

MEDIA VALVE CO. INC.

MOSITES BUTTERFLY VALVES



QUALITY

VALUE

SERVICE

MOSITES C10 VALVE

2" - 36"

2" - 30" 150 PSI SERVICE

36" 125 PSI SERVICE

The Mosites C10 Butterfly Valve, which is fully elastomer lined, is in use throughout the world in a wide range of critical service applications. The control of water, chemicals, air, slurries, and vapors to 150 psi bubble-tight shut off can be achieved with the Mosites Butterfly Valve.

STEM - STEEL ASTM A 311 AISI GRADE C1144.

One piece full length stem is internally keyed to disc insert.

BODY - CAST CARBON STEEL ASTM A 216 GRADE WCB WAFER OR LUG.

Stronger than cast or ductile iron. Not subject to thermal shock. Also available in stainless steel and aluminum.

DISC INSERT ASTM A 108 AND ASTM A 216 GRADE WCB.

Lining material bonded to steel. Disc internally keyed to shaft.

EXTERIOR FINISH.

High gloss epoxy. Maximum protection from environmental corrosion.

GASKET SURFACE.

Bonded to valve body. Will not "fold" on insertion between flanges.

BUSHING - RYTON/TFE.

Reinforced top stabilizer bushing prevents side loading.

STEM SEAL.

Top patented ball and socket design.

BODY LINER.

Molded and bonded to body; prevents seat blow-out.

STEM SEAL.

Bottom patented ball and socket design.

BUSHING - RYTON/TFE.

Reinforced bottom stabilizer bushing prevents side loading.

STEM RETAINING RING.

Insures positive retention of stem.

The quarter turn operation of the disc is easily accomplished by the handlever (with friction lock positioner) or weatherproof gear operator. For pneumatic or electric actuation packages, see page 11. The Mosites Butterfly Valve meets ANSI B16.104, Class VI, bi-directional shut-off specifications, and is for use with ANSI B 16.5 (2"-24") ANSI B16.47A (30"-36") dimensional 150# flanges. The valve can also be used for full vacuum and dead end service.

ENGINEERING DATA FOR C10

C10 COEFFICIENT OF FLOW

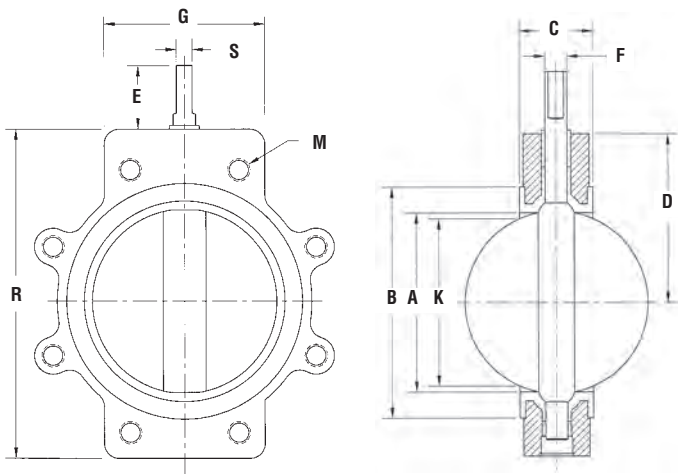
Cv of valve opening

VALVE SIZE	20°	30°	40°	50°	60°	70°	80°	90°
2"	1	8	18	30	43	73	117	159
3"	3	16	38	75	132	195	296	429
4"	9	43	82	150	241	377	615	884
6"	21	95	186	338	541	872	1340	1800
8"	38	165	330	601	963	1550	2460	3400
10"	59	258	515	938	1500	2420	3850	5830
12"	86	371	741	1350	2170	3490	5540	7960
14"	105	452	900	1650	2640	4250	6750	10200
16"	139	599	1200	2180	3500	5630	8940	12900
18"	178	766	1530	2790	4480	7200	11400	17300
20"	221	954	1910	3480	5570	8970	14200	21600
24"	344	1480	2970	5400	8660	13900	22100	31800
30"	520	2240	4480	8170	13100	21000	33500	50700
36"	786	3390	6760	12365	19820	31730	50780	80850

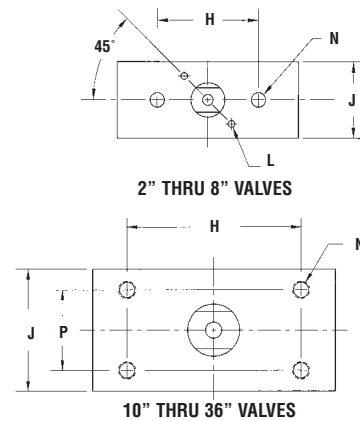
C10 TORQUES & WEIGHTS

All weights shown in pounds.

VALVE SIZE	ACTUAL TORQUE INCH POUNDS*	VALVE WEIGHT LESS OPERATOR LUG BODY	VALVE WEIGHT LESS OPERATOR WAFER BODY	GEAR OPERATOR WEIGHT	HANDLEVER OPERATOR WEIGHT
2"	100	7.5	6	12	4
3"	220	16	13	12	7
4"	390	20	16	23	7
6"	726	30	25	23	9
8"	1162	65	59	27	9
10"	2473	116	84	40	10
12"	4550	176	122	40	10
14"	5916	213	201	87	-
16"	7900	252	235	87	-
18"	10004	338	304	87	-
20"	14740	429	393	101	-
24"	21600	603	563	101	-
30"	22200	1006	910	133	-
36"	51000	1772	1601	265	-



*Torque specifications are based on optimum test conditions. Actual torques may vary under differing field and environmental applications. For actuator sizing multiply torques by 1.5.



C10 DIMENSION TABLE

VALVE SIZE	A	B	C	D	E	F	G	H	J	K	L	M(LUG)	N	P	R (Wafer)	R (Lug)	S
2"	2.09	3.50	1.63	3.25	1.60	0.500	4.75	2.203	1.50	1.64	10-32 ON 1.125 BC	5/8-11 4 PLCS. ON 4.75 BC	3/8-16 2 PLCS.	-	6.00	6.37	.375
3"	3.00	4.63	2.25	3.88	2.13	0.625	6.00	3.250	2.00	2.54	1/4-20 ON 1.375 BC	5/8-11 4 PLCS. ON 6.00 BC	1/2-13 2 PLCS.	-	7.31	7.62	.500
4"	4.16	5.91	2.25	4.75	2.13	0.625	4.25	3.000	2.00	3.72	1/4-20 ON 1.375 BC	5/8-11 8 PLCS. ON 7.50 BC	1/2-13 2 PLCS.	-	8.37	9.00	.500
6"	6.10	7.88	2.50	5.75	2.13	0.750	5.38	3.000	2.25	5.85	1/4-20 ON 1.984 BC	3/4-10 8 PLCS. ON 9.50 BC	1/2-13 2 PLCS.	-	10.56	11.00	.625
8"	8.00	10.00	3.75	7.13	2.13	1.000	7.00	3.500	3.50	7.44	1/4-20 ON 2.203 BC	3/4-10 8 PLCS. ON 11.75 BC	1/2-13 2 PLCS.	-	13.62	13.62	.875
10"	10.00	12.00	3.75	8.50	2.60	1.250	7.00	5.016	3.50	9.60	-	7/8-9 12 PLCS. ON 14.25 BC	1/2-13 4 PLCS.	2.313	17.00	17.00	1.000
12"	12.11	14.00	4.00	10.00	2.85	1.500	8.00	5.016	3.75	11.61	-	7/8-9 12 PLCS. ON 17.00 BC	1/2-13 4 PLCS.	2.313	20.00	20.00	1.250
14"	12.69	16.00	4.69	10.75	2.85	1.500	8.00	5.016	4.50	12.18	-	1-8 12 PLCS. ON 18.75 BC	1/2-13 4 PLCS.	2.313	21.50	21.50	1.250
16"	14.69	17.88	4.69	12.00	2.85	1.500	8.00	5.016	4.50	14.26	-	1-8 16 PLCS. ON 21.25 BC	1/2-13 4 PLCS.	2.313	24.00	24.00	1.250
18"	16.75	19.75	5.69	13.13	3.17	1.750	8.00	5.016	5.50	16.10	-	1-1/8-7 16 PLCS. ON 22.75 BC	1/2-13 4 PLCS.	2.313	26.25	26.25	1.500
20"	18.50	21.75	5.94	14.38	3.17	1.750	8.69	5.016	5.75	17.92	-	1-1/8-7 20 PLCS. ON 25.00 BC	1/2-13 4 PLCS.	2.313	28.75	28.75	1.500
24"	22.13	25.88	6.19	16.81	**	**	9.00	5.016	6.00	21.79	-	1-1/4-7 20 PLCS. ON 29.50 BC	1/2-13 4 PLCS.	2.313	33.62	33.62	**
30"	28.50	32.00	7.19	20.25	**	**	9.00	6.000	7.00	27.88	-	1-1/4-7 24 PLCS. ON 36.00 BC	3/4-10 4 PLCS.	3.500	40.50	40.50	**
36"	34.00	38.58	8.06	24.50	**	**	10.00	7.000	7.88	33.44	-	1-1/2-6 32 PLCS. ON 42.75 BC	3/4-10 4 PLCS.	4.000	49.00	49.00	**

* Contact manufacturer for mounting dimensions.

** Contact manufacturer for correct shaft dimensions.

MOSITES C10N VALVE

14" - 36" EXCEPT 30"
14" - 24" 150 PSI SERVICE
36" 125 PSI SERVICE

The Mosites C10 Butterfly Valve, which is fully elastomer lined, is in use throughout the world in a wide range of critical service applications. The control of water, chemicals, air, slurries, and vapors to 150 psi bubble-tight shut off can be achieved with the Mosites Butterfly Valve. The C10N incorporates the same unique features as the C10 and meets API 609 and MSS-SP 67 laying length (face-to-face) dimensions for quick placement of standard butterfly valves

STEM - STEEL ASTM A 311 AISI GRADE C1144.

One piece full length stem is internally keyed to disc insert.

BODY - CAST CARBON STEEL ASTM A 216 GRADE WCB WAFER OR LUG.

Stronger than cast or ductile iron. Not subject to thermal shock. Also available in stainless steel and aluminum.

DISC INSERT ASTM A 108 AND ASTM A 216 GRADE WCB.

Lining material bonded to steel. Disc internally keyed to shaft.

EXTERIOR FINISH.

High gloss epoxy. Maximum protection from environmental corrosion.

GASKET SURFACE.

Bonded to valve body. Will not "fold" on insertion between flanges.

BUSHING - RYTON/TFE.

Reinforced top stabilizer bushing prevents side loading.

STEM SEAL.

Top patented ball and socket design.

BODY LINER.

Molded and bonded to body; prevents seat blow-out.

STEM SEAL.

