



# MASTER VALVE

## Series: GSB-2FS

### High Pressure Gas Shutoff & Control Valve

#### Application

The new CPV High Pressure Master Valve is optimized for the critical requirements of gas cylinder fill plants, panels, tube trailers, and manifolds. This oxygen-service brass valve design utilizes the same reliable sealing mechanism as CPV's valves which have been used throughout the high pressure piping industry for more than 75 years!

With robust design & leak-free operation, you can count on CPV to provide the most dependable product in the industry! Our standard is the NEW STANDARD in the Master Valve Market!

#### EVERY VALVE MANUFACTURED IS OXYGEN SAFE

- > Certified & Approved per ISO 10297 and ISO 7291
- > 100% Oxygen Cleaned & Packaged per CGA G-4.1 and ASTM G93 standards

#### PRESSURE & FLOW

- > Full Vacuum Standard
- > 7800 psi Inert Service, 6000 psi Oxygen Service ° ASME Section VIII, ASME B31.3
- > Highest Flow Coefficient in the industry
- > Soft Seated sealing for bubble-tight, leak-free operation

#### FEATURES & