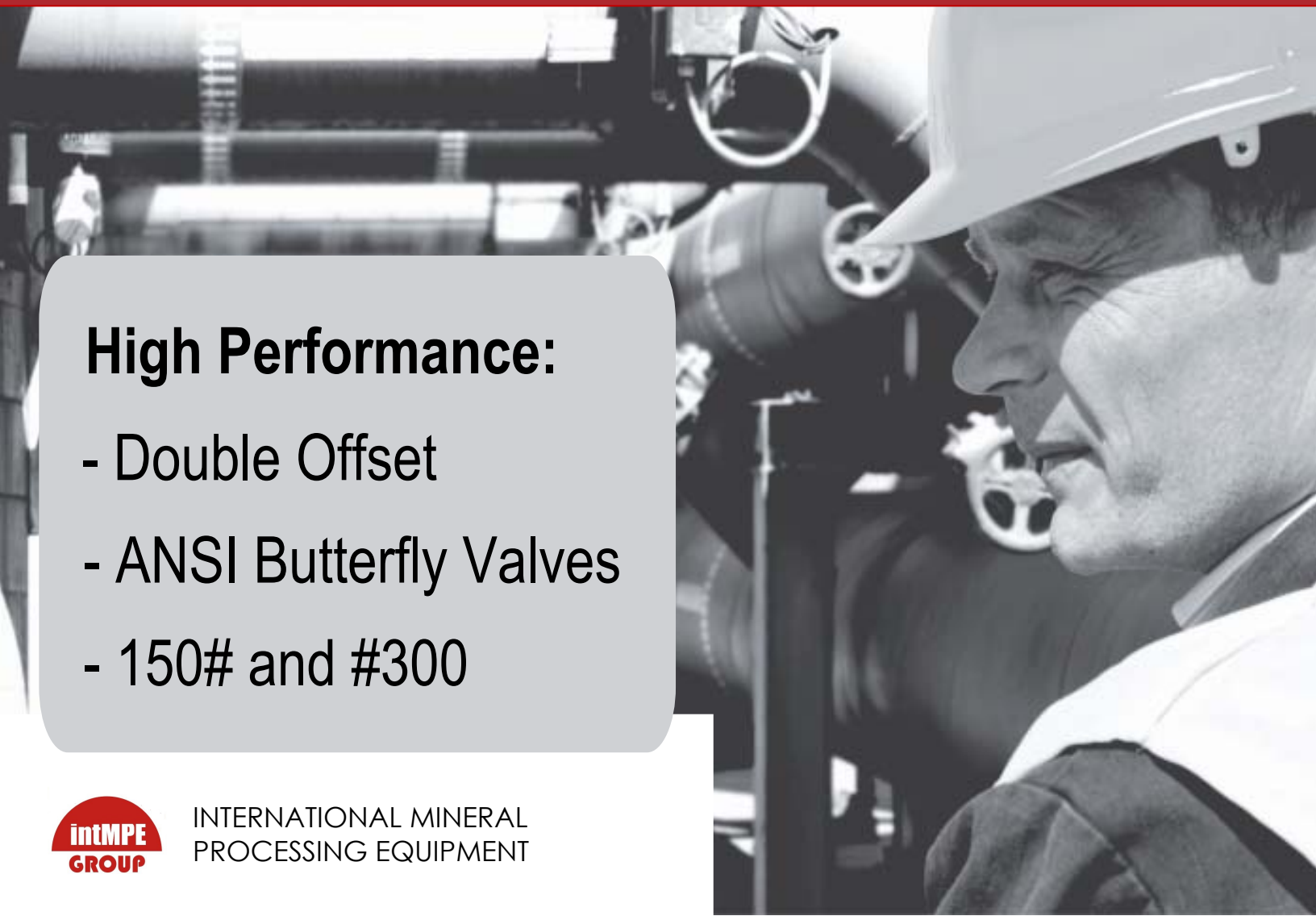
APPLICATION DRIVEN.
ENGINEERED SOLUTIONS.

Mineral Processing "MP" Valves



High Performance:

- Double Offset
- ANSI Butterfly Valves
- 150# and #300

intMPE GROUP

INTERNATIONAL MINERAL
PROCESSING EQUIPMENT



*All manufacturers' names, numbers, symbols and descriptions are used for reference purposes only and it is not implied that any pump or parts for them is a product of any of these manufactures.

