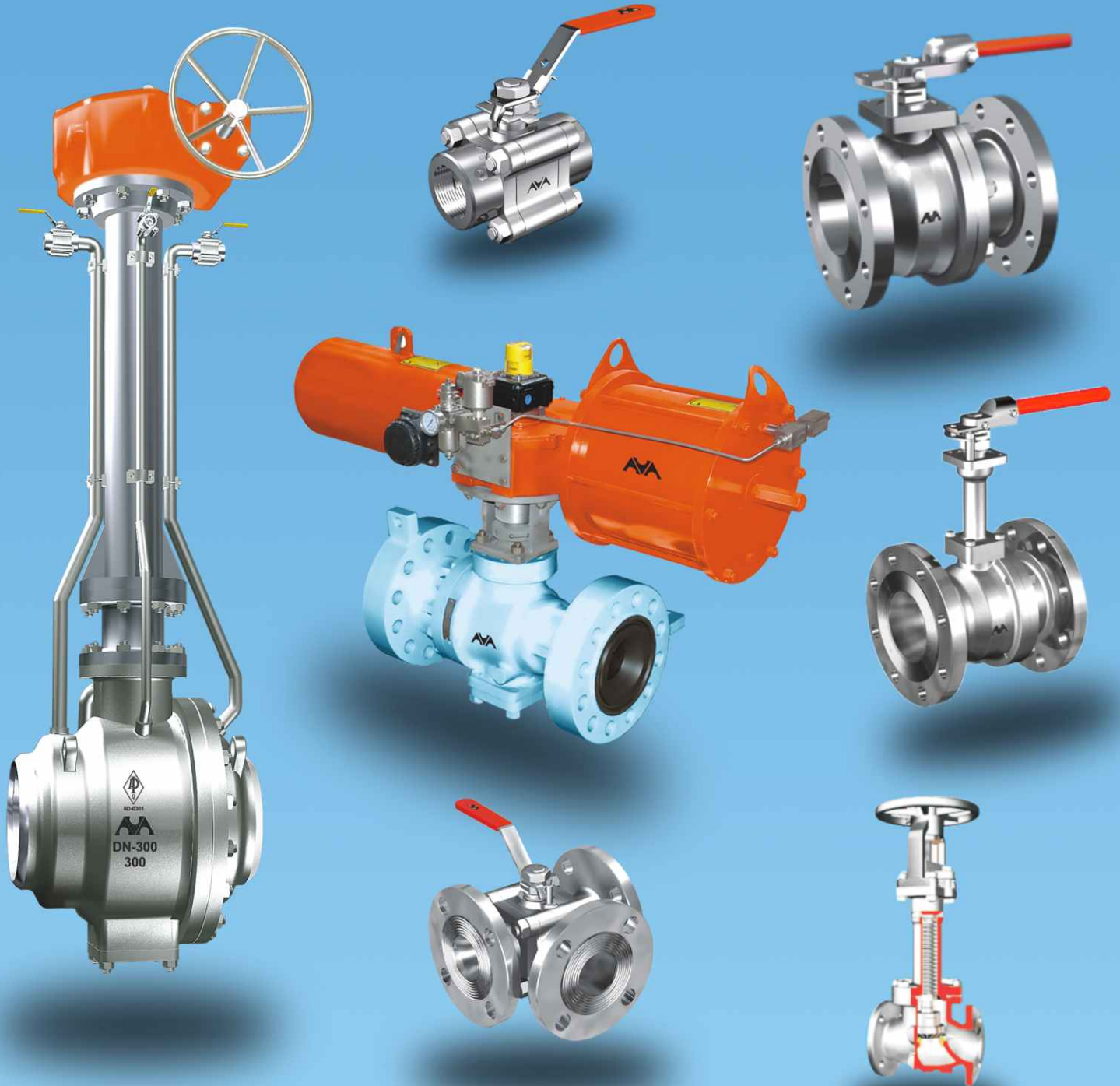




# MICROFINISH VALVES PRODUCT RANGE

ENGINEERED FOR HIGH PERFORMANCE AND CRITICAL APPLICATIONS



6D 0301



0045



SIL 3 IEC 61508



ATEX 94/9/EC

**MICROFINISH VALVES, INC.**

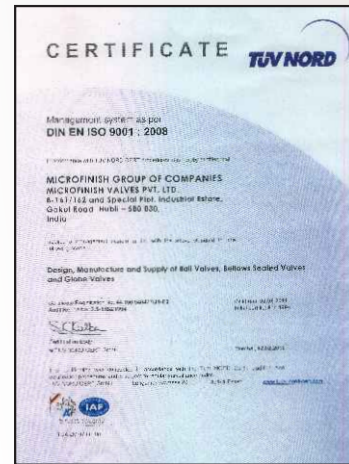
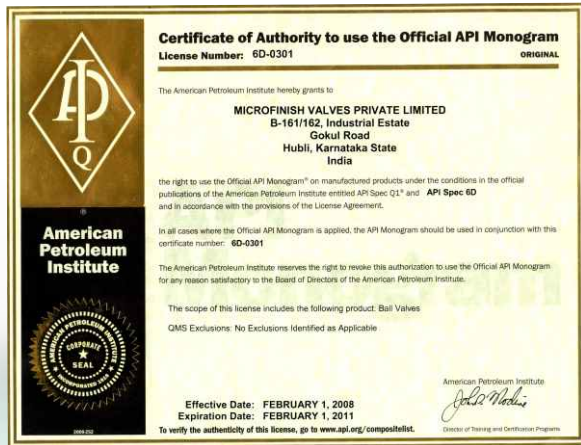
a wholly owned subsidiary of

**MICROFINISH VALVES PVT. LTD**

## THE MICROFINISH WAY

Microfinish group is a privately owned and managed organization specializing in industrial valves and automation for energy, process, and natural resource industries. The guiding principles of Microfinish are:

- Personal commitment to our customers
- Top quality in everything we do
- Best available technology for all our products and services



## INTRODUCTION

Microfinish group was established in 1971 to manufacture ball valves, bellows sealed globe valves, globe valves for chlorine service, gate globe check valves, and knife edge gate valves. Other valves were added to the product range in later years. For the last 40 years we have designed, developed, and supplied our products to:

- Oil and gas facilities, hydrocarbon processing, refineries, and petrochemical plants
- Fossil fuel, nuclear, and combined cycle power plants
- Fertilizer, chemical, and pharmaceutical industries
- Food and beverage plants
- Mining, minerals processing, and steel sectors
- Pulp and paper mills

We are recognized as a quality manufacturer of reliable valves for industry. Our wealth of experience has enabled Microfinish to become a prominent supplier of ball valves throughout the world.

Industrial technology is progressing at a remarkable rate, so we have established a research and development department equipped with modern test facilities.

