatic by-pass with steam barrier
- **BBWS11** Manual by-pass valve -aseptic with diaphragm
- **BBWS51*** Pneumatic by-pass valve -aseptic with diaphragm

BBZQ

HIGH PRESSURE VALVE

BBZQ is the **only high pressure valve** currently available on the market which guarantees 3A certified hygiene. This single seat valve has been designed for application in all health-hygiene sectors with **pressures up to 150 bar**. Made from top quality raw materials, it is characterized by an extremely modern design and sturdiness and can be installed in all those applications where maximum reliability is required for cutting off and directing a fluid or product. Extremely versatile and flexible, with no increases in dimensions, it can be easily converted to **BBYQ** by inserting a steam barrier. The connection fittings are totally interchangeable with the previous version (ZQ series).

Standard features

1 Connections from DN25 to DN100 (from 1" to 4")

2 Seals: EPDM, FKM, PTFE and metal seal for the shaft

3 Maximum pressure: 150 bar from DN 25 to DN 80; 55 bar for DN 100

CERTIFICATIONS



Main benefits

- **IT'S UNIQUE!**
the only high-pressure valve – up to 150 bar – with 3A certification
- **Simplified maintenance**
for significant time savings and increased efficiency
- **Modular and flexible:**
conversion to aseptic with steam barrier (BBYQ) with no changes in dimensions
- **Sturdiness:** valve bodies made from solid bar
- **Serviceable actuator**



Variants

- Hydraulic damper
- Parabolic shutter
- Stroke limiter
- Pressure regulator
- By-pass application

Versions

- **BBYQ** High pressure valve with steam barrier
- **BBZMQ** Manual operated high pressure valve
- **BBZQM** Modulating high pressure valve

B93JPG

MIXPROOF DOUBLE SEAT VALVE FOR PIGGING SYSTEMS

B93JPG enables complete and safe separation between two fluids and recovery of the product with PIG.

The lower body is specially designed to enable the smooth passage of the PIG; the upper body might have one or two horizontal ports.

The upper shutter has an axial seal while the lower one has a radial seal.

B93JPG may be installed vertical or suspended.

When vertical installed, CIP is draining by the port above the bodies and by the auxiliary valve.

Standard features

1 Connections from DN40 to DN100

2 Seals: EPDM, FKM, HNBR

3 Maximum pressure: 10 bar

CERTIFICATIONS



Main benefits

- **Complete separation** between two different products
- Designed and **precision-engineered** for pigging systems
- **Minimal dead-space** valve to maximize product recovery
- **Easy maintenance** without use of special tools



Variants

- Pig stopper

Versions

- **B93JPG REVERSE** Tank-bottom double seat valve

BZAW3PG

DOUBLE SEAL VALVE FOR PIGGING SYSTEMS

BZAW3PG guarantees separation between two fluids and recovery of the product with PIG. The special design of the shutter provides a separation chamber between the two seals. This ensures that any product leaks flow out through the two auxiliary valves located on the separation chamber, avoiding any contact between the two fluids. The lower body is specially designed to enable the smooth passage of the PIG while the upper body might have 1 or 2 horizontal ports.

Standard features

1 Connections from DN40 to DN100

2 Seals: EPDM, FKM, HNBR

3 Maximum pressure: 10 bar

CERTIFICATIONS



Main benefits

- Designed and **precision-engineered** for pigging systems
- **Minimal dead-space** valve to maximize product recovery
- **Modular and flexible:** Maximum flexibility thanks to different DN sizes
- **Sturdiness:** valve bodies made from solid bar
- **Easy maintenance** without use of special tools



Variants

- Pig stopper

Open valve



Closed valve



BBZPPG

SINGLE SEAT VALVE FOR PIGGING SYSTEMS

BBZPPG single seat valve enables simple, fast, and effective cleaning and product recovery. Unlike standard valves, it features minimal dead-space which ensures maximum product recovery. It has been specially designed and engineered for applications with extremely high cleaning, sanitising and hygiene requirements. Fully piggable, the valve offers high levels of performance, reliability and effectiveness.

