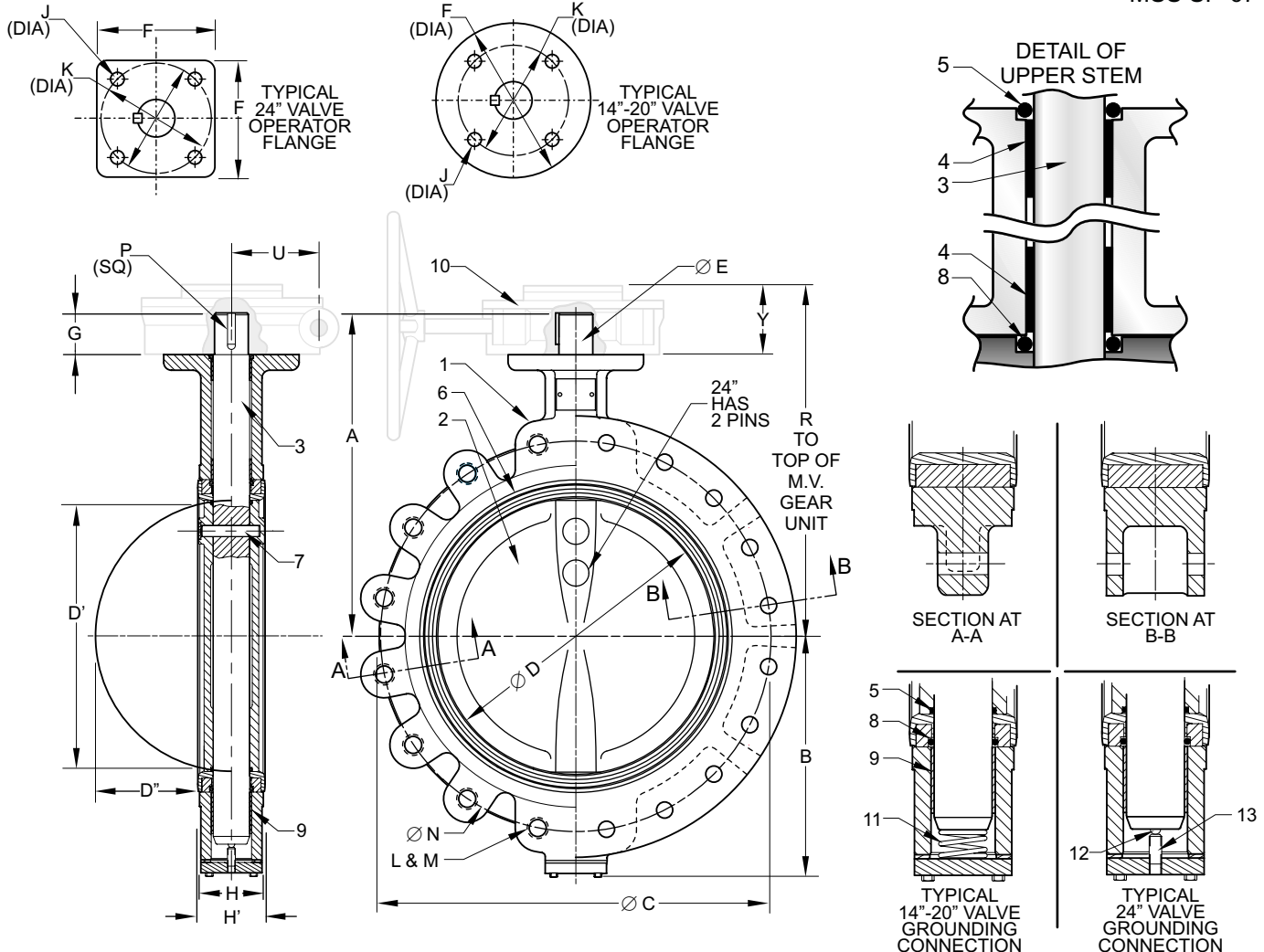


BUTTERFLY VALVE

HL SERIES

14" - 24" 200 PSI (1380 kPa)

Specifications: API-609
MSS SP-67



RATINGS

200 PSI Butterfly Valve
Non Shock Water, Oil,
Gas

FEATURES

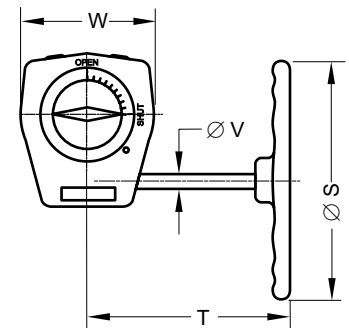
Heavy Duty Design
Extended Neck Body
Phenolic Cartridge Design
Low Profile Disc
Low Torque Liner
Blowout Proof Stem
Bubble Tight Seal
Stainless Steel Stem-416 or 316
Low Torque Polymer Bearing-Std.
Bi-directional Shut off
Vacuum Ratings to 29"Hg
Field Repairable

ACTUATORS

Air / Air
Air / Spring
Electric

STANDARD OPERATORS

Weather Proof Gear
Operator - Std.
14"-16" Aluminum Housing
18"-24" Cast Iron Housing
Memory Stop - Optional
Locking Device - Optional



VALVE SIZE	GEAR OPERATOR P / N	GEAR RATIO	Ø S	Ø V	W	Y (Hgt)	T
14-16	8115-48-16	40:1	12	0.750	6.88	2.73	9.56
18-20	8115-65-20	31:1	18	0.873	7.00	3.42	11.4
24	8115-78-24	64:1	18	0.873	9.00	3.55	15.7

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MILWAUKEE VALVE



BUTTERFLY VALVE

HL SERIES

14" - 24" 200 PSI (1380 kPa)