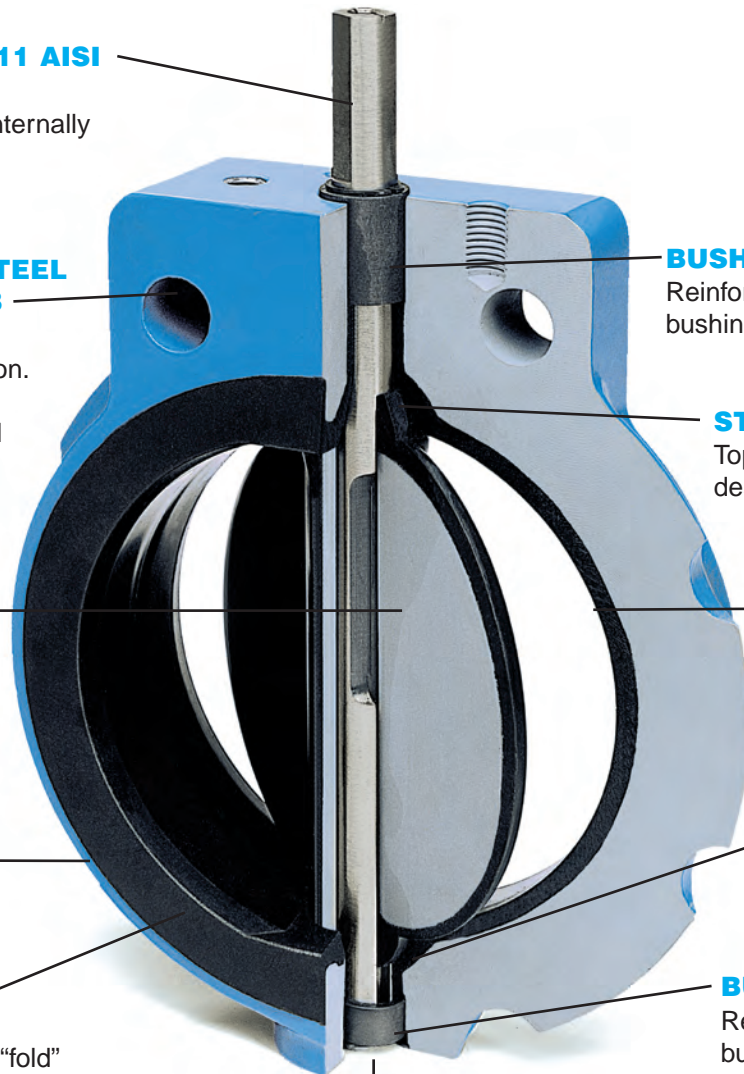
Bottom patented ball and socket design.

BUSHING - RYTON/TFE.

Reinforced bottom stabilizer bushing prevents side loading.

STEM RETAINING RING.

Insures positive retention of stem.



The quarter turn operation of the disc is easily accomplished by the handlever (with friction lock positioner) or weatherproof gear operator. For pneumatic or electric actuation packages, see page 11. The Mosites Butterfly Valve meets ANSI B16.104, Class VI, bi-directional shut-off specifications, and is for use with ANSI B 16.5 (2"-24") ANSI B16.47A (30"-36") dimensional 150# flanges. The valve can also be used for full vacuum and dead end service.

ENGINEERING DATA FOR C10N

C10N COEFFICIENT OF FLOW

Cv of valve opening

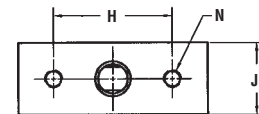
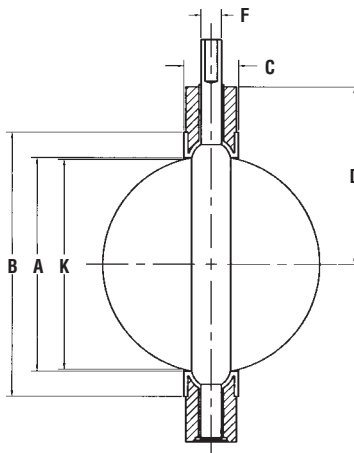
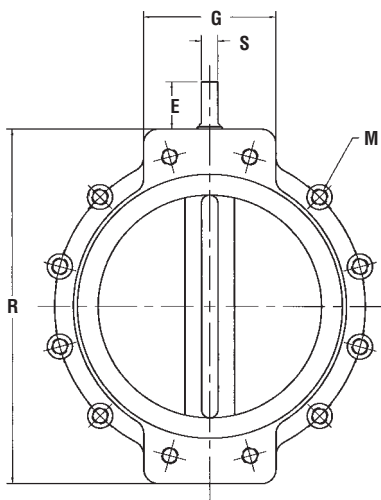
VALVE SIZE	20°	30°	40°	50°	60°	70°	80°	90°
14"	105	452	900	1650	2640	4250	6750	10200
16"	139	599	1200	2180	3500	5630	8940	12900
18"	178	766	1530	2790	4480	7200	11400	17300
20"	221	954	1910	3480	5570	8970	14200	21600
24"	344	1480	2970	5400	8660	13900	22100	31800
36"	786	3390	6760	12365	19820	31730	50780	80850

C10N TORQUES & WEIGHTS

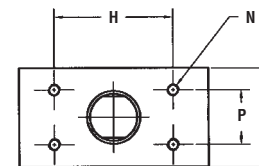
All weights shown in pounds.

VALVE SIZE	ACTUAL TORQUE INCH POUNDS*	VALVE WEIGHT LESS OPERATOR LUG BODY	VALVE WEIGHT LESS OPERATOR WAFER BODY	GEAR OPERATOR WEIGHT	HANDLEVER OPERATOR WEIGHT
14"	5916	213	201	87	-
16"	7900	252	235	87	-
18"	10004	338	304	87	-
20"	14740	429	393	101	-
24"	21600	603	563	101	-
36"	51000	1772	1601	265	-

*Torque specifications are based on optimum test conditions. Actual torques may vary under differing field and environmental applications. For actuator sizing multiply torques by 1.5.



14" VALVE



16" THRU 24" VALVES

C10N DIMENSION TABLE

VALVE SIZE	A	B	C	D	E	F	G	H	J	K	M (LUG)	N	P	R (Wafer or Lug)	S
14"	12.72	16.00	3.25	10.75	2.85	1.250	8.00	5.016	3.06	12.57	1-8 12 PLCS. ON 18.75 B.C.	5/8-11 2 PLCS.	-	21.50	1.000
16"	14.58	17.88	4.19	12.00	2.85	1.500	8.38	5.016	4.00	14.39	1-8 16 PLCS. ON 21.25 B.C.	1/2-13 4 PLCS.	2.313	24.00	1.250
18"	16.51	19.75	4.69	13.13	3.17	1.750	8.38	5.016	4.50	16.41	1-1/8-7 16 PLCS. ON 22.75 B.C.	1/2-13 4 PLCS.	2.313	26.25	1.500
20"	18.46	21.75	5.19	14.38	3.17	1.750	8.69	5.016	5.00	18.18	1-1/8-7 20 PLCS. ON 25.00 B.C.	1/2-13 4 PLCS.	2.313	28.75	1.500
24"	22.12	25.88	6.19	16.81	*	*	9.00	5.016	6.00	21.87	1-1/4-7 20 PLCS. ON 29.50 B.C.	1/2-13 4 PLCS.	2.313	33.63	*
36" **															

* Contact manufacturer for mounting dimensions.

** Dimensions are the same for the C10N 36" as the C10 36".

MOSITES C30 VALVE

2" - 12"
150 PSI SERVICE

The Mosites C30 Butterfly Valve was developed to fill an industry need for a high cycle, fully elastomer lined butterfly valve. If your processes involve chemicals, slurries, water, air or vapors, the C30 can solve your control problems. It is available in the standard Mosites face to face dimension.

STEM - STEEL ASTM A 311 AISI GRADE C1144.

One piece full length stem with integral "DD" disc position indicator.

STEM RETAINER - ALLOY 625 ASTM B 446.

Insures positive retention of stem.

BODY - CAST CARBON STEEL ASTM A 216 GRADE WCB WAFER OR LUG.

Stronger than cast or ductile iron. Not subject to thermal shock. Also available in stainless steel and aluminum.

DISC INSERT ASTM A 108 AND A 487 GRADE N.

Lining material bonded to steel.

EXTERIOR FINISH.

High gloss epoxy. Maximum protection from environmental corrosion.

GASKET SURFACE.

Bonded to valve body. Will not "fold" on insertion between flanges.

DISC TO STEM CONNECTION.

Flat drive mechanism.

BUSHING - RYTON/TFE.

Reinforced top stabilizer bushing prevents side loading.

SECONDARY STEM SEAL.

Pressure activated Viton seal ring.

PRIMARY STEM SEAL.

Integrally molded O-Ring seal.

BEARING - TFE.

Isolates elastomer sealing surfaces for long life and high cycle capability.

BODY LINER.

Molded and bonded to body; prevents seat blow-out.

BEARING - TFE.

Isolates elastomer sealing surfaces for long life and high cycle capability.

PRIMARY STEM SEAL.

Integrally molded O-Ring seal.

BUSHING/RETAINER CUP - RYTON/TFE

Reinforced bottom stabilizer bushing prevents side loading and leak path to casting. Provides protection to stem from premature wear caused by metal-to-metal contact.

The quarter turn operation of the disc is easily accomplished by the handlever (with friction lock positioner) or weatherproof gear operator. For pneumatic or electric actuation packages, see page 11. The Mosites Butterfly Valve meets ANSI B16.104, Class VI, bi-directional shut-off specifications, and is for use with ANSI B 16.5 (2"-12") dimensional 150# flanges. The valve can also be used for full vacuum and dead end service.

ENGINEERING DATA FOR C30

C30 COEFFICIENT OF FLOW

Cv of valve opening

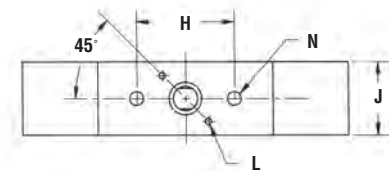
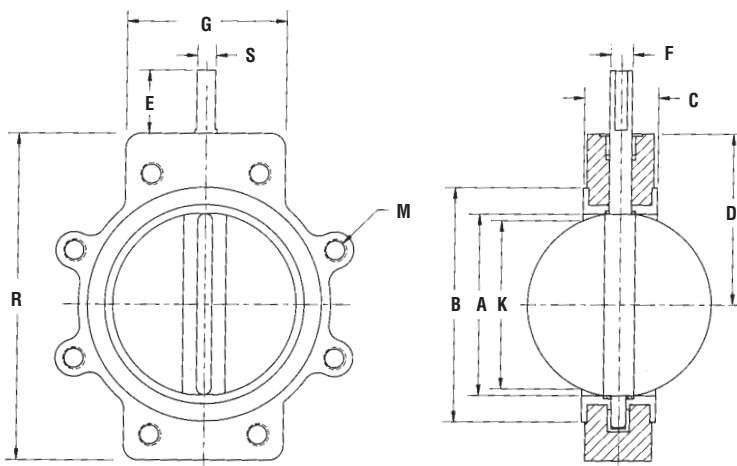
VALVE SIZE	20°	30°	40°	50°	60°	70°	80°	90°
2"	1	8	18	30	43	73	117	159
3"	3	16	38	75	132	195	296	429
4"	9	43	82	150	241	377	615	884
6"	21	95	186	338	541	872	1340	1800
8"	38	165	330	601	963	1550	2460	3400
10"	59	258	515	938	1500	2420	3850	5830
12"	86	371	741	1350	2170	3490	5540	7960

C30 TORQUES & WEIGHTS

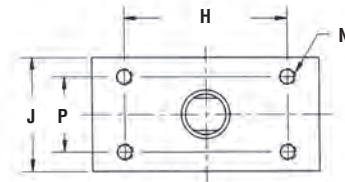
All weights shown in pounds.

