

# MSS SP-67 Resilient Centerline Butterfly Valve

**Statement:**

Resilient centerline butterfly valves usually serve to cut off medium flow in the piping system, widely applied in the field of potable water, water supply and drainage, sewage disposal, irrigation, air conditioning, fire protection as well as chemical and energy industry. The design of the butterfly valves, however, makes it also suitable to serve as adjusting valve.

**Features:**

- Material:**  
Body and lever are all produced in ductile iron material (ASTM A536, 65-45-12) which provides guarantee for high strength and good corrosion resistance.  
Different options of the disc and seat, e.g. disc of DI nickel or nylon 11 coated, different series of stainless steel, Al-bronze, seat in EPDM, NBR or Fluororubber, makes it suitable to be applied under different working conditions.
- Design:**  
Universal flange connection to EN 1092 PN6/10/16, ANSI B16.1 CLASS 125/150, GB9113, JIS B2112 10K, AS 2129 Table E, BS 10 Table D/E.  
Different options of operation including lever handle, gear box, gear box with tamper switch, electric drive, and pneumatic drive, etc.  
Different options of rubber seat including insert rubber seat, rubber vulcanized on valve body and boot rubber seat.
- Coating**  
Fusion bonded epoxy coating of valve body and lever provides reliable corrosion resistance. To achieve higher corrosion resistance, factory is also able to supply Nylon 11 coated disc. Nylon 11 coating is thermoplastic plant coating approved by USDA with high corrosion resistance and antiseptic which can be applied where there is strict requirement for anti-corrosion.



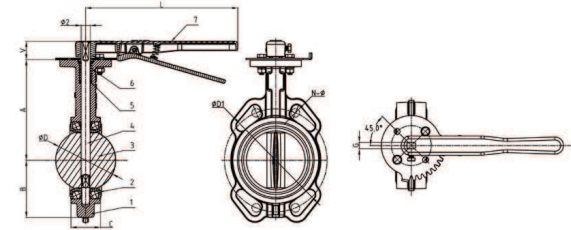
- Ductile Iron Lever and Body
- Stainless Steel Stem
- Fusion Bonded Epoxy Coating
- Disc: DI, Stainless Steel or Al-bronze
- Seat: EPDM/NBR/Fluororubber with backing

# MSS SP-67 Wafer Butterfly Valve (D71X4, D371X4, XD371X4), 250PSI



D71X4

- Design Standard: MSS SP-67
- Connection Ends: ASME B16.1
- Top Flange Standard: ISO 5211  
Stem drive by keys, parallel or diagonal square or flat head
- Working Pressure: 250PSI  
175PSI, 200PSI and 300PSI available upon request
- Temperature Range: 0°C - 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



**MATERIAL SPECIFICATION**

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536.65-45-12	
2	Seat	EPDM & Backing	NBR/Fluororubber & Backing; EPDM/NBR Vulcanized on Valve Body; Soft Seat in EPDM/NBR;
3	Disc	ASTM A536.65-45-12	AISI 304, AISI 316, AL-Bronze UNC 95400
4	Stem	AISI 420	AISI 304, AISI 316, AISI 416, AISI 431
5	O-Ring	NBR	EPDM
6	Bushing	Nylon 1010	PTFE
7	Lever	ASTM A536.65-45-12	Aluminum

Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.



D371X4

XD371X4



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D81X4  
Grooved Butterfly Valve  
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Details for electric drive available upon request.

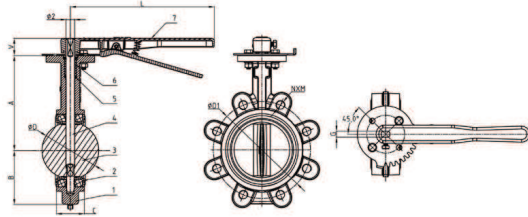
DN		Dimensions(mm)										
Inch	mm	A	B	C	D	D1	V	Φ2	N-Φ	G	L	ISO 5211
1.5"	40	138	64.5	33	43.9	98.6	32	12.6	4-Φ15.9	9.45	267	F07
2"	50	140.5	64.5	43	53.9	120.7	32	14	4-Φ19	9.53	267	F07
2.5"	65	153	72	46	65.2	139.7	32	14	4-Φ19	9.53	267	F07
3"	80	157.5	86	46	79.7	152.4	32	14	4-Φ19	9.53	267	F07
4"	100	176	100	52	105	190.5	32	16	8-Φ19	11.14	267	F07
5"	125	191	112	56	130	215.9	32	16	8-Φ22	11.14	267	F07
6"	150	202.5	128	56	156	241.3	32	20	8-Φ22	12.7	267	F07
8"	200	243.5	162	60	206.7	298.5	45	26	8-Φ22	20.6	356	F10
10"	250	273	194	68	253.3	362	45	26	12-Φ25	20.6	356	F10
12"	300	311	223	78	301.9	431.8	45	28	12-Φ25	22.1	490	F10
14"	350	340	267	78	333.9	476.3	45	31.6	12-Φ28.5	22.1	-	F12
16"	400	400	300	102	389.6	539.8	48	33.2	16-Φ28.5	27	-	F14

MSS SP-67 Lugged Wafer Butterfly Valve (D71XL4, D371XL4), 250PSI



D71XL4

- Design Standard: MSS SP-67
- Connection Ends: ASME B16.1
- Top Flange Standard: ISO 5211  
Stem drive by keys, parallel or diagonal square or flat head
- Working Pressure: 250PSI  
175PSI, 200PSI and 300PSI available upon request
- Temperature Range: 0°C - 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536,65-45-12	
2	Seat	EPDM & Backing	NBR/Fluororubber & Backing; EPDM/NBR Vulcanized on Valve Body; Soft Seat in EPDM/NBR;
3	Disc	ASTM A536,65-45-12	AISI 304, AISI 316, AL-Bronze UNC 95400
4	Stem	AISI 420	AISI 304, AISI 316, AISI 416, AISI 431
5	O-Ring	NBR	EPDM
6	Bushing	Nylon 1010	PTFE
7	Lever	ASTM A536,65-45-12	Aluminum

Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.