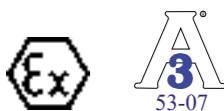
Standard features

1 Connections from DN25 to DN150

2 Seals: EPDM, FKM, HNBR

3 Maximum pressure: 10 bar

CERTIFICATIONS



Main benefits

- Designed and **precision-engineered** for pigging systems
- **Minimal dead-space** valve to maximize product recovery
- **Modular and flexible:** Maximum flexibility thanks to different DN sizes
- **Sturdiness:** valve bodies made from solid bar
- **Easy maintenance** without use of special tools



Variants

- Pig stopper

Versions

- **Steam barrier** A steam barrier is recommended for very hygiene applications such as sterile, aseptic processing or high temperature sterilization.
- **Diaphragm** The use of a diaphragm inside the valve body allows to obtain a safe separation between the product inside the valve and the external environment.

BBZK

MODULATING VALVE WITH MEMBRANE ACTUATOR

BBZK is a modulating valve designed to regulate the flow rate and maintain a constant level, pressure or temperature value. Its membrane actuator connected to the positioner allows partial opening and closing of the shutter, allowing intermediate flow rates and pressure drop in the valve.

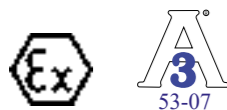
Standard features

1 Connections from DN25 to DN100 (from 1" to 4")

2 Seals: EPDM, FKM, HNBR, PTFE

3 Maximum pressure: 10 bar

CERTIFICATIONS



Main benefits

- **Maximum regulation reliability**
- **Flexibility** thanks to the numerous options and variations available
- Optimization of **process efficiency**
- **Serviceable actuator**



Variants

- Electropneumatic positioner
- Linear shutter
- Equipercantage shutter

Versions

- **BBYK** Modulating valve with membrane actuator and steam barrier
- **BBWK1** Aseptic modulating valve with diaphragm

BBZPM

MODULATING VALVE WITH ELECTROPNEUMATIC POSITIONER

BBZPM is a modulating valve characterized by a compact design and engineered to regulate the flow rate and maintain a constant level, pressure or temperature value. The connection of the positioner to the actuator allows partial opening and closing of the shutter, allowing intermediate flow rates and consequently pressure drop in the valve.

Standard features

1 Connections from DN25 to DN100 (from 1" to 4")

2 Seals: EPDM, FKM, HNBR

3 Maximum pressure: 10 bar



GE type

BRK type

Main benefits

- **Maximum regulation reliability**
- Optimization of **process efficiency**
- **Compact design**
- **Easy maintenance** without need for special tools
- **Sturdiness:** valve bodies made from solid bar



CERTIFICATIONS



Variants

- Equipercentage shutter
- Linear shutter

Versions

- **BBYPM** Modulating valve with electropneumatic positioner, piston actuator and steam barrier
- **BBWPM1** Aseptic modulating valve with diaphragm

ZVF
VVF

BUTTERFLY VALVES

ZVF is a butterfly valve with pneumatic actuator which cuts off and monitors fluids in the process flow by movements of opening and closing. Characterized by a simple design and engineered to be extremely reliable, it is commonly used in many different applications requiring extensive product passage.

VVF is a manual butterfly valve which cuts off and monitors fluids in the process flow by movements of opening and closing. Available in versions with a plastic 5-position handle, stainless steel 4-position handle or with a millimetric regulation handle for precision measuring of fluid passage.

Standard features

1 Connections from DN10 a DN150 (da 1/2" a 6")

2 Seals: EPDM, FKM, HNBR, VMQ

3 Maximum pressure: 10 bar

CERTIFICATIONS



ZVF



VVF

Main benefits

- **Certified hygienic design**
- **Maximum reliability**
- Wide range of **customized solutions**
- **Simplified maintenance** of pipeline thanks to special fittings available

WAFER 4 FITTING*

Available in both **ZVF** and **VVF** version, it is commonly used in many different applications requiring large product passage. The particular type of connection fittings allow to pull off easily the valve body from the piping only removing 2 screws during maintenance operations.



