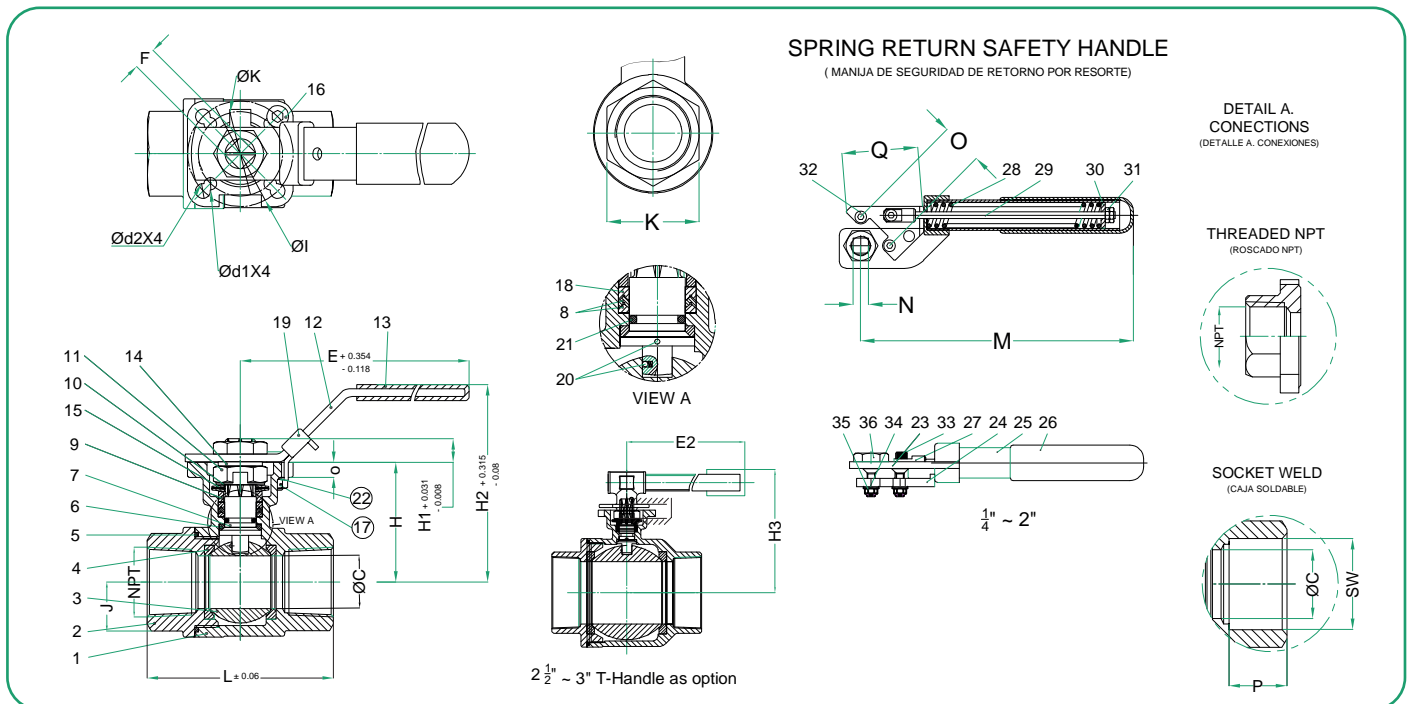


Features / Design



- 1.- Two-Pieces Direct Mount High Performance Ball Valve.
- 2.- Full port, minimizes pressure drop and prolong life.
- 3.- Investment cast body construction.
- 4.- Pressure Rating: 1,000 PSI Max.
- 5.- Patented ISO 5211 Direct Mount Pad allows direct mounting of pneumatic and electric actuators (no brackets and coupling are required).
- 6.- Easy and Low Cost for automated service and extremely high cycle life.
- 7.- TFV Triple – Sealing Stem (High Cycle) Stem Packing System – live loaded maintenance free – extra long cycle life – TA-Luft approved.
- 8.- Double Anti-Static Device (stem to ball and stem to body) as standard & Blow-Out proof stem.
- 9.- Wide range of valve (body) and seat materials available.
- 10.- Inspection and testing according to API 598.
- 11.- Locking Device as standard.
- 12.- End connection: Threaded (NPT) ASME B1.20.1 and Socket Weld (SW) ASME B16.11.
- 13.- Manufactured in ISO 9001 approved facility.