VALVE SIZE	ACTUAL TORQUE INCH POUNDS*	VALVE WEIGHT LESS OPERATOR LUG BODY	VALVE WEIGHT LESS OPERATOR WAFER BODY	GEAR OPERATOR WEIGHT	HANDLEVER OPERATOR WEIGHT
2"	100	7.5	6	12	4
3"	220	16	13	12	7
4"	390	20	16	23	7
6"	726	30	25	23	9
8"	1162	65	59	27	9
10"	2473	91	84	40	10
12"	4550	132	122	40	10

*Torque specifications are based on optimum test conditions. Actual torques may vary under differing field and environmental applications. For actuator sizing multiply torques by 1.5.



2" THRU 8" VALVES



10" THRU 12" VALVES

C30 DIMENSION TABLE

VALVE SIZE	A	B	C	D	E	F	G	H	J	K	L	M(LUG)	N	P	R (Wafer)	R (Lug)	S
2"	2.09	3.50	1.63	3.25	1.60	0.500	4.75	2.203	1.50	1.51	10-32 ON 1.125 BC	5/8-11 ON 4.75 BC 4 PLCS.	3/8-16 2 PLCS.	-	6.00	6.38	0.375
3"	3.00	4.63	2.25	3.88	*	0.625	6.00	3.250	2.00	2.45	1/4-20 ON 1.375 BC	5/8-11 ON 6.00 BC 4 PLCS.	1/2-13 2 PLCS.	-	7.31	7.63	0.500
4"	4.03	5.91	2.25	4.75	2.13	0.625	4.25	3.000	2.00	3.72	1/4-20 ON 1.375 BC	5/8-11 ON 7.50 BC 8 PLCS.	1/2-13 2 PLCS.	-	8.38	9.00	0.500
6"	6.10	7.88	2.50	5.75	2.13	0.750	5.38	3.000	2.25	5.66	1/4-20 ON 1.984 BC	3/4-10 ON 9.50 BC 8 PLCS.	1/2-13 2 PLCS.	-	10.56	11.00	0.625
8"	7.95	10.00	3.75	7.13	2.13	1.000	7.00	3.500	3.50	7.36	1/4-20 ON 2.203 BC	3/4-10 ON 11.75 BC 8 PLCS.	1/2-13 2 PLCS.	-	13.63	13.63	0.875
10"	9.88	12.00	3.75	8.50	2.63	1.250	7.00	5.016	3.50	9.64	-	7/8-9 ON 14.25 BC 12 PLCS.	1/2-13 4 PLCS.	2.313	17.00	17.00	1.000
12"	12.11	14.00	4.00	10.00	2.63	1.500	8.00	5.016	3.75	11.53	-	7/8-9 ON 17.00 BC 12 PLCS.	1/2-13 4 PLCS.	2.313	20.00	20.00	1.250

*Contact manufacturer for mounting dimensions.

MOSITES C30N VALVE

2" - 12"
150 PSI SERVICE

The Mosites C30N Butterfly Valve was developed to fill an industry need for a high cycle, fully elastomer lined butterfly valve. If your processes involve chemicals, slurries, water, air or vapors, the C30N can solve your control problems. Incorporating the same unique features as the C30, the C30N meets API 609 and MSS-SP 67 laying length (face-to-face) dimensions for quick replacement of standard butterfly valves.

STEM - STEEL ASTM A 311 AISI GRADE C1144.

One piece full length stem with integral "DD" disc position indicator.

STEM RETAINER - ALLOY 625 ASTM B 446.

Insures positive retention of stem.

BODY - CAST CARBON STEEL ASTM A 216 GRADE WCB WAFER OR LUG.

Stronger than cast or ductile iron. Not subject to thermal shock. Also available in stainless steel and aluminum.

DISC INSERT ASTM A 108 AND A 487 GRADE N.

Lining material bonded to steel.

EXTERIOR FINISH.

High gloss epoxy. Maximum protection from environmental corrosion.

GASKET SURFACE.

Bonded to valve body. Will not "fold" on insertion between flanges.

DISC TO STEM CONNECTION.

Flat drive mechanism.

BUSHING - RYTON/TFE.

Reinforced top stabilizer bushing prevents side loading.

SECONDARY STEM SEAL.

Pressure activated Viton seal ring.

PRIMARY STEM SEAL.

Integrally molded O-Ring seal.

BEARING - TFE.

Isolates elastomer sealing surfaces for long life and high cycle capability.

BODY LINER.

Molded and bonded to body; prevents seat blow-out.

BEARING - TFE.

Isolates elastomer sealing surfaces for long life and high cycle capability.

PRIMARY STEM SEAL.

Integrally molded O-Ring seal.

BUSHING/RETAINER CUP - RYTON/TFE

Reinforced bottom stabilizer bushing prevents side loading and leak path to casting. Provides protection to stem from premature wear caused by metal-to-metal contact.

The quarter turn operation of the disc is easily accomplished by the handlever (with friction lock positioner) or weatherproof gear operator. For pneumatic or electric actuation packages, see page 11. The Mosites Butterfly Valve meets ANSI B16.104, Class VI, bi-directional shut-off specifications, and is for use with ANSI B 16.5 (2"-12") dimensional 150# flanges. The valve can also be used for full vacuum and dead end service.

ENGINEERING DATA FOR C30N

C30N COEFFICIENT OF FLOW

Cv of valve opening

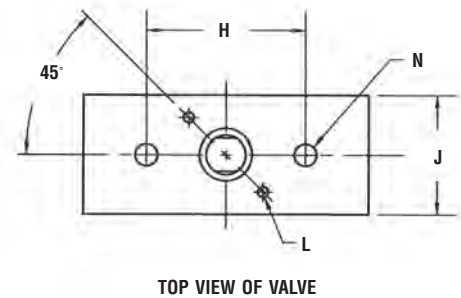
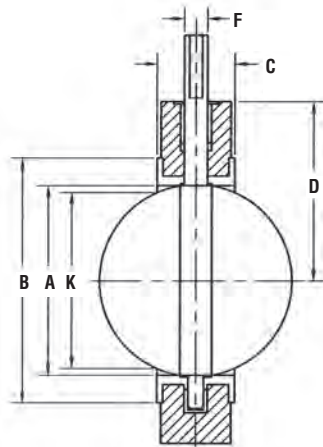
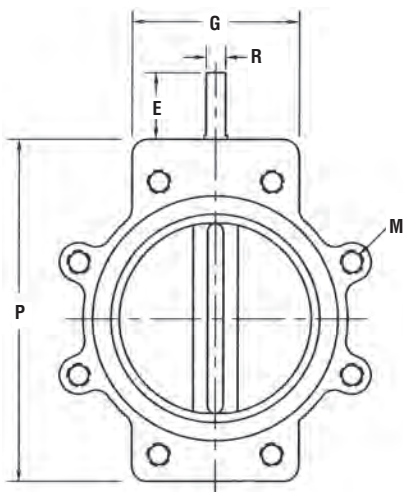
VALVE SIZE	20°	30°	40°	50°	60°	70°	80°	90°
2"	1	8	18	30	43	73	117	159
3"	3	16	38	75	132	195	296	429
4"	9	43	82	150	241	377	615	884
6"	21	95	186	338	541	872	1340	1800
8"	38	165	330	601	963	1550	2460	3400
10"	59	258	515	938	1500	2420	3850	5830
12"	86	371	741	1350	2170	3490	5540	7960

C30N TORQUES & WEIGHTS

All weights shown in pounds.

VALVE SIZE	ACTUAL TORQUE INCH POUNDS*	VALVE WEIGHT LESS OPERATOR LUG BODY	VALVE WEIGHT LESS OPERATOR WAFER BODY	GEAR OPERATOR WEIGHT	HANDLEVER OPERATOR WEIGHT
2"	100	7.5	6	12	4
3"	220	15	12	12	7
4"	390	20	16	23	7
6"	726	29	24	23	9
8"	1162	53	50	27	9
10"	2473	80	74	40	10
12"	4550	118	110	40	10

*Torque specifications are based on optimum test conditions. Actual torques may vary under differing field and environmental applications. For actuator sizing multiply torques by 1.5.



C30N DIMENSION TABLE

VALVE SIZE	A	B	C	D	E	F	G	H	J	K	L	M(LUG)	N	P (Wafer)	P (Lug)	R
2"	2.09	3.50	1.63	3.25	1.60	0.500	4.75	2.203	1.50	1.51	10-32 ON 1.125 BC	5/8-11 4 PLCS. ON 4.75 BC	3/8-16 2 PLCS.	6.000	6.38	0.375
3"	3.00	4.63	2.06	3.88	*	0.625	6.00	3.250	1.81	2.45	1/4-20 ON 1.375 BC	5/8-11 4 PLCS.ON 6.00 BC	1/2-13 2 PLCS.	7.313	7.63	0.500
4"	4.03	5.91	2.25	4.75	2.13	0.625	4.25	3.000	2.00	3.72	1/4-20 ON 1.375 BC	5/8-11 8 PLCS.ON 7.50 BC	1/2-13 2 PLCS.	8.375	9.00	0.500
6"	6.10	7.88	2.44	5.75	2.13	0.750	5.38	3.000	2.19	5.66	1/4-20 ON 1.984 BC	3/4-10 8 PLCS.ON 9.50 BC	1/2-13 2 PLCS.	10.563	11.00	0.625
8"	7.89	10.00	2.63	7.13	2.13	1.000	7.00	3.500	2.38	7.74	1/4-20 ON 2.203 BC	3/4-10 ON 11.75 BC 8 PLCS.	1/2-13 2 PLCS.	13.625	13.63	0.875
10"	9.73	11.75	2.94	8.50	2.63	1.250	7.00	5.016	2.69	9.78	-	7/8-9 ON 14.25 BC 12 PLCS.	5/8-11 2 PLCS.	17.000	17.000	1.000
12"	12.11	14.00	3.31	10.00	2.63	1.500	8.00	5.016	3.06	11.69	-	7/8-9 ON 17.00 BC 12 PLCS.	5/8-11 2 PLCS.	20.000	20.000	1.250

*Contact manufacturer for mounting dimensions.

