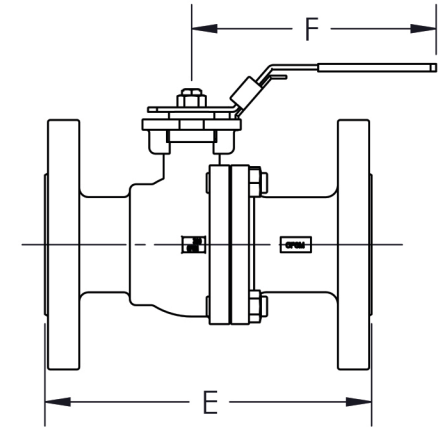
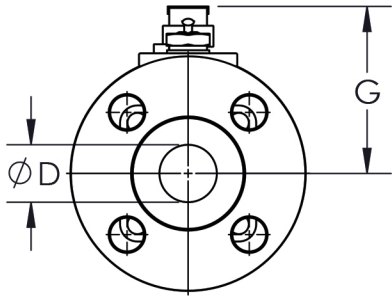
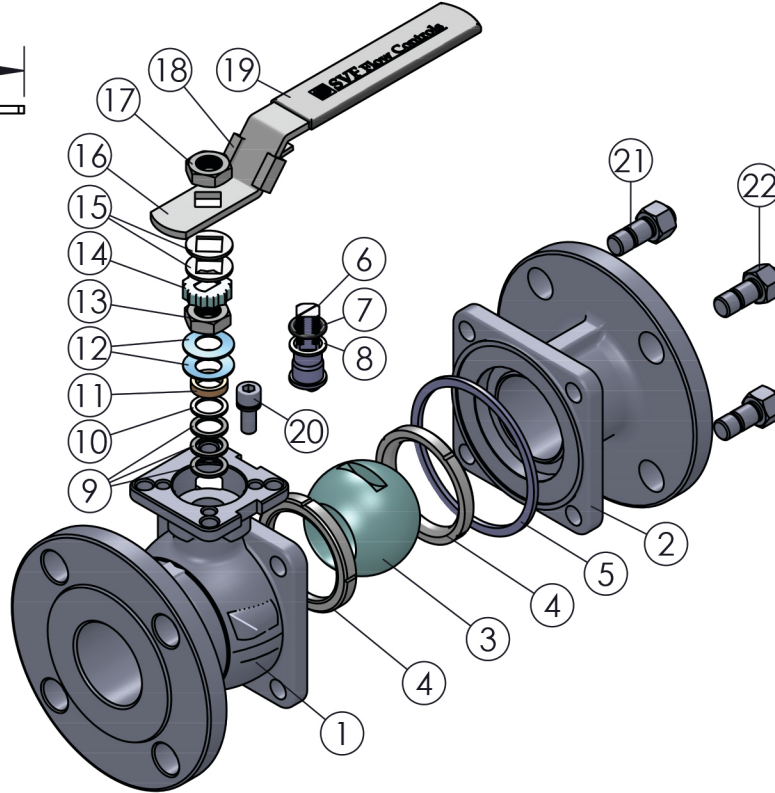
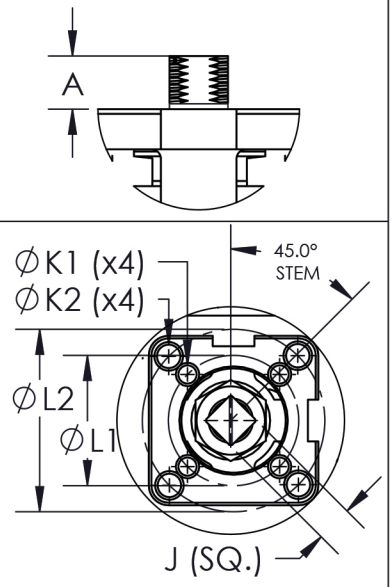


\*AT FULL DIFFERENTIAL PRESSURE (CONSULT OUR ENGINEERING DEPARTMENT FOR TORQUES ON 6" AND 8" TRUNNION DESIGN VALVES)