MP High Performance Double Offset ANSI Class Butterfly Valves 150# & 300#

MP high-performance butter-fly valves combine a special off-center disc with sealing that provides you with tightest-sealing, longest-lasting, lowest-cost alternative to other valve designs!

MP high-performance butterfly valves are often a more cost-effective solution even for applications without high performance service demands.

MP valves are especially suitable for applications in grain/corn processing, chemicals, petrochemicals, power, refining, steel, air separation, HVAC and more.

MP HP VALVE BENEFITS

- High-Performance Butterfly Valves
- Flexible lip seats and eccentric disc resist erosion and wear.
- Actuators easily accept limit switches and positioners.
- Simple tightening of the valve gland packing stops leakage.
- Total costs are comparatively lower as valve size increases.

INTMPE "MP" Valves provide trouble-free shut off in many application types. Our MP High Performance valves will lower your overall cost of ownership for many years.

Features at a Glance

High Pressure Ratings

MP HP butterfly valves are rated at ANSI 150, 300 and 600 psi pressure classes.

Wide Temperature Range

MP butterfly valves are fully rated to replace costlier valves in cryogenic (-320°F) to high-temperature (500°F) applications.

Easy Automation

MP high-performance butterfly valves are easy to automate & often easier to automate than other rotary valves.

Low-Cost Environmental

Solution With *MP* valves can easily be adapted to comply with evolving emissions regulations.

Reliability

MP seats can provide reliability and tight shut-off under many damaging process conditions.

Lower Installed Cost and Higher Performance than Gate Valves

MP high-performance butterfly valves are designed to replace gate valves in most applications, whether for easier automation or simply for lower cost and improved performance.

Positive Shaft Retention

Positive shaft retention prevents movement of the shaft past the compression plate.

Positive Shut-Off

Flexible-lip polymeric seat assures positive shut-off, compensating for wear to extend life.

Easy Maintenance

Only the insert needs to be removed to replace the seat. The insert and seat are self-aligning.

Low Torque Requirements

Low output torque requirements allow the use of less costly actuators.

Broad Range of Materials

Available in a broad range of materials for standard and special services including:

Mining & Power Industries

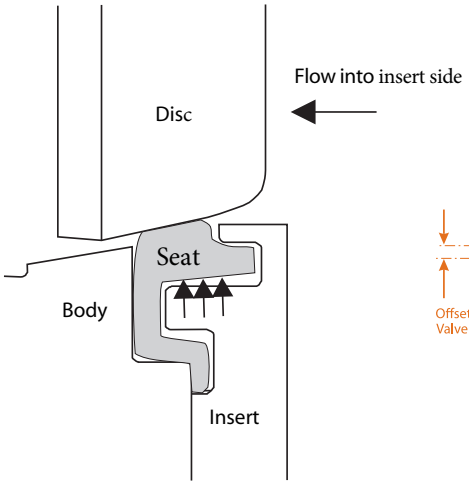
* Chlorine * Oxygen * Cryogenics * Vacuum *

INTERNATIONAL **M**INERAL **P**ROCESSING **E**QUIPMENT

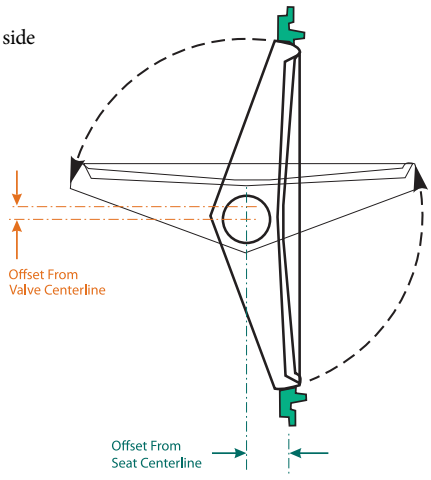
MP offset shaft and eccentric disc design causes the disc to swing away from the seat in just a few degrees of movement. Standard butterfly valve discs are centred on the shaft. INTMPE design eliminates scraping and rubbing of the Disc and rolling up of the elastomer seat which causes the valve to prematurely leak. When closing, the disc cams tightly into its RPTFE Seat to create a dependable tight seal.

