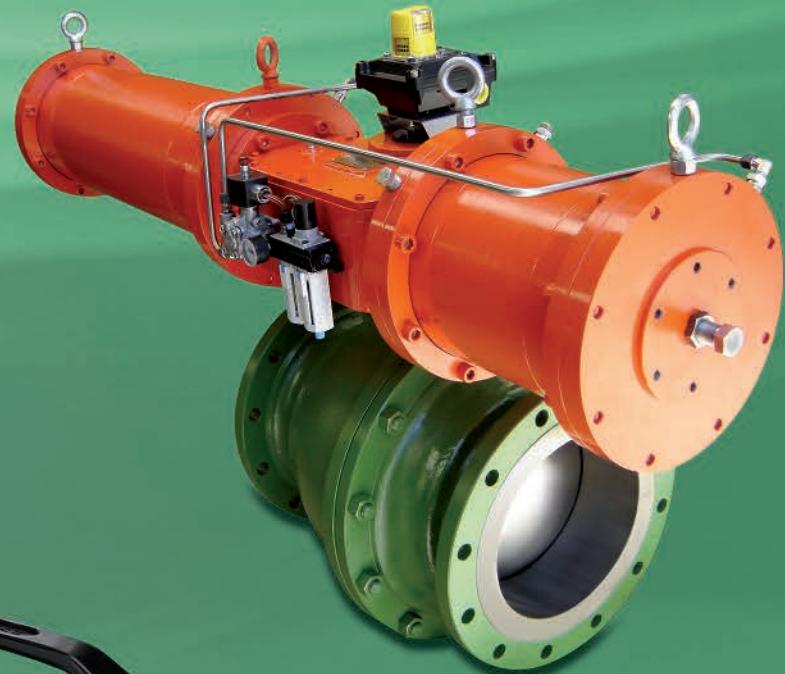


ESFEROMATIC

CONTROL, BALL, MANUAL AND AUTOMATED VALVES



General Product Catalog

Undisputed Technological Leader since 1969

Since 1969, ESFEROMATIC S.A. has forged its path based on quality and continuous technological development.

The manufacturing plant is located in the city of Quilmes, Buenos Aires Province, and specializes in the production of ball valves and control valves ranging from 1/4" to 18" in diameter, in ANSI series 150-300-600-900, and 1500, threaded valves, and welding valves up to 3" and up to 5000 psi.

It has a commercial network throughout the country with exclusive distributors in the cities of Neuquén, Rosario, Córdoba, Mendoza, Tucumán, and Comodoro Rivadavia.

It made progress in the field of automatic control and in 1972, it manufactured the first control segmented V-port ball valves.

In September 1991, it obtained the exclusive license to manufacture FOXBORO control valves.

Then, In March 1996, it achieved the DET NORSKE VERITAS ISO 9001 certification for the design, manufacture and service of manual, automated and control ball valves.

In 2010, API 6D Certification (latest revision 23) was obtained, along with the corresponding monogram.

It has developed new designs of eccentric ball valves and others for use in wellheads, suitable for new methods of optimizing extraction without causing environmental issues.

Gradually, it began entering the main markets in the Americas, with representations and distributions in Bolivia, Brazil, Chile, Peru, Ecuador, Colombia, Venezuela, and the U.S.



In this catalog, you will find the following:



Flanged Valves



Automated Valves



Control Valves



Threaded and Welding Valves



Eccentric Valves



3- and 4-Way Valves



General Accessories for Valves



Esferomatic is committed to providing a tailored solution for each project

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Threaded and Welding Valves

Threaded NPT and BSPT models; SW and BW Welding Models

Threaded

- Sizes: 1/4" to 3"
- Pressure: 1,500 psi to 5,000 psi
- Threaded ends: NPT, BSPT
- Non-detachable stem
- Unitary/split body
- Floating/Guided ball
- Full bore/Nominal bore
- Fire-Safe



Welding

- Sizes: 1/4" to 3"
- Pressure: 1,500 psi to 5,000 psi
- Socket weld (SW)
- Butt weld (BW)
- Non-detachable stem
- Unitary/split body
- Floating/Guided ball
- Full bore/Nominal bore
- Fire-Safe

