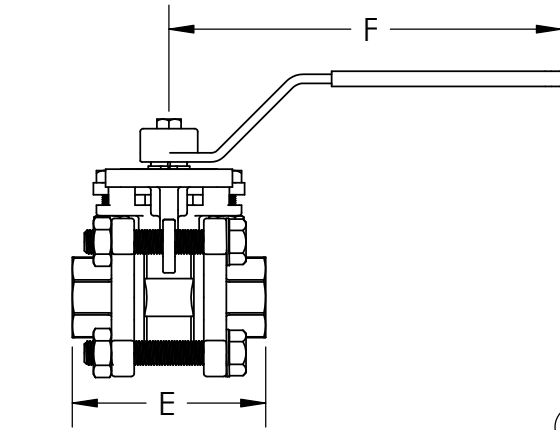
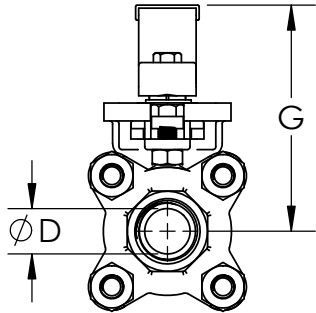
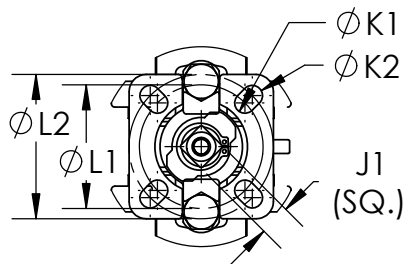
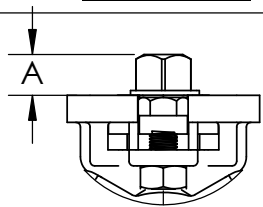


*AT FULL DIFFERENTIAL PRESSURE FOR CLEAN FLUIDS WITH PTFE SEATS;
TORQUE VALUES DO NOT INCLUDE SAFETY FACTORS



TOPWORKS



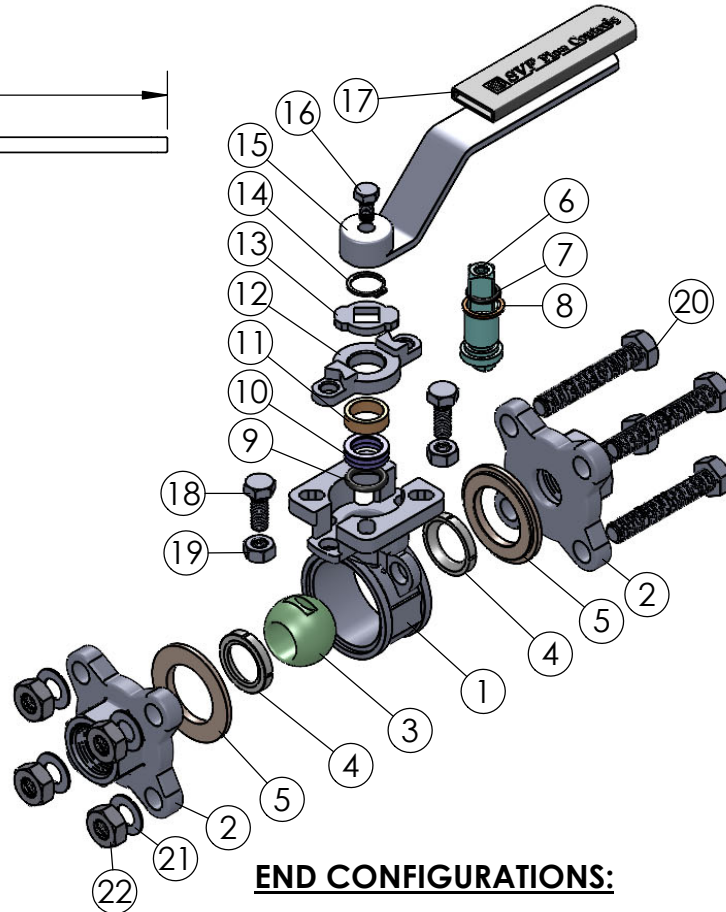
SIZE	A	øD	E	F	G	J1 (SQ.)	øK1	øK2	øL1	øL2	øM	NPT THREAD	ISO 5211	WEIGHT (lbs)	Cv	TORQUE* (in-lb)	BODY BOLT SIZE	BODY NUT SIZE
1/4"	0.35 (9)	0.47 (12)	2.48 (63)	4.92 (125)	2.91 (74)	0.35 (9)	0.24 (6)	0.24 (6)	1.42 (36)	1.65 (42)	0.55 (14)	1/4"-18NPT	F03-F04	1.6	6	18	5/16" x 48	5/16"
3/8"	0.35 (9)	0.51 (13)	2.48 (63)	4.92 (125)	2.91 (74)	0.35 (9)	0.24 (6)	0.24 (6)	1.42 (36)	1.65 (42)	0.71 (18)	3/8"-18NPT	F03-F04	1.6	7	18	5/16" x 48	5/16"
1/2"	0.35 (9)	0.59 (15)	2.48 (63)	4.92 (125)	2.91 (74)	0.35 (9)	0.24 (6)	0.24 (6)	1.42 (36)	1.65 (42)	0.87 (22)	1/2"-14NPT	F03-F04	1.6	10	27	5/16" x 48	5/16"
3/4"	0.35 (9)	0.79 (20)	2.87 (73)	4.92 (125)	3.07 (78)	0.35 (9)	0.24 (6)	0.24 (6)	1.42 (36)	1.65 (42)	1.06 (27)	3/4"-14NPT	F03-F04	1.8	25	53	5/16" x 53	5/16"
1"	0.43 (11)	0.98 (25)	3.35 (85)	6.10 (155)	3.50 (89)	0.43 (11)	0.24 (6)	0.28 (7)	1.65 (42)	1.97 (50)	1.34 (34)	1"-11.5NPT	F04-F05	2.6	35	75	5/16" x 63	5/16"
1-1/4"	0.43 (11)	1.26 (32)	3.78 (96)	6.10 (155)	3.70 (94)	0.43 (11)	0.24 (6)	0.28 (7)	1.65 (42)	1.97 (50)	1.69 (43)	1-1/4"-11.5NPT	F04-F05	4.0	46	106	3/8" x 75	3/8"
1-1/2"	0.55 (14)	1.50 (38)	4.49 (114)	7.28 (185)	4.33 (110)	0.55 (14)	0.28 (7)	0.35 (9)	1.97 (50)	2.76 (70)	1.93 (49)	1-1/2"-11.5NPT	F05-F07	6.4	80	212	3/8" x 88	3/8"
2"	0.55 (14)	1.97 (50)	5.28 (134)	7.28 (185)	4.65 (118)	0.55 (14)	0.28 (7)	0.35 (9)	1.97 (50)	2.76 (70)	2.40 (61)	2"-11.5NPT	F05-F07	8.6	110	274	3/8" x 102	3/8"
2-1/2"	0.67 (17)	2.56 (65)	7.08 (180)	13.86 (352)	6.33 (161)	0.67 (17)	0.35 (9)	0.43 (11)	2.76 (70)	4.02 (102)	3.03 (77)	2-1/2"-8NPT	F07-F10	18.1	310	425	1/2" x 145	1/2"
3"	0.67 (17)	3.15 (80)	7.87 (200)	13.86 (352)	6.69 (170)	0.67 (17)	0.35 (9)	0.43 (11)	2.76 (70)	4.02 (102)	3.54 (90)	3" NPT	F07-F10	28.4	360	593	1/2" x 157	1/2"
4"	0.87 (22)	3.97 (100)	8.98 (228)	15.63 (397)	7.95 (202)	0.87 (22)	0.43 (11)	0.51 (13)	4.02 (102)	4.92 (125)	4.53 (115)	4" NPT	F10-F12	46.9	820	797	5/8" x 194	5/8"

