HP Series:
Milwaukee Valve Company
High Performance Butterfly Valves

Features and Benefits

- Double offset geometry to provide superior sealing with minimal seat contact and wear.
- Machined, tapered seat provides multiple sealing edges.
- Single piece shaft and disc designed for maximum strength and Cv.
- Internally cast disc position stop to prevent disc over travel while maintaining optimum disc/seat contact.
- Stem is centered in the adjustable stem packing by oversized bearings eliminating stem leakage and fugitive emissions.
- Disc spacers to center disc in seat to eliminate seat distortion.
- Blow out proof stem prevents injury and product loss.
- Combination mechanical and pressure energized seat design for repeatable and reliable sealing performance and extended cycle life.
- Sealing retaining ring designed for double dead end service (lug style) and allows easy removal for seat replacement.
- Stem/disc connection ensures minimal lost motion and high strength.

Product Range
Size Class: 2-1/2”-24”, ASMG/ANSI Class 150 & 300
Body Configuration: Wafer and Lug

Operators Available
10 Position Lever Handle, Gear Operators, Pneumatic and Electric Actuators

Material of Standard Construction
Body Carbon Steel or CF8M 316 Stainless Steel
Disc CF8M 316 Stainless Steel
Stem 17-4 PH Stainless Steel
Bearing Stainless backed RTFE
Seat RTFE/Stainless Garter Spring

Specifications
Valve Sizes 2-1/2” through 24”
Flanged Ends Connections per ASMG/ANSI B16.5.
Valve face to face dimension per MSS-SP-68.
Valve bodies are cast high quality steel, with standard availability in ASTM-A216 WCB CS and ASTM A-351 CF8M SS. Body wall thickness meets ASME/ANSI B16/34 and complies with quality standard for steel castings MSS-SP-55.
High performance valve meets the requirements of MSS-SP-68 for double offset design.
Valve pressure tests meet MSS-SP-61.
Valve testing and inspection meet API 598.
Tagging meets the requirements of MSS-SP-25 and API 609B.

H.P. Lug Pattern

Pressure Ratings*
(Cold Working Pressure)

<table>
<thead>
<tr>
<th>Size</th>
<th>Max Pressure (psi)</th>
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<tbody>
<tr>
<td>2-1/2” through 24”</td>
<td>285 psi</td>
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<tr>
<td>2-1/2” through 16”</td>
<td>720 psi</td>
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*Valve is rated @150 PSI steam for on & off application and 50 PSI modulating service. (Limit Range 30º-70º - No Dwell In Near Closed Position.)
### Resilient Butterfly Valves Configurator

<table>
<thead>
<tr>
<th>VALVE SERIES</th>
<th>BODY STYLE</th>
<th>OPERATOR</th>
<th>BODY MATERIAL</th>
<th>DISC MATERIAL</th>
<th>LINER MATERIAL</th>
<th>SPECIAL OPTIONS</th>
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</thead>
<tbody>
<tr>
<td>C - C SERIES</td>
<td>1 - LUG BODY</td>
<td>1 - VALVE ONLY</td>
<td>2 - CAST IRON*</td>
<td>2 - NICKEL PLATED DUCTILE IRON</td>
<td>B - BUNA-N</td>
<td>S - 316 STEM W/AB OR NP DISC</td>
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<tr>
<td>H - H SERIES (250 psi)</td>
<td>2 - WAFER BODY</td>
<td>2 - LEVER HANDLE</td>
<td>3 - DUCTILE IRON</td>
<td>3 - ALUMINUM/BRONZE</td>
<td>E - EPDM</td>
<td>A - EPOXY COATED BODY</td>
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<tr>
<td>M - M SERIES</td>
<td>3 - GEAR OPERATOR</td>
<td>5 - GEAR W/MEMORY STOP</td>
<td>4 - CFBM(316) STAINLESS STEEL</td>
<td>7 - NYLON COATED DUCTILE IRON</td>
<td>H - HYPALON</td>
<td>AD - ASSEMBLE DRY</td>
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<tr>
<td>O - O SERIES</td>
<td>5 - GEAR WILOCKOUT</td>
<td>8 - EPOXY COATED DUCTILE IRON</td>
<td>7 - NYLON COATED DUCTILE IRON</td>
<td>8 - EPOXY COATED DUCTILE IRON</td>
<td>NB - FDA BLACK NEOPRENE</td>
<td>LF - LOW FRICTION (Consult Factory)</td>
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<tr>
<td>U - U SERIES (50 psi)</td>
<td>N - BURIED SERVICE GEAR OPERATION W/2” SQUARE NUT</td>
<td>9 - GEAR W/LOCKOUT</td>
<td>8 - EPOXY COATED DUCTILE IRON</td>
<td>9 - GEAR W/LOCKOUT</td>
<td>NW - FDA WHITE NEOPRENE</td>
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<td>10 - GEAR W/LOCKOUT</td>
<td>T - TEFLEX (BUNA SUBSTITUTE)</td>
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<td>(AVAILABLE W/SS DISC AND STEM ONLY)</td>
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<td>V - VITON</td>
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* MILWAUKEE VALVE RESERVES THE RIGHT TO UPGRADE TO DI BODY WITHOUT NOTICE FOR NO ADDITIONAL COST.

C-SERIES IS AVAILABLE ONLY IN CAST IRON WAFER OR LUG BODY WITH ALUBRZ DISC, EODM LINER, LEVER OR GEAR OPERATOR.