MOSITES A20 VALVE

2" - 12"
275 PSI SERVICE

The Mosites A20 Butterfly Valve was developed in response to market demand for a high cycle butterfly valve. Reduced torque and low profile disc increases the A20 cycle capabilities and economizes actuation cost. Uniquely suited for applications involving continuous cycling, the Mosites A20 Butterfly Valve provides reliable service in flow control applications.

**STEM - 17-4 PH STAINLESS STEEL
ASTM A 564 (ALLOY 625, HASTALLOY
C, MONEL ALSO AVAILABLE.)**

One piece full length stem with integral "DD"
disc position indicator.

**STEM RETAINER - ALLOY 625
ASTM B 446.**

Insures positive retention of stem.

**BODY - CAST CARBON STEEL
ASTM A 216 GRADE WCB
WAFER OR LUG.**

Stronger than cast or ductile iron.
Not subject to thermal shock.
Also available in stainless steel
and aluminum.

**DISC - INVESTMENT
CAST - 316 SS ASTM
A744 CF3M (AL/BRZ,
ALLOY 20, HASTALLOY
C, MONEL ALSO
AVAILABLE.)**

Has superior corrosion
resistance. Polished edge
reduces torque requirements.

EXTERIOR FINISH.

High gloss epoxy. Maximum
protection from environmental
corrosion.

GASKET SURFACE.

Bonded to valve body. Will not "fold"
on insertion between flanges.

BUSHING - RYTON/TFE.

Reinforced top stabilizer bushing
prevents side loading.

SECONDARY STEM SEAL.

Pressure activated Viton seal ring.

PRIMARY STEM SEAL.

Integrally molded O-Ring seal.

BODY LINER.

Molded and bonded to
body; prevents seat
blow-out.

PRIMARY STEM SEAL.

Integrally molded O-Ring
seal.

**BUSHING/RETAINER
CUP - RYTON/TFE**

Reinforced bottom
stabilizer bushing prevents
side loading and leak path
to casting. Provides
protection to stem from
premature wear caused by
metal-to-metal contact.

DISC TO STEM CONNECTION.

Flat drive mechanism.

The quarter turn operation of the disc is easily accomplished by the handlever (with friction lock positioner) or weatherproof gear operator. For pneumatic or electric actuation packages, see page 11. The Mosites Butterfly Valve meets ANSI B16.104, Class VI, bi-directional shut-off specifications, and is for use with ANSI B 16.5 (2"-12") dimensional 150# flanges. The valve can also be used for full vacuum and dead end service.

ENGINEERING DATA FOR A20

A20 COEFFICIENT OF FLOW

Cv of valve opening

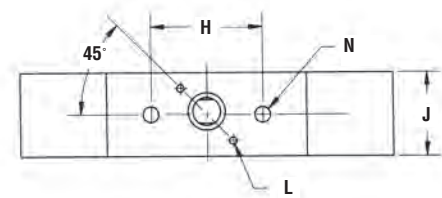
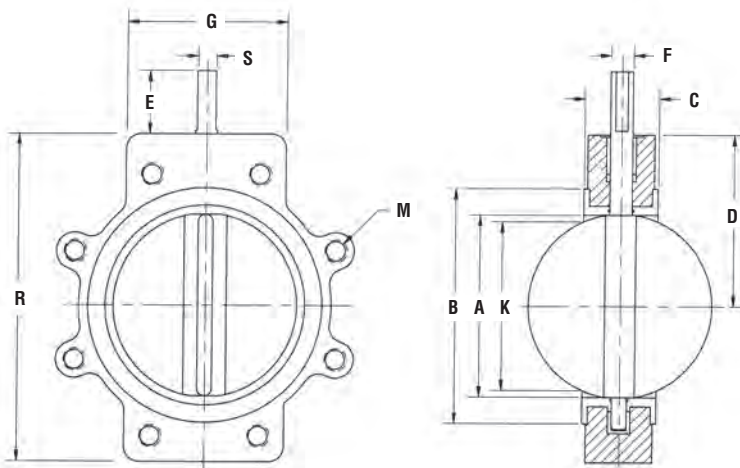
VALVE SIZE	20°	30°	40°	50°	60°	70°	80°	90°
2"	1	8	18	30	43	73	117	159
3"	3	16	38	75	132	195	296	429
4"	9	43	82	150	241	377	615	884
6"	21	95	186	338	541	872	1340	1800
8"	38	165	330	601	963	1550	2460	3400
10"	59	258	515	938	1500	2420	3850	5830
12"	86	371	741	1350	2170	3490	5540	7960

A20 TORQUES & WEIGHTS

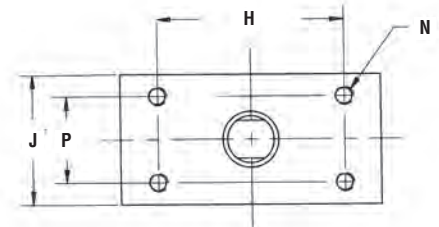
All weights shown in pounds.

VALVE SIZE	ACTUAL TORQUE INCH POUNDS*	VALVE WEIGHT LESS OPERATOR LUG BODY	VALVE WEIGHT LESS OPERATOR WAFER BODY	GEAR OPERATOR WEIGHT	HANDLEVER OPERATOR WEIGHT
2"	35	9	7	12	4
3"	210	17	14	12	7
4"	228	21	17	23	7
6"	657	33	27	23	9
8"	830	74	65	27	9
10"	2365	101	95	40	10
12"	3797	142	135	40	10

*Torque specifications are based on optimum test conditions. Actual torques may vary under differing field and environmental applications. For actuator sizing multiply torques by 1.25.



2" THRU 8" VALVES



10" THRU 12" VALVES

A20 DIMENSION TABLE

VALVE SIZE	A	B	C	D	E	F	G	H	J	K	L	M (LUG)	N	P	R (Wafer)	R (Lug)	S
2"	2.09	3.50	1.63	3.25	1.60	0.500	4.75	2.203	1.50	1.65	10-32 ON 1.125 BC	5/8-11 4 PLCS ON 4.75 BC	3/8-16 2 PLCS.	-	6.00	6.37	0.375
3"	2.99	4.63	2.25	3.88	*	0.625	6.00	3.250	2.00	2.45	1/4-20 ON 1.375 BC	5/8-11 4 PLCS ON 6.00 BC	1/2-13 2 PLCS	-	7.31	7.62	0.500
4"	4.04	5.91	2.25	4.75	2.13	.0625	4.25	3.000	2.00	3.72	1/4-20 ON 1.375 BC	5/8-11 8 PLCS ON 7.50 BC	1/2-13 2 PLCS	-	8.38	9.00	0.500
6"	5.88	7.88	2.50	5.75	2.13	0.750	5.38	3.000	2.25	5.66	1/4-20 ON 1.984 BC	3/4-10 8 PLCS ON 9.50 BC	1/2-13 2 PLCS	-	10.56	11.00	0.625
8"	7.87	10.00	3.75	7.13	2.13	1.000	7.00	3.500	3.50	7.36	1/4-20 ON 2.203 BC	3/4-10 8 PLCS ON 11.25 BC	1/2-13 2 PLCS	-	13.63	13.63	0.875
10"	9.89	12.00	3.75	8.50	2.63	1.250	7.00	5.016	3.50	9.64	-	7/8-9 12 PLCS ON 14.25 BC	1/2-13 4 PLCS	2.313	17.00	17.00	1.000
12"	12.11	14.00	4.00	10.00	2.63	1.500	8.00	5.016	3.75	11.53	-	7/8-9 12 PLCS ON 17.00 BC	1/2-13 4 PLCS	2.313	20.00	20.00	1.250

*Contact manufacturer for mounting dimensions.

MOSITES A20N VALVE

2" - 12"
275 PSI SERVICE

The Mosites A20N Butterfly Valve was developed in response to market demand for a high cycle butterfly valve. Reduced torque and low profile disc increases the A20N cycle capabilities and economizes your actuation cost. Uniquely suited for applications involving continuous cycling, the Mosites A20N Butterfly Valve provides reliable service in flow control applications. Incorporating the same features as the A20, the A20N meets API 609 and MSS-SP 67 laying length (face-to-face) dimensions for quick replacement of standard butterfly valves.

**STEM - 17-4 PH STAINLESS STEEL
ASTM A 564 (ALLOY 625, HASTALLOY
C, MONEL ALSO AVAILABLE.)**

One piece full length stem with integral "DD"
disc position indicator.

**STEM RETAINER - ALLOY 625
ASTM B 446.**

Insures positive retention of stem.

**BODY - CAST CARBON STEEL
ASTM A 216 GRADE WCB
WAFER OR LUG.**

Stronger than cast or ductile iron.
Not subject to thermal shock.
Also available in stainless steel
and aluminum.

**DISC - INVESTMENT
CAST - 316 SS ASTM
A744 CF3M (AL/BRZ,
ALLOY 20, HASTALLOY
C, MONEL ALSO
AVAILABLE.)**

Has superior corrosion
resistance. Polished edge
reduces torque requirements.

EXTERIOR FINISH.

High gloss epoxy. Maximum
protection from environmental
corrosion.

GASKET SURFACE.

Bonded to valve body. Will not "fold"
on insertion between flanges.

BUSHING - RYTON/TFE.

Reinforced top stabilizer bushing
prevents side loading.

SECONDARY STEM SEAL.

Pressure activated Viton seal ring.

PRIMARY STEM SEAL.

Integrally molded O-Ring seal.

BODY LINER.

Molded and bonded to body;
prevents seat blow-out.

PRIMARY STEM SEAL.

Integrally molded O-Ring seal.

**BUSHING/RETAINER
CUP - RYTON/TFE**

Reinforced bottom stabilizer
bushing prevents side loading
and leak path to casting.
Provides protection to stem
from premature wear caused
by metal-to-metal contact.

DISC TO STEM CONNECTION.

Flat drive mechanism.

The quarter turn operation of the disc is easily accomplished by the handlever (with friction lock positioner) or weatherproof gear operator. For pneumatic or electric actuation packages, see page 11. The Mosites Butterfly Valve meets ANSI B16.104, Class VI, bi-directional shut-off specifications, and is for use with ANSI B 16.5 (2"-12") dimensional 150# flanges. The valve can also be used for full vacuum and dead end service.

