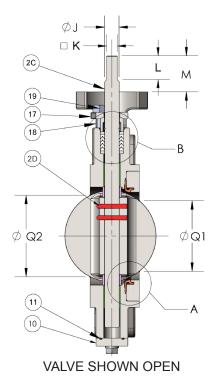
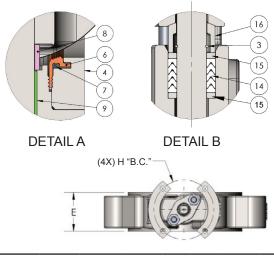
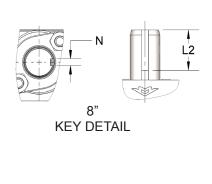
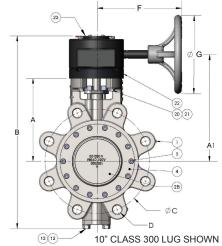
# HP Series Lug 2 1/2" - 10" (Class 150) with Gear HP Series Lug 2 1/2" - 8" (Class 300) with Gear



TEM NO.	PARTS NAME	MATERIAL	SPECIFICATION
1	BODY	A. CARBON STEEL	ASTM A216 GR. WCB
	BODY	B. STAINLESS STEEL	ASTM A351 GR. CF8M
	STEM & DISC ASSEMBLY		
2	2B. DISC	STAINLESS STEEL	ASTM A351 GR. CF8M
2	2C. STEM	STAINLESS STEEL	17-4PH H1150
	2D. TAPER PIN	18-8 STAINLESS STEEL	COMMERCIAL
3	STEM RETAINER	304 STAINLESS STEEL	COMMERCIAL
4	SEAT RETAINER RING	A. CARBON STEEL	ASTM A216 GR. WCB ASTM A351 GR. CF8M  ASTM A351 GR. CF8M 17-4PH H1150 COMMERCIAL COMMERCIAL ASTM A515 GR. 70 ASTM A240 TY.316 ASTM A193 GR. B8M COMMERCIAL ASTM A351 GR. CF8M COMMERCIAL COMMERCIAL ASTM A193 GR. B8M COMMERCIAL ASTM A351 GR. CF8M ASTM A351 GR. CF8M ASTM A351 GR. CF8M ASTM A193 GR. B8M ASTM 194 GR. 8M ASTM A193 GR. B8M COMMERCIAL
4	SEAT KETAINEK KING	B. STAINLESS STEEL	
5	SOCKET HEAD CAP SCREW	STAINLESS STEEL	ASTM A193 GR. B8M
		A. PTFE COMMERCIAL	COMMERCIAL
6	SEAT	B. 15% GLS. FLD. PTFE	COMMERCIAL
		C. UHMWPE	COMMERCIAL
7	SEAT SPRING	STAINLESS STEEL	COMMERCIAL
8	DISC SPACER	316 STAINLESS STEEL	COMMERCIAL
9	BEARING	STAINLESS STEEL - PTFE COATED	COMMERCIAL
10	BOTTOM CAP	STAINLESS STEEL	ASTM A351 GR. CF8M
11	BOTTOM SEAL	GRAPHITE	COMMERCIAL
12	HEX HEAD CAP SCREW	STAINLESS STEEL	ASTM A193 GR. B8M
13	SPLIT LOCKWASHER	STAINLESS STEEL	COMMERCIAL
14	PACKING V-RING SET	A. PTFE COMMERCIAL	ASTM A216 GR. WCB ASTM A351 GR. CF8M  ASTM A351 GR. CF8M 17-4PH H1150 COMMERCIAL COMMERCIAL ASTM A515 GR. 70 ASTM A240 TY.316 ASTM A193 GR. B8M COMMERCIAL ASTM A351 GR. CF8M COMMERCIAL COMMERCIAL ASTM A351 GR. CF8M COMMERCIAL ASTM A351 GR. CF8M ASTM A351 GR. CF8M ASTM A193 GR. B8M ASTM A193 GR. B8M ASTM A193 GR. B8M ASTM A193 GR. B8M
14	FACKING V-KING SET	B. GRAPHITE	COMMERCIAL
15	PACKING WASHER	304 STAINLESS STEEL	COMMERCIAL
16	GLAND FOLLOWER	STAINLESS STEEL	ASTM A351 GR. CF8M
17	GLAND RETAINER	STAINLESS STEEL	ASTM A351 GR. CF8M
18	STUD	STAINLESS STEEL	ASTM A193 GR. B8M
19	HEAVY HEX NUT	STAINLESS STEEL	ASTM 194 GR. 8M
20	SOCKET HEAD CAP SCREW	STAINLESS STEEL	ASTM A193 GR. B8M
21	SPLIT LOCKWASHER	STAINLESS STEEL	COMMERCIAL
22	MOUNTING PLATE	STAINLESS STEEL	COMMERCIAL
23	GEAR OPERATOR		