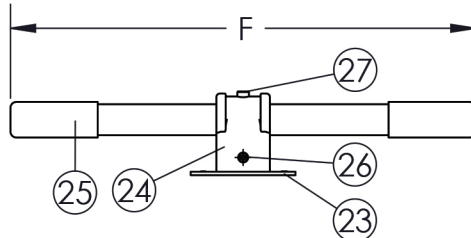
| SIZE   | A         | øD         | E           | F           | G           | J         | øK1       | øK2       | øL1        | øL2        | ISO 5211 | WEIGHT (lbs) | Cv   | TORQUE* (in-lbf) |         |          |
|--------|-----------|------------|-------------|-------------|-------------|-----------|-----------|-----------|------------|------------|----------|--------------|------|------------------|---------|----------|
|        |           |            |             |             |             |           |           |           |            |            |          |              |      |                  | TFM1600 | SUPRALON |
| 1/2"   | 0.36 (9)  | 0.59 (15)  | 5.50 (140)  | 5.30 (135)  | 3.10 (79)   | 0.35 (9)  | 0.24 (6)  | 0.24 (6)  | 1.42 (36)  | 1.65 (42)  | F03-F04  | 5            | 11   |                  | 63      | 90       |
| 3/4"   | 0.49 (12) | 0.79 (20)  | 6.00 (152)  | 5.30 (135)  | 3.50 (89)   | 0.35 (9)  | 0.24 (6)  | 0.24 (6)  | 1.42 (36)  | 1.65 (42)  | F03-F04  | 8            | 26   |                  | 76      | 109      |
| 1"     | 0.57 (14) | 0.98 (25)  | 6.50 (165)  | 6.70 (170)  | 3.70 (95)   | 0.43 (11) | 0.24 (6)  | 0.28 (7)  | 1.65 (42)  | 1.97 (50)  | F04-F05  | 10           | 42   |                  | 139     | 199      |
| 1-1/2" | 0.70 (18) | 1.50 (38)  | 7.50 (190)  | 7.90 (200)  | 4.30 (110)  | 0.55 (14) | 0.28 (7)  | 0.35 (9)  | 1.97 (50)  | 2.76 (70)  | F05-F07  | 19           | 120  |                  | 303     | 433      |
| 2"     | 0.59 (15) | 1.97 (50)  | 8.50 (216)  | 7.90 (200)  | 4.50 (115)  | 0.55 (14) | 0.28 (7)  | 0.35 (9)  | 1.97 (50)  | 2.76 (70)  | F05-F07  | 24           | 190  |                  | 443     | 633      |
| 2-1/2" | 0.67 (17) | 2.48 (63)  | 9.50 (241)  | 11.80 (300) | 5.90 (150)  | 0.67 (17) | 0.35 (9)  | 0.43 (11) | 2.76 (70)  | 4.02 (102) | F07-F10  | 40           | 450  |                  | 683     | 976      |
| 3"     | 0.67 (17) | 2.99 (76)  | 11.10 (282) | 15.80 (400) | 6.90 (176)  | 0.67 (17) | 0.35 (9)  | 0.43 (11) | 2.76 (70)  | 4.02 (102) | F07-F10  | 58           | 600  |                  | 1138    | 1626     |
| 4"     | 0.82 (21) | 3.94 (100) | 12.00 (305) | 15.80 (400) | 8.00 (204)  | 0.87 (22) | N/A       | 0.43 (11) | N/A        | 4.02 (102) | F10      | 92           | 1650 |                  | 1708    | 2440     |
| 6"     | 1.12 (28) | 5.91 (150) | 15.87 (403) | 31.50 (800) | 10.85 (275) | 1.06 (27) | 0.55 (14) | N/A       | 4.92 (125) | N/A        | F12      | 215          | 2600 |                  | 4690    | 6097     |
| 8"     | 1.12 (28) | 7.87 (200) | 19.76 (502) | 31.50 (800) | 12.90 (328) | 1.06 (27) | 0.55 (14) | N/A       | 4.92 (125) | N/A        | F12      | 277          | 4200 |                  | 6726    | 8743     |