Variants

- **SENSORS** (only for VVF valve) One or two Proximity switches can be installed close to the lever; a feedback is given to an electrical board.
- **STROKE LIMITER** (only for ZVF valve) Adjustable device which allows mechanical regulation of valve stroke.
- **LOCKABLE** (only for VVF valve)

VVF handles

- Plastic handle
- Stainless steel handle
- Stainless steel handle with millimetric regulation



ZVS
VVS

BALL VALVES

ZVS is a pneumatic sanitary ball valve which allow product passage without restrictions, reducing friction loss to a minimum. It is ideal for viscous liquids or liquids with suspended particles in food, beverage and pharmaceutical industries and in applications with high operating pressures. On request the integral seal version is available reducing product stagnation inside the valve body to a minimum.

The manual version **VVS** is fitted with a stainless steel 2-position handle; handle with multiple positions is available on request.

Standard features

- 1 Connections from DN10 to DN100 (from 1/2" to 4")
- 2 Seals: FKM, PTFE
- 3 Maximum pressure for two-way valves: 25 – 64 bar (depending on diam.); for three way valves: 16-40 bar (depending on diam.)

CERTIFICATIONS



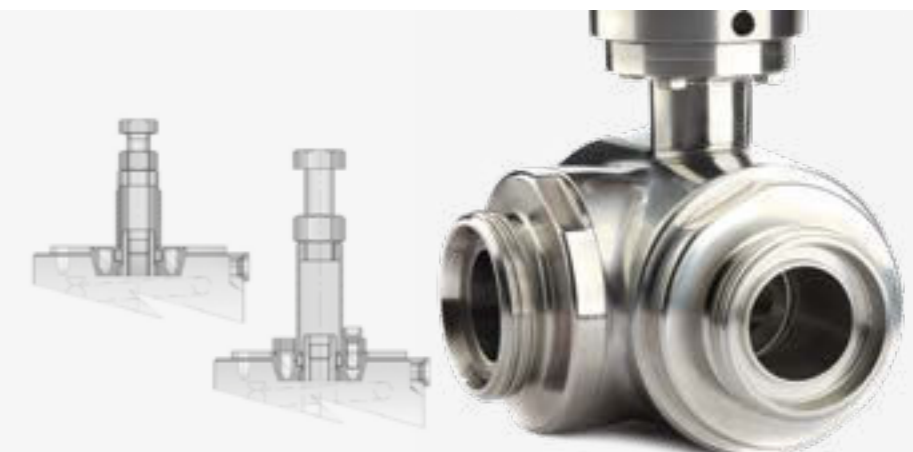
Main benefits

- Product passage without restrictions guaranteed
- High-precision
- Maximum versatility



Variants

- Stroke limiter (only for ZVS)



GIOTTO TOP® TEACH

NEW GENERATION CONTROL UNIT

The **Giotto Top® TEACH** control unit is the new Bardiani's control unit builds on the strengths of Giotto Top® 360, integrating advanced electronics (IO-Link only) and pilot valves directly into the unit. It offers enhanced control and monitoring of sanitary valves, even in the most demanding environments.

Giotto TOP Teach supports **multiple communication protocols**: digital 24VDC, AS-i, and IO-Link, ensuring seamless system integration and flexible connectivity for efficient valve management.

It features a user-friendly design that simplifies both installation and operation. The **integrated magnetic field reader** ensures precise position measurement, with four preset reading modes available by default.

Users can easily select the optimal mode via Bus or directly from the device, enhancing accuracy and operational efficiency.

In IO-Link configuration it offers **advanced diagnostic capabilities**, enabling predictive maintenance through IoT connectivity. This functionality helps reduce downtime, ensuring continuous operation and improving overall system efficiency, making it an ideal choice for industries focused on hygiene and reliability.

CERTIFICATIONS

2014/30/EU-EMV 2011/65/
EU-RoHS
ANSI/UL 94



Main benefits

- **Complete Valve Control:** integrated control electronics and pilot valves for comprehensive valve operation management.
- **Flexible Connectivity:** Compatible with multiple communication protocols (digital 24VDC, AS-i, IO-Link) for easy integration.
- **Precision Monitoring:** Magnetic field reader for accurate valve position measurement, with 360° illuminated indicators for full visibility.
- **Durable Design:** High-resistance materials ensure reliability in demanding conditions.
- **Advanced Diagnostics:** IoT-enabled predictive maintenance and real-time diagnostics (IO-Link only).