ENGINEERING DATA FOR A20N

A20N COEFFICIENT OF FLOW

Cv of valve opening

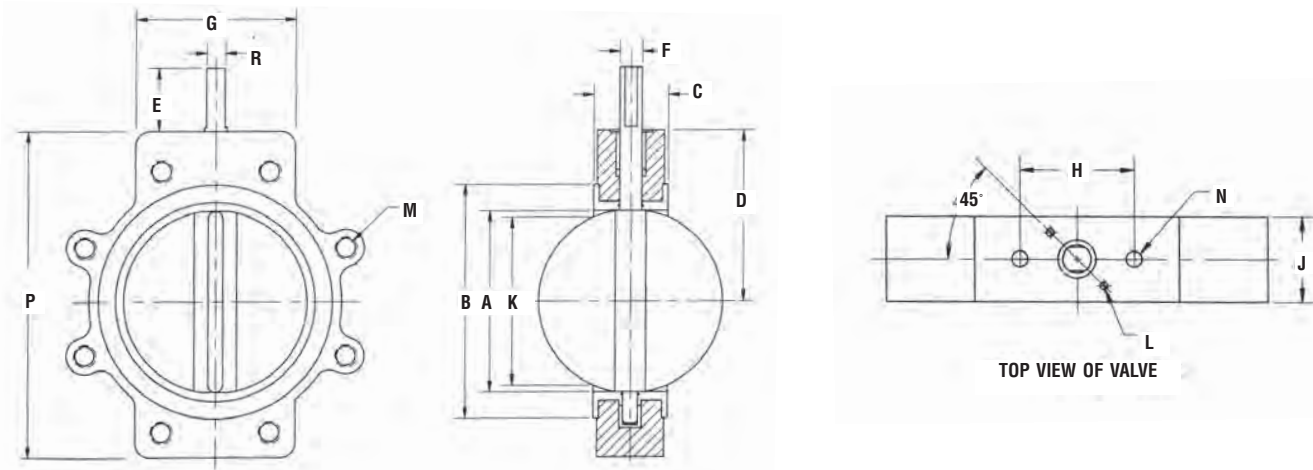
VALVE SIZE	20°	30°	40°	50°	60°	70°	80°	90°
2"	1	8	18	30	43	73	117	159
3"	3	16	38	75	132	195	296	429
4"	9	43	82	150	241	377	615	884
6"	21	95	186	338	541	872	1340	1800
8"	38	165	330	601	963	1550	2460	3400
10"	59	258	515	938	1500	2420	3850	5830
12"	86	371	741	1350	2170	3490	5540	7960

A20N TORQUES & WEIGHTS

All weights shown in pounds.

VALVE SIZE	ACTUAL TORQUE INCH POUNDS*	VALVE WEIGHT LESS OPERATOR LUG BODY	VALVE WEIGHT LESS OPERATOR WAFER BODY	GEAR OPERATOR WEIGHT	HANDLEVER OPERATOR WEIGHT
2"	35	9	7	12	4
3"	210	16	13	12	7
4"	228	21	17	23	7
6"	657	32	26	23	9
8"	830	61	53	27	9
10"	2365	91	87	40	10
12"	3797	128	123	40	10

*Torque specifications are based on optimum test conditions. Actual torques may vary under differing field and environmental applications. For actuator sizing multiply torques by 1.25.



A20N DIMENSION TABLE

VALVE SIZE	A	B	C	D	E	F	G	H	J	K	L	M(LUG)	N	P (Wafer)	P (Lug)	R
2"	2.09	3.50	1.63	3.25	1.60	0.500	4.75	2.203	1.50	1.51	10-32 ON 1.125 BC	5/8-11 ON 4.75 BC 4 PLCS.	3/8-16 2 PLCS.	6.00	6.38	0.375
3"	3.00	4.63	2.06	3.88	*	0.625	6.00	3.250	1.81	2.45	1/4-20 ON 1.375 BC	5/8-11 ON 6.00 BC 4 PLCS.	1/2-13 2 PLCS.	7.31	7.63	0.500
4"	4.03	5.91	2.25	4.75	2.13	.0625	4.25	3.000	2.00	3.72	1/4-20 ON 1.375 BC	5/8-11 ON 7.50 BC 8 PLCS.	1/2-13 2 PLCS.	8.38	9.00	0.500
6"	6.10	7.88	2.44	5.75	2.13	0.750	5.38	3.000	2.19	5.66	1/4-20 ON 1.984 BC	3/4-10 ON 9.50 BC 8 PLCS.	1/2-13 2 PLCS.	10.56	11.00	0.625
8"	7.89	10.00	2.63	7.13	2.13	1.000	7.00	3.500	2.38	7.74	1/4-20 ON 2.203 BC	3/4-10 ON 11.75 BC 8 PLCS.	1/2-13 2 PLCS.	13.63	13.63	0.875
10"	9.73	11.75	2.94	8.50	2.63	1.250	7.00	5.016	2.69	9.78	-	7/8-9 ON 14.25 BC 12 PLCS.	5/8-11 2 PLCS.	17.00	17.00	1.000
12"	12.11	14.00	3.31	10.00	2.63	1.500	8.00	5.016	3.06	11.69	-	7/8-9 ON 17.00 BC 12 PLCS.	5/8-11 2 PLCS.	20.00	20.00	1.250

*Contact manufacturer for mounting dimensions.

AUTOMATED VALVES

Whether you require on-off or modulating service, all Mosites Butterfly Valves can be custom engineered for flow control applications. Since 1961, we have engineered specific automation packages for the Mosites Butterfly Valve to meet your most critical control valve requirements. We offer a full range of actuators, solenoids, limit switches, positioners and other accessories. As an option, we also offer locking type adapters for automation packages.



DESIGN OPTIONS

- Body castings of aluminum and stainless steel
- C10,C30,C30N disc inserts - various metallurgies
- A20, A20N disc castings - various metallurgies
- Custom designed disc configurations
- Shaft materials - various metallurgies
- Lockouts for handlevers, gear operators and automation packages

INDUSTRY APPLICATIONS

- Chemical plants
- Power generation
- Pulp & paper
- Waste incineration
- Mining
- Bulk chemical transportation-truck and barge

SPECIFIC APPLICATIONS

- Brine, acid and caustic
- Sea water desalination
- Cooling tower water
- Flue gas desulphurization
- Abrasive slurries
- Vacuum services
- Lime mud slurry
- Mine tailings - mine water
- Acid recovery systems
- Hydrogen service
- Waste water treatment
- Demineralized water

ELASTOMER	LINING TYPE
BUNA-N	Standard
* CPE	Standard
EPDM	Standard
NATURAL	Standard
NEOPRENE	Standard
** SEP	Premium
VITON	Premium
URETHANE	Premium

Please consult factory for application information and other specialized linings.

- * Chlorinated Polyethylene
- ** Silicone Ethylene Propylene

TESTING

APPLICABLE TESTING STANDARDS

Prior to shipment, each valve must meet the seat closure and shell test requirements of API standard 598.

QUALITY STANDARDS

Media Valve Company, Inc. has implemented quality procedures based on ISO 9002. Additional quality procedures can be included if required.

The Mosites Butterfly Valve was first manufactured in 1961 as part of a product line of corrosion/erosion-resistant rubber products made by Mosites Rubber Company of Fort Worth, Texas. Incorporated in 1968 as Media Valve Company, our design concept of bonded elastomeric lined surfaces affords the end user an economical means of complete isolation of flow stream contaminants.

Our close association with Mosites Rubber Company assures us of constant access to the highest quality elastomeric compounds. Only foundry castings, miscellaneous steel parts and automation devices are supplied by outside vendors. All of the elastomeric compounds used by Media Valve Company are custom blended and compounded at our own facilities in Fort Worth.

A large inventory of raw body castings is maintained for immediate production. Our air conditioned manufacturing facility houses all of the required machining and molding equipment. In strict accordance with the highest quality standards, every Mosites Butterfly Valve is subjected to applicable hydrostatic seat seal and shell test requirements.

With immediate access to Dallas/Fort Worth International Airport, and close proximity to the Port of Houston, Media Valve Company freight traffic experts work closely with all major air and ocean freight forwarders.

At Media Valve Company, we have a resolute commitment to servicing our customers' needs, and we believe in the absolute value of our products.

TYPICAL SPECIFICATIONS

MOSITES C10/C10N BUTTERFLY VALVE

Carbon Steel Body, WAFER or LUG StyleASTM A216 Grade WCB
 Carbon Steel “Stressproof” Stem (Fully Keyed to Disc)ASTM A311, Class B, Grade C1144
 Carbon Steel Disc Insert 2” - 16”ASTM A216 Grade WCB
 18” - 36”ASTM A108 Grade 1018, ASTM 513-5
Molded and inseparable bonded _____ Body Liner and Disc EncapsulationASTM D2000 _____

- No metal contact with flow stream
- Hemispherical Ball and Socket Stem Seals (upper and lower)

Ryton/TFE Stem Bushings (upper and lower)
 Coated with High Gloss Epoxy
 Mounted with . . .

MOSITES C30/C30N BUTTERFLY VALVE

Carbon Steel Body, WAFER or LUG StyleASTM A216 Grade WCB
 Carbon Steel “Stressproof” Stem (Flat Drive Mechanism to Disc)ASTM A311, Class B, Grade C1144
 Carbon Steel Disc Insert 2” - 8”ASTM A487 AISI 8620 Grade 4 N
 10” - 12”ASTM A108 Grade 1018, ASTM 513-5
Molded and inseparable bonded _____ Body Liner and Disc EncapsulationASTM D2000 _____

- No metal contact with flow stream
- Bi-directional stem seals
 - Primary-integral molded O-rings (upper and lower)
 - Secondary-pressure activated Viton stem seal (upper)

Ryton/TFE Stem Bushings (upper and lower)
 Coated with High Gloss Epoxy
 Mounted with . . .

MOSITES A20/A20N BUTTERFLY VALVE

Carbon Steel Body, WAFER or LUG StyleASTM A216 Grade WCB
 17-4 PH SS Stem (Flat Drive Mechanism to Disc)ASTM A564
 316 SS Disc 2” - 12”ASTM A744 CF3M
Molded and inseparable bonded _____ Body LinerASTM D2000 _____

- Bi-directional stem seals
 - Primary-integral molded O-rings (upper and lower)
 - Secondary-pressure activated Viton stem seal (upper)

Ryton/TFE Stem Bushings (upper and lower)
 Coated with High Gloss Epoxy
 Mounted with . . .

