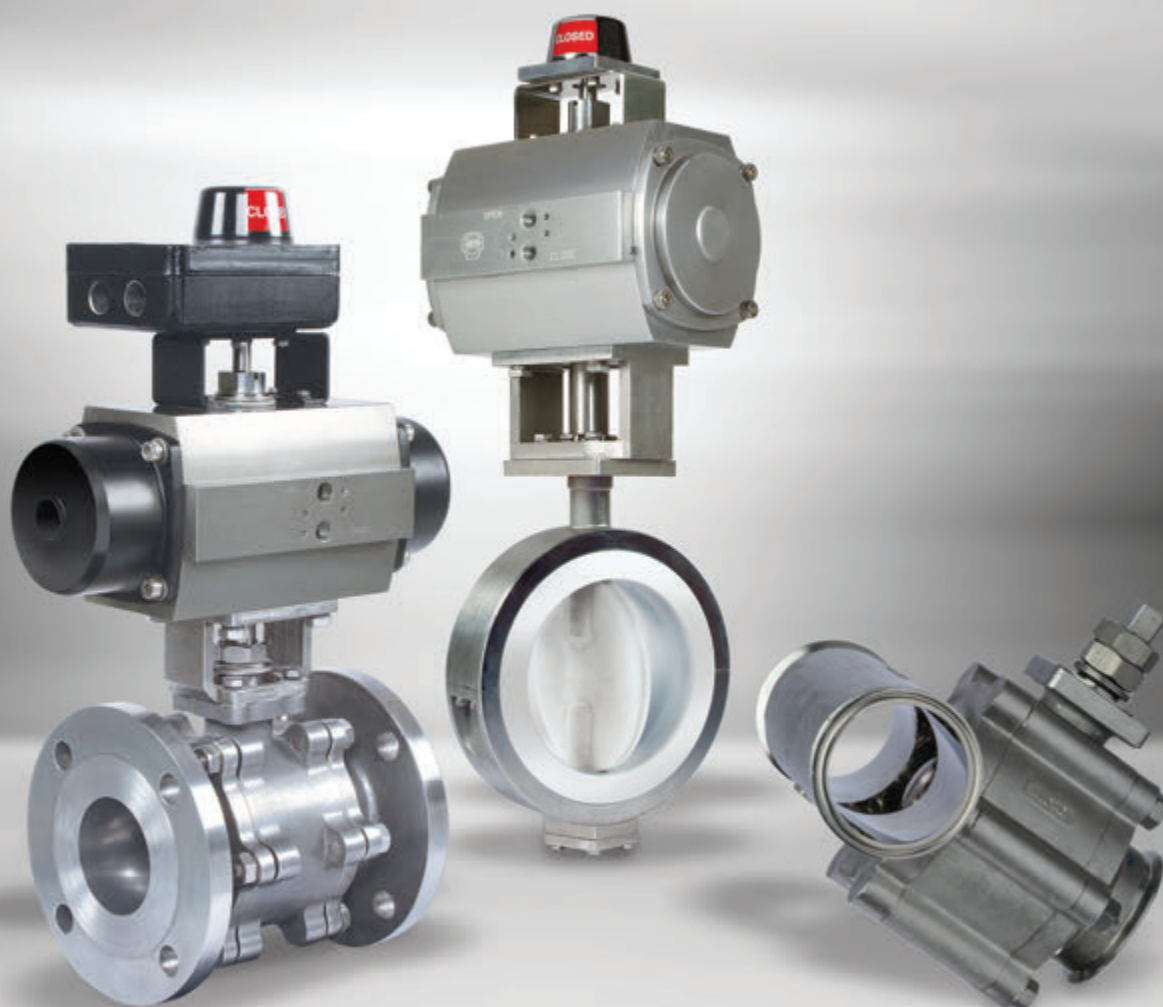


Ball Valve & Butterfly Valve

Efficient, Reliable Investment for Trouble Free Operation



"MICRO Pneumatics Private Limited" founded in 1986 with clear vision of excellent **quality, reliability** and **customer satisfaction**. Micro is a professionally managed organization having certified ISO 9001:2015 by Bureau Veritas Quality International with UKAS accreditation and having CE marking for valves.

