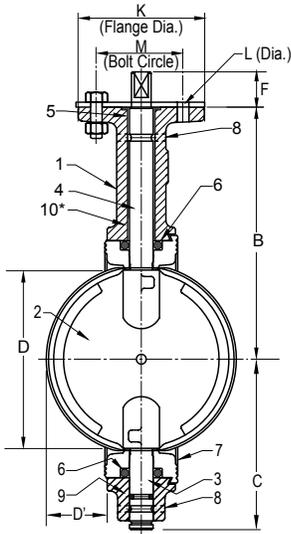


BUTTERFLY VALVE

ML SERIES-REV. D*

2"-12" - 200 PSI (1380 kPa)

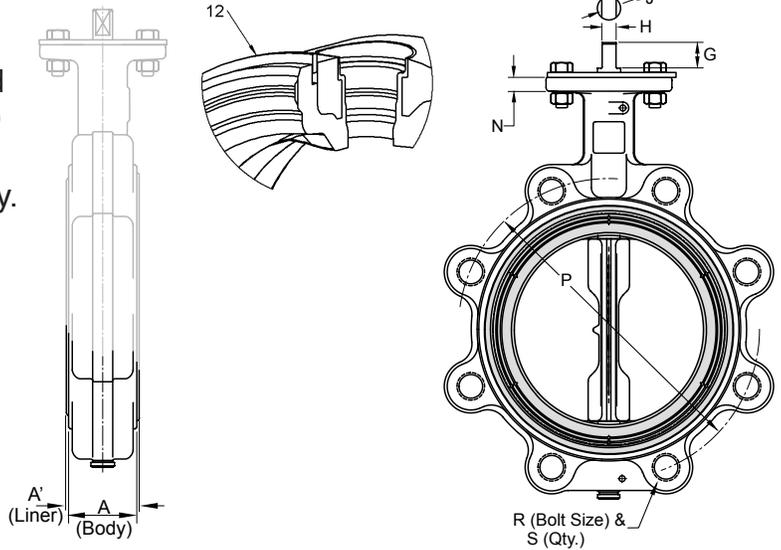
Specifications: API-609
MSS SP-67



Approved by U.S. Coast Guard for use in Category A service as described in Title 46 Code of Federal Regulations 56.20-15.

U Series with undercut disc available @ 50 psi, please consult factory.

Bi-Directional Dead End Service to 200 PSI Max.
Buna & EPDM Only.
All Others 150 PSI Uni-Directional.
Field Repairable.



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	DUCTILE IRON-NYLON COATED
		NP DUCTILE IRON-ASTM ASTM A536
		ALUMINUM BRONZE- ASTM A351 B 148 ***
		STAINLESS STEEL ASTM A351 CF8M
3	BOTTOM STEM	NYLON COATED DUCTILE IRON
		EPOXY COATED DUCTILE IRON
4	TOP STEM	STAINLESS STEEL TYPE 416
5	TOP BEARING	STAINLESS STEEL 316 (2)
6	SEAL	REINFORCED NYLON
7	LINER	EPDM,BUNA,VITON (1)
		BUNA
		EPDM
		VITON
		HYPALON
		NEOPRENE BLACK-FDA
8	ROLL PIN	NEOPRENE WHITE-FDA
		TEFLON OVER BUNA (150# WOG)
9	STEM SEAL	STAINLESS STEEL
10 *	LOWER BEARING	EPDM,BUNA,VITON (1)
11	OPERATOR	REINFORCED NYLON
		LEVER HANDLE (EPOXY COATED LEVER)
		GEAR OPERATOR
		GEAR OPERATOR WITH MEMORY STOP
		GEAR OPERATOR WITH LOCK
12 **	RETAINING RING	ACTUATOR-AIR/AIR
		ACTUATOR-AIR/SPRING
		ACTUATOR-ELECTRIC
1066 SPRING STEEL (65Mn)		