Our manufacturing facilities are located in separate and well laid-out buildings with ample scope for future expansion. The industrial estate in Hubli is one of the biggest, and fastest developing manufacturing zones in the state of Karnataka. The city of Hubli is well served by air, rail, and road connections; it is situated on the national highway NH 4 between Mumbai and Bangaluru.



## INTRODUCING MICROFINISH VALVES, INC.



We launched Microfinish Valves, Inc. in Houston, Texas in July 2010 to bring our portfolio of specialized industrial valves to the key region of the Americas. We provide sales, technical support and a full array of inventory to our core regional markets. In a time when outsourcing of manufacturing and design control has become common, we believe our business model of quality assurance through design ownership and in-house manufacturing control in India will be a winning combination with end users who want to know the company behind the product, as well as behind the sale.

### PRODUCTS

We manufacture the following products in various materials including carbon steel, stainless steel, duplex, and high nickel alloys:

- Ball valves in floating and trunnion mounted designs, with cast and forged construction, including three way and jacketed configurations, and special versions for cryogenic and high temperature services
- Bellows sealed globe valves
- Globe valves for chlorine service
- Knife edge gate valves
- Gate, globe, and check valves-forged

Microfinish is committed to total quality. Stringent and efficient quality assurance and control systems have been implemented in accordance with ISO 9001: 2000.

In 1994 our organization was the first in India to receive the prestigious ISO 9001 certificate (1994 edition) from RWTÜV in Germany. Microfinish ball valves have also had API 6D certification since February 1999, PED certification since 2002, SIL 3 certification since 2009, and ATEX certification in 2010.

