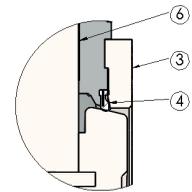
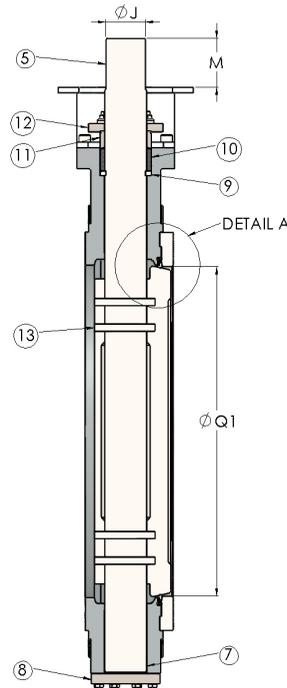
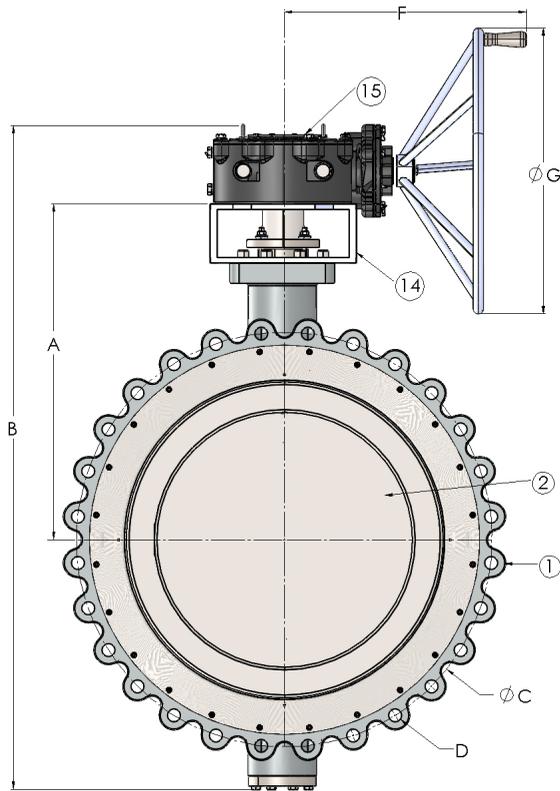
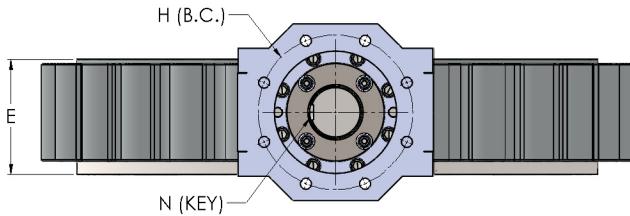


HP Series Lug 30"- 48" (Class 150) with Gear

HP Series Lug 18"- 24" (Class 300) with Gear

ITEM NO.	PARTS NAME	MATERIAL	SPECIFICATION
1	BODY	CARBON STEEL	ASTM A216 WCB
		STAINLESS STEEL	ASTM A351 CF8M
2	DISC	STAINLESS STEEL	ASTM A351 CF8M
3	SEAT RETAINER RING	CARBON STEEL	ASTM A36
		STAINLESS STEEL	ASTM A240 316
4	SEAT	RTFE	COMMERCIAL
5	STEM	STAINLESS STEEL	17-4 PH
6	UPPER BEARING	METALPLAST	COMMERCIAL
7	LOWER BEARING	METALPLAST	COMMERCIAL
8	BOTTOM COVER	CARBON STEEL	ASTM A36
9	THRUST BEARING	BRASS	COMMERCIAL
10	PACKING	PTFE	COMMERCIAL
		GRAPHITE	COMMERCIAL
	GLAND	BRASS	COMMERCIAL
12	GLAND FLANGE	CARBON STEEL	ASTM A36
13	TAPER PIN	STAINLESS STEEL	17-4 PH
14	BRACKET	CARBON STEEL	ASTM A36
15	GEAR OPERATOR		



DETAIL A

Notes:

1. Seat Retainer side should always be installed facing upstream pressure. See flow arrow located on mounting bracket.
2. Can be used in uni-directional dead-end service.

