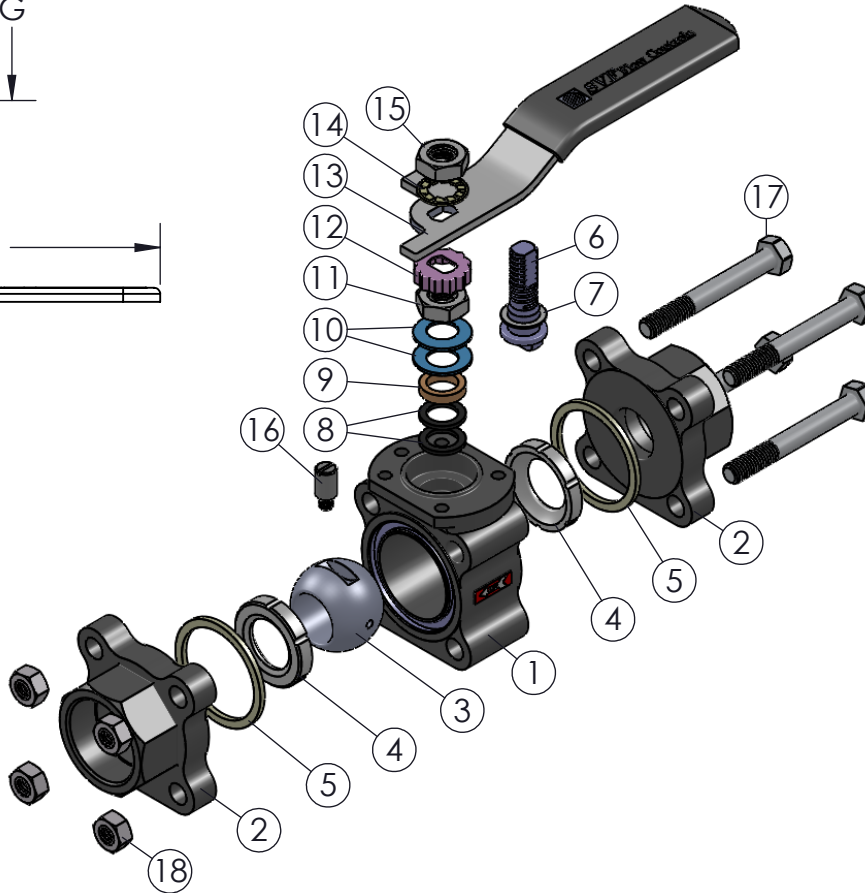
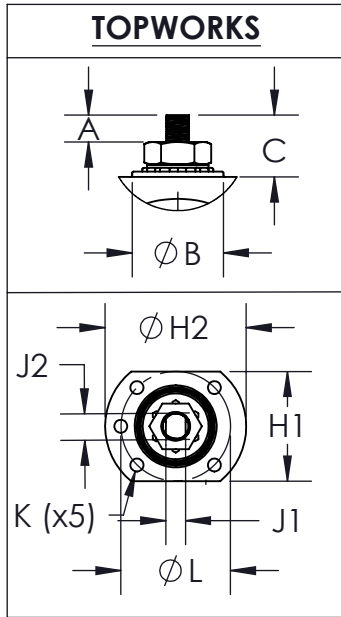
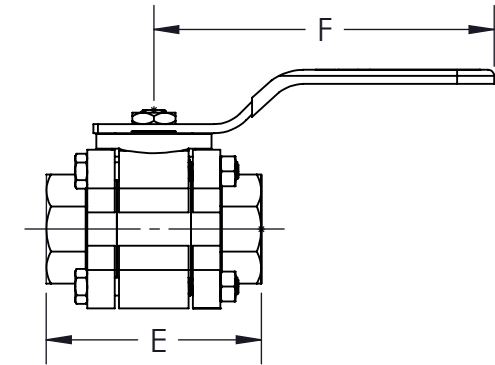
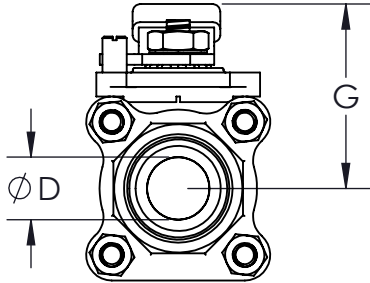
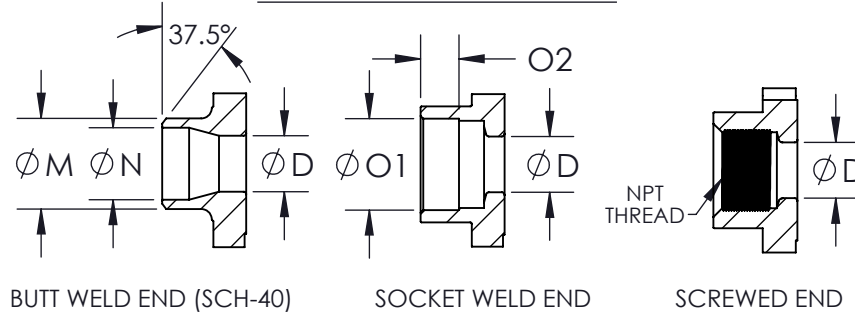


