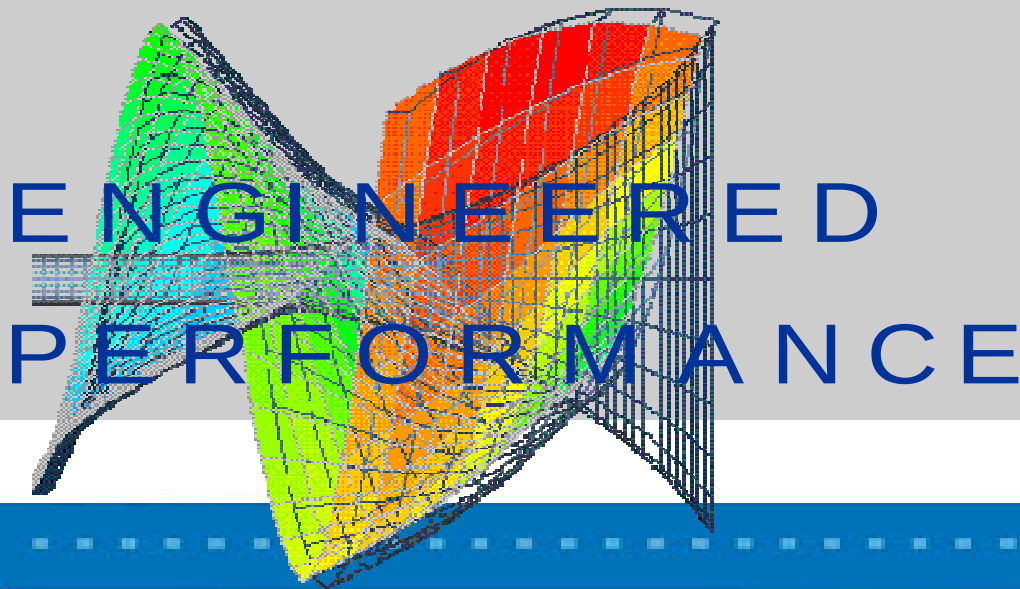


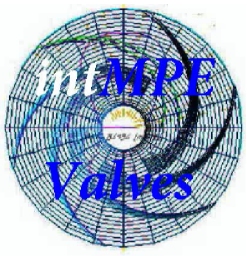
intMPE



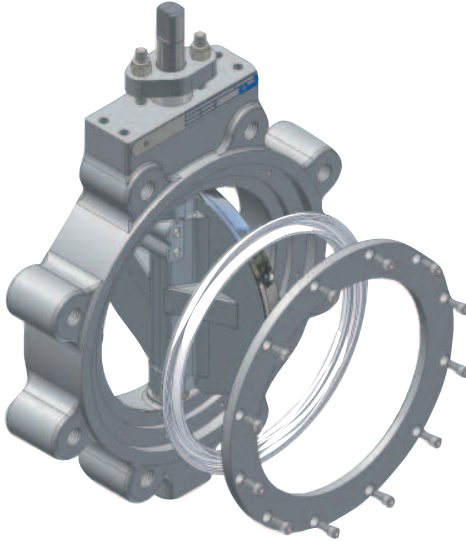
International Mineral Processing Equipment



Industrial Series API-610 & ANSI B73.1M



intMPE Mineral Processing Valves



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

intMPE HP Valves provide trouble-free shut off in many application types. Our MP HP will lower your overall cost of ownership for many years.

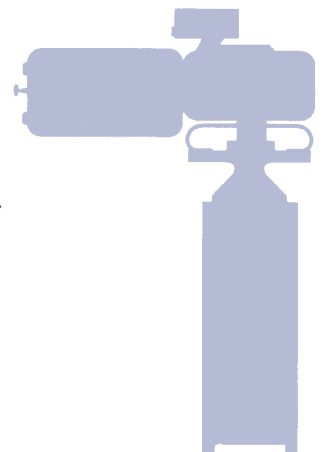
MP-HP VALVE BENEFITS

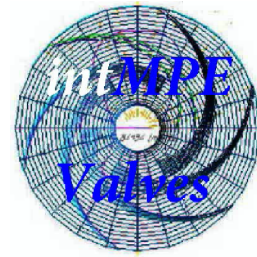
MP high-performance butter-fly valve combines a special off-center disc with sealing that provides you with the tightest-sealing, longest-lasting, lowest-cost alternative to other valve designs!