"MICRO" Products are performing to the utmost satisfaction of our customers from various Industries such as Petro – Chemicals, Power, Fertilizer, Pharmaceuticals, Food Fiber and other Industries resulting in manufacturing of customized valves.

MICRO Pneumatics Private Limited is a one stop solution for Valve and Valve Automation System under one roof branded as **"MICRO"**.



Ball Valve

- Exhaustive Size range from 1/4" to 16"
- Pressure Rating available PN-10, CWP-1000# & ASME-150# to ASME-2500#
- Valves up till size 8" are Investment casted and above that Sand-casting
- Metal-seated Ball-valves for high temperature as well as slurry media and special Soft Seated Ball Valves for cryogenic applications.
- Three way Ball-valves for Diverting, Shut-off applications & Diverting-Control available in specific sizes

Standards / Certifications

- Design BS EN ISO 17292, Pressure Testing EN 12266 – 1 & 2
- Fire Test BS 6755 Part II, EN- 12266 – 2
- Face to Face as per ASME B 16.10
- Fire Test – 6FA certified by DNV / API607
- 1 Million cycle tested by PDIL
- CE Marking
- Flow tested by FCRI (Palakkad)
- SIL3 capable
- IBR certified

End Connections

Flanged End	ASME B 16.5
Socket Weld	ASME B 16.11
Butt Weld	ASME B 16.25
Screwed End	ANSI/ASME B 1.20.1
Orbit Weld	ASME B 16.25
TC END	ISO 2852

Features

- Pressured Balanced
- Minimum operating torque
- Surface finish as per BIS IS 3073:1967 (R 2006)
- ISO 5211 Top Flanged for Actuator mounting
- Anti – Blow out Stem
- Guided Stem
- Standard Fire Safe construction

2 Way Ball Valves

2 Piece Designed Soft Seated Ball Valve

MOC of the Body
WCB, CF8, CF8M, CF3,
CF3M
(Special on request)

Trim
CF8, CF8M, CF3,
CF3M
(Special on request)

Seat
PTFE, RPTFE
(Special on request)

Size
1/2" to 16"



2 Piece Designed Ball Valve with Complete Automation System

The complete Electro Pneumatic system consists of Ball Valve, Declutchable Gear Box, Pneumatic Rotary Actuator, Position Indicator and Solenoid Valve.

The Valve can be operated by Declutchable Gear Box fitted on the Valve, even when the Electrical Power or Air Pressure fails.

Size: 1/2" to 16"

Design: Floating ball Valve and Trunion mounted ball valve



Screwed End Ball Valve with Actuator

MOC of the Body
WCB, CF8, CF8M, CF3,
CF3M
(Special on request)

Trim
CF8, CF8M, CF3,
CF3M
(Special on request)

Seat
PTFE, RPTFE
(Special on request)

Size
1/4" to 2"



2 way Ball Valves

Socket Weld Ball Valve with Actuator

MOC of the Body WCB, CF8, CF8M, CF3, CF3M (Special on request)	Trim CF8, CF8M, CF3, CF3M (Special on request)	Seat PTFE, RPTFE (Special on request)	Size 1/4" to 3"
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Buttweld Ball Valve with Actuator

MOC of the Body WCB, CF8, CF8M, CF3, CF3M (Special on request)	Trim CF8, CF8M, CF3, CF3M (Special on request)	Seat PTFE, RPTFE (Special on request)	Size 1/2" to 4"
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Orbital Weld Ball Valve with Actuator

MOC of the Body CF8, CF8M, CF3, CF3M (Special on request)	Trim CF8, CF8M, CF3, CF3M (Special on request)	Seat PTFE (Special on request)	Size 1/2" to 4"
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TC End Ball Valve with Actuator

