Stainless Steel Globe Valve for Cryogenic Service Goddard 231 Series

Features

- Top Entry: Rugged stainless steel * soft seated cryogenic globe valve. This valve can be permanently installed in the line and serviced from the top
- Soft Seated: PCTFE Seat provides a bubble tight seal and is replaceable
- Construction: One piece investment cast bonnet eliminates welded joint in topworks
- Stem Packing: Proprietary Goddard system utilizing GRAFOIL® flexible graphite
- Sizes: ¼" through 1½" (6mm through 40mm)
- · Ends: Socket weld, Butt weld
- Service: Liquified and Gaseous hydrogen service only (see series 232 for non-hydrogen service)
- Temperature Rating: -425°F to 150°F (-254°C to +65°C)
- Pressure Rating: (Cold, Non-shock)
 300 PSIG (20 Bar)
 400 PSIG (27 Bar)

*Stainless steel ASTM A351-CF3M (316L)

PED Approved, Approved for US and Canada Designed to ASME B16.34

A rugged construction and easy access are design features which provide minimum installation and maintenance cost while maintaining superior performance and operator safety. This valve replaces higher cost bellows-seated valves in many applications. The proprietary Goddard GRAFOIL® stem packing system provides excellent performance when the valve operates in liquid hydrogen service.



Goddard 231 Series

Ordering Information

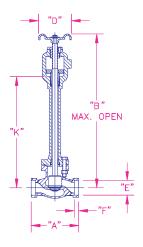
Stainless Body • 400 PSIG Socket Weld Ends

| Part Number | Valve size Inches | Valve Size mm | Ends | Weight Lbs. | Weight Kgs. | Estimated Cv |
|---------------|----------------------|---------------|-------------|-------------|-------------|--------------|
| S-000231-2S4 | 1/4" | 6 mm | Socket Weld | 6 lbs. | 2.72 Kgs. | 1.30 |
| S-000231-4S4 | 1/2" | 15 mm | Socket Weld | 6 lbs. | 2.72 Kgs. | 3.90 |
| S-000231-6S4 | 3/4" | 20 mm | Socket Weld | 10 lbs. | 4.54 Kgs. | 7.10 |
| S-000231-8S4 | 1" | 25 mm | Socket Weld | 10 lbs. | 4.54 Kgs. | 10.50 |
| S-000231-12S4 | 1½" | 40 mm | Socket Weld | 15 lbs. | 6.80 Kgs. | 25.00 |

Stainless Body • 300 PSIG Butt Weld Ends

| Part Number | Valve size Inches | Valve Size mm | Ends | Weight Lbs. | Weight Kgs. | Estimated Cv |
|---------------|----------------------|---------------|-----------|-------------|-------------|--------------|
| S-000231-4WA | 1/2" | 15 mm | Butt Weld | 6 lbs. | 2.72 Kgs. | 3.90 |
| S-000231-8WA | 1" | 25 mm | Butt Weld | 10 lbs. | 4.54 Kgs. | 10.50 |
| S-000231-12WA | 1½" | 40 mm | Butt Weld | 15 lbs. | 6.80 Kgs. | 25.00 |

Stainless Steel Globe Valve for Cryogenic Service **Goddard 231 Series**



Pressure Rating 400 PSIG

Temperature Rating +150° F to - 425° F

This valve is not approved for gaseous and/or liquid oxygen service

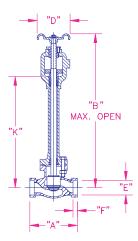
For oxygen service use Goddard series 232H cryogenic globe valve

Dimensional data

All Dimensional Data are in inches.

SOCKET WELD ENDS

| Size | "A" | "B" | "D" | "E" | "F" | "K" |
|------|-------|-----------------------|-------|-------|-------|-----------------------|
| 1/4" | 41/4" | 14 ⁹ /16" | 23/8" | 0.560 | 0.375 | 10 ³ /16" |
| 1/2" | 41/4" | 14 ⁹ /16" | 23/8" | 0.860 | 0.375 | 10 ³ /16" |
| 3/4" | 5%" | 17" | 3" | 1.070 | 0.500 | 11½" |
| 1" | 5%" | 17" | 3" | 1.335 | 0.500 | 11½" |
| 1½" | 6½" | 18 ¹⁴ /16" | 4" | 1.920 | 0.500 | 12 ¹⁵ /16" |



Pressure Rating 300 PSIG Temperature Rating +150° F to - 425° F

This valve is not approved for gaseous and/or liquid oxygen service For oxygen service use Goddard series 232H cryogenic globe valve

Dimensional data

All Dimensional Data are in inches.

BUTT WELD ENDS

| Size | "A" | "B" | "D" | "K" |
|------|-------|--------|-------|-----------------------------------|
| 1/2" | 41/4" | 14 ½" | 23/8" | 10 ³ ⁄ ₁₆ " |
| 1" | 5" | 17" | 3" | 11½" |
| 1½" | 6½" | 181/8" | 4" | 12 ⁵ /16" |