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/cornprocessing, chemicals, petrochemicals, power, refining, steel, air separation, HVAC and more.

- 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.





MP HIGH PERFORMANCE VALVES

Features at a Glance

High Pressure Ratings

INTMPE high-performance butterfly valves are rated at ANSI 150, 300 and 600 pressure classes.

Wide Temperature Rang

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.

Easy Maintenance

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

Reliability

INTMPE 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.

Low Torque Requirements

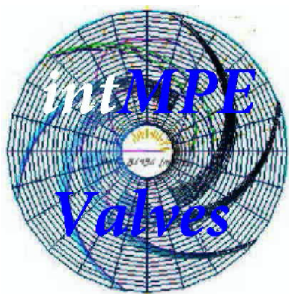
Low output torque requirements allow the use of less costly actuators.



Broad Range of Materials

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

*** chlorine * oxygen * cryogenics * vacuum ***



intMPE Mineral Processing Valves

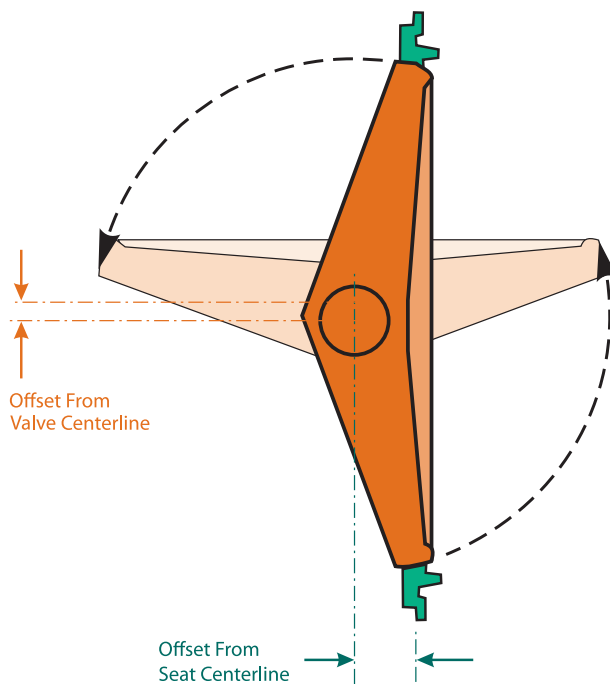


More reliable sealing

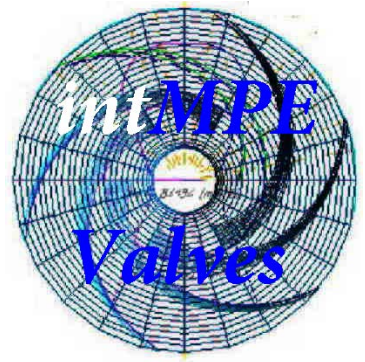
What turns an ordinary butterfly valve into a high-performance butterfly valve? It begins with an offset shaft and eccentric disc arrangement. This double offset design transmits a camming action to the disc and swings the disc completely away from the seat. Conventional butterfly valves do not have this feature. This design eliminates wear points around the disc at the top and bottom of the seat, as well as the resulting beading, scuffing, and ultimate tearing and leakage. When closed, the disc cams tightly into its seat to create a dependable tight seal.

Double Offset Design

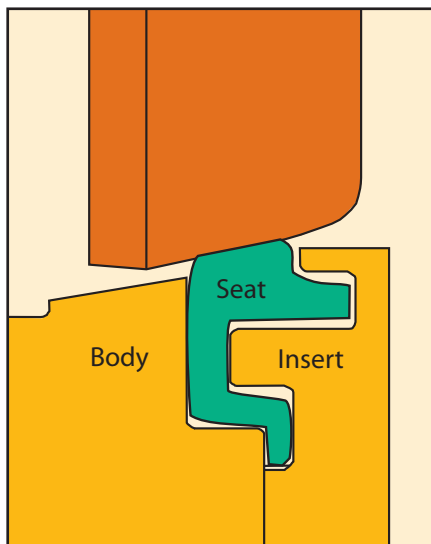
The unique sealing system also incorporates a double eccentric disc and shaft design to further extend the effectiveness of the seat. This unique offset design transmits a camming action to the disc and swings the disc completely away from the seat, no jamming or squeegeeing. This design eliminates wear points around the disc at the top and bottom of the seat. When closed, the disc cams tightly into its seat to create a double-tight seal. The combination of the double-offset disc and the flexible-lip seat are especially effective in a full range of applications from high vacuum (1×10^{-5} Torr) to 1480 psi (102.1 bar).



