



FIGURE 780 DIVERTER VALVE

SIZES ¾" to 1½"

PRESSURES to 600 PSIG at 400°F

- Engineered for maximum safety and reliability
- Full flow manifold ends
- Medical level O2 cleaning in conformance with CGA G-4.1
- 180 degree operation
- Handle indicates flow direction
- Low maintenance
- Blow out proof stem
- V-ring stem packing
- All stainless externals

APPLICATIONS DATA

- Dual safety relief systems
- Stationary cryogenic tanks
- Manifolding
- Distribution systems
- Process systems
- Liquid and Gaseous Cryogenic Applications

APPLICABLE CODES

- ANSI B31.3, B16.34
- API 527

MODELS

- 780 - Bronze Diverter Valve

ORDERING CODE

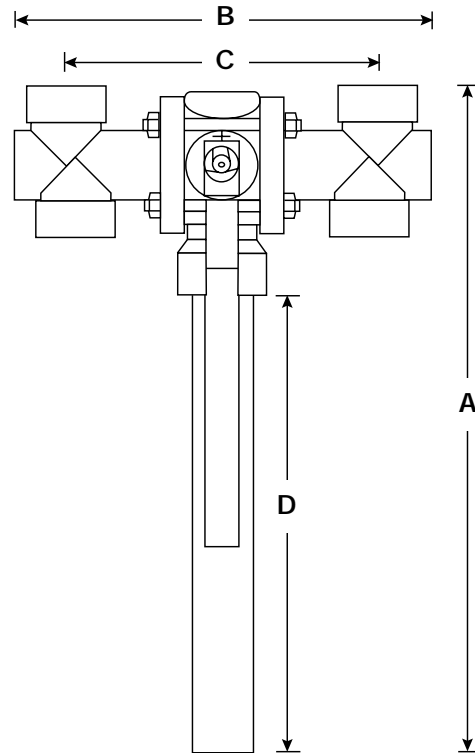
| MODEL NUMBER (Must be 3 Digits) | VALVE SIZE (Inches) | ORIFICE (Inches) | TOP PORT (Inches) | BOTTOM PORT (Inches) | SIDE PORT (Inches) | MATERIAL |
|------------------------------------|-----------------------------|---------------------|--|---|---|---------------------|
| example: <u>780</u> | <u>G</u> | <u>F</u> | <u>D</u> | <u>E</u> | <u>B</u> | <u>B</u> |
| 780-Diverter Valve | D - ¾" E - 1" G - 1½" | F-Full | D - ¾" E - 1" F - 1¼" G - 1½" | A - ¼" B - ½" C - ¾" D - 1" E - 1½" | A - ¼" B - ½" C - ¾" D - 1" E - 1½" | B-Bronze w/316 Stem |

FIGURE 780 DIVERTER VALVE SPECIFICATION

The valve shall be utilized for applications that requires full flow manifolds. The valve shall have 180 degrees of operation. The handle shall indicate the direction of flow. The stem shall be blow out proof and contain V-ring packing material. The valve shall be cleaned to CGA G-4.1.

MATERIALS OF CONSTRUCTION

| | |
|---------------------|---------------|
| Body..... | Bronze B61 |
| End Plate | Bronze B61 |
| Ball | Bronze |
| Stem | 316SS |
| Seats | MTFE |
| Body Seals | TFE |
| Stem Seals..... | CTFE |
| Stem Bearing | TFE |
| Bellville Wsh | 17-7 SS |
| External Hdwe | 300 Series SS |



High Flow Diverter Valve CV Values*

| Sizes (inches) | Safety Relief Valve Outlet | | Rupture Disc Outlet | | Torque Max. Value |
|-------------------|------------------------------|----------------------------|------------------------------|----------------------------|-------------------------|
| | CV@ mid position (90°) | CV@ full open (180°) | CV@ mid position (90°) | CV@ full open (180°) | |
| ¾F | 9.2 | 8.2 | 10.7 | 8.1 | 200 in. lbs. |
| 1F | 25.3 | 18.3 | 16.4 | 14.0 | 300 in. lbs. |
| 1½F | 40.0 | 30.4 | 23.8 | 22.2 | 340 in. lbs. |

* Flows may vary slightly due to outlet connection sizes.

DIMENSIONS inches (mm)

| Size | A | B | C | D |
|-------------|------------------|------------------|------------------|------------------|
| ¾F (20) | 13.00 (330.2) | 9.38 (238.3) | 7.25 (184.2) | 7.75 (196.9) |
| 1F (25) | 17.66 (448.6) | 11.61 (294.9) | 8.73 (221.7) | 12.00 (304.8) |
| 1½F (40) | 19.70 (500.4) | 13.6 (345.4) | 10.15 (257.8) | 12.00 (304.8) |

Dimensions for reference only

HIGH FLOW DIVERTER VALVE Cv GRAPH

