



METAL SEATED BALL VALVES

ENGINEERED FOR 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.

INTRODUCTION TO THE COMPANY



THE MICROFINISH WAY

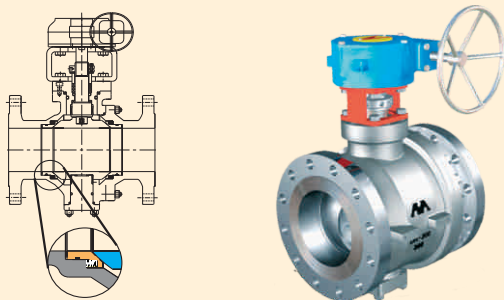
Microfinish group is a privately owned and managed organization specializing in industrial valves and automation for energy, process, and natural resource industries. The guiding principles of Microfinish are:

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

METAL SEATED BALL VALVES

FEATURES AND BENEFITS

- Finely machined and lapped ball and seats provides class V shutoff and lower operating torque
- Class VI shutoff is available upon request
- Scraper seat as standard provides ball cleaning capability
- Live loaded low emission graphite stem seal ensures a tight stem seal and low emissions
- Blowout proof stem and locking collar provide for safe operation in the field



TECHNOLOGY

- Microfinish uses advanced software for 2-D and 3-D design
- Finite element analysis



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.

INDUSTRIAL SECTORS

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

APPLICATIONS

- High temperature steam in power plants, refineries, and other plants
- Natural gas production platforms and distribution networks
- Ash handling equipment for boilers
- Digester discharge and black liquor in pulp mills
- Slurries and molten sulphur

- Simulated pressure - temperature analysis
- Microfinish research and development facilities include high temperature test loop to 896°F at 218 psi pressure



TECHNICAL SPECIFICATIONS



PRODUCT RANGE

SERIES	SIZES (in)	SERIES	SIZES (in)	BORE	PRESSURE CLASS	END CONNECTIONS
TWO PIECE CONSTRUCTION		THREE PIECE CONSTRUCTION				
		M81R3, M81F3	½-2	RB, FB	600, 800	SE, SWE, WE
M84R2, M84F2	½-10			RB, FB	150	FE, WE
M85R2, M85F2	½-10			RB, FB	300	FE, WE
M87R2, M87F2	½-4			RB, FB	600	FE, WE
M89R2, M89F2	½-3	M89R3, M89F3	½-2	RB, FB	900	SE, SWE, WE, FE
M90R2, M90F2	½-2	M90R3, M90F3	½-2	RB, FB	1500	SE, SWE, WE, FE
M91R2, M91F2	½-1	M91R3, M91F3	½-1	RB, FB	2500	SE, SWE, WE, FE
TM84R2, TM84F2	2-36	TM84R3, TM84F3	2-36	RB, FB	150	FE, WE
TM85R2, TM85F2	2-36	TM85R3, TM85F3	2-36	RB, FB	300	FE, WE
TM87R2, TM87F2	2-36	TM87R3, TM87F3	2-36	RB, FB	600	FE, WE
TM89R2, TM89F2	1-24	TM89R3, TM89F3	1-24	RB, FB	900	FE, WE
TM90R2, TM90F2	1-24	TM90R3, TM90F3	1-24	RB, FB	1500	FE, WE
TM91R2, TM91F2	1-12	TM91R3, TM91F3	1-12	RB, FB	2500	FE, WE
RB = Reduced bore. FB = Full bore. SE = Screwed ends. SWE = Socket weld ends. WE = Welding ends. FE = Flanged ends.						

STANDARD SPECIFICATIONS

Design standard	API 6D, API 608, ASME B16.34, BS EN ISO 17292
Testing standard	API 6D, API 598, ASME B16.34, BS EN 12266, ISO 5208
Leak tightness	ISO 5208 Rate A/B/C, ANSI/FCI 70-2 Class V/VI
Fire safe testing	API 6FA
Temperature range	-321°F to 1004°F
Material test certificate	EN 10204 3.1

MATERIALS OF CONSTRUCTION

Body	Forged	A105, LF2, F304, F316
	Cast	WCB, LCB, WC6, C5, C9, CF8, CF8M, and other alloys
Ball	Forged	A105, LF2, F6A, F304, F316
	Cast	WCB, LCB, CA15, CF8, CF8M, and other alloys
Ball coating	All	0.003 inch ENP
Seats	All	Heat treated or coated to suit service conditions
Stem	All	4140, 410, 17-4PH, Nitronic 50, Inconel, and other alloys
Springs	All	Inconel X-750

OPTIONAL SPECIFICATIONS

Bonnet extension	Ball coatings: Stellite, tungsten carbide, and nickel boron Special alloys and other materials to suit service conditions Special test certificate: EN 10204 3.2
High temperature design above 1004°F	
Cryogenic design	
Degreasing	

GLOBAL SALES OFFICES

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

THE AMERICAS

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



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