Flanged Valves

Flanged Ball Valve Line

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Features

- Sizes: 1/2" to 18"
- Bodies:
ASTM A 216 WCB Carbon Steel, ASTM
A 351 CF8M Stainless-Steel.
- Series 150 to 1500.
- ASME B 16.5, MSS SP6 Flanged Ends
- Electrical continuity device (antistatic).
- Non-detachable stem.
- Unitary/split body.
- Floating/Guided ball.
- Full bore/Nominal bore.
- Fire-Safe.
- Grease Nipples (Optional, Guided Ball).
- Nickel-Plated Trims (Optional).

These valves provide reliable, leak-tight sealing in services with a wide range of liquids, gases, and vapors, including solids in suspension.

Standard flow valves have a smooth, straight-through design, as they feature straight-through balls, which reduces turbulence, and provides maximum flow capacity.

Full-bore valves, when in the open position, present no obstruction to the flow of the fluid and are essentially an additional section of piping.



Padlock Hasp



Extended Stem



Heated



Safety Lock



Eccentric Valves

Eccentric Turn Ball Valve

Features

- Sizes from 1" to 12" • 150 to 1500 Series
- Flanged ends • Metal to metal seat • Full bore
- Top Entry" body in 2", 3" and 4" diameters for easy in-line maintenance.
- Heavy duty, non-detachable stem calculated according to Von Mises criteria with triple sealing system, maintenance free.
- Bonnet/cover union with the body, designed in accordance with ASME B16.34.
- Eccentric rotating ball with dual internal guidance using self-lubricating 'DU'-type bushings (high load capacity, no lubrication required).
- Stainless steel seat with a high-hardness, high-resistance composite thermoplastic 'V' insert, or metal-to-metal contact, with a coating of Stellite, tungsten carbide, and nickel. Allows for easy replacement without the need for special tools.
- Flow guides protect the seat from erosion and reduce turbulence.



Valve erosion occurs due to a combination of several factors, primarily the fluid circulation speed through the valve and its degree of turbulence. Suspended solid particles exacerbate the erosion effect by colliding with the surface of the valve parts.

Esferomatic has developed a ball valve capable of withstanding opening and closing under high differential pressure conditions, as well as with highly erosive and dirty fluids. EXCENTRIC combines the simplicity and efficiency of a ball valve with the performance in critical situations of an orbital valve.