\* FULL PORT VALVES  
\*\* AT FULL DIFFERENTIAL PRESSURE FOR CLEAN FLUIDS WITH  
TFM1600 SEATS

| 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) | 0.82 (21) | 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      |



### END CONFIGURATIONS:



### PRODUCT INFORMATION:

1. END CONNECTIONS AVAILABLE IN: SCREWED (FNPT), SOCKET WELD AND BUTT WELD (SCH-40 OR SCH-10)
2. SERVICES INCLUDE: DRY CHLORINE (LIQUID OR GAS)
3. ARROW LOCATED ON THE BODY INDICATES DOWNSTREAM DIRECTION
4. BALL WITH RELIEF HOLE RELIEVES PRESSURE IN THE UPSTREAM DIRECTION WHEN CLOSED
5. BALL IS VENTED ON THE STEM SLOT AREA
6. MANGANESE PHOSPHATE COATING ON WCB CARBON STEEL
7. COMPLETE VALVE AUTOMATION

### OPTIONS:

1. OVAL HANDLE
2. LOCKING DEVICE
3. ISO STEM EXTENSION

### 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: SOCKET-WELDING
6. ANSI B16.25: BUTT WELD ENDS
7. USP CLASS VI: CONFIRMATION OF COMPLIANCE (TFM1600/PTFE MATERIAL)

| ITEM NO. | DESCRIPTION          | MATERIALS               | QTY. |
|----------|----------------------|-------------------------|------|
| 1        | BODY                 | A216-WCB                | 1    |
| 2        | END                  | A216-WCB                | 2    |
| 3        | BALL                 | B164-N0440 A494 CW-12MW | 1    |
| 4        | SEAT                 | TFM1600                 | 2    |
| 5        | BODY SEAL            | PTFE                    | 2    |
| 6        | STEM                 | B164-N0440 A494 CW-12MW | 1    |
| 7        | STEM THRUST WASHER   | SUPRALON                | 1    |
| 8        | STEM SEAL            | SUPRALON                | 2    |
| 9        | GLAND FOLLOWER       | 304 STAINLESS STEEL     | 1    |
| 10       | BELLEVILLE WASHER    | 17-7PH 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    |

DRAWN BY  
E.P.  
CHECKED BY  
E.G.  
APPROVED BY  
J.S.  
(FOR USE ONLY IF NOT APPROVED)

DATE  
05/30/2017  
DATE  
10/30/2017  
DATE  
10/30/2017

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PROJECTION  
THIRD ANGLE



**SVF Flow Controls**

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www.SVF.net • Sales@SVF.net

DESCRIPTION:  
1/4" - 3/8" C8 3-PIECE CHLORINE SERVICE VALVE, FULL PORT &  
1/2" - 2" C8 3-PIECE CHLORINE SERVICE VALVE, STANDARD PORT

UNITS: INCH (MILLIMETERS) DATE: 10/30/2017 REV: B