#### TOPWORKS:



#### SIZES 3" - 8" WITH PIPE HANDLE:



#### PRODUCT INFORMATION:

1. LIVE-LOADED STEM PACKING
2. STANDARD LOCKING HANDLE
3. ANTI-STATIC DEVICE
4. BALL IS VENTED ON THE STEM SLOT AREA
5. SIZES 6" AND 8" ARE ALSO AVAILABLE IN TRUNNION DESIGN (SERIES B42T)
6. COMPLETE VALVE AUTOMATION

#### OPTIONS:

1. ISO STEM EXTENSION
2. STEAM JACKET

#### APPLICABLE STANDARDS:

1. NACE MR0175
2. ASME B16.34: DESIGN AND WALL THICKNESS
3. ASME B16.10: FACE TO FACE
4. ASME B16.5: END FLANGE
5. API 598: INSPECTION AND TESTING
6. API 607: FIRE SAFE (WITH GRAFOIL BODY SEALS ONLY)
7. ISO 5211: MOUNTING
8. USP CLASS VI: CONFIRMATION OF COMPLIANCE (TFM1600/PTEF MATERIAL)

| ITEM NO. | DESCRIPTION                           | MATERIALS           | QTY. |
|----------|---------------------------------------|---------------------|------|
| 1        | BODY                                  | A351-CF8M A216-WCB  | 1    |
| 2        | END                                   | A351-CF8M A216-WCB  | 1    |
| 3        | BALL                                  | A351-CF8M           | 1    |
| 4        | SEAT                                  | TFM1600 SUPRALON    | 2    |
| 5        | BODY SEAL                             | GRAFOIL PTFE        | 1    |
| 6        | STEM                                  | A276-316            | 1    |
| 7        | O-RING                                | VITON               | 1    |
| 8        | STEM THRUST WASHER                    | SUPRALON            | 1    |
| 9        | STEM SEAL                             | GRAFOIL PTFE        | 3    |
| 10       | BUSHING                               | 304 STAINLESS STEEL | 1    |
| 11       | GLAND FOLLOWER                        | 316 STAINLESS STEEL | 1    |
| 12       | BELLEVILLE WASHER                     | 301 STAINLESS STEEL | 2    |
| 13       | STEM NUT                              | A194-8              | 1    |
| 14       | TAB LOCK                              | 304 STAINLESS STEEL | 1    |
| 15       | HANDLE GLAND                          | 304 STAINLESS STEEL | 2    |
| 16       | HANDLE (SIZES 1/2" - 2-1/2")          | 304 STAINLESS STEEL | 1    |
| 17       | HANDLE NUT                            | A194-8              | 1    |
| 18       | LOCKING DEVICE (SIZES 1/2" - 2-1/2")  | 304 STAINLESS STEEL | 1    |
| 19       | HANDLE SLEEVE                         | PVC                 | 1    |
| 20       | STOP PIN                              | A193-B8             | 1    |
| 21       | BODY BOLT                             | A193-B8             | 4    |
| 22       | BODY NUT                              | A194-8              | 4    |
| 23       | TRIANGULAR STOPPER (SIZES 3" - 8")    | 304 STAINLESS STEEL | 1    |
| 24       | PIPE HANDLE ADAPTER (SIZES 3" - 8")   | A351-CF8            | 1    |
| 25       | PIPE HANDLE (SIZES 3" - 8")           | 304 STAINLESS STEEL | 1    |
| 26       | PIPE HANDLE SET SCREW (SIZES 3" - 8") | A193-B8             | 1    |
| 27       | ADAPTER SET SCREW (SIZES 3" - 8")     | A193-B8             | 1    |

|                                                                                                                                                                                                      |                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| DRAWN BY<br>E.P.                                                                                                                                                                                     | DATE<br>07/07/2017 |
| CHECKED BY<br>E.G.                                                                                                                                                                                   | DATE<br>10/27/2017 |
| APPROVED BY<br>J.S.<br>(FOR REF ONLY IF NOT APPROVED)                                                                                                                                                | DATE<br>10/27/2017 |
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| PROJECTION THIRD ANGLE                                                                                                                                                                               |                    |



DESCRIPTION:  
1/2" - 8" B42C FLANGED BALL VALVE, ANSI CLASS 300, FULL PORT

UNITS: INCH (MILLIMETERS) DATE: 10/27/2017 REV: B