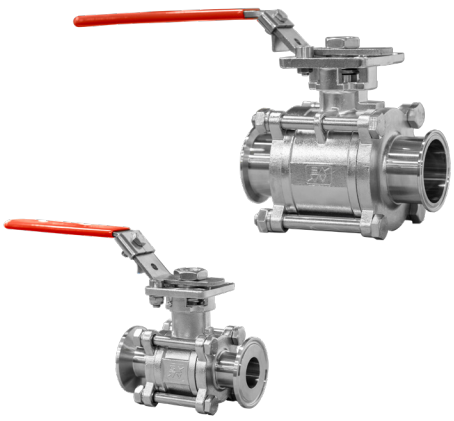
S31 Series Data Sheet

SESTO VALVES
A Brand of Max-Air Technology.

3-Pc 1000 WOG

Sanitary Ball Valve



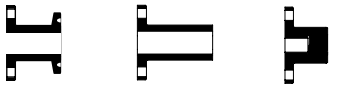
Features:

- 316/316L Stainless Steel
- Blowout Proof Stem
- Live-Loaded Packing
- Tri-Clamp Standard, other connections available
- TFM-1600 Seats Standard
- Cavity Filled Seats Available
- Cavity Filled Seats Available
- 3A Compliant Available
- Polished to Ra 0.8µm or Better
- ISO 5211 Direct Mount Pad for Easy Automation
- FDA Compliant Actuation Available
- 1000 WOG Body Rating

Certifications & Compliance

Testing: API 598, ISO 5208
Design: ISO 5211, ASME BPE/BS 4825
Markings: MSS-SP-25
Certifications: 3A Available

End Connections



Tri-clamp (TC) | *Tube Weld End (TE)* | *Threaded (NPT)*

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

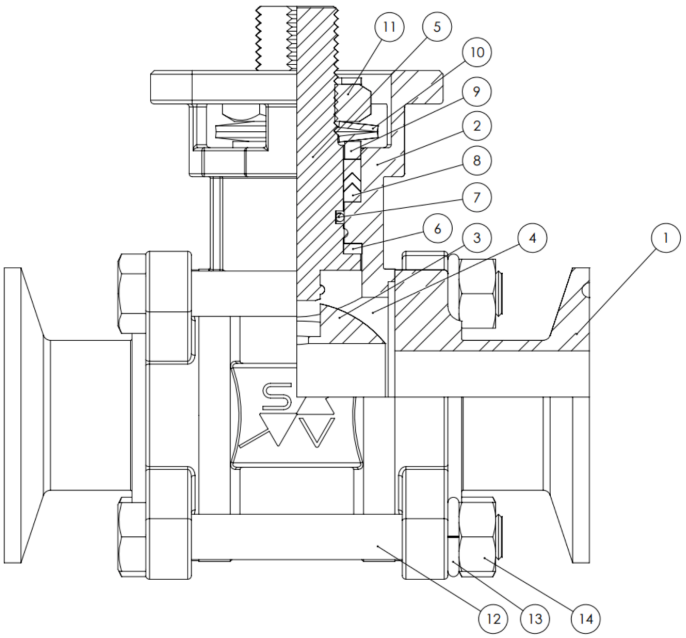
Torques (in-lbs)*

Size	in/lbs
1/2"	45
3/4"	71
1"	89
1-1/2"	177
2"	310
2-1/2"	354
3"	531
4 "	841

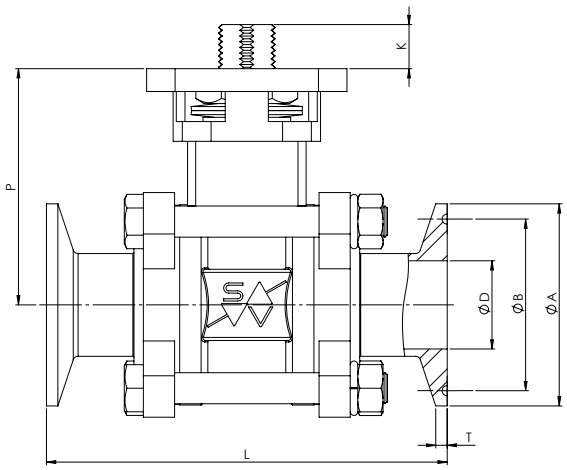
*Raw torques shown. Minimum 30% safety factor should be added for actuator sizing.

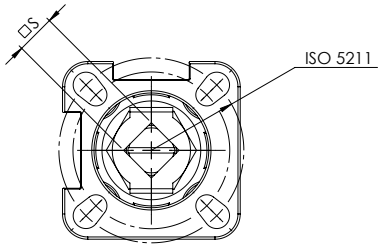
Bill of Materials

#	DESCRIPTION	QTY	MATERIALS
1	Cap	2	CF8M/CF8
2	Boby	1	CF8M/CF8
3	Ball	1	CF8M/CF8
4	Seat	2	TFM1600/50-50/PTFE
5	Stem	1	316
6	Thrust Washer	1	PTFE
7	O-Ring	1	VITON
8	Stem Packing	1	PTFE
9	Ring	1	304
10	Belleville Washer	2	301
11	Stem Nut	1	304
12	Bolt	4-6	304
13	Bolt Washer	4-6	304
14	Bolt Nut	4-6	304