GIOTTO TOP® J-GIOTTO TOP®

CONTROL UNITS

The **Giotto Top® 360** control unit has been designed to ensure effective control and monitoring of valve operation. Each control unit can manage all the operations linked to valve functioning: in fact, both the position indicators (proximity switches and microswitches) and the solenoid valves are installed inside the Giotto Top® 360. Installation on the top of the valve actuator is quick and easy.

Made from high-resistance materials, the reliability of the electrical components which make up the unit ensures the operator can safely monitor operations remotely, thanks to the illuminated indicators visible on all sides (360°). The high protection rating (IP67) against dust and liquid penetration ensures perfect operation of the various components even in the most arduous operating conditions.

Giotto Top is designed to manage double seat valves and large valves.

J-Giotto Top is designed to control single seat valve, butterfly valves and ball valves.

In case of potentially explosive atmospheres ATEX control units guarantee a high level of safety.

Giotto Top® ATEX control units have been designed and manufactured in observance of Directive 2014/34 UE governing "Equipment and protective systems intended for use in potentially explosive atmospheres", to ensure effective remote control of the various movements of the Bardiani Valvole valves.



Main benefits

- **Effective and reliable** valve monitoring
- **Quality of materials** and observance of the **highest safety standards**
- **AS-i technology** which significantly improves system efficiency (Giotto Top only)
- **Easy installation** on the valve

Variants

- Lockable



AS-i NETWORK CARD (WITH GIOTTO TOP® ONLY)

An AS-i interface slave card can be installed in Giotto Top control unit.

Giotto Top® with AS-i interface technology is the most efficient solution for remote control of valves.

- Control units are in parallel connection to a 2 wires unshielded cable. It allows to collect information from the network and supply the power to sensors and solenoid valves installed.
- Using the existing wiring it's possible to add new elements to the network.
- AS-i master controls regularly all the slaves connected to the network.
- A maximum of 62 slaves can be connected to each AS-i master.
- The longest distance (total cable length) from the master must be max 100 m. The extension up to 200m requires passive bus termination. Repeters are used to reach longer distances. Bardiani AS-i card can manage 4 inductive sensors and control 3 solenoid valves.

AS-i card LEDs provide light signaling of the valve position related to each sensor installed. The light signal is all around visible.

EASY GIOTTO

SUPPORT UNIT

The **Easy Giotto** holder unit has been designed to meet the need of the customer to **protect** the operator during the functioning of the valve.

Moreover, the compact dimension allows easy installation even in case of limited space.

To ensure maximum versatility, customer decides which M12 cylindric sensors install on valves.



Main benefits

- **Guaranteed safety** thanks to the new design, protects the operator during valve operation
- **Extreme versatility** customer decides which M12 cylindric sensors install on valves;



Standard features

- 1 Connections from DN25 a DN100 (da 1" a 4")
- 2 Seals: EPDM, FKM, HNBR, PTFE
- 3 Maximum pressure: 10 bar



Valve body with flat glass enclosure which allows the user to constantly and reliably inspect the product.

BBTRD

SIGHT GLASS

CERTIFICATIONS



Main benefits

- **Accuracy** in product inspection
- **Greater safety and sturdiness** thanks to the flat glass
- **Maximum versatility.** Also operates with vacuum.



BBVAR

MULTIFUNCTIONAL HOUSING

BBVAR is a multifunctional housing series for inline pipe application which enables visual control and supervision of fluid processing.

It allows the visual control if equipped with metal fused sight glass* and a direct product control if equipped with special measurement instruments*.

Standard features

1 Connections from DN25 to DN150 (1"÷ 6")

2 Seals: EPDM, FKM, HNBR, PTFE

3 Maximum pressure: 10 bar



CERTIFICATIONS



Main benefits

- **Cleanability and hygiene:** thanks to absence of dead areas and controlled seals compression (3A 65-01 certified).
- Maximum **versatility** any instruments from main manufacturers can be installed on the housing.



BBNRV

CHECK VALVE



Check valve BBNRV prevents fluid from flowing backwards. It ensures that fluid flows in only one direction.