PRODUCT INFORMATION:

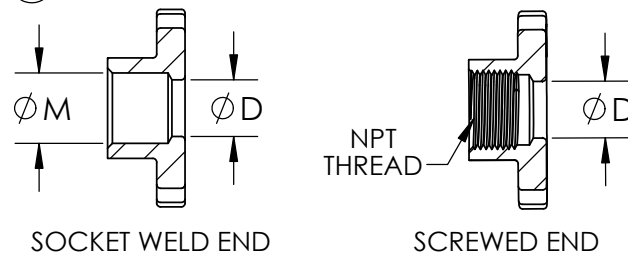
1. END CONNECTIONS AVAILABLE IN: SCREWED ENDS (FNPT) AND SOCKET WELD ENDS
2. ANTI-STATIC DEVICE
3. BALL IS VENTED ON THE STEM SLOT AREA
4. BLOW-OUT PROOF STEM
5. SOCKET WELD ENDS INCLUDE ADDITIONAL PTFE BODY SEALS
6. ADJUSTABLE STEM SEAL GLAND
7. COMPLETE VALVE AUTOMATION

APPLICABLE STANDARDS:

1. ASME B16.34: DESIGN
2. API 598: INSPECTION AND TESTING
3. ANSI B1.20.1: NPT
4. ISO 5211: MOUNTING
5. CGA G-4.1: CLEANING FOR OXYGEN SERVICE
6. USP CLASS VI: CONFIRMATION OF COMPLIANCE (PTFE MATERIAL)



END CONFIGURATIONS:



ITEM NO.	DESCRIPTION	MATERIALS	QTY.
1	BODY	A351-CF8M	1
2	END	A351-CF8M	2
3	BALL	A351-CF8M	1
4	SEAT	PTFE	2
5	BODY SEAL	PTFE	2
6	STEM	A276-316	1
7	STEM O-RING	VITON	1
8	STEM THRUST WASHER	TFM4215	1
9	STEM SEAL	VITON	1
10	STEM PACKING	PTFE	3
11	GLAND FOLLOWER	304 STAINLESS STEEL	1
12	GLAND	A351-CF8	1
13	STOPPER	304 STAINLESS STEEL	1
14	SNAP RING	304 STAINLESS STEEL	1
15	LEVER HANDLE	A351-CF8	1
16	HANDLE BOLT	304 STAINLESS STEEL	1
17	HANDLE SLEEVE	PLASTIC	1
18	BOLT	304 STAINLESS STEEL	2
19	NUT	304 STAINLESS STEEL	2
20	BODY BOLT	304 STAINLESS STEEL	4
21	SPRING WASHER	304 STAINLESS STEEL	4
22	BODY NUT	304 STAINLESS STEEL	4

DRAWN BY E.P.	DATE 05/02/2017
CHECKED BY K.C.	DATE 08/07/2025
APPROVED BY J.S.	DATE 08/07/2025
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PROJECTION THIRD ANGLE:	

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DESCRIPTION: 1/4" - 4" E29B 3-PIECE DIRECT MOUNT BALL VALVE, FULL BORE		
UNITS: INCH (MILLIMETERS)	DATE: 08/07/2025	REV: E