OTHER AVAILABLE ELASTOMERS	
MATERIAL	SPECIFICATION NO.
BUNA-N	ASTM D-2000BF715Z
CHLORINATED POLYETHYLENE	ASTM D-2000CE720Z
EPDM	ASTM D-2000CA715Z
NATURAL RUBBER	ASTM D-2000AA730Z
NEOPRENE	ASTM D-2000BC715Z
SILICONE ETHYLENE PROPYLENE	ASTM D-2000DA715Z
URETHANE	ASTM D-2000BG730Z
VITON	ASTM D-2000HK715Z

VALVE IDENTIFICATION NUMBERS

EXAMPLE: 1 020 - 1 03 - 1 1 1

TYPE	SIZE	BODY	LINER	C10/C30 INSERT A20 DISC	SHAFT	OPERATOR
1 C10	020 2"	1 CS WAFER	01 BUNA-N	1 CS	1 CS (C10 ONLY)	0 NONE
2 A20	030 3"	2 CS LUG	02-	2 316 SS	2 17-4PH SS SQ	1 HANDLEVER
3 C30	040 4"	3 CS NARROW WAFER	03 CPE	3 ALLOY 20	3 CS DBL D	2 GEAR OPERATOR
4 FULL FACE ENVELOPE GASKET	060 6"	4 CS NARROW LUG	04-	4 HASTALLOY C	4 SS DBL D 17-4PH	3 ACTUATED
5 SPACER	080 8"	5 ALUMINUM WAFER	05 EPDM	5 MONEL	5 A625 DBL D	
6 FULL FACE REINFORCING RING	100 10"	6 SS WAFER	06-	6 ALUM BRONZE	6 MONEL K-500	
7 GEAR	120 12"	7 SS LUG	07 URETHANE		7 HASTALLOY	
8 ENVELOPE GASKET	140 14"	8 DRILL THRU LUG	08 NATURAL		8 17-4 PH SS SHORT	
9 ACCESSORIES	160 16"		09 NEOPRENE		9 ALLOY DBL D SHORT	
91 REMANUFACTURED C10	180 18"		10 ROYAL THERM (SEP)			
92 REMANUFACTURED A20	200 20"		11 VITON			
93 REMANUFACTURED C30	240 24"		12 VITON FOOD GRADE			
	300 30"		13 BUNA-N FOOD GRADE			
	360 36"		14 NEOPRENE FOOD GRADE			
			15 TBR			

FLANGE BOLT TABLE FOR MOSITES WAFER BUTTERFLY VALVES

VALVE SIZE	STANDARD BODY WIDTH	WAFER BOLT LENGTH (STANDARD)	NARROW BODY WIDTH	WAFER BOLT LENGTH (NARROW)	NUMBER OF BOLTS REQUIRED	BOLT SIZE
2"	1.500	4.500	1.500	4.500	4	5/8"-11NC
3"	2.000	6.000	1.810	6.000	4	5/8"-11NC
4"	2.000	6.000	2.000	6.000	8	5/8"-11NC
6"	2.250	6.500	2.190	6.500	8	3/4"-10NC
8"	3.500	7.500	2.380	6.500	8	3/4"-10NC
10"	3.500	7.500	2.690	7.000	12	7/8"-9NC
12"	3.750	8.000	3.060	7.500	12	7/8"-9NC
14"	4.500	9.000	3.060	8.000	12	1"-8NC
16"	4.500	9.000	4.000	8.500	16	1"-8NC
18"	5.500	10.500	4.500	9.500	16	1-1/8"-7NC
20"	5.750	11.000	5.000	10.500	20	1-1/8"-7NC
24"	6.000	11.000	6.000	11.000	20	1-1/4"-7NC
30"	7.000	13.500 / 3.250	6.500	13.000 / 3.250	24 / 8	1-1/4"-7NC
36"	7.875	15.000 / 3.7500	7.875	15.000 / 3.750	28 / 8	1-1/2"-6NC

FLANGE BOLT TABLE FOR MOSITES LUG TYPE BUTTERFLY VALVES

VALVE SIZE	STANDARD BODY WIDTH	LUG BODY BOLT LENGTH (STANDARD)	NARROW BODY WIDTH	LUG BODY BOLT LENGTH (NARROW)	NUMBER OF BOLTS REQUIRED	BOLT SIZE
2"	1.500	1.250	1.500	1.250	8	5/8"-11NC
3"	2.000	1.750	1.810	1.750	8	5/8"-11NC
4"	2.000	1.750	2.000	1.750	16	5/8"-11NC
6"	2.250	2.000	2.190	2.000	16	3/4"-10NC
8"	3.500	2.750	2.380	2.000	16	3/4"-10NC
10"	3.500	2.750	2.690	2.250	24	7/8"-9NC
12"	3.750	3.000	3.060	2.500	24	7/8"-9NC
14"	4.500	3.500	3.060	2.750	24	1"-8NC
16"	4.500	3.500	4.000	3.250	32	1"-8NC
18"	5.500	3.750	4.500	3.250	32	1-1/8"-7NC
20"	5.750	4.000	5.000	3.500	40	1-1/8"-7NC
24"	6.000	4.250	6.000	4.250	40	1-1/4"-7NC
30"	7.000	5.000 / 3.250	N / A	N / A	48 / 8	1-1/4"-7NC
36"	7.875	5.750 / 3.7500	7.875	5.750 / 3.750	56 / 8	1-1/2"-6NC

NOTE: 1.) BOLT LENGTHS ARE CALCULATED WITHOUT FLAT WASHERS, LOCK WASHERS, ENVELOPE GASKETS, SPACERS, OR FULL FACE REINFORCING RINGS. *2.) LENGTHS SHOWN ARE MAXIMUM ALLOWABLE; ALL OTHERS ARE MINIMUM ALLOWABLE.

Handling Fluids That Are Hot? Corrosive? High Pressure?

**. . . . THEN YOU SHOULD BE USING
MOSITES ELASTOMER-COVERED
STEEL-INSERTED GASKETS
IN YOUR PIPE LINES. . . .**

ADVANTAGES

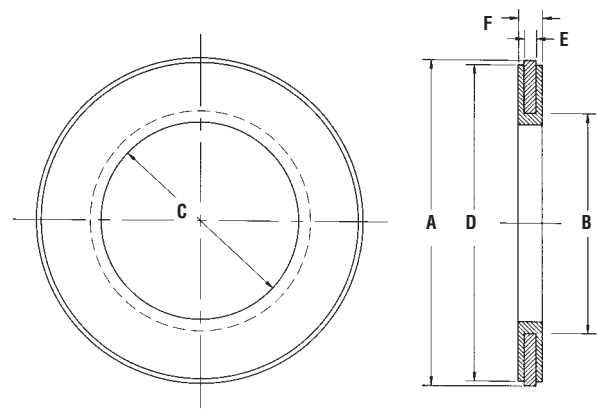
- Re-usable.
- Will not cold-flow.
- Cannot be permanently distorted.
- It is rigid - cannot be inadvertently folded when being installed.
- Low cost.
- Elastomer provides sealing surfaces and corrosion resistance; steel insert provides rigidity for high pressure and elevated temperature.
- Each elastomer is specially compounded for optimum mechanical properties and maximum corrosion resistance.

OTHER AVAILABLE ELASTOMERS	
MATERIAL	SPECIFICATION NO.
BUNA-N	ASTM D-2000BF715Z
CHLORINATED POLYETHYLENE	ASTM D-2000CE720Z
EPDM	ASTM D-2000CA715Z
NATURAL RUBBER	ASTM D-2000AA730Z
NEOPRENE	ASTM D-2000BC715Z
SILICONE ETHYLENE PROPYLENE	ASTM D-2000DA715Z
URETHANE	ASTM D-2000BG730Z
VITON	ASTM D2000HK715Z

MOSITES SPACERS



**WHEN TO USE SPACERS?
WHEN INSIDE DIAMETER OF
PIPE AT FLANGE IS SMALLER
THAN SCHEDULE 40 PIPE
SHOWN IN COLUMN "G".**

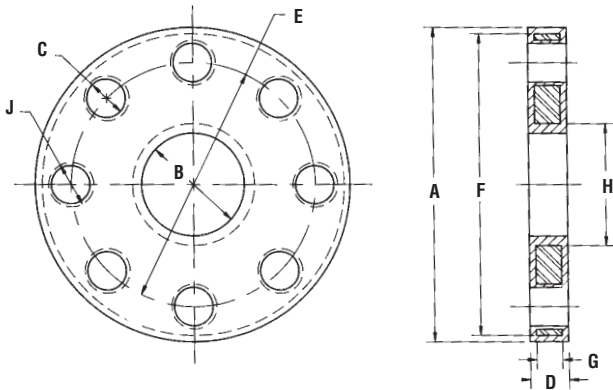


1/2" SPACER								
FLANGE SIZE	A	B	C	D	E	F	G	WEIGHT
	INSERT	INSERT			INSERT			LBS
2"	4.03	2.38	2.06	3.80	0.25	0.50	2.07	1 LB.
3"	5.26	3.55	3.31	5.04	0.25	0.50	3.07	1 LB. 6 OZ.
4"	6.77	4.56	4.10	6.57	0.25	0.50	4.03	2 LBS. 1 OZ.
6"	8.60	6.59	6.35	8.40	0.25	0.50	6.07	2 LBS. 9 OZ.
8"	10.89	8.53	8.11	10.68	0.25	0.50	7.98	4 LBS.
10"	13.63	10.38	10.06	13.05	0.25	0.50	10.02	5 LBS. 8 OZ.
12"	16.03	12.38	12.13	15.92	0.25	0.50	11.94	7 LBS. 12 OZ.
14"	17.61	13.25	13.00	17.43	0.25	0.50	13.12	11 LBS.
16"	20.10	15.25	14.99	20.00	0.25	0.50	15.00	14 LBS.
18"	21.50	17.25	16.98	21.29	0.25	0.50	16.88	16 LBS.
20"	23.70	19.00	18.75	23.54	0.25	0.50	18.81	18 LBS.
24"	28.13	22.88	22.64	27.93	0.25	0.50	22.62	23 LBS.
30"	34.70	28.91	28.67	34.50	0.25	0.50	29.25*	27 LBS.
36"	41.00	36.00	35.75	40.85	0.25	0.50	34.50	PROPOSED

***DIMENSION IS FOR STANDARD PIPE**

FULL FACE REINFORCING RINGS

THE MOSITES FULL FACE REINFORCING RING, WITH EITHER A METAL OR VINYL ESTER INSERT PROVIDES A POSITIVE SEAL AGAINST NON-METALLIC FLANGES WITHOUT CONCERN FOR DAMAGE DUE TO OVER TORQUING OF THE FLANGE BOLTS. INSTALLATION AND ALIGNMENT IS FAST, SAVING DOWNTIME AND LABOR COST DUE TO BROKEN FLANGES.