It can be used to prevent water hammer.

Check valve opens when the pressure of the fluid exceeds the pressure applied by the spring. When the two pressures are compensated, the valve closes. A higher counter-pressure will ensure the valve closes. Valve design is optimized for vertical position installation.

Standard features

1 Connections from DN15 to DN150 (1/2"÷ 4")

2 Seals: EPDM, FKM, VMQ

3 Maximum pressure: 10 bar

MAIN VARIANTS

TO IMPROVE VALVES PERFORMANCE*

1. Steam barrier

A steam barrier is recommended for very hygiene applications such as sterile, aseptic processing or high temperature sterilization. The steam barrier, placed between the valve body and the pneumatic actuator, minimises the risk of the product coming into contact with the external atmosphere.

2. Diaphragm

The use of a Gylon® PTFE diaphragm ensures maximum operating performance at high temperature (up to 150°C) and improved valve efficiency. The diaphragm guarantees a sterile valve, allowing the total isolation of components in contact with the product and the external environment.

3. External auxiliary circuit

Suitable for all applications where an external cleaning is needed. The auxiliary cleaning circuits allows the distribution of CIP fluid to clean the telescopic shutters and valve stern. This distribution takes place as turbulence, allowing complete removal of impurities from the shutters.

4. Twin-stop

An auxiliary Twin-Stop pneumatic cylinder controls the final closure or initial opening of a valve. On aseptic valves, it is the ideal solution for avoiding water hammer caused by the rapid shutting of a valve. A valve with this configuration can be also used for flow regulation, weighing and dosing.



5. Stroke limiter

Adjustable device which allows for the mechanical limitation of valve stroke.

6. Oversized actuator

The versatility of the single-seat valves allows the adaptation of various pneumatic cylinders according to the working pressure.

7. Parabolic shutter

The use of a shutter with parabolic profile allows a softer closure of the valve.