Material List

POS	DESCRIPTION	MATERIAL
1	BODY	A216 WCB / A351 CF8M
2	END CAP	A216 WCB / A351 CF8M
3	BALL	1/2", 3/4", 1" ASTM 182 F316 1/4", 3/8", 1 1/4" ASTM A351 CF8M
4	SEAT	R-PTFE
5	JOIN GASKET	PTFE
6	STEM SEAL	R-PTFE
7	STEM	ASTM A276 SS316
8	CHEVRON PACKING	PTFE
9	GLAND	AISI 304
10	LOCK SADDLE	AISI 304
11	STEM NUT	AISI 304
12	HANDLE	AISI 304
13	HANDLE SLEEVE	VINYL
14	STEM WASHER	AISI 304
15	BELLEVILLE WASHER	AISI 301
16	STOP PIN	AISI 304
17	PIN NUT	AISI 304
18	STEM PACKING	25% GLASS FIBER FILLED + PTFE
19	LOCKING DEVICE	SS304
20	ANTISTATIC DEVICE	SS316
21	O-RING	VITON
22	WASHER	AISI 304
23	HANDLE PAD	SS304
24	TRIANGLE PAD	SS304
25	TUBE	SS304
26	HANDLE SLEEVE	VINYL
27	SUB. SHAFT	SS304
28	SPRING	1/4" ~ 1 1/4" SWP 1 1/2" ~ 2" CARBON STEEL
29	SHAFT	SS304
30	WASHER	SS304
31	NUT	A194 2HM / A194 8M
32	BOLT	A193 B7M / A193 B8M
33	SCREW	SS304
34	WASHER	SS304
35	NUT	A194 2HM A194 8M
36	STEM NUT	A194 2HM A194 8M

Dimensions

SIZE	C (in)	d1 (in)	d2 (in)	E (in)	E2 (in)	K (in)	J (in)	F (in)	H (in)	H1 (in)	H2 (in)	H3 (in)	NPT (in)	SW (in)	P (in)	I (in)	K (in)	L ^(*) (in)	ISO5211
1/4"	0.453	0.236	0.236	5.472	/	1.023	0.728	0.354	1.520	0.260	2.913	/	1/4"	0.567±0.008	0.374	1.654	1.417	2.559	F03/F04
3/8"	0.492	0.236	0.236	5.472	/	1.023	0.728	0.354	1.520	0.260	2.913	/	3/8"	0.701±0.008	0.374	1.654	1.417	2.559	F03/F04
1/2"	0.591	0.236	0.236	5.472	/	1.023	0.728	0.354	1.520	0.260	2.913	/	1/2"	0.866±0.008	0.374	1.654	1.417	2.559	F03/F04
3/4"	0.787	0.236	0.236	5.472	/	1.259	0.846	0.354	1.815	0.280	3.228	/	3/4"	1.078±0.008	0.492	1.654	1.417	2.937	F03/F04
1"	0.984	0.256	0.276	6.496	/	1.574	1.023	0.433	2.228	0.429	3.780	/	1"	1.342±0.008	0.492	1.969	1.654	3.465	F04/F05
1 1/4"	1.260	0.256	0.276	6.496	/	1.929	1.240	0.433	2.402	0.429	3.937	/	1 1/4"	1.689±0.008	0.492	1.969	1.654	4.016	F04/F05
1 1/2"	1.496	0.295	0.354	8.465	/	2.204	1.437	0.551	3.051	0.547	5.000	/	1 1/2"	1.929±0.008	0.492	2.756	1.969	4.331	F05/F07
2"	1.969	0.295	0.354	8.465	/	2.755	1.787	0.551	3.354	0.547	5.276	/	2"	2.419±0.010	0.630	2.756	1.969	4.921	F05/F07
2 1/2"	2.559	0.394	0.472	10.354	11.929	3.425	2.122	0.669	4.280	0.661	6.575	6.551	2 1/2"	2.919±0.010	0.630	4.016	2.756	6.323	F07/F10
3"	3.150	0.394	0.472	12.323	14.685	4.094	2.748	0.669	4.622	0.713	6.890	6.893	3"	3.545±0.010	0.630	4.016	2.756	7.008	F07/F10

