SM1 Series Data Sheet

SESTO VALVES
A Brand of Max-Air Technology.

3-Way 1000 WOG

Sanitary Ball Valve



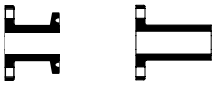
Features:

- CF3M/316L Stainless Steel
- Blowout Proof Stem
- Live-Loaded Packing
- Tri-Clamp Standard, other connections available
- Cavity Filled PTFE Seats Standard
- 3A Compliant
- Polished to Ra 0.8µm or Better
- ISO 5211 Direct Mount Pad for Easy Automation
- FDA Compliant Actuation Available
- 1000 WOG Body Rating
- L + T Port Balls Available

Certifications & Compliance

Testing: API 598, ISO 5208
Design: ISO 5211
Markings: MSS-SP-25
Certifications: 3A

End Connections



Tri-clamp (TC)

Tube Weld End (TE)

Actuator Material Options

Max-Air actuators provide precise, reliable quarter-turn control ideal for sanitary ball valve applications, featuring compact, corrosion-resistant designs that support washdown environments while delivering consistent torque and dependable automation.

MT Series



Anodized Aluminum
Standard Service

MT Series Epoxy



Aluminum w/ Epoxy
Light Washdown

MT Series ENP



Aluminum w/ Electroless Nickel Plating
Acidic Service
Medium Washdown

MT Series LockMesh



Reinforced Fluoropolymer Coated Aluminum
Full Washdown

SS Series



Stainless Steel
FDA Compliant
Full Washdown

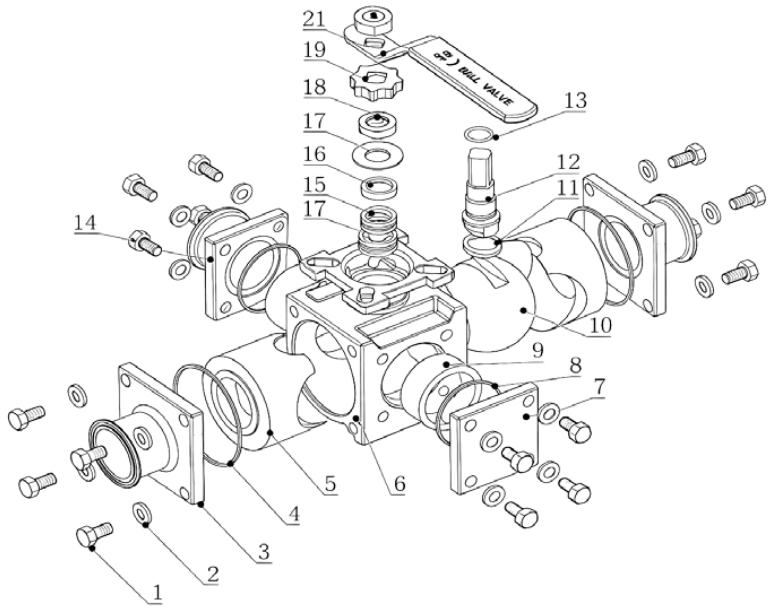
Torques (in-lbs)*

Size	in/lbs
1/2"	99
3/4"	125
1"	196
1-1/2"	372
2"	775
2-1/2"	1050
3"	1700
4 "	2500

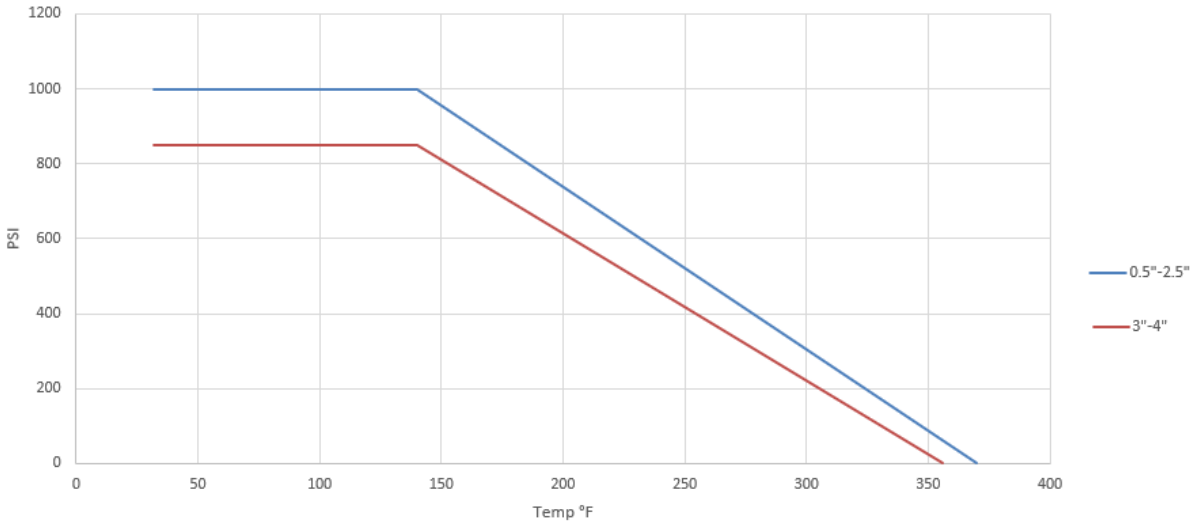
*Raw torques shown. Minimum 30% safety factor should be added for actuator sizing.