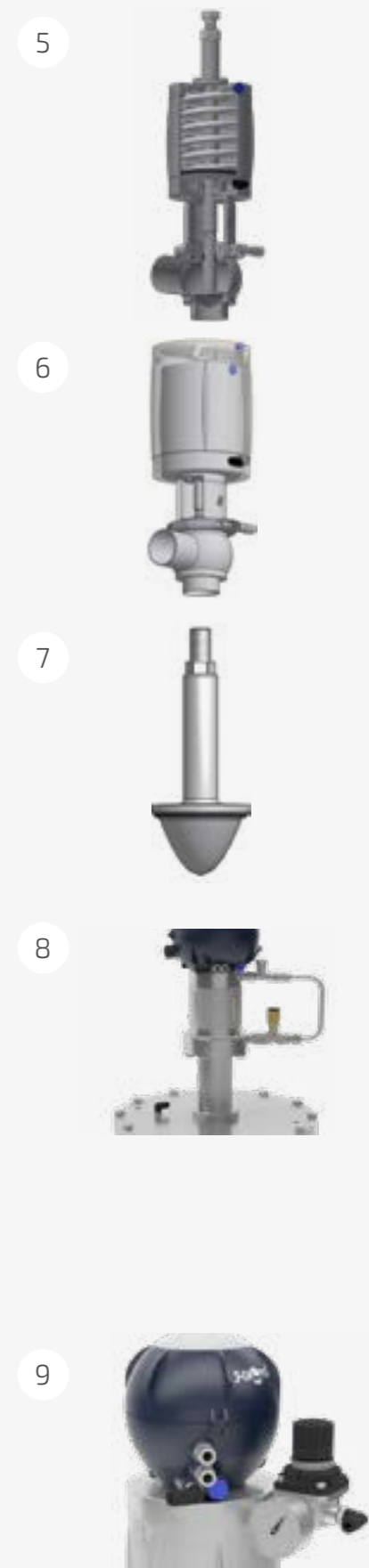
8. Hydraulic damper

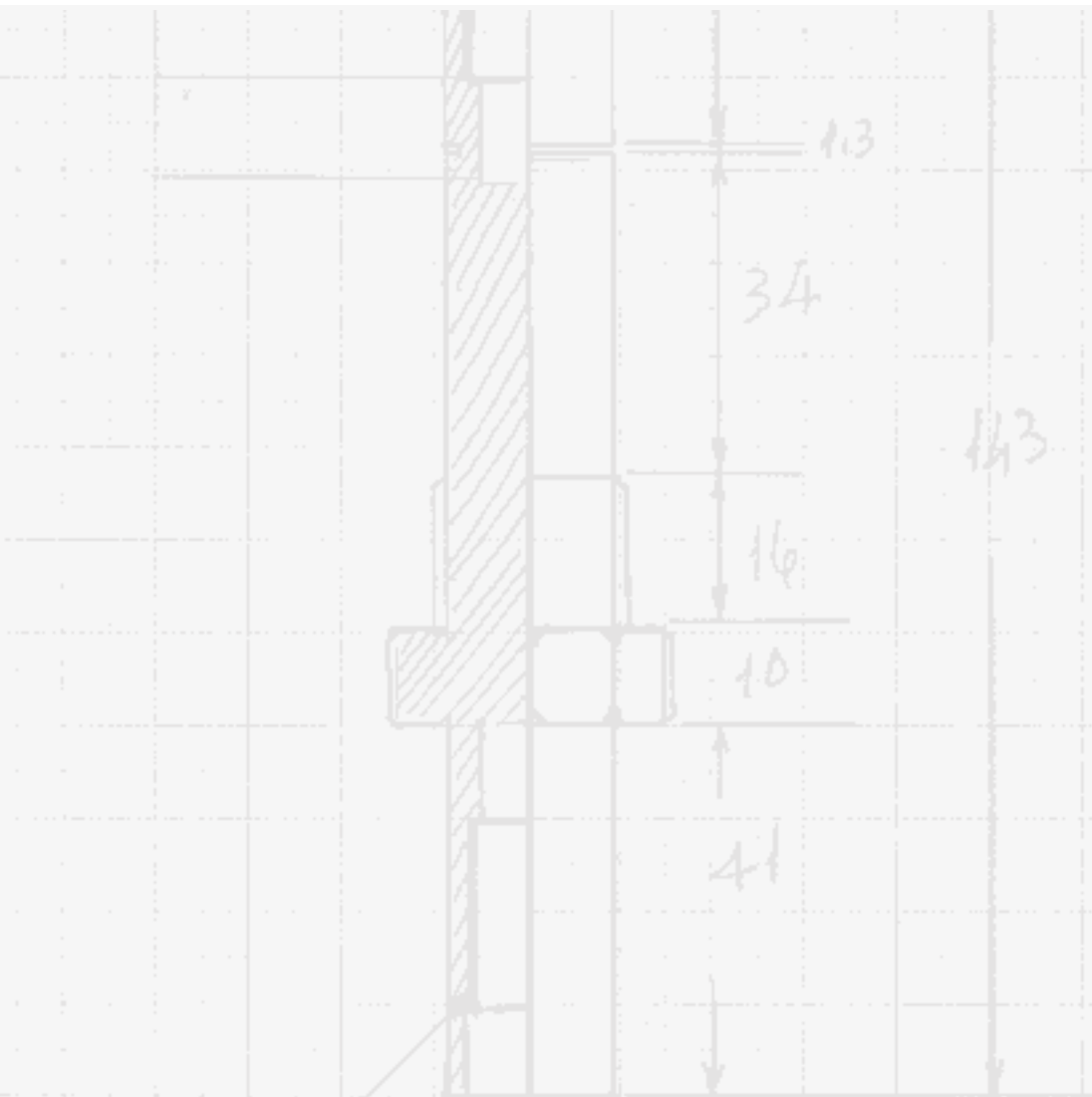
This auxiliary device, dedicated only to high pressure valves, is mounted on the top of the pneumatic actuator.

Hydraulic damper allows slower opening and closing of the valve, increasing the service life of gaskets and avoiding creation of water hammers in pipeline.

9. Pressure regulator and manometer

The pressure regulator is a good solution for pneumatic bypass valve. This device allows regulation of the air pressure into the pneumatic actuator, modifying the seal pressure. Fitted with the pressure regulator, the manometer shows the air supplying.





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