(Valve without Cavity Filler)

MOC of the Body
CF8, CF8M, CF3,
CF3M
(Special on request)

Trim
CF8, CF8M, CF3,
CF3M
(Special on request)

Seat
PTFE
(Special on request)

Size
1/2" to 4"



TC End Cavity Filled Ball Valve with Actuator

MOC of the Body
CF8, CF8M, CF3M
(Special on request)

Trim
CF8, CF8M, CF3M
(Special on request)

Cavity Filler
PTFE

Size
1/2" to 6"



SMS DIN Ball Valve

MOC of the Body
CF8, CF8M,
CF3M
(Special on request)

Trim
CF8, CF8M, CF3,
CF3M
(Special on request)

Cavity Filler
PTFE
(Special on request)

Size
1/2" to 4"



Wafer Type Ball Valve

MOC of the Body WCB, CF8, CF8M, CF3M (Special on request)	Trim CF8, CF8M, CF3, CF3M (Special on request)	Seat PTFE, RPTFE (Special on request)	Size 1" to 4"
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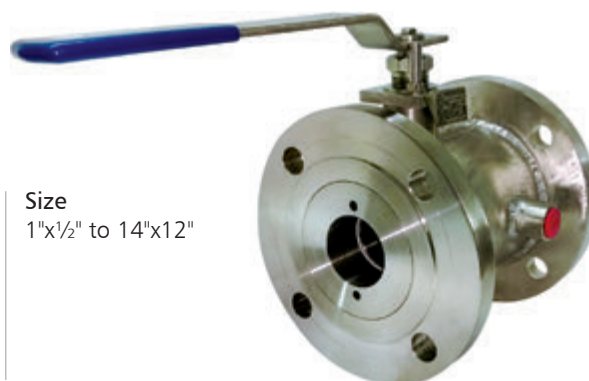
Metal Seated Ball Valve with Actuator and Position Indicator

MOC of the Body WCB, CF8, CF8M, (Special on request)	Trim SS 316, CF8, CF8M Stellited (Special on request)	Seat Inconel 625 Backup Seal Graphite	Size 1/2" to 8"
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Jacketed Ball Valve

MOC of the Body WCB, CF8, CF8M, CF3M (Special on request)	Trim CF8, CF8M, CF3, CF3M (Special on request)	Seat PTFE, RPTFE (Special on request)	Size 1"x1/2" to 14"x12"
Jacketed MOC SS 304			



3 Way Ball Valves

ZDL (Zero Dead Leg Ball Valve)

MOC of the Body CF8M, CF3M (Special on request)	Trim CF8M, CF3M	Seat PTFE Integral	Size ¾" to 4"
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3 Way L – Port Ball Valve

MOC of the Body WCB, CF8, CF8M, CF3M (Special on request)	Trim CF8, CF8M, CF3, CF3M (Special on request)	Seat PTFE, RPTFE (Special on request)	Size ½" to 8"
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3 Way 120° Ball Valve with Actuator

MOC of the Body CF8, CF8M, CF3, CF3M (Special on request)	Trim CF8, CF8M, CF3, CF3M (Special on request)	Seat PTFE, RPTFE (Special on request)	Size 1" to 4"
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3 Way T – Port Pigging Ball Valve with Actuator

MOC of the Body WCB, CF8, CF8M, CF3, CF3M (Special on request)	Trim CF8, CF8M, CF3, CF3M (Special on request)	Seat PTFE, RPTFE (Special on request)	Size ½" to 6"
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Tri-Port Control Ball Valve

MOC of the Body CF8, CF8M, CF3M (Special on request)	Trim CF8, CF8M, CF3, CF3M (Special on request)	Seat PTFE, RPTFE (Special on request)	Size 1" to 6"
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Three-Way Shut-off Ball Valve with Actuator

MOC of the Body CF8, CF8M, CF3, CF3M (Special on request)	Trim CF8, CF8M, CF3, CF3M	Seat PTFE, RPTFE (Special on request)	Size 1" to 6"
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Pneumatic Rotary Actuators

Actuators are pneumatically operated quarter turn rotary, dual Rack and Pinion Design manufactured under a robust quality assurance system complying ISO 9001:2000.