intMPE Mineral Processing Valves

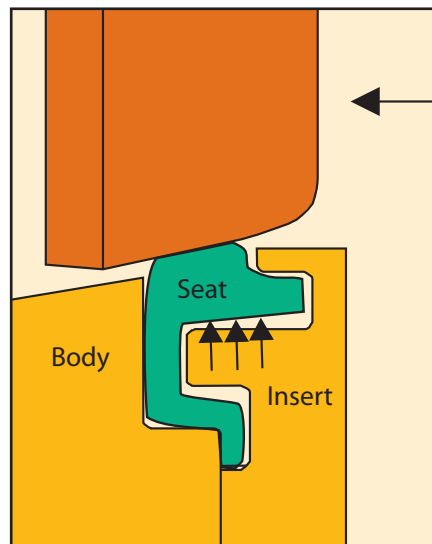


Polymeric Sealing Trouble-Free!



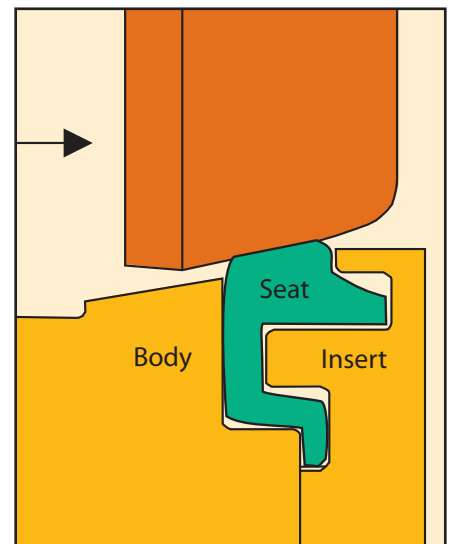
Energized Seat

When the valve is shut, the disc slightly deflects and the seat "energizes." While energized, the seat's sealing surface is constantly pushing against the edge of the disc.



Pressure on Insert Side

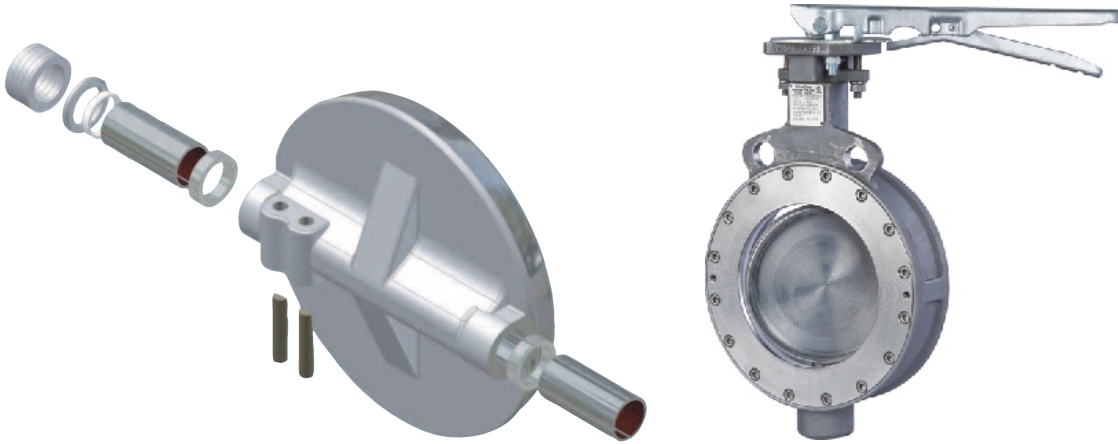
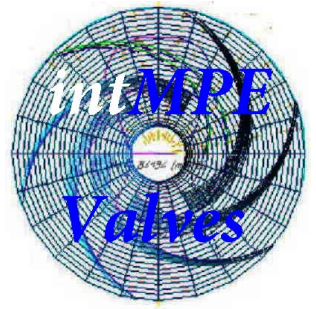
When pressure is on the insert side, pressure is applied under the seat lip, further amplifying the sealing force between the disc and the seat.