Automated Valves

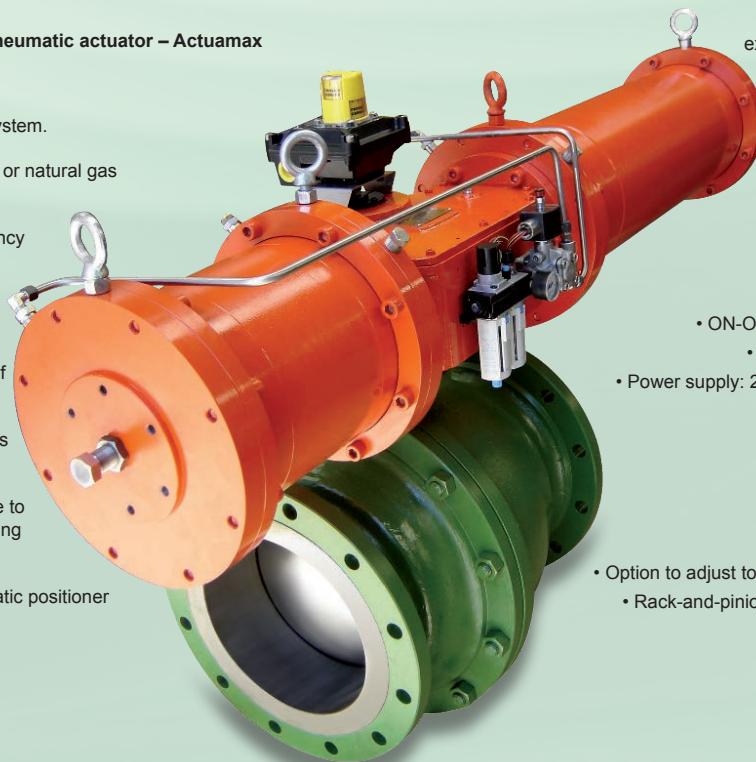
Actuator Models and Features

ESFERMATIC

Actuator Features

Double and single-acting pneumatic actuator – Actuamax

- Guided stem.
- Scotch yoke" transmission system.
- Designed to operate with air or natural gas as the supply fluid.
- Hydraulic drive with emergency manual operation.
- Solenoid valve with filter-regulator.
- Waterproof or explosionproof limit box.
- Option to interchange pistons of different diameters.
- Option to convert from single to double-acting without changing torque
- Pneumatic or electropneumatic positioner



Manual

- Low operational torque.
- Waterproof or explosion proof limit box.



Electric

- Stroke limits.
- Manual drive.
- ON-OFF (modulating option).
- Explosion-proof option.
- Power supply: 24 VDC – 110/220 VAC.



Pneumatic

- Compact.
- Option to adjust torque by spring quantity.
- Rack-and-pinion transmission system.



3- and 4-Way Valves

"T" option, "L" option, multi-way.

3- Ways

- Sizes: 1 1/2" to 6"
- Flanged: Series 150
- Designs:



90° Option – "T" Ball passages
90° Option "T" Ball.



180° Option – "L" Ball passages
180° Option – "L" Ball.



4-way Mulvi

- Sizes: 1/2" to 1 1/2"
- Threaded: NPT, BSPT
- Welding: Butt Weld, Socket weld, plain
- Flanged: Series 150, 300 and 600 (upon request)

The Mulvi model is a three- or four-way valve with a floating ball supported by four seats. This design minimizes the losses typically found in conventional three-way valves with two seats after prolonged use. It is manufactured in both standard and full-bore passages, and in three- or four-way configurations. The valve is supplied with *L*, *T*, or *LL* passage balls, offering a wide range of fluid diversion possibilities, a feature not found in conventional valves.



Control Valves

Models and Features

ESFERMATIC

Globe

Globe control valve, manufactured under Foxboro license. Stem-guided designs for V1S general-purpose, V1C sleeve-guided for high differential pressures.

- Sizes from 1/2" to 6".
- Carbon Steel /Stainless Steel body.
- Series 150 / 300 / 600.
- Flanged / Threaded connections.
- Internal parts made of Stainless Steel / Stellite / Tungsten Carbide.

Rotary and Linear Diaphragm Actuators

- Motion transmission via ball joints that reduce backlash and allow for stroke adjustment.
- Spring return.
- Operating signal: 0 to 60 psi.



Segmented V-Port Ball

Esferomatic control segmented v-port ball valve. Mainly used in the paper industry. Control of fluids with a high percentage of solids, fibers, gases, and vapors.

- Sizes from 3/4" to 12".
- Carbon Steel /Stainless Steel body.
- Series 150 / 300.
- Flanged Wafer-type connections.
- Internal parts made of Stainless Steel / Stellite / Tungsten Carbide (metal-metal).



General Accessories for Valves

Limits, Solenoids, Positioners, Filters, and Control Panels

Limits



- Mounting on rotary and linear actuators.
- Classified area or general-purpose.
- Mechanical, magnetic, or inductive limit switches.

Solenoids



- Weather proof.
- Explosion-proof.
- Intrinsic safety / Manual reset.

Control Panels



Positioners



- Mounting on rotary and linear actuators.
- Pneumatic-Electropneumatic.
- Smart.

Regulator Filters



- Mounting on Rotary / Linear Actuators.

Control Panels and Boards:

In recent years, our automation department has developed a line of control panels, which are custom-made for each project and feature the following characteristics:

- Regulation and control for high and low inlet pressure.
- Line shutdown for high pressure, low pressure, differential pressure, and their combinations.
- LINE BREAK. • Local and remote control.
- Special commands (shutoff for high flow, shutoff for differential pressure, etc.).

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At Esferomatic we offer a technical solution for each specific need.