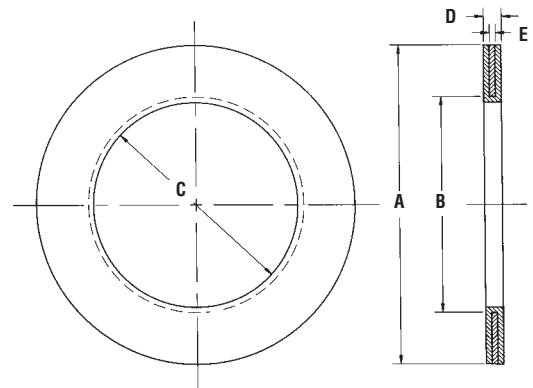


FULL FACE REINFORCING RING										
FLANGE SIZE	A	B	C	D	E	F	G	H	J	WEIGHT LBS
						INSERT	INSERT	INSERT	INSERT	
1/2"	3.63	0.50	4@0.63	0.69	2.38	3.50	0.38	1.00	0.75	1 LB. 4 OZ.
3/4"	3.88	0.75	4@0.63	0.69	2.75	3.75	0.38	1.25	0.75	1 LB. 7 OZ.
1"	4.38	1.00	4@0.63	0.69	3.13	4.25	0.38	1.50	0.75	1 LB. 11 OZ.
1-1/2"	5.13	1.50	4@0.63	0.75	3.88	5.00	0.38	2.00	0.88	2 LBS.
2"	6.13	2.00	4@0.75	0.75	4.75	6.00	0.50	2.38	0.88	3 LBS. 1 OZ.
3"	7.63	3.00	4@0.75	0.75	6.00	7.50	0.50	3.38	0.88	5 LBS. 1 OZ.
4"	9.13	4.00	8@0.75	0.75	7.50	9.00	0.50	4.38	0.88	7 LBS. 8 OZ.
5"	10.00	5.05	8@0.88	0.75	8.50	9.75	0.50	5.50	0.95	8 LBS. 12 OZ.
6"	11.13	6.00	8@0.88	0.81	9.50	11.00	0.63	6.38	1.00	10 LBS. 4 OZ.
8"	13.63	8.00	8@0.88	0.81	11.75	13.50	0.63	8.38	1.00	15 LBS. 10 OZ.
10"	16.13	10.00	12@1.00	1.00	14.25	16.00	0.75	10.38	1.13	20 LBS. 14 OZ.
12"	19.13	12.00	12@1.00	1.00	17.00	19.00	0.75	12.38	1.13	30 LBS. 14 OZ.
14"	21.00	14.00	12@1.13	1.00	18.75	21.00	0.75	14.38	1.25	39 LBS. 8 OZ.
16"	23.63	16.00	16@1.13	1.00	21.25	23.50	0.75	16.38	1.25	46 LBS.
18"	25.13	18.00	16@1.25	1.00	22.75	25.00	0.75	18.38	1.38	49 LBS.
20"	27.55	20.00	20@1.25	1.00	25.00	27.50	0.75	20.38	1.38	56 LBS.
24"	32.05	24.00	20@1.38	1.00	29.50	32.00	0.75	24.38	1.50	71 LBS.
30"	38.88	30.00	28@1.38	1.00	36.00	38.75	0.75	30.38	1.50	PROPOSED
36"	46.13	36.00	32@1.63	1.00	42.75	46.00	0.75	36.38	1.75	PROPOSED

ENVELOPE GASKET



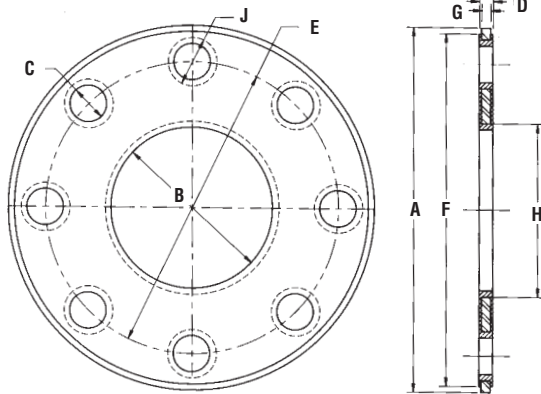
THE MOSITES ENVELOPE GASKET PROVIDES A POSITIVE SEAL AND WILL NOT FOLD ON INSTALLATION. THE OUTSIDE DIAMETER IS THE SAME AS THE CIRCLE FORMED BY THE FLANGE BOLTS, THUS INSURING THE MOSITES ENVELOPE GASKET IS PROPERLY ALIGNED WHEN THE JOINT IS MADE UP.



ENVELOPE GASKET						
FLANGE SIZE	A	B INSERT	C	D	E INSERT	WEIGHT LBS
1/2"	1.75	0.75	0.63	0.19	0.06	2 OZ.
3/4"	2.25	1.00	0.88	0.19	0.06	3 OZ.
1"	2.41	1.25	1.13	0.19	0.06	4 OZ.
1-1/4"	2.78	1.50	1.38	0.19	0.06	4.5 OZ.
1-1/2"	3.13	1.75	1.63	0.19	0.06	5 OZ.
2"	4.00	2.38	2.13	0.19	0.06	8 OZ.
3"	5.25	3.55	3.33	0.19	0.06	9.5 OZ.
4"	6.75	4.56	4.33	0.19	0.06	11 OZ.
6"	8.63	6.59	6.36	0.25	0.13	14 OZ.
8"	10.88	8.53	8.30	0.25	0.13	1 LB. 7 OZ.
10"	13.25	10.38	10.05	0.25	0.13	2 LBS. 5 OZ.
12"	16.00	12.38	12.13	0.25	0.13	3 LBS.
14"	17.63	13.25	13.00	0.25	0.13	PROPOSED
16"	20.13	15.25	15.00	0.25	0.13	PROPOSED
18"	21.50	17.25	17.00	0.31	0.13	PROPOSED
20"	23.55	19.00	18.75	0.31	0.13	6 LBS.
24"	27.90	22.88	22.63	0.31	0.13	9 LBS.
30"	34.50	28.91	28.66	0.31	0.13	12 LBS.
36"	40.75	35.50	35.75	0.31	0.13	19 LBS.

FULL FACE ENVELOPE GASKET

THE MOSITES FULL FACE ENVELOPE GASKET, WHICH INCORPORATES A METAL INSERT, ALLOWS INSERTION BETWEEN TWO FLANGES WITHOUT FOLDING. THE FULL FACE SURFACE ENGAGEMENT PROVIDES A POSITIVE SEAL, AND THE INCORPORATION OF THE FLANGE BOLT PATTERN ASSURES RAPID INSTALLATION AND ALIGNMENT.



FULL FACE ENVELOPE GASKET										
FLANGE SIZE	A	B	C	D	E	F	G	H	J	WEIGHT LBS
1"	4.25	1.13	4@0.63	0.19	3.13	4.00	0.06	1.25	0.88	7 OZ.
1-1/2"	5.13	1.50	4@0.75	0.19	3.88	5.00	0.06	1.75	0.88	9 OZ.
2"	6.00	2.07	4@0.75	0.19	4.75	5.75	0.06	2.25	1.00	12 OZ.
3"	7.50	3.31	4@0.75	0.19	6.00	7.25	0.06	3.56	1.00	1 LB.
4"	9.00	4.13	8@0.75	0.19	7.50	8.63	0.06	4.56	1.00	1 LB. 4 OZ.
6"	11.00	6.35	8@0.88	0.25	9.50	10.75	0.13	6.59	1.13	2 LBS. 8 OZ.
8"	13.50	8.30	8@0.88	0.25	11.75	13.13	0.13	8.56	1.13	4 LBS.
10"	16.00	10.08	12@1.00	0.25	14.25	15.63	0.13	10.41	1.25	5 LBS. 8 OZ.
12"	19.00	12.03	12@1.00	0.25	17.00	18.65	0.13	12.41	1.25	8 LBS. 7 OZ.
14"	21.00	14.00	12@1.13	0.25	18.75	20.75	0.13	14.25	1.25	11 LBS. 10 OZ.
16"	23.52	16.00	16@1.13	0.25	21.25	23.75	0.13	16.13	1.25	14 LBS. 2 OZ.
18"	25.00	18.00	16@1.25	0.31	22.75	24.75	0.13	18.25	1.50	PROPOSED
20"	27.50	20.00	20@1.25	0.31	25.00	27.25	0.13	20.25	1.50	PROPOSED
24"	32.00	24.00	20@1.38	0.31	29.50	31.75	0.13	24.25	1.63	PROPOSED
30"	38.75	29.25	28@1.38	0.31	36.00	38.50	0.13	29.50	1.63	PROPOSED
36"	41.00	36.00	32@1.63	0.31	42.75	45.75	0.13	35.50	1.88	PROPOSED

MOSITES VALVE LININGS

CHEMICAL RESISTANCE GUIDE

CHEMICAL	BUNA-N	CPE*	NEOPRENE*	EPDM	NATURAL	VITON*
Acetaldehyde	X	C	C	A	C	C
Acetic acid, 20%	C	A	A	A	B	C
Acetic acid, 30%	C	A	A	A	B	C
Acetic acid, glacial	C	A	C	B	C	C
Acetic anhydride	B	A	A	T	C	C
Acetone	X	A	B	A	B	C
Acetylene	A	-	B	A	A	A
Aluminum chloride solutions	A	A	A	A	A	A
Aluminum sulfate solutions	A	A	A(158°F)	A	A	A
Ammonia, anhydrous	B	A	A	T	A	C
Ammonium chloride solutions	A	A	A	A	A	A
Ammonium hydroxide solutions	B	A	A(158°F)	A	B	A
Ammonium sulfate solutions	A	A	A(158°F)	A	A	A
Amyl acetate	X	C	C	A	C	C
Amyl alcohol	B	A	A(158°F)	A	A	A(212°F)
Aniline	-	B	C	A-B	-	A-B
Aniline	-	-	-	-	-	B(158°F)
Aniline	-	-	-	-	-	C(300°F)
ASTM oil #1	A	A	A	C	X	A(300°F)
ASTM oil #3	A	A	B(158°F)	C	X	A(350°F)
ASTM reference fuel A	A	A	A	C	X	A
ASTM reference fuel B	A	B	C	C	X	A
ASTM reference fuel C	-	C	C	C	X	A
ASTM reference fuel C	-	-	-	-	-	-
Asphalt	A	-	B	X	X	A(400°F)
Barium hydroxide solutions	A	A	A(158°F)	A	A	A
Beer	C	A	A	A	A	A
Benzaldehyde	X	C	C	B	X	C
Benzene	X	C	C	C	-	B(158°F)
Benzoyl chloride	X	-	C	C	X	B
Borax solutions	B	A	A(158°F)	A	A	A
Boric acid solutions	A	A	A(158°F)	A	A	A
Bromine, anhydrous liquid	X	B	C	C	X	B(212°F)
Butane	A	A	A	B	X	A
Butyl acetate	X	B	C	X	X	C
Butyraldehyde	X	B	B-C	B	X	C
Butyric acid	C	E	C	X	C	T
Calcium bisulfite solutions	A	A	A(158°F)	T	A	A
Calcium chloride solutions	A	A	A	A	A	A
Calcium hydroxide solutions	A	A	A(158°F)	A	A	A
Calcium hypochlorite, 5%	X	A	B	A	X	A
Calcium hypochlorite, 20%	X	A	B	A	X	B(158°F)
Carbon bisulfide	C	C	C	T	X	A
Carbon dioxide	A	A	A	T	A	A
Carbon monoxide	A	A	A	T	A	T
Carbon tetrachloride	C	C	C	C	X	A
Castor oil	A	A	A(158°F)	B	B	A
Chlorine gas, dry	X	B	B	X	X	A(212°F)
Chlorine gas, wet	X	X	C	X	X	B
Chloroacetic acid	X	A	A	A	X	C

*Concentrations of aqueous solutions, unless specified, are understood to be saturated. Temperatures, unless specified, are understood to be room temperature.

For resistance of linings not shown, consult factory.