### VALVE AUTOMATION



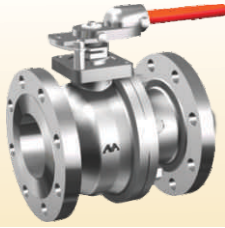
Microfinish has expertise in valve automation technology and can offer complete systems. Our wide range of actuators, controls and accessories enable Microfinish to be a single source for integrated automated valve systems. Microfinish valves are available in variety of automation packages that includes:



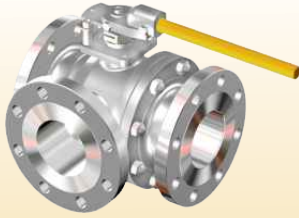
- Pneumatic and electric automation systems
- Hydraulic automation systems
- Electro hydraulic actuated valves and systems
- Gas, and gas over oil automation systems
- On-off remotely operated valves with automation systems
- Emergency shutdown(ESD) valves with automation systems
- Vertical actuators for special applications
- Flame proof enclosures for actuators and accessories

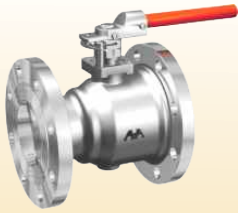
### IN-HOUSE FACILITIES FOR QUALIFICATION TESTS

- Fire safe
- High temperature with superheated steam
- Noise and vibration
- Fugitive emissions
- Low temperature for cryogenic valves
- Life cycle






	FORGED AND CAST THREE PIECE BALL VALVES	CAST TWO PIECE BALL VALVES
		
Series.	81 to 91R3 and F3.	84 to 91R2 and F2.
Design.	Floating, 3 piece, RB and FB.	Floating, 2 piece, RB and FB.
Design std.	ANSI B16.34 and API 6D.	ANSI B16.34 and API 6D.
Sizes-in.	½" to 2".	½" to 12".
Pr. Class.	600 to 2500.	150 to 2500.
Materials.	A105, LF2, F304, F316, CF8, CF8M, CF3, CF3M, duplex, nickel and other alloys.	WCB, LCB, CF8, CF8M, CF3, CF3M, duplex, nickel, and other alloys.
Seats.	PTFE, TFM, RPTFE, nylon, PEEK and metal.	PTFE, TFM, RPTFE, nylon, PEEK and metal.
Ends.	SE, SWE, and WE.	Flanged and WE.
Features.	Fire safe and antistatic, blow out proof stem.	Fire safe and antistatic, blow out proof stem.
Options.	NACE MR0175 and Mr0103, pups, locking device, metal seats, cavity relief. Pneumatic and electric actuators.	NACE MR0175 and MR0103, pups, locking device, metal seats, cavity relief. Gear, pneumatic and electric actuators.

	CAST THREE PIECE THREE WAY BALL VALVES	CAST TWO PIECE THREE WAY BALL VALVES
		
Series.	71 and 74 R3 and F3.	71 and 74 R2 and F2.
Design.	Floating, 3 piece, RB and FB.	Floating, 2 piece, RB and FB.
Design std.	ANSI B16.34 and API 6D.	ANSI B16.34 and API 6D.
Sizes-in.	½" to 2".	2½" to 12".
Pr. Class.	150 and 300.	150 and 300.
Materials.	WCB, LCB, CF8, CF8M, CF3, CF3M, duplex, nickel, and other alloys.	WCB, LCB, CF8, CF8M, CF3, CF3M, duplex, nickel, and other alloys.
Seats.	PTFE, TFM, RPTFE, nylon, PEEK and metal.	PTFE, TFM, RPTFE, nylon, PEEK and metal.
Ends.	SE, SWE, WE, and FE.	SE, SWE, WE, and FE.
Features.	Antistatic, blow out proof stem.	Antistatic, blow out proof stem.
Options.	NACE MR0175 and MR0103, pups, locking device, metal seats, cavity relief. Pneumatic and electric actuators.	NACE MR0175 and MR0103, pups, locking device, metal seats, cavity relief. Gear, pneumatic and electric actuators.




