

* FULL PORT VALVES
** AT FULL DIFFERENTIAL PRESSURE FOR CLEAN FLUIDS WITH
TFM1600 SEATS

SIZE	A	øB	C	øD	E	F	G	H1	øH2	J1	J2	K	øL	øM	øN	øO1	O2	NPT THREAD	ISO 5211	WEIGHT (lbs)	Cv	TORQUE** (in-lbf)	BODY BOLT SIZE	BODY NUT SIZE
1/4" *	0.21 (5)	1.0 (25)	0.37 (9)	0.44 (11)	2.60 (66)	5.0 (127)	1.8 (46)	1.5 (38)	1.8 (46)	0.22 (6)	0.37 (9)	M5-0.8	1.42 (36)	0.54 (14)	0.36 (9)	0.56 (14)	0.44 (11)	1/4"-18NPT	F03	2	3	45	M6 - 1.0 X 45	M6-1.0P
3/8" *	0.21 (5)	1.0 (25)	0.37 (9)	0.44 (11)	2.60 (66)	5.0 (127)	1.8 (46)	1.5 (38)	1.8 (46)	0.22 (6)	0.37 (9)	M5-0.8	1.42 (36)	0.68 (17)	0.49 (12)	0.69 (18)	0.44 (11)	3/8"-18NPT	F03	2	5	45	M6 - 1.0 X 45	M6-1.0P
1/2"	0.21 (5)	1.0 (25)	0.37 (9)	0.44 (11)	2.60 (66)	5.0 (127)	1.8 (46)	1.5 (38)	1.8 (46)	0.22 (6)	0.37 (9)	M5-0.8	1.42 (36)	0.84 (21)	0.62 (16)	0.86 (22)	0.44 (11)	1/2"-14NPT	F03	2	8	45	M6 - 1.0 X 45	M6-1.0P
3/4"	0.23 (6)	1.0 (25)	0.37 (9)	0.56 (14)	2.81 (71)	5.0 (127)	1.9 (48)	1.5 (38)	1.8 (46)	0.22 (6)	0.37 (9)	M5-0.8	1.42 (36)	1.05 (27)	0.82 (21)	1.07 (27)	0.56 (14)	3/4"-14NPT	F03	2	12	45	M6 - 1.0 X 50	M6-1.0P
1"	0.34 (9)	1.2 (30)	0.70 (18)	0.81 (20)	3.70 (94)	6.0 (152)	2.4 (61)	1.7 (43)	2.1 (53)	0.30 (8)	0.43 (11)	M5-0.8	1.65 (42)	1.32 (34)	1.05 (27)	1.33 (34)	0.56 (14)	1"-11.5NPT	F04	4	32	100	M8 - 1.25 X 65	M8-1.25P
1-1/4"	0.34 (9)	1.2 (30)	0.93 (24)	1.00 (25)	4.25 (108)	6.0 (152)	2.6 (66)	1.7 (43)	2.1 (53)	0.30 (8)	0.43 (11)	M5-0.8	1.65 (42)	1.66 (42)	1.38 (35)	1.68 (43)	0.53 (13)	1-1/4"-11.5NPT	F04	5	57	130	M8 - 1.25 X 75	M8-1.25P
1-1/2"	0.40 (10)	1.4 (36)	1.18 (30)	1.25 (32)	4.57 (116)	7.0 (178)	3.2 (81)	2.1 (53)	2.6 (66)	0.34 (9)	0.56 (14)	M6-1.0	1.97 (50)	1.90 (48)	1.61 (41)	1.92 (49)	0.53 (13)	1-1/2"-11.5NPT	F05	7	80	280	M10 - 1.5 X 85	M10-1.5P
2"	0.40 (10)	1.4 (36)	1.18 (30)	1.50 (38)	5.04 (128)	7.0 (178)	3.3 (84)	2.1 (53)	2.6 (66)	0.34 (9)	0.56 (14)	M6-1.0	1.97 (50)	2.38 (60)	2.07 (53)	2.41 (61)	0.68 (17)	2"-11.5NPT	F05	11	104	360	M10 - 1.5 X 95	M10-1.5P
2-1/2"	0.42 (11)	1.4 (36)	1.22 (31)	2.00 (51)	5.95 (151)	11.0 (279)	3.4 (86)	2.1 (53)	2.6 (66)	0.34 (9)	0.56 (14)	M6-1.0	1.97 (50)	2.88 (73)	2.47 (63)	2.94 (75)	1.06 (27)	2-1/2"-8NPT	F05	17	240	560	M10 - 1.5 X 120	M10-1.5P