Pressure on Non-Insert Side

When pressure is on the non-insert side, the disc moves into the seat. Due to the spherical profile of the disc, 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 grooves in the insert ring.

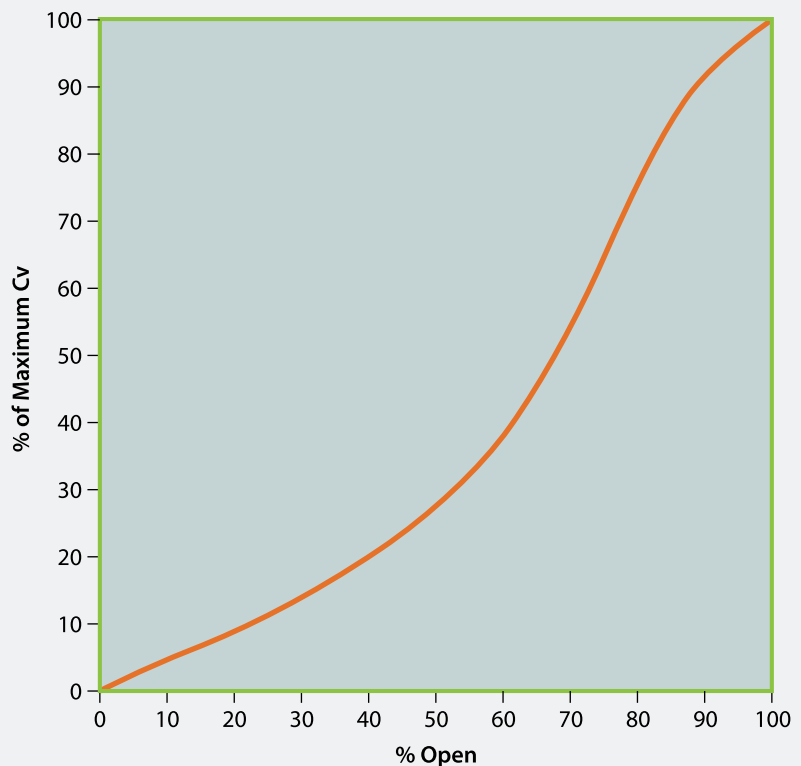
intMPE Mineral Processing Valves



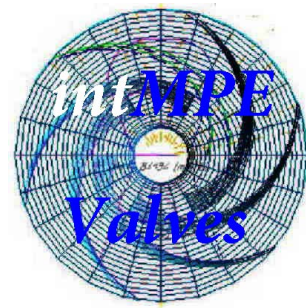
MP valves suitable for on-off and control applications!

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

They include;
Pneumatic double-acting
and spring-return actua-
tors with positioners for
control service with
modified equal percentage.



intMPE Mineral Processing Valves



MP MAXIMUM RPTFE SEATING LIMITS

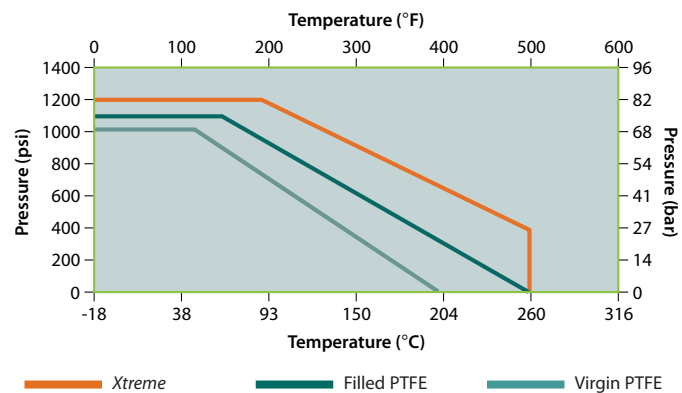
MP seating materials provide maximum temperature and pressure applicability.

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.

Typical Pressure-Temperature Ratings



Typical Seat Recovery

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