MILWAUKEE VALVE

2 1/2" - 8" 150/300 LB & 10" 150 LB LUG WITH GEAR																			
	VALVE DIMENSIONS							HANDWHEEL	TOP WORKS	STEM CONNECTION						CHORD DIMS		BOLTØ	
VALVE SIZE	"A" HEIGHT	"A1" HEIGHT	"B" HEIGHT	"C" B.C	"D" TAP	# OF HOLES	"E" FACE	"F"	"G" DIA	"H" B.C	"J" ØSTEM	"K" SQUARE	"L" LENGTH	"L2"	"M" LENGTH	"N" KEYWAY	ØQ1	ØQ2	
2.5" 150 LUG	5.59	7.40	12.72	5.50	5/8-11	4	1.88	6.37	6	3.25	0.62	0.46	1.02	N/A	1.64	N/A	1.72	1.97	0.27
2.5" 300 LUG	5.59	7.40	13.59	5.88	3/4-10	8	1.88	6.37	6	3.25	0.62	0.46	1.02	N/A	1.64	N/A	1.72	1.97	0.27
3" 150 LUG	5.59	7.40	12.72	6.00	5/8-11	4	1.88	6.37	6	3.25	0.62	0.46	1.02	N/A	1.72	N/A	2.28	2.47	0.27
3" 300 LUG	5.59	7.40	13.45	6.63	3/4-10	8	1.88	6.37	6	3.25	0.62	0.46	1.02	N/A	1.72	N/A	2.28	2.47	0.27
4" 150 LUG	6.25	8.06	14.25	7.50	5/8-11	8	2.13	6.37	6	3.25	0.62	0.46	1.02	N/A	1.56	N/A	3.06	3.53	0.27
4" 300 LUG	6.25	8.06	14.53	7.88	3/4-10	8	2.13	6.37	6	3.25	0.62	0.46	1.02	N/A	1.56	N/A	3.06	3.53	0.27
5" 150 LUG	7.69	10.30	18.70	8.50	3/4-10	8	2.13	6.02	9	4.25	0.87	0.64	1.04	N/A	1.69	N/A	4.35	4.46	0.44
5" 300 LUG	7.69	10.30	18.70	9.25	3/4-10	8	2.13	6.02	9	4.25	0.87	0.64	1.04	N/A	1.69	N/A	4.35	4.46	0.44
6" 150 LUG	7.69	10.30	18.70	9.50	3/4-10	8	2.25	6.02	9	4.25	0.87	0.64	1.04	N/A	1.69	N/A	5.33	5.43	0.44
6" 300 LUG	7.69	10.30	19.73	10.63	3/4-10	12	2.31	6.02	9	4.25	0.87	0.64	1.04	N/A	1.69	N/A	5.33	5.39	0.44
8" 150 LUG	9.51	12.01	21.67	11.75	3/4-10	8	2.63	7.93	12	4.75	1.12	N/A	N/A	1.50	1.86	0.25	7.10	7.37	0.56
8" 300 LUG	9.51	12.01	21.67	13.00	7/8-9	12	2.88	7.93	12	4.75	1.12	N/A	N/A	1.50	1.86	0.25	7.10	7.20	0.56
10" 150 LUG	10.54	13.04	23.15	14.25	7/8-9	12	2.81	7.93	12	4.75	1.12	N/A	N/A	1.50	1.81	0.25	9.30	9.38	0.56

The information presented on this sheet is correct at time of publication. Milwaukee Valve reserves the right to change design and/or materials without notice. For our Installation, Operation and Maintenance Manual and the most current product information go to www.milwaukeevalve.com.