Bill of Materials

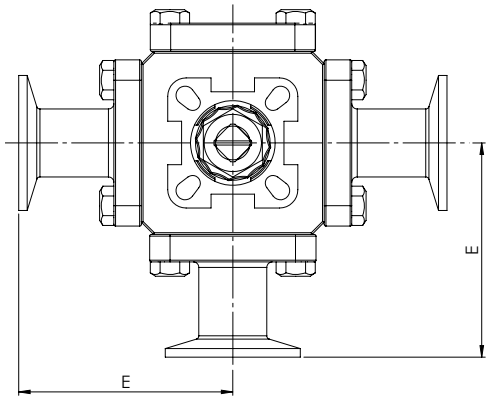
#	DESCRIPTION	QTY	MATERIALS
1	Bolt	16	304
2	Washer	16	304
3	End Cap	2	316L/CF3M
4	Body Seat	2	PTFE
5	Cavity Fillers	2	PTFE
6	Body	1	316L/CF3M
7	Cap	1	316L/CF3M
8	Body Seat	2	PTFE
9	Seat	2	PTFE
10	Ball	1	316L/CF3M
11	Thrust Washer	1	PTFE
12	Stem	1	316L
13	O-Ring	2	EPDM
14	Cap	1	316L/CF3M
15	Stem Packing	1	PTFE
16	Gland Follower	2	SS304
17	Spring Washer	1	304
18	Hex Nut	1	304
19	Stem Nut Lock	1	304
16	Handle	2	304
20	Handle Nut	1	304

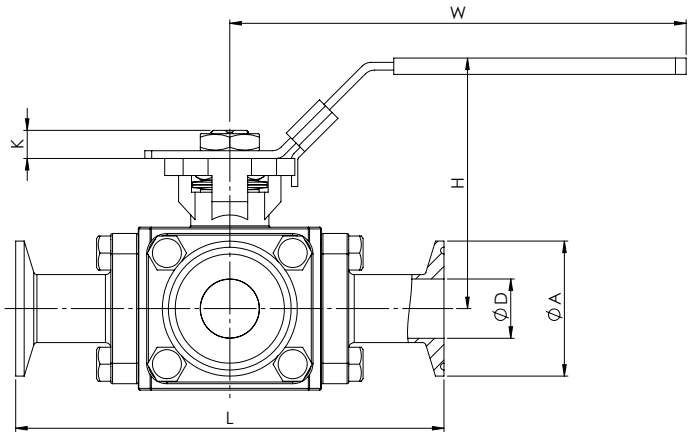


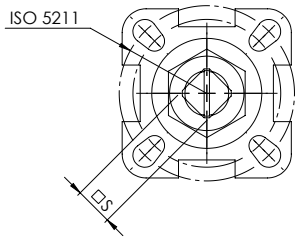
Pressure Temperature Chart



Dimensional Data







Dimensional Data (in)

Size	L	ØD	ØA	E	H	W	□S	K	ISO 5211
in	in	in	in	in	in	in	in	in	
1/2"	4.33	0.37	0.99	2.17	3.50	6.65	0.354	0.35	F03/F04
3/4"	4.69	0.62	0.99	2.34	3.50	6.65	0.354	0.35	F03/F04
1"	6.00	0.87	1.99	3.00	4.02	6.65	0.433	0.43	F05/F07
1-1/4"	6.30	1.12	1.99	3.15	4.02	8.39	0.433	0.43	F05/F07
1-1/2"	7.50	1.37	1.99	3.75	5.00	8.39	0.551	0.55	F05/F07
2"	8.50	1.87	2.52	4.25	5.47	8.39	0.669	0.67	F07/F10
2-1/2"	9.45	2.37	3.05	4.72	6.52	8.39	0.669	0.67	F07/F10
3"	12.00	2.87	3.58	6.00	6.69	19.69	1.063	1.06	F10/F12
4"	13.00	3.83	4.69	6.38	7.60	19.69	1.063	1.06	F10/F12