CHEMICAL	BUNA-N	CPE*	NEOPRENE*	EPDM	NATURAL	VITON*
Chlorobenzene	X	X	X	X	X	A
Chloroform	X	X	C	C	X	A
Chlorosulfonic acid	X	-	C	C	X	C
Chromic acid, 10-50%	X	A	C	C	X	A
Citric acid solutions	B	A	A	A	A	A
Copper chloride solutions	A	A	A	A	B	A
Copper sulfate solutions	A	A	A	A	C	A
Cottonseed oil	A	A	A	A-B	X	A(300°F)
Creosote oil	A	-	C	C	X	A(212°F)
Cyclohexane	B	A	C	C	X	A
Dibutyl phthalate	X	C	C	A	X	B
Diethyl sebacate	X	B	C	B	X	B
Diocetyl phthalate	X	-	C	B	X	B
DOWTHERM A	X	C	B	C	X	A(212°F)
DOWTHERM A	-	-	-	-	-	B(400°F)
Epichlorohydrin	X	-	-	B	X	C(122°F)
Ethyl acetate	X	B	C	A	X	C
Ethyl acetate	-	-	-	B(158°F)	-	-
Ethyl alcohol	A	A	A(158°F)	A	A	A
Ethyl chloride	X	-	C	B	B	A
Ethyl ether	B	A	C	C	X	C
Ethylene dichloride	X	C	C(120°F)	B(120°F)	X	A-B(120°F)
Ethylene glycol	A	A	A(158°F)	A	A	A(250°F)
Ethylene oxide	X	X	X	X	X	C(158°F)
Ferric chloride solutions	A	A	A	A	A	A
Fluosilicic acid	B	A	A(158°F)	T	A	T
Formaldehyde, 40%	B	A	A	A	B	A
Formaldehyde, 40%	-	-	C(158°F)	-	-	-
Formic acid	X	A	A	A	X	C(158°F)
FREON*-11	A	A	A-B	C	X	A-B
FREON*-11	-	-	B(130°F)	-	-	T(130°F)
FREON*-12	B	A	A	B	X	A-B
FREON*-12	-	-	A(130°F)	-	-	B(130°F)
FREON*-22	X	A	A	C	X	C
FREON*-22	-	-	A(130°F)	-	-	X(130°F)
FREON*-113	B	A	A	C	X	A
FREON*-113	-	-	A(130°F)	-	-	T(130°F)
FREON*-114	A	A	A	C	A	B
FREON*-114	-	-	T(130°F)	-	-	-
Furtural	X	A	B	B	X	C(158°F)
Gasoline	A	B	B	B-C	X	A
Glue	A	A	A(158°F)	A	B	A
Glycerin	A	A	A(158°F)	A	A	A(250°F)
n-Hexane	A	A	A	C	X	A
Hydrazine	B	-	-	A	-	C
Hydrochloric acid, 20%	B	A	A	T	A	A
Hydrochloric acid, 20%	-	-	-	-	-	A(230°F)
Hydrochloric acid, 37%	B	A	A	A-B	A	A(158°F)
Hydrochloric acid, 37%	-	-	-	-	-	-
Hydrochloric acid, 37%	-	-	C(200°F)	-	-	B(230°F)
Hydrocyanic acid	B	A	A	A	B	A
Hydrofluoric acid, 48%	X	A	A	B	X	A
Hydrofluoric acid, 75%	X	A	B	C	X	B(158°F)
Hydrofluoric acid, anhydrous	X	A	B	C	X	A

A - Little or no effect. B - Minor to moderate effect.

C - Severe effect to complete destruction.

T - Test before using. No data but most likely to be satisfactory.

X - No data but most likely to be unsatisfactory.

*Reg. TM of DuPont Dow Elastomers

MOSITES VALVE LININGS

CHEMICAL RESISTANCE GUIDE

CHEMICAL	BUNA-N	CPE*	NEOPRENE*	EPDM	NATURAL	VITON*
Hydrogen	A	A	A	A	B	A
Hydrogen peroxide, 90%	X	A	B	T	X	A
Hydrogen peroxide, 90%	-	-	-	-	-	C(270°F)
Hydrogen sulfide	X	A	A	A	X	B(270°F)
Isooctane	A	A	A	X	X	A
Isopropyl alcohol	B	A	A	T	A	A
Isopropyl ether	X	B	C	C	X	C
JP-4	A	C	C	C	X	A(400°F)
JP-5	A	C	C	C	X	A(400°F)
JP-6	A	C	C	C	X	A(100°F)
JP-6	-	-	-	-	-	C(550°F)
Kerosene	A	A	C	C	X	A(158°F)
Kerosene	-	-	-	-	-	B(400°F)
Lacquer solvents	X	X	C	C	X	C
Lactic acid	X	A	A	A	X	A
Linseed oil	A	A	A	B	X	A
Lubricating oils	A	B	B(158°F)	C	X	A(158°F)
Magnesium chloride solutions	A	A	A(158°F)	A	A	A
Magnesium hydroxide solutions	B	A	A(158°F)	A	A	A
Mercuric chloride solutions	A	A	A	A	B	A
Mercury	A	A	A	A	A	A
Methyl alcohol	A	A	A(158°F)	A	A	B
Methyl ethyl ketone	X	C	C	A	X	C
Methylene chloride	X	C	C(100°F)	B	X	B(100°F)
Mineral oil	A	A	A	C	X	A
Naphtha	A	A	C	C	X	A(158°F)
Naphthalene	X	C	C(176°F)	C	X	A(176°F)
Nitric acid, 10%	X	A	B	B	X	A
Nitric acid, 30%	X	A	C	B	X	A
Nitric acid, 30%	X	X	-	C(158°F)	X	-
Nitric acid, 60%	X	X	C	C	X	A
Nitric acid, 70%	X	X	C	C	X	A
Nitric acid, 70%	-	-	-	-	-	B(100°F)
Nitric acid, red fuming	X	X	C	C	X	B
Nitric acid, red fuming	-	-	-	-	-	C(158°F)
Nitrobenzene	X	C	C	A	X	B
Oleic acid	B	B	B	B	X	B
Oleum, 20-25%	X	B	C	C	X	A
Palmitic acid	A	A	B(158°F)	B	C	A
Perchloroethylene	X	C	C	C	X	A(212°F)
Phenol	X	E	C	B	X	A(212°F)
Phenol	-	-	-	-	-	B(300°F)
Phosphoric acid, 20%	-	A	B	A	B	A
Phosphoric acid, 60%	B	A	B	A	-	A(212°F)
Phosphoric acid, 70%	-	A	B	A	C	A
Phosphoric acid, 85%	X	A	B	A	C	A
Picking solution (20% nitric acid, 4% HF)	X	A	C	C	C	A
Picking solution (17% nitric acid, 4% HF)	X	A	C	C	C	A
Picking solution (17% nitric acid, 4% HF)	-	-	-	-	-	C(225°F)
Picric acid	B	A	A	B	A	A
Potassium dichromate solutions	A	A	A	A	X	A

*Concentrations of aqueous solutions, unless specified, are understood to be saturated. Temperatures, unless specified, are understood to be room temperature.

A - Little or no effect. B - Minor to moderate effect.
 C - Severe effect to complete destruction.
 T - Test before using. No data but most likely to be satisfactory.
 X - No data but most likely to be unsatisfactory.
 *Reg. TM of DuPont Dow Elastomers
 For resistance of linings not shown, consult factory.

CHEMICAL	BUNA-N	CPE*	NEOPRENE*	EPDM	NATURAL	VITON*
Potassium hydroxide, dilute solutions	C	A	A(158°F)	A	B	A
Pydraul 312C	X	-	C	C	-	A
Pyridine	-	-	C	B	-	C
SAE #10 oil	A	-	C	C	X	A
Sea water	A	A	A	A	A	A
Silicone grease	A	A	A	A	B	A
SKYDROL 500	X	B	C	A(250°F)	X	C
Soap solutions	A	A	A(158°F)	A(212°F)	B	A
Sodium chloride solutions	A	A	A	A	A	A
Sodium dichromate, 20%	-	A	B	A	X	A
Sodium hydroxide, 20%	C	A	A	A	A	A
Sodium hydroxide, 46 1/2%	C	A	A	A	-	A
Sodium hydroxide, 46 1/2%	C	-	A(158°F)	-	-	C(100°F)
Sodium hydroxide, 50%	C	A	A	A	-	C
Sodium hydroxide, 73%	-	-	A	A	-	C
Sodium hypochlorite, 5%	C	A	A	A	C	A
Sodium hypochlorite, 20%	X	A	B	A	X	B(158°F)
Sodium peroxide solutions	B	A	A	A	B	A
Soybean oil	A	A	A	C	X	A(250°F)
Stannic chloride	A	A	B	-	A	A
Stannous chloride, 15%	-	A	A(158°F)	B	-	A
Steam (see water)	-	-	A	A(350°F)	-	B(300°F)
Steam	-	-	-	-	-	-
Stearic acid	-	-	B(158°F)	B	X	T
Styrene	X	X	C	C	X	A
Sulfur, molten	B	A	A	A	X	A(250°F)
Sulfur dioxide, liquid	X	A	A	A	B	T
Sulfur dioxide, gas	-	A	A	A	-	T
Sulfur trioxide	X	-	C	B	X	T
Sulfuric acid, up to 50%	C	A	A(158°F)	B	B	A
Sulfuric acid, 50-80%	-	A	B-C	C	C	A
Sulfuric acid, 60%	-	-	B	C	-	A(250°F)
Sulfuric acid, 90%	-	-	C	C	-	A(158°F)
Sulfuric acid, 95%	-	-	C	C	-	A
Sulfuric acid, 95%	-	-	-	-	-	A(158°F)
Sulfuric acid, fuming (20% oleum)	-	-	C	C	-	A
Sulfurous acid	X	A	C	C	-	C
Tannic acid, 10%	-	A	A	A	A	A
Tartaric acid	B	A	A(158°F)	B	A	A
Tetrahydrofuran	X	-	C	C	X	C
Toluene	X	-	C	C	X	B(100°F)
Tributyl phosphate	X	-	C	C	X	C(212°F)
Trichloroethylene	X	C	C	C	X	A
Trichloroethylene	-	-	-	-	-	B(158°F)
Tricresyl phosphate	X	A	C	A(212°F)	C	A(300°F)
Triethanolamine	B	A	A(158°F)	A	B	C
Trisodium phosphate solutions	A	A	A	A	A	A
Tung oil	A	A	A	C	X	A
Turpentine	B	B	C	C	X	A(158°F)
Water	A	A	A(158°F)	A(158°F)	A	(158°F)
Water	-	A	A(212°F)	A(212°F)	-	A(212°F)
Xylene	X	X	C	C	X	A
Xylene	-	-	-	-	-	B(158°F)
Zinc chloride solutions	B	A	A	A	B	A

*Reg. U.S. Pat. & Tm. Off.

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Media Valve Company, Inc. warrants the Mosites Butterfly Valve to be free of defects in material and workmanship for a period of one year after being placed in service, but not to exceed 18 months from date of shipment. Warranty against erosion, corrosion, and chemical attack is not included. All materials are guaranteed to be as described.

Valves must be installed in accordance with all items on installation instructions. Notice of any defect or nonconformity shall be given by the buyer in writing to the seller within 12 months after receipt of order.

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