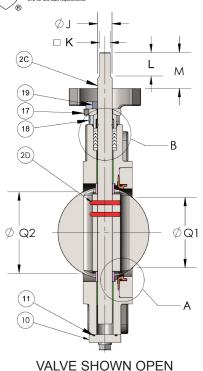
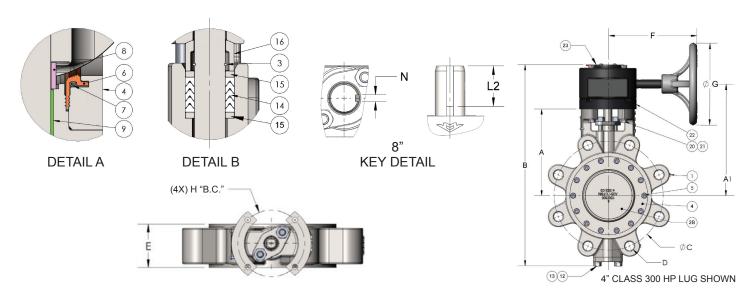
## HP1LSS4213 Lug 2 1/2" - 10" with Gear Class 150





2 1/2" - 10" 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	STAINLESS STEEL	ASTM A240 TY.316								
5	SOCKET HEAD CAP SCREW	STAINLESS STEEL	ASTM A193 GR. B8M								
6	SEAT	15% GLS. FLD PTFE	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	PTFE COMMERCIAL	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										



2 1/2" - 10" 150 LB LUG WITH GEAR																			
	VALVE DIMENSIONS								HANDWHEEL	TOP WORKS	STEM CONNECTION						CHORD DIMS BOLT		BOLT Ø
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	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
3" 150	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
4" 150	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
5" 150	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
6" 150	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	5.13	5.43	0.44
8" 150	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
10" 150	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. 2 **HP-4** 

### **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.

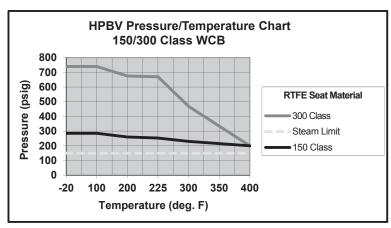
Valve bodies are cast high quality steel, with standard availability in ASTM-A216 WCB CS and ASTM A-351 CF8M SS. Body wall thickness meets ASME/ANSI B16.34 and complies with quality standard for steel castings MSS-SP-55.

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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