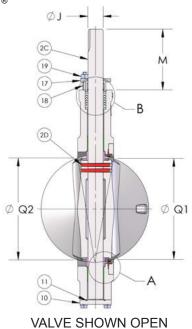
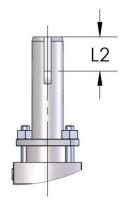
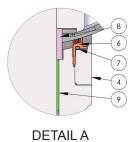
HP1LSS4213 Lug 12"- 24" with Gear Class 150

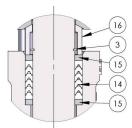


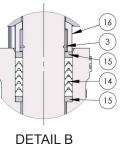


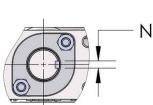
	1:	2" - 24" 150 LB LUG WITH GEAR				
ITEM NO.	PARTS NAME	MATERIAL	SPECIFICATION			
1	BODY	STAINLESS STEEL	ASTM A351 GR. CF8M			
	STEM & DISC ASSEMBLY					
2	2B. DISC	STAINLESS STEEL	ASTM A351 GR. CF8M			
 	2C. STEM	STAINLESS STEEL	17-4PH H1150			
	2D. TAPER PIN	18-8 STAINLESS STEEL	COMMERCIAL			
3	STEM RETAINER	304 STAINLESS STEEL	COMMERCIAL			
4	SEAT RETAINER RING	A. CARBON STEEL	ASTM A515 GR. 70			
	SEAT RETAINER RING	B. STAINLESS STEEL	ASTM A240 TY.316			
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	COMMERCIAL			
6 SEL 7 SE. 8 DIS 9 BE. 10 BO 11 BO 12 HE. 13 SPI 14 PAG 15 PAG 16 GL 17 GL 18 STI 19 HE. 20 MO	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			
	STUD	STAINLESS STEEL	ASTM A193 GR. B8M			
	HEAVY HEX NUT	STAINLESS STEEL	ASTM 194 GR. 8M			
20	MOUNTING PLATE	STAINLESS STEEL	COMMERCIAL			
21	HEX HEAD CAP SCREW	STAINLESS STEEL	ASTM A193 GR. B8M			
22	SPLIT LOCKWASHER	STAINLESS STEEL	COMMERCIAL			
23	HEX HEAD CAP SCREW	STAINLESS STEEL	ASTM A193 GR. B8M			
24	SPLIT LOCKWASHER	STAINLESS STEEL	COMMERCIAL			
25	GEAR OPERATOR					

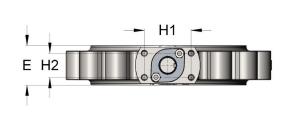


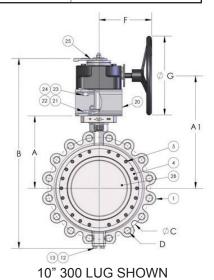












	12" - 24" 150 LB LUG WITH GEAR																	
	VALVE DIMENSIONS							HANDWHEEL	TOP W	ORKS	STEM CONNECTION				CHORD DIMS		BOLTØ	
VALVE SIZE	"A" HEIGHT	"A1" HEIGHT	"B" HEIGHT	"C" B.C	"D" TAP	# OF HOLES	"E" FACE	"F"	"G" DIA	"H1"	"H2"	"J" ØSTEM	"L2" LENGTH	"M" LENGTH	"N"	ØQ1	ØQ2	
12"	11.62	17.67	30.40	17.00.	7/8-9	12	3.19	7.85	12	3.88	2.00	1.37	1.50	5.51	0.31	10.36	10.48	1/2" - 13"
14"	12.00	18.36	31.74	18.75	1-8	12	3.63	8.36	12	4.50	2.00	1.50	1.50	5.50	0.38	11.69	11.76	1/2" - 13"
16"	14.00	20.11	35.96	21.25	1-8	16	4.00	10.96	20	5.75	2.50	2.00	2.38	6.02	0.50	13.65	13.72	1/2" - 13"
18"	15.00	21.09	38.12	22.75	1-1/8-8	16	4.47	11.95	20	5.75	2.50	2.25	2.38	6.02	0.50	15.65	15.72	1/2" - 13"
20"	17.00	24.19	40.03	25.00	1-1/8-8	20	5.00	16.54	16	5.75	2.50	2.50	2.38	6.48	0.63	17.57	17.64	1/2" - 13"
24"	19.50	25.69	49.30	29.50	1-1/4-8	20	6.06	16.54	16	6.00	4.00	3.00	2.50	6.52	0.75	20.38	20.46	3/4" - 10"

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.

HP-5 Rev. 3

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.

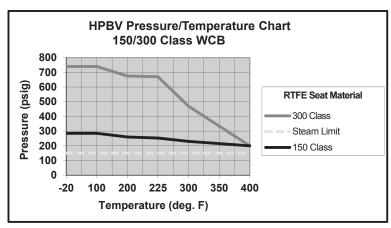
Valve bodies are cast high quality steel, with standard availability in ASTM-A216 WCB CS and ASTM A-351 CF8M SS. Body wall thickness meets ASME/ANSI B16.34 and complies with quality standard for steel castings MSS-SP-55.

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

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