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Cv Values

V-Port

Size	V-Port	Percent Open (Angle of Rotation)										
		0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
		(0°)	(9°)	(18°)	(27°)	(36°)	(45°)	(54°)	(63°)	(72°)	(81°)	(90°)
1/2"	30°	0	0.1	0.1	0.2	0.4	0.6	0.9	1.2	1.6	2	2.4
	60°	0	0.1	0.2	0.4	0.7	1	1.5	2.1	2.8	3.7	5
	90°	0	0.2	0.2	0.6	1.1	1.8	2.7	3.7	4.9	6.3	8.1
3/4"	30°	0	0.1	0.1	0.3	0.4	0.7	0.9	1.3	1.8	2.4	3.2
	60°	0	0.2	0.3	0.6	1	1.6	2.2	2.9	3.9	5	6.5
	90°	0	0.3	0.4	0.9	1.6	2.6	3.7	5.2	6.9	8.8	11.2
1"	15°	0	0	0	0.2	0.7	1.4	2.2	3.2	4.5	6	8
	30°	0	0.1	0.3	0.8	1.3	2.3	3.5	5.1	8.5	9.8	10
	60°	0	0.2	0.4	1.1	1.8	3.4	5.3	7.9	12.3	15.3	21
	90°	0	0.2	0.6	1.8	3.4	5.1	8.1	11.4	16	21	29
1 1/4"	15°	0	0	0.03	0.6	1.4	2.4	3.6	5.2	7.1	9.4	12
	30°	0	0.2	0.4	1.1	2	3.7	5.5	8	10	13	15
	60°	0	0.2	0.6	1.8	3	5.5	9.5	12.8	19	26	39
	90°	0	0.3	0.8	2	5	8	14	19	28	39	55
1 1/2"	15°	0	0	0.3	1.2	2.4	3.9	5.7	7.9	10.7	14	18.1
	30°	0	0.3	0.6	1.6	3	5	7.5	11	14	17	20
	60°	0	0.4	0.8	2.5	4	8	13	19	27	40	52
	90°	0	0.4	0.9	3.5	7	13	20	31	42	63	78
2"	15°	0	0	0.8	2.4	4.4	7	10.2	14.1	18.8	24.4	30.9
	30°	0	0.4	1.2	3.8	6	10	15	23	31	43	60
	60°	0	0.4	1.5	4.6	9	16.5	27	39	55	83	110
	90°	0	0.5	2	6	12	22	35	45	70	105	135
2 1/2"	15°	0	0	0.8	3.9	7.1	11.2	16.2	22.3	29.8	38.3	48.1
	30°	0	0.4	1	4	8	12	18	28	37	62	75
	60°	0	0.4	1.5	5	10	21	34	53	75	103	150
	90°	0	0.5	1.7	7	14	28	48	70	106	160	218
3"	15°	0	0.4	1	3.9	7.5	13	20	31	41	58	72.2
	30°	0	1.1	1.6	3.7	7.2	11.6	17.6	24.7	32.4	42.3	52.9
	60°	0	1.3	1.9	6.3	12.7	20.4	32.2	47.9	67	93.1	122
	90°	0	2.1	3	9.4	19.1	28.6	47.3	73.9	112.5	162	225
4"	15°	0	0.5	1.5	5	14	25	41.5	56.4	74.7	94.5	118.9
	30°	0	0.6	2	6	15	29	48	71	100	130	159
	60°	0	0.7	3	11	25	40	59	90	141	212	356
	90°	0	1	3.5	16	40	75	125	190	265	442	670

Full Port

Size	Cv
1/4"	7
3/8"	10
1/2"	15
3/4"	35
1"	68
1-1/4"	110
1-1/2"	155
2"	300
2-1/2"	500
3"	600
4"	1015

SM1 Series Data Sheet



SM1C Series Part # Builder

A - Figure	-	B- Size	-	C - Body	D - Trim	E - Type	F - Seat	-	G - Operator	-	H - Special
SM1C	-	01	-	S	6	L	T	-	L	-	C

*Note: 1) Not all combinations available, and special solutions not shown are possible. Please call factory for details. 2) Max-Air Technology reserves the right to change or modify products without prior notice & without incurring any obligation to make such changes on products previously or subsequently sold.

Example Part # SM1C-01-S6LT-L-C

EXAMPLE DESCRIPTION: 1" SM1C SERIES MULTIPORT SANITARY L-PORT BALL VALVE, TRI-CLAMP ENDS, CF3M SS BODY & L-PORT BALL, 316LSS STEM, CAVITY FILLED PTFE SEATS, ISO5211 DIRECT MOUNT, LIVE-LOADED PACKING, W/ LOCKING LEVER HANDLE

A - SERIES			
CODE	TYPE	RATING	CONNECTION
SM1C	*3PC SANITARY BALL VALVE, 1000/368 PSI, TRI-CLAMP*	*1000/368 PSI*	*SANITARY TRI-CLAMP*
SM1T	*3PC SANITARY BALL VALVE, 1000/368 PSI, TUBE WELD END*	*1000/368 PSI*	*TUBE WELD END*

B - SIZE		
CODE	ANSI	DIN
0M	1/2"	15
0T	3/4"	20
01	1"	25
1M	1-1/2"	40
02	2"	50
2M	2-1/2"	65
03	3"	80
04	4"	100

C - BODY
S - STAINLESS STEEL ASTM A351 CF3M/316L

D - TRIM	E - BALL TYPE	F - SEATS
6 - ASTM A351 CF3M / 316L SS BALL AND STEM	*0 - FULL PORT* *V - V-PORT BAL* *T - T PORT* *L - L PORT*	*T - PTFE*

G - OPERATOR	H - SPECIAL
L - LOCKING LEVER *G - GEAR OPERATOR*	*C - CAVITY FILLED SEATS (STANDARD)*