	ONE PIECE FLANGED BALL VALVES	CAST ONE OR TWO PIECE JACKETED BALL VALVES
		
Series.	84R1 and 85R1.	84 to 87 RJ, FJ. T84 to T87 RJ, FJ.
Design.	Floating, 1piece, RB.	Floating and trunnion, 1 and 2 piece, RB and FB.
Design std.	ANSI B16.34 and API 6D.	ANSI B16.34 and API 6D.
Sizes-in.	½" to 8".	½" to 12".
Pr. Class.	150 and 300.	150 to 600.
Materials.	WCB, LCB, CF8, CF8M, CF3, CF3M, duplex, nickel, and other alloys.	WCB, LCB, CF8, CF8M, CF3, CF3M, duplex, nickel, and other alloys.
Seats.	PTFE, TFM, RPTFE, nylon, PEEK and metal.	PTFE, TFM, RPTFE, nylon, PEEK and metal.
Ends.	Flanged ends.	Flanged ends.
Features.	Fire safe and antistatic, blow out proof stem.	Fire safe and antistatic, blow out proof stem.
Options.	NACE MR0175 and MR0103, locking device, metal seats, cavity relief. Gear, pneumatic and electric actuators.	NACE MR0175 and MR0103, locking device, metal seats, cavity relief. Gear, pneumatic and electric actuators.




  

	CAST OR FORGED CRYOGENIC BALL VALVES	KNIFE EDGE GATE VALVES
		
Series.	N84 to N90 and NT84 to NT90 R2 and F2.	50SW and 50SF.
Design.	Floating and trunnion, 2 and 3 piece, RB and FB.	Single piece body, round port.
Design std.	ANSI B16.34 and API 6D.	MSS SP 81.
Sizes-in.	½" to 24".	2" to 30".
Pr. Class.	150 to 1500.	Class 125 and 150.
Materials.	LF2, F316, LCB, CF8, CF8M, CF3, CF3M, duplex, nickel, and other alloys.	WCB, CF8, CF8M, and other alloys.
Seats or trim.	PTFE, TFM, RPTFE, PCTFE and metal.	304, 316, Alloy 20, and other alloys.
Ends.	SE, SWE, WE, and FE.	Wafer and wafer flanged.
Features.	Fire safe and antistatic, blow out proof stem.	Soft or metal seat.
Options.	NACE MR0175 and MR0103, pups, locking device, metal seats, cavity relief. Gear, pneumatic and electric actuators.	Deflector cone. Gear, pneumatic, and electric actuators.




	CAST TWO PIECE TRUNNION BALL VALVES	FORGED THREE PIECE TRUNNION BALL VALVES
		
Series.	T84 to T91R2 and F2.	T84 to T91R3 and F3.
Design.	Trunnion. 2 piece, RB and FB.	Trunnion, 3 piece, RB and FB.
Design std.	API 6D and ASME B16.34.	API 6D and ASME B16.34.
Sizes-in.	2" to 36".	2" to 36".
Pr. Class.	150 to 2500.	150 to 2500.
Materials.	WCB, LCB, CF8, CF8M, CF3, CF3M, duplex, nickel, and other alloys.	A105, LF2, F304, F316, duplex, nickel and other alloys.
Seats.	PTFE, TFM, RPTFE, nylon, PEEK and metal.	PTFE, TFM, RPTFE, nylon, PEEK and metal.
Ends.	Flanged and WE.	Flanged and WE.
Features.	Fire safe and antistatic, blow out proof stem.	Fire safe and antistatic, blow out proof stem.
Options.	NACE MR0175 and MR0103, pups, fully welded construction, stem extension, metal seats. Gear, pneumatic, hydraulic, gas over oil, and electric actuators.	NACE MR0175 and MR0103, pups, fully welded construction, stem extension, metal seats. Gear, pneumatic, hydraulic, gas over oil, and electric actuators.