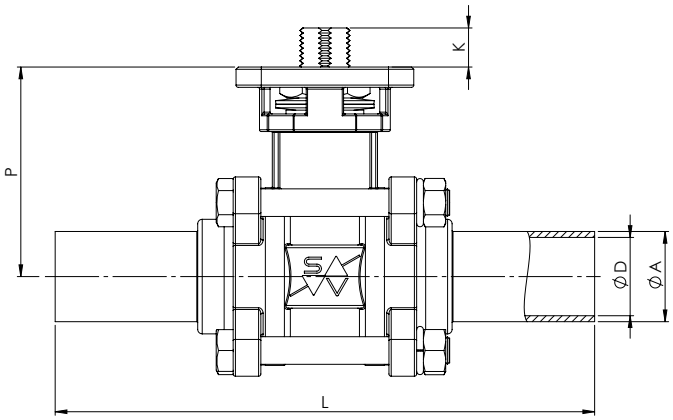


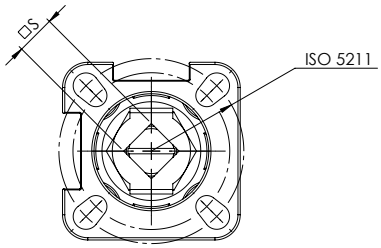
Dimensional Data





Tri-Clamp (TC)



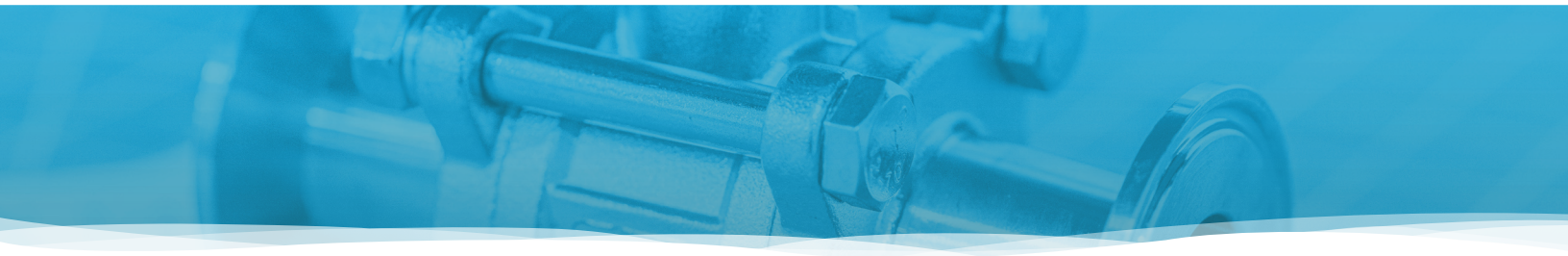


Tube Weld End (TW)

Dimensional Data (in)

Size	ØD	L (TC)	L (TW)	ØA (TC)	ØA (TW)	P	K	ØB	□S	T	ISO 5211
in	in	in	in	in	in	in	in	in	in	in	
1/2"	0.37	3.50	6.00	1.00	0.50	1.52	0.35	0.80	0.354	0.15	F03/F04
3/4"	0.62	4.00	6.00	1.00	0.75	1.87	0.35	0.80	0.354	0.15	F03/F04
1"	0.87	4.50	6.50	1.99	1.00	2.32	0.43	1.71	0.433	0.11	F04/F05
1-1/2"	1.37	5.50	8.00	1.99	1.50	3.11	0.55	1.71	0.551	0.11	F05/F07
2"	1.87	6.25	8.50	2.52	2.00	3.41	0.55	2.22	0.551	0.11	F05/F07
2-1/2"	2.37	7.00	8.75	3.05	2.50	4.30	0.67	2.78	0.669	0.11	F07/F10
3"	2.87	9.00	9.13	3.58	3.00	4.61	0.67	3.29	0.669	0.11	F07/F10
4"	3.84	9.50	9.75	4.69	4.00	5.35	0.87	4.33	0.866	0.11	F10/F12

S31 Series Data Sheet



S31C Series Part # Builder

A - Figure	-	B- Size	-	C - Body	D - Trim	E - Type	F - Seat	-	G - Operator	-	H - Special
S31C	-	01	-	S	6	0	F	-	L	-	-

*Note: body rated to 1000 WOG but clamps only rated to 25 bar (368 PSIG), 1" size & larger.

Example Part # S31C-01-S60F-L

EXAMPLE DESCRIPTION: 1" S31C SERIES 3PC SANITARY BALL VALVE, TRI-CLAMP ENDS, CF8M SS BODY & BALL, 316SS STEM, TFM1600 SEATS, ISO5211 DIRECT MOUNT, LIVE-LOADED PACKING, W/ LOCKING LEVER HANDLE

A - FIGURE	B - SIZE		C - BODY
S31C - *3PC SANITARY BALL VALVE, 1000/368 PSI, TRI-CLAMP* **S31T -** *3PC SANITARY BALL VALVE, 1000/368 PSI, TUBE WELD END* **S31N -** *3PC SANITARY BALL VALVE, 1000 PSI, NPT*	*0M - 1/2"* *0T - 3/4"* *01 - 1"* *1M - 1 1/2"* *02 - 2"*	*2M - 2 1/2"* *03- 3"* *04 - 4"*	*S - STAINLESS STEEL ASTM A351 CF8M* *E - ASTM A351 CF8M BODY, ASTM A351 CF3M BW ENDS*

D - TRIM	E - TYPE	F - SEATS	G - OPERATOR	H - SPECIAL
6 - 316 SS BALL / 316 SS STEM	*0 - STANDARD*	*T - PTFE* *F - TFM 1600* *S - 50/50*	*L - LOCKING LEVER* *G - GEAR OPERATOR*	*C - CAVITY FILLED SEATS*

*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.