Specifications: API-609
MSS SP-67

MAJOR COMPONENTS LIST

ITEM	PARTS NAME	MATERIAL
1	BODY	CAST IRON ASTM A126 CL.B
		CAST IRON EPOXY COATED
		DUCTILE IRON ASTM A536
		DUCTILE IRON EPOXY COATED
2	DISC	NP DUCTILE IRON-ASTM A536
		ALUMINUM BRONZE-ASTM B148
3	STEM	STAINLESS STEEL TYPE 316
		STAINLESS STEEL TYPE 416
4	TOP BEARING	THERMOPLASTIC POLYMER
5	STEM O-RING	EPDM, BUNA, VITON (1)
6	LINER	BUNA
		EPDM
		VITON
		VITON GFLT
		HYALON
7	STEM PIN	STAINLESS STEEL TYPE 302
8	LINER O-RING	EPDM, BUNA, VITON (1)
9	LOWER BEARING	THERMOPLASTIC POLYMER
10	OPERATOR	GEAR OPERATOR
		GEAR OP W/ MEMORY STOP
		GEAR OP W/ LOCK
		ACTUATOR AIR/AIR (2)
		ACTUATOR AIR/SPRING (2)
11 14" - 20"	GROUNDING SPRING	STAINLESS STEEL TYPE 302
12 24" ONLY	GROUNDING BALL	AISI - 1022
13 24" ONLY	TENSION SCREW	AISI - 1020

MW_lrg_mat.XLS

(1)- O-Ring Matches Liner; Viton Default if no Direct Match.
(2)- Consult Automation Department.

DIMENSIONS

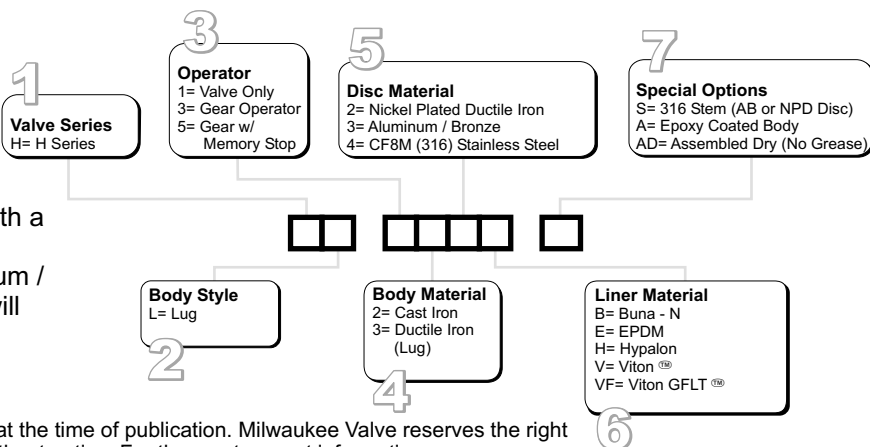
DIMENSION	VALVE SIZE					
	INCHES mm	14 356	16 406	18 457	20 508	24 610
A	INCHES mm	15.50 393.7	16.75 425.5	18.50 469.9	19.75 501.7	22.43 569.7
B	INCHES mm	11.56 293.6	12.69 322.3	13.63 346.2	15.13 384.3	18.06 458.7
C	INCHES mm	21.00 533.4	23.50 596.9	25.00 635.0	27.50 698.5	28.25 717.6
D	INCHES mm	13.25 336.6	15.50 393.7	17.25 438.2	19.25 489.0	23.38 593.9
D'	INCHES	13.53	14.97	16.91	18.84	22.76
Chord Dia.	mm	343.7	380.2	429.5	478.5	578.1
D"	INCHES	5.0	5.8	6.4	7.1	8.7
Intrusion	mm	127.3	146.1	162.1	181.1	220.0
E	INCHES mm	1.625 41.3	1.625 41.3	2.125 54.0	2.125 54.0	2.125 54.0
F	INCHES mm	6.50 165.1	6.50 165.1	9.50 241.3	9.50 241.3	7.50 190.5
G	INCHES mm	2.00 50.8	2.00 50.8	3.00 76.2	3.00 76.2	3.06 77.7
H	INCHES mm	3.06 77.7	4.00 101.6	4.50 114.3	5.00 127.0	6.06 153.9
Body	mm					
H'	INCHES mm	3.19 81.0	4.13 104.9	4.63 117.6	5.13 130.3	6.19 157.2
Liner	mm					
J	INCHES mm	0.688 17.5	0.688 17.5	0.813 20.6	0.813 20.6	0.813 20.6
K	INCHES mm	5.250 133.4	5.250 133.4	7.500 190.5	7.500 190.5	7.500 190.5
L	No. of Holes	12	16	16	20	20
M	Thread Size	1-8	1-8	1 1/8-7	1 1/8-7	1 1/4-7
N	INCHES mm	18.75 476.3	21.25 539.8	22.75 577.9	25.00 635.0	29.50 749.3
P	INCHES mm	0.375 9.5	0.375 9.5	0.500 12.7	0.500 12.7	0.500 12.7
Key Size	mm					
R	INCHES mm	17.25 438.2	18.75 476.3	19.63 498.5	20.88 530.4	25.00 635.0
U	INCHES mm	3.13 79.4	3.13 79.4	4.50 114.3	4.50 114.3	4.63 117.5

Ordering is as
easy as 1-2-3...

For example,

HL 333B S

will order an M series, lug style valve with a gear operator and a ductile iron body. The disc in this example will be aluminium / bronze with a Buna-N liner. The valve will utilize a stainless steel (316) stem as specified by S.



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