DIMENSIONS

	INCHES	2	2-1/2	3	4	5	6	8	10	12
	mm	50	65	80	100	125	150	200	250	300
A (Body)	INCHES	1.69	1.81	1.81	2.07	2.19	2.19	2.38	2.69	3.06
	mm	42.9	46.1	46.0	52.5	55.6	55.6	60.3	68.3	78.0
A' (Liner)	INCHES	1.82	1.94	1.94	2.20	2.32	2.31	2.51	2.82	3.21
	mm	46.1	49.1	49.1	55.8	58.8	58.7	63.6	71.5	82.0
B	INCHES	5.50	6.00	6.25	7.00	7.53	8.00	9.38	10.56	12.06
	mm	139.7	152.4	158.8	177.8	191.3	203.2	238.1	268.3	306.4
C	INCHES	3.06	3.31	3.75	4.25	4.94	5.56	6.56	7.88	9.25
	mm	77.8	84.1	95.3	108.0	125.4	141.3	166.7	200.0	235.0
D (Chord Dia)	INCHES	1.49	2.01	2.64	3.67	4.71	5.66	7.72	9.70	11.68
	mm	37.8	51.1	67.1	93.2	119.6	143.8	196.1	246.4	296.7
D' (Intrusion)	INCHES	0.28	0.44	0.69	1.06	1.50	1.94	2.84	3.69	4.50
	mm	7.1	11.1	17.5	27.0	38.1	49.2	72.2	93.7	114.3
F	INCHES	1.13	1.13	1.13	1.13	1.13	1.13	1.50	1.50	1.50
	mm	28.6	28.6	28.6	28.6	28.6	28.6	38.1	38.1	38.1
G	INCHES	0.81	0.81	0.81	0.81	0.81	0.81	1.06	1.06	1.06
	mm	20.6	20.6	20.6	20.6	20.6	20.6	27.0	27.0	27.0
H	INCHES	0.35	0.35	0.35	0.40	0.40	0.44	0.53	0.71	0.71
	mm	8.9	8.9	8.9	10.2	10.2	11.2	13.5	18.0	18.0
J	INCHES	0.50	0.50	0.50	0.56	0.56	0.62	0.75	1.00	1.00
	mm	12.6	12.6	12.6	14.2	14.2	15.8	19.0	25.4	25.4
K		4	4	4	4	4	4	6	6	6
L (Dia)	INCHES	0.44	0.44	0.44	0.44	0.44	0.44	0.56	0.56	0.56
	mm	11.1	11.1	11.1	11.1	11.1	11.1	14.3	14.3	14.3
M	INCHES	3.25	3.25	3.25	3.25	3.25	3.25	5.00	5.00	5.00
	mm	82.6	82.6	82.6	82.6	82.6	82.6	127.0	127.0	127.0
N	INCHES	0.44	0.44	0.44	0.44	0.44	0.44	0.50	0.50	0.50
	mm	11.1	11.1	11.1	11.1	11.1	11.1	12.7	12.7	12.7
P	INCHES	4.75	5.50	6.00	7.50	8.50	9.50	11.75	14.25	17.00
	mm	120.7	139.7	152.4	190.5	215.9	241.3	298.5	362.0	431.8
R		5/8-11	5/8-11	5/8-11	5/8-11	3/4-10	3/4-10	3/4-10	7/8-9	7/8-9
S		4	4	4	8	8	8	8	12	12

(1) VITON O-RINGS ARE USED WITH HYPALON,NEOPRENE,AND TEFLON LINERS. * PROVIDED ON 8",10" AND 12".

(2) 316 STEM USED WITH CF8M DISC

** EPDM AND BUNA LINER ONLY

***Note:** The wetted surface of this product (In any material combination.) contacted by consumable water contains less than one quarter of one percent (.25%) of lead by weight.

***Recommend Aluminum Bronze Disc in Water Service.

The information presented on this sheet is correct at the time of publication. Milwaukee Valve reserves the right to change design, and/or material specifications without notice. For the Installation, Operation and Maintenance Manual (IOM) see the engineering section on our website. For the most current information access www.milwaukeevalve.com



M**L****2****3****4****V****A**

VALVE SERIES	BODY STYLE	OPERATOR	BODY MATERIAL	DISC MATERIAL	LINER MATERIAL	SPECIAL OPTIONS
C - C SERIES	1 - LUG BODY	1 - VALVE ONLY	2 - CAST IRON*	2 - NICKEL PLATED DUCTILE IRON	B - BUNA-N	S - 316 STEM W/AB OR NP DISC
H - H SERIES (250 psi)	2 - WAFER BODY	2 - LEVER HANDLE	3 - DUCTILE IRON	3 - ALUMINUM/BRONZE	E - EPDM	A - EPOXY COATED BODY
M - M SERIES		3 - GEAR OPERATOR		4 - CF8M(316) STAINLESS STEEL	H - HYPALON	AD - ASSEMBLE DRY
O - O SERIES		5 - GEAR W/MEMORY STOP	* MILWAUKEE VALVE RESERVES THE	7 - NYLON COATED DUCTILE IRON	NB - FDA BLACK NEOPRENE	LF - LOW FRICTION (Consult Factory)
U - U SERIES (50 psi)		9 - GEAR W/LOCKOUT	RIGHT TO UPGRADE TO DI BODY	8 - EPOXY COATED DUCTILE IRON	NW - FDA WHITE NEOPRENE	
		N - BURIED SERVICE GEAR OPERATION W/2" SQUARE NUT	WITHOUT NOTICE FOR NO ADDITIONAL COST.		T - TEFLON (BUNA SUBSTITUTE) (AVAILABLE W/SS DISC AND STEM ONLY)	
					V - VITON	

C-SERIES IS AVAILABLE ONLY IN CAST IRON WAFER OR LUG BODY
WITH AL/BRZ DISC, EODM LINER, LEVER OR GEAR OPERATOR.