	CAST OR FORGED TRUNNION BALL VALVES WITH STEM EXTENSION	FORGED GATE, GLOBE, CHECK VALVES
		
Series.	T84 to T91R2, R3 and F2, F3.	51, 54 and 57.
Design.	Trunnion, 2 and 3 piece, RB and FB.	Outside screw and yoke, bolted bonnet.
Design std.	API 6D and ASME B16.34.	API 602.
Sizes-in.	2" to 36".	½" to 2".
Pr. Class.	150 to 2500.	800 and 1500.
Materials.	A105, LF2, F304, F316, WCB, LCB, CF8, CF8M, CF3, CF3M, duplex, and other alloys.	A105, F5, F11, F22, LF2, F304, F316, and other alloys.
Seats or trim.	PTFE, TFM, RPTFE, nylon, PEEK and metal.	410, 304, 316, duplex, and other alloys.
Ends.	Flanged and WE.	SE, SWE, and WE.
Features.	Fire safe and antistatic, blow out proof stem.	Solid wedge, rolled seats, fully encased gasket.
Options.	NACE MR0175 and MR0103, pups, fully welded construction, metal seats. Gear, pneumatic, hydraulic, gas over oil, and electric actuators.	Weld-on flanges. Pneumatic, and electric actuators.

	BELLOWS SEALED GLOBE VALVES	BELLOWS SEALED GLOBE VALVES
		
Series.	21B and 22B.	54B, 55B and 56B.
Design.	Outside screw and yoke, bellows sealed, non-rotating stem.	Outside screw and yoke, bellows sealed, non-rotating stem.
Design std.	ASME B16.34.	ASME B16.34.
Sizes-in.	½" to 12".	½" to 3".
Pr. Class.	150 and 300.	600 to 2500.
Materials.	WCB, LCB, CF8, CF8M, CF3, CF3M, duplex, nickel, and other alloys.	A105, LF2, F304, F316, CF8, CF8M, CF3, CF3M, duplex, and other alloys.
Seats or trim.	410, 304, 316, duplex, and other alloys.	410, 304, 316, duplex, and other alloys.
Ends.	Flanged and WE.	SE, SWE, and WE.
Features.	25000 cycle bellows design.	25000 cycle bellows design.
Options.	Pups. Gear, pneumatic, and electric actuators.	Pups. Gear, pneumatic, and electric actuators.

	Y-TYPE BELLOWS SEALED GLOBE VALVES	GLOBE VALVES FOR CHLORINE SERVICE
		
Series.	54BY.	22C.
Design.	Outside screw and yoke, bellows sealed, non-rotating stem.	Outside screw and yoke, extra deep stuffing box.
Design std.	ASME B16.34.	ASME B16.34.
Sizes-in.	½" to 8".	½" to 12".
Pr. Class.	600 to 1500.	300.
Materials.	A105, LF2, F304, F316, CF8, CF8M, CF3, CF3M, duplex, and other alloys.	WCB, LCB, CF8, CF8M, CW12M, N7M.
Seats or trim.	410, 304, 316, duplex, and other alloys.	Monel, Hastelloy C, and other alloys.
Ends.	SE, SWE, and WE.	Flanged ends.
Features.	25000 cycle bellows design.	Encased sealing on all joints.
Options.	Pups. Gear, pneumatic, and electric actuators.	Gear, pneumatic, and electric actuators.

# GLOBAL SALES OFFICES

**HEADQUARTERS AND 12 SALES OFFICES IN INDIA**  
**Authorized representatives in Australia and Singapore**

## THE AMERICAS

**MICROFINISH VALVES, INC.** 

95 Crimson Ridge Court, The Woodlands, Texas 77381

Tel: 281 298 7141 Fax: 281 298 7141

Website: [www.microfinishvalvesinc.com](http://www.microfinishvalvesinc.com)

### Contacts

### Cell Phone

### Email

**Len Fruci**  
President

**817-946-2447**

**[lfruci@microfinishgroup.com](mailto:lfruci@microfinishgroup.com)**

**Bob Hohos**  
Vice President  
Sales and Marketing

**281-222-3481**

**[bhohos@microfinishgroup.com](mailto:bhohos@microfinishgroup.com)**

**Sales of specialized industrial valves, technical support,  
and a full array of inventory**



**MICROFINISH VALVES PVT. LTD.** 

B161-162, Industrial Estate, Gokul Road, Hubli-580 030, Karnataka, India.

Phone No: 91-836-2212404, 2210611 Fax No: 91-836-2331438

E-mail: [sales@microfinishgroup.com](mailto:sales@microfinishgroup.com) Website: [www.microfinishgroup.com](http://www.microfinishgroup.com)