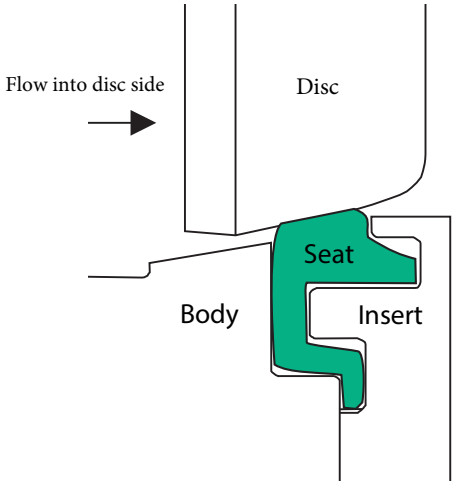
MP Seats Resist Permanent Distortion

This results in...
- longer cycle life,
- better thermal cycle performances and
- better pressure cycle capability.



Pressure on the insert side puts pressure under the seat lip, amplifying the sealing force between the disc and the seat.

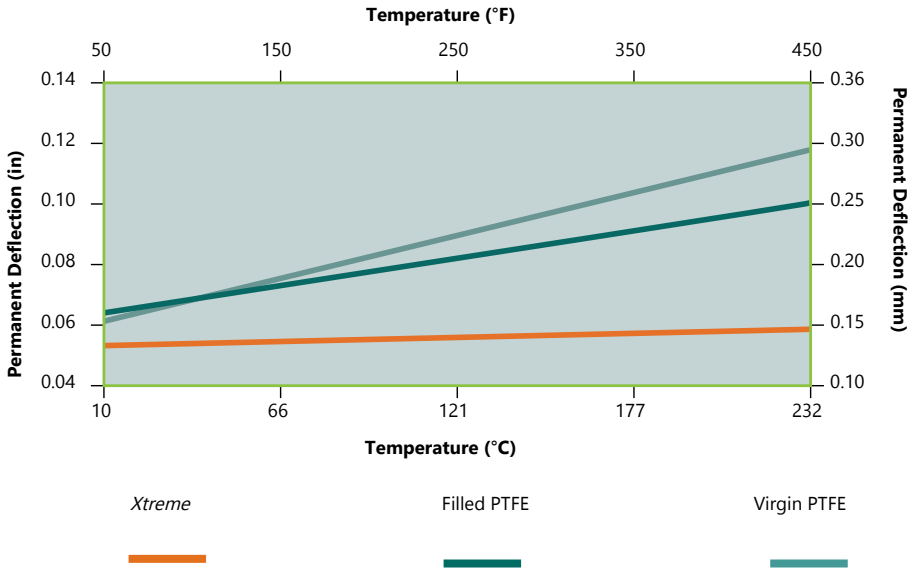




Pressure on disc side causes the disc to move into the seat. The more the disc moves into the seat, the tighter the shut-off. Excessive movement of the seat is limited by the flexible lip, which contacts the bottom of the groove in the insert ring.