30"-48" CLASS 150 LUG WITH GEAR														
VALVE SIZE	VALVE DIMENSIONS					HANDWHEEL			TOP WORKS			STEM CONNECTION		CHORD
	"A" HEIGHT	"B" HEIGHT	"C" B.C.	"D" TAP	# HOLES	"E" FACE	"F"	"G" Ø	"H" B.C.	BOLT Ø	"J" STEM Ø	"M" LENGTH	"N" KEY	ØQ1
30" -CL 150	29.13	57.72	36.00	1-1/4"-8UN	28	7.48	20.67	24.8	10.0	0.709	2.56	4.13	0.71 x 0.43	27.17
36" -CL 150	33.66	67.60	42.75	1-1/2"-8UN	32	7.99	21.85	28.0	11.73	0.905	3.54	5.12	0.87 x 0.55	33.20
42" -CL 150	38.20	75.77	49.50	1-1/2"-8UN	36	9.88	22.64	28.0	11.73	0.905	4.33	5.12	1.10 x 0.63	39.14
48" -CL 150	40.94	84.96	56.00	1-1/2"-8UN	44	10.87	26.62	31.5	14.01	1.299	4.72	5.71	1.26 x 0.71	45.22

18"-24" CLASS 300 LUG WITH GEAR														
VALVE SIZE	VALVE DIMENSIONS					HANDWHEEL			TOP WORKS			STEM CONNECTION		CHORD
	"A" HEIGHT	"B" HEIGHT	"C" B.C.	"D" TAP	# HOLES	"E" FACE	"F"	"G" Ø	"H" B.C.	BOLT Ø	"J" STEM Ø	"M" LENGTH	"N" KEY	ØQ1
18" -CL 300	19.88	40.51	24.75	1-1/4"-8UN	24	5.87	16.77	19.68	6.50	0.906	2.36	2.95	0.71 x 0.43	15.75
20" -CL 300	21.46	42.64	27.00	1-1/4"-8UN	24	6.26	15.83	15.75	6.50	0.906	2.56	3.74	0.71 x 0.43	17.62
24" -CL 300	24.76	50.00	32.00	1-1/2"-8UN	24	7.13	17.91	22.05	8.07	0.709	2.95	4.13	0.79 x 0.47	21.63

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.

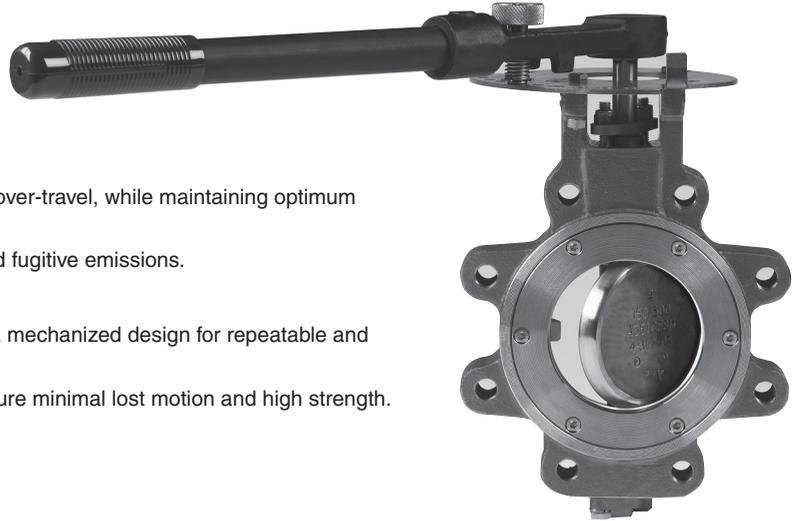
⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.



HP 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.



H.P. Lug Pattern

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").

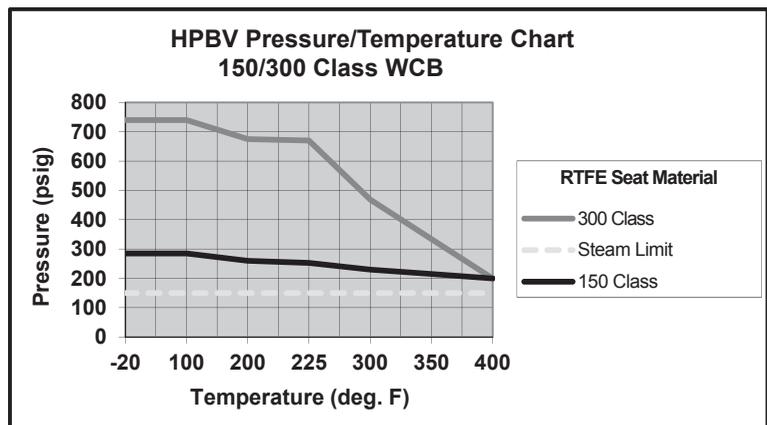
Valve face to face dimension per MSS-SP-68.

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" Class 150	2-1/2" through 24" 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	X	X	X	X	X	X	X	X	XX	XXX
HP	1-150 3-300	L-LUG W-WAFER	C-WCB S-CF8M	S-CF8M	4-17-4 SS 5-316 SS	1-PTFE 2-RPTFE 4-UHMWPE	1-PTFE G-GRAPHITE	1-BARE STEM 2-LEVER-LOCK 3-GEAR OP	S-Stainless Steel Seat Retainer U-Assembled in USA	025-240

PART NUMBER EXAMPLE
 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.

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