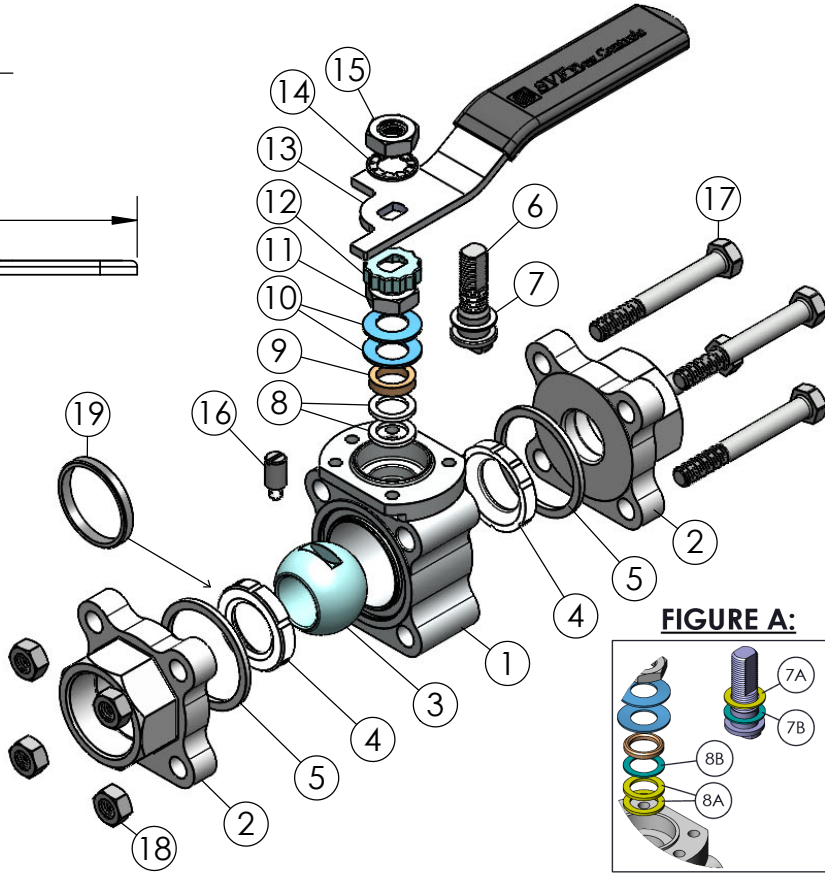
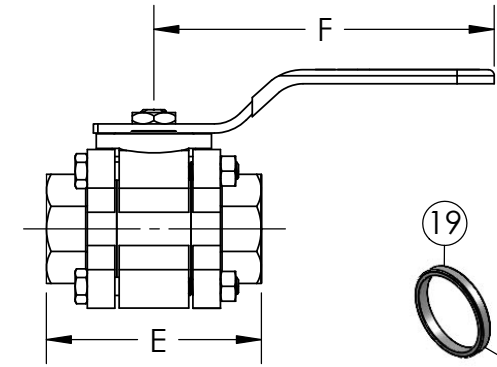
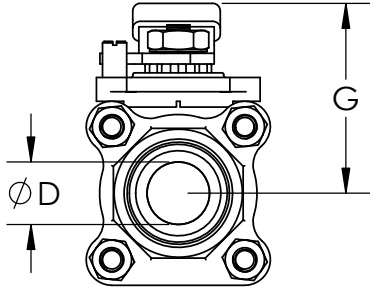
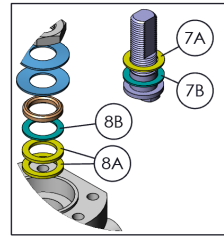
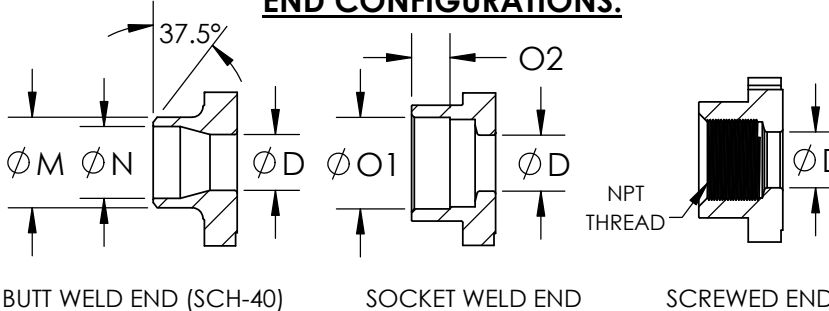


FIGURE A:



END CONFIGURATIONS:



PRODUCT INFORMATION:

1. END CONNECTIONS AVAILABLE IN: SCREWED (FNPT), SOCKET WELD, BUTT WELD, SCREWED x SOCKET WELD, SCREWED x BUTT WELD (SCH-40 OR SCH-10)
2. SERVICES INCLUDE: OXYGEN CLEANING, DEGREASING, VENT/RELIEF HOLE, AMMONIA SERVICE, HIGH CYCLE STEM KIT AND VACUUM & SEARCHING GAS STEM KIT
3. BALL IS VENTED ON THE STEM SLOT AREA
4. ALL STAINLESS STEEL PASSIVATED
5. MANGANESE PHOSPHATE COATING ON WCB CARBON STEEL
6. 2-1/2" R8 VALVE REQUIRES 17-4PH (ASTM A564-630) STEM AS STANDARD COMPONENT
7. COMPLETE VALVE AUTOMATION
8. SVF OFFERS VIRGIN PEEK THRUST WITH TFM SEALS FOR APPLICATIONS WHERE CARBON BLENDS ARE NOT ACCEPTABLE AS A WETTED COMPONENT. (SEE FIGURE A)

OPTIONS:

1. OVAL HANDLE
2. LOCKING DEVICE
3. ISO STEM EXTENSION
4. ANTI-STATIC DEVICE

APPLICABLE STANDARDS:

1. ASME B16.34: DESIGN
2. API 598: INSPECTION AND TESTING
3. ISO 5211: MOUNTING
4. ANSI B1.20.1: NPT
5. ANSI B16.11: FORGED STEEL FITTINGS, SOCKET-WELDING
6. ANSI B16.25: BUTT WELD ENDS
7. CGA G-4.1: CLEANING FOR OXYGEN SERVICE
8. USP CLASS VI: CONFIRMATION OF COMPLIANCE (TFM1600/PTFE MATERIAL)
9. ANSI CLASS 600 RATING APPLIES TO 1/4" - 2" R8 VALVES WITH TFM1600 SEATS

ITEM NO.	DESCRIPTION	MATERIALS				QTY.
1	BODY	A351-CF8M	A216-WCB	A351-CN7M	A494 CW-12MW	1
2	END	A351-CF3M	A216-WCB	A351-CN7M	A494 CW-12MW	2
3	BALL	A351-CF8M	A351-CN7M	B164-N0440	A494 CW-12MW	1
4	SEAT	TFM1600 DELRIN SUPRALON UHMWPE PEEK				2
5	BODY SEAL	PTFE SUPRALON UHMWPE BUNA "N" VITON EPDM				2
6	STEM	A276-316	A351-CN7M	B164-N0440	A564-630 A494 CW-12MW	1
7	STEM THRUST WASHER	SUPRALON DELRIN PEEK UHMWPE				1
7A	STEM THRUST WASHER	TFM1600				1
7B	STEM THRUST WASHER	VIRGIN PEEK				1
8	STEM SEAL	SUPRALON UHMWPE				2
8A	STEM SEAL	TFM1600				2
8B	STEM SEAL	VIRGIN PEEK				1
9	GLAND FOLLOWER	304 STAINLESS STEEL				1
10	BELLEVILLE WASHER	17-7 PH STAINLESS STEEL				2
11	JAM NUT	304 STAINLESS STEEL				1
12	LOCK TAB	304 STAINLESS STEEL				1
13	LEVER HANDLE	304 STAINLESS STEEL				1
14	SERRATED LOCK WASHER	304 STAINLESS STEEL				1
15	HANDLE NUT	304 STAINLESS STEEL				1
16	STOP PIN	304 STAINLESS STEEL				1
17	BODY BOLT	304 STAINLESS STEEL				4
18	BODY NUT	304 STAINLESS STEEL				4
19	SEAT RETAINER (2-1/2" ONLY)	316 STAINLESS STEEL				1

DRAWN BY E.P. DATE 04/04/2017
CHECKED BY K.C. DATE 09/04/2025
APPROVED BY J.S. DATE 09/04/2025
(FOR REF ONLY IF NOT APPROVED)

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SVF FLOW CONTROLS
5595 Fresca Drive • La Palma, CA 90623 • 1.800.783.7836
www.SVF.net • Sales@SVF.net

DESCRIPTION:
1/4" - 3/8" R8 3-PIECE BALL VALVE, FULL PORT &
1/2" - 2-1/2" R8 3-PIECE BALL VALVE, STANDARD PORT

UNITS: INCH (MILLIMETERS) DATE: 09/04/2025 REV: F