DN		Dimensions(mm)													
Inch	mm	A	B	C	D	D1	V	Φ2	NXM	G	L	ISO 5211			
2"	50	140.5	64.5	43	53.9	120.7	32	14	4X5/8"	9.53	267	F07			
2.5"	65	153	72	46	65.2	139.7	32	14	4X5/8"	9.53	267	F07			
3"	80	157.5	86	46	79.7	152.4	32	14	4X5/8"	9.53	267	F07			
4"	100	176	100	52	105	190.5	32	16	8X5/8"	11.14	267	F07			
5"	125	191	112	56	130	215.9	32	16	8X3/4"	11.14	267	F07			
6"	150	202.5	128	56	156	241.3	32	20	8X3/4"	12.7	267	F07			
8"	200	243.5	162	60	206.7	298.5	45	26	8X3/4"	20.6	356	F10			
10"	250	273	194	68	253.3	362	45	26	12X7/8"	20.6	356	F10			
12"	300	311	223	78	301.9	431.8	45	28	12X7/8"	22.1	490	F10			
14"	350	340	267	78	333.9	476.3	45	31.6	12X1"	22.1	-	F12			



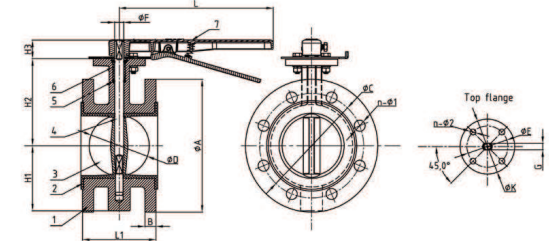
D371XL4

API 609 Flanged Butterfly Valve (D41X4, D341X4), 250PSI



D41X4

- Design Standard: API 609
- Face to Face: ISO 5752 Series 13
- Connection Ends: ASME B16.1
- Top Flange Standard: ISO 5211  
Stem drive by keys, parallel or diagonal square or flat head
- Working Pressure: 250PSI  
175PSI, 200PSI and 300PSI available upon request
- Temperature Range: 0°C - 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536,65-45-12	
2	Seat	EPDM	NBR
3	Disc	ASTM A536,65-45-12	AISI 304, AISI 316, AL-Bronze UNC 95400
4	Stem	AISI 420	AISI 304, AISI 316, AISI 416, AISI 431
5	O-Ring	NBR	EPDM
6	Bushing	Nylon 1010	PTFE
7	Lever	ASTM A536,65-45-12	Aluminum

Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.



D341X4

DN		Dimensions(mm)															
Inch	mm	L1	H1	H2	H3	ΦA	B	ΦC	n-Φ1	ΦD	ΦE	ΦK	n-Φ2	ISO 5211	ΦF	G	L
2"	50	108	80	110	32	150	17.5	120.7	4-Φ19	53.9	70	90	4-Φ10	F07	14	9.53	267
2.5"	65	112	80	131	32	180	22.3	139.7	4-Φ19	65.2	70	90	4-Φ10	F07	14	9.53	267
3"	80	114	95	134	32	190	22.3	152.4	4-Φ19	79.7	70	90	4-Φ10	F07	14	9.53	267
4"	100	127	113	150	32	230	22.3	190.5	8-Φ19	105	70	90	4-Φ10	F07	16	11.14	267
5"	125	140	114	170	32	255	22.3	215.9	8-Φ22	130	70	90	4-Φ10	F07	16	11.14	267
6"	150	140	139	180	32	280	23.9	241.3	8-Φ22	156	70	90	4-Φ10	F07	20	12.7	267
8"	200	152	175	210	45	345	27	298.5	8-Φ22	206.7	102	125	4-Φ12	F10	26	20.6	356
10"	250	165	203	245	45	405	28.6	362	12-Φ25	253.3	102	125	4-Φ12	F10	26	20.6	356
12"	300	178	242	276	45	485	30.2	431.8	12-Φ25	301.9	102	125	4-Φ12	F10	28	22.1	490
14"	350	190	250	328	45	535	33.4	476.3	12-Φ28.6	333.5	125	150	4-Φ14	F12	31.6	22.1	-
16"	400	216	277	376	51	595	35	539.8	16-Φ28.6	389.6	140	175	4-Φ18	F14	33.15	27	-
18"	450	222	295	407	51	635	38.1	577.9	16-Φ31.8	440.5	140	175	4-Φ18	F14	38	27	-
20"	500	229	330	448	64	700	41.3	635	20-Φ31.8	491.6	140	175	4-Φ18	F14	41.15	27	-
24"	600	267	420	518	70	815	46.1	749.3	20-Φ35	592.5	165	210	4-Φ22	F16	50.65	-	-
28"	700	292	450	560	66	927	71.3	863.6	28-Φ35	695	254	300	8-Φ18	F25	63.5	-	-
32"	800	318	501	620	66	1060	81	977.9	28-Φ41	794.7	254	300	8-Φ18	F25	63.5	-	-