⚠ State of California Prop 65 WARNING: Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

Rev. 7 **HP-9** 

### **HP Series:**

## Milwaukee Valve Company High Performance Butterfly Valves

#### **Features and Benefits**

- All valves offer bi-directional bubble-tight sealing at full rated pressure, with lug-bodied valves providing bi-directional dead-end service at full rated pressure.
- The double-offset design provides superior sealing with minimal seat contact and wear.
- The shaft and disc are manufactured as a single piece for maximum strength and Cv.
- The position stop on the disc is internally cast to prevent over-travel, while maintaining optimum disc/seat contact.
- The adjustable stem packing eliminates stem leakage and fugitive emissions.
- The blow-out-proof stem prevents injury and product loss.
- The seat is energized by a combination of pressure and a mechanized design for repeatable and reliable sealing and extended cycle life.
- The stem/disc connection uses a welded taper pin to ensure minimal lost motion and high strength.

#### **Product Range**

Sizes: 2-1/2"- 48" Class 150 Sizes: 2-1/2"- 24" Class 300 Body Configuration: Lug or Wafer

#### **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 ASME/ANSI B16.5 or B16.47 Series A (sizes 30" - 48").

Valve face to face dimension per MSS-SP-68.

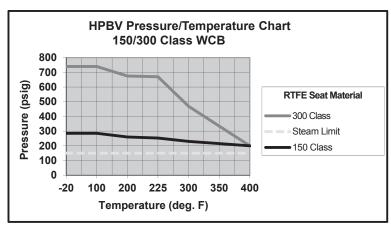
Valve bodies are cast high quality steel, with standard availability in ASTM-A216 WCB CS and ASTM A-351 CF8M SS. Body wall thickness meets ASME/ANSI B16.34 and complies with quality standard for steel castings MSS-SP-55.

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.





Pressure Ratings\*
(Cold Working Pressure)

2-1/2" through 48" 2-1/2" through 24"
Class 150 Class 300
Carbon Steel 285 psi 740 psi
Stainless Steel 275 psi 720 psi

\*Valve is rated @150 PSI steam for on & off application and 50 PSI modulating service. (Limit Range 30°-70° - No Dwell In Near Closed Position.)

HOW TO ORDER MILWAUKEE VALVES HP SERIES HIGH PERFORMANCE BUTTERFLY VALVE												
SERIES	ANSI CLASS	BODY STYLE	BODY MATERIAL	DISC MATERIAL	STEM MATERIAL	SEAT MATERIAL	STEM PACKING	OPERATOR	EXT. OPTIONS	SIZE		
XX	Х	X	Х	Х	X	Х	Х	X	XX	XXX		
HP	1-150 3-300		C-WCB S-CF8M		5-316 SS	1-PTFE 2-RPTFE 4-UHMWPE		1-BARE STEM 2-LEVER-LOCK 3-GEAR OP	S-Stainless Steel Seat Retainer U-Assembled in USA	025-240		

HP1LCS4111 040 = 4 INCH, HIGH PERFORMANCE, CLASS 150, LUG PATTERN, CARBON STEEL BODY, 17-4 STEM, PTFE SEAT, PTFE PACKING, BARE STEM WITH NO EXT OPTIONS

The information presented on this sheet is correct at time of publication. Milwaukee Valve reserves the right to change design and/or materials without notice. For our Installation, Operation and Maintenance Manual and the most current product information go to www.milwaukeevalve.com.  $\triangle$  State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