These actuators are available in spring return and double acting models with output torque ranging from 3Nm to 4000Nm for 0-90° and upto 180° operating for range of pressure upto 8 bar.

- Compact Design in Hard Anodized Extruded Aluminum and Investment Cast SS Body.
- Mounting Interface : ISO 5211 for Valves and Actuator Mounting arrangements.
- Namur for Solenoid Valves. • VDI/ VDE 3845 for Actuator and Auxiliary accessories.
- External arrangements to adjust the stroke at minimum $\pm 5^\circ$ in both open and close positions. • Blow - out proof pinion. • Least pressure operation. • No metal to metal contact. • Quick Response.



Butterfly Valve

- Exhaustive size range from 1½" to 24"
- End – Connections
 - Universal Wafer Type (Centric Split Body & Eccentric)
 - Wafer Type with Mounting holes on the body (Centric)
 - Tri – Clover (Centric)
 - SMS DIN (Centric)
- Pressure rating available in PN – 3 – 12 (Centric design) & ASME – 150# & ASME – 300# (Eccentric Design)
- Standard MOC's in DI, WCB, CF8, CF8M, CF3, CF3M & Hastelloy – Alloy (On Special Request)
- Valves up till 12" are in Investment Casting & above that in Sand Casting.
- Special Applications: For corrosive media PFA Lined Butterfly Valves are available. Metal seated BFV for high temperature & Slurry media.

Standards / Certifications

- Design Standard: MSSP67 (Cat A) and MSSP68 (Cat B)
- Pressure Testing Standard: EN 12266 – 1
- CE Marking
- Flow tested by FCRI (Palakkad)
- SIL3 capable
- IBR certified

Butterfly Valves

Eccentric Designed Butterfly Valve

MOC of the Body WCB, CF8, CF8M, CF3, CF3M (Special on request)	Disc CF8, CF8M, CF3, CF3M (Special on request)	Seat PTFE, RPTFE (Special on request)	Size 1½" to 24"
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Metal Seated Butterfly Valve with Actuator and Stay Put System

MOC of the Body WCB, CF8, CF8M, CF3, CF3M (Special on request)	Disc CF8M, CF8 Stellited	Seat Inconel 625	Size 2" to 8"
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TC End Butterfly Valve with Actuator

MOC of the Body CF8, CF8M, CF3M (Special on request)	Flap CF8M, CF3M	Seat PTFE, Food Grade Silicon	Size 2" to 8"
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Split Body Lined Butterfly Valve with Actuator

MOC of the Body	Flap	Lining	Size
Ductile Iron, WCB, CF8, CF8M, CF3M with PTFE Sleeve	PFA Lined	PFA	2" to 24"



Split Body Unlined Flap Butterfly Valve with Actuator

MOC of the Body	Flap	Seat	Size
Ductile Iron, WCB, CF8, CF8M, CF3M with PTFE Sleeve	CF8, CF8M, CF3, CF3M, Hastalloy Titanium (Special on request)	PTFE, PFA, Silicon EPDM	2" to 24"



Slim Body Butterfly Valve

MOC of the Body	Trim	Seat	Size
AL, CF8, CF8M, CF3M (Special on request)	CF8, CF8M, CF3M	Silicon EPDM (Special on request)	2" to 12"



Multi Flap Butterfly Valve

MOC of the Body	Trim	Seat	Size
CF8, CF8M, CF3M (Special on request)	CF8, CF8M, CF3M	PTFE, Sleeve	4" to 8"





Micro Pneumatics Pvt. Ltd.

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