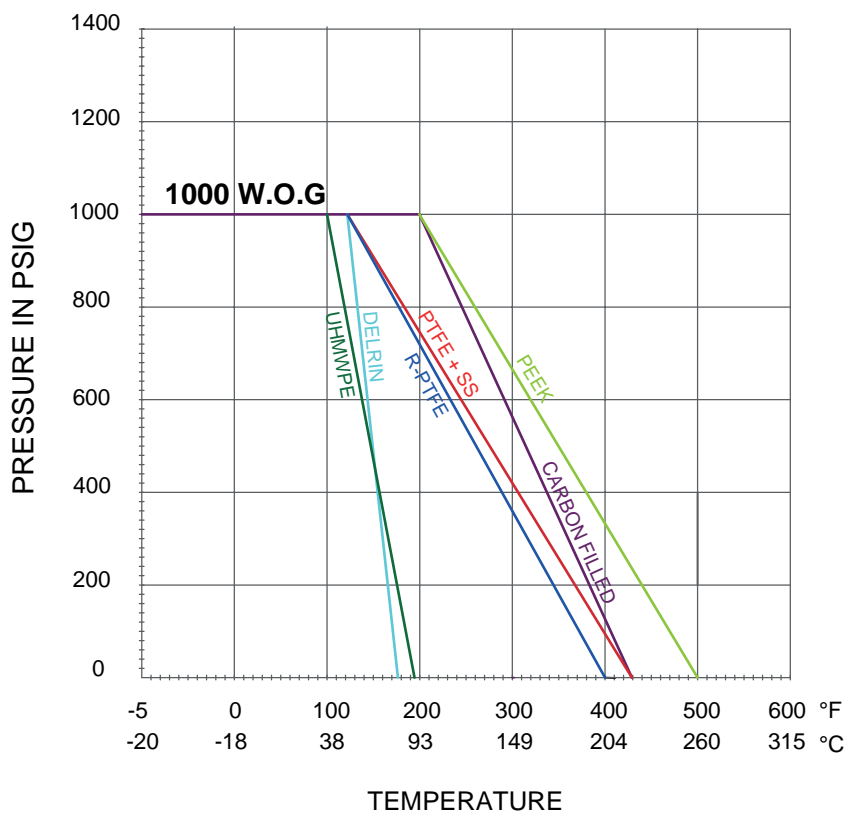


Dimensions

Cv, Torque, Weight & Safety Spring Handle Data (Inches)

NPS (in)	M (in)	N̄ (in)	O (in)	Q (in)	CV (USGAL/min)	TORQUE ⁽²⁾ (Lb*in) R-PTFE	Weight ⁽³⁾ (lb)	Weight ⁽⁴⁾ (SR Handle) (lb) Note 2
1/4"	7.677	0.354	1.169	1.673	7.000	58.000	1.168	0.858
3/8"	7.677	0.354	1.169	1.673	8.000	58.000	1.124	0.858
1/2"	7.677	0.354	1.169	1.673	15.000	58.000	1.000	0.858
3/4"	7.677	0.354	1.169	1.673	40.000	69.000	1.300	0.858
1"	7.677	0.433	1.390	1.720	70.000	127.000	2.400	0.869
1 1/4"	7.677	0.433	1.390	1.720	110.000	161.000	3.300	0.869
1 1/2"	7.677	0.551	1.949	2.154	250.000	230.000	5.600	1.653
2"	7.677	0.551	1.949	2.154	430.000	323.000	7.900	1.653
2 1/2"	/	/	/	/	7000.000	484.000	16.400	/
3"	/	/	/	/	1100.000	772.000	22.800	/

Pressure-Temperature chart



How to Order

CLASS	SERIES VALVE BODY DESIGN	MATERIAL			ENDS	SIZE		OPERATION
		BODY	TRIM	SEAT				
1 1000 WOG	2M Full Port Ball Valve 2 Pcs Design ISO 5211 Mk	2 WCB	3 316SS	P PTFE	T Threaded	0.25	1/4"	L Manual Lever Operator
			3 CF8M	3 304SS	R R-PTFE	S Socket Weld	0.38	3/8"
				U UHMWPE		0.5	1/2"	S Spring Return Safety Handle
				S 5050 SS Filled PTFE		0.75	3/4"	SR Spring Return Sliding Lock
				C Carton Filled PTFE		01	1"	O Oval Handle
				M MG1241		01.25	1 1/4"	X Economical Stem Extension
				D DELRIN		01.5	1 1/2"	B Bare Shaft
				K PEEK		02	2"	P Pneumatic Actuator
				B NBR		02.5	2 1/2"	E Electric Actuator
						03	3"	

Example:

Full Port Ball Valve ISO 5211 Mounting Pad, Body & Trim 316SS, Seats: PTFE,
Ends: Threaded, 1/2" 1000# WOG with Lever and Locking Device.

12M23PT0.5C



Notes:

- (1) Face to face for threaded NPT and socketweld valves.
- (2) The torque es measured based on the conditions of with 30% safety factor, with grease, at 0 bar pressure and ambient temperature.
- (3) The weight change depending on the type of lever .
- (4) Spring safety handle weight.