Typical Seat Recovery

Permanent Deflection for 2500 ft/lbs (3390 Nm) maximum load



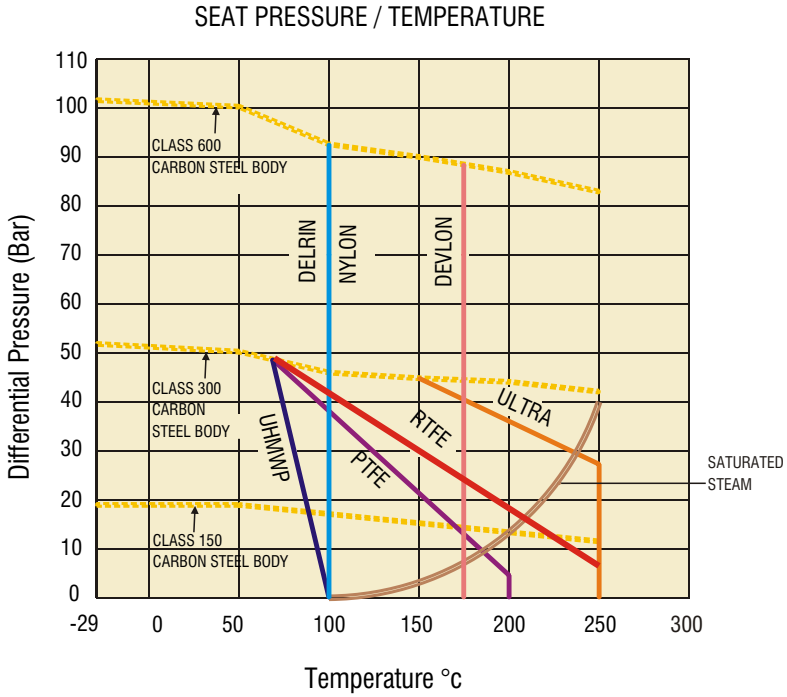
MP MAXIMUM RPTFE SEATING LIMITS

MP seating materials provide maximum temperature and pressure applicability

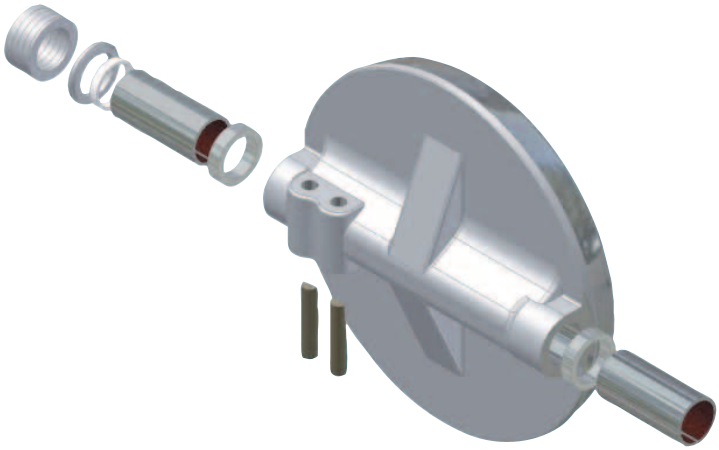
MP seats temperature ranges from -320 F to 500 F and pressures up to 1480 psi.

MP Seats resist permanent distortion.

This results in longer cycle life, better thermal cycle performance, and better pressure cycle capability.



MP HP Valves for All Applications



MP HIGH PERFORMANCE
butterfly valves accommodate a variety of pneumatic and electric actuators.

They include:
Pneumatic double-acting and spring-return actuators with positioners for control service with modified equal percentage.

Product Details

Applicable Standard:

Design: API 609, MSS SP-67, BS 5155, EN 593, DIN 3354
Face to Face: API 609, DIN 3202
Flanged Ends: ASME B16.5, ASME B16.47, DIN 2501, EN 1092
Testing: API 598, EN 12266
Size: 2”- 24” (Up to 60" Available) DN50-DN1500
Pressure Rating: Class150-Class600, PN6-PN40
Body Material: Cast Steel, Stainless Steel
Seat: PTFE, EPDM, NBR, Metal Seated
Connection: Wafer, Lug, Flanged
Temperature: -196℃ to 550℃

How to order intMPE Valves

Series Size ☐☐ ☐☐☐ ☐ ☐ ☐ ☐ ☐ ☐ **Trim / Other Variables / Special**

Valve Description	Valve Description	Body	Disc	Stem	Seat	Rating	Operator	Special
44 : Wafer class 150 45 : Lug class 150 47 : Wafer class 300 48 : Lug class 300	025 : 2.5" 140 : 14" 030 : 3" 160 : 16" 040 : 4" 180 : 18" 050 : 5" 200 : 20" 060 : 6" 240 : 24" 080 : 8" 100 : 10" 120 : 12"	3- WCB 4- CF8M(SS316) 8- CF8(SS304)	4-CF8M(SS316) 8- CF8(SS304)	4-SS316 6- 17-4-PH	T-PTFE U-ULTRA G-UHMWP R-RTFE M-METAL (SS) N-METAL (INCONEL) F-FIRE SAFE	5 - Class 150 6 - Class 300	B-BARE L - LEVER G - GEAR	0-NO SPECIAL REQUIREMENT S - SPECIAL REQUIREMENT AS SPECIFIED BY CUSTOMER

FOR Example :- To order 300/12" , wafer body valve, Body-CF8M, Disc- CF8M, Stem-SS316, Seat-RTFE, Rating-Class 150, Gear operated, with no special requirements.
Valve Description: 44, 120, BODY: 4, DISC: 4, STEM: 4, SEAT:R, RATING: R, OPERATOR: G, SPECIAL: 0

44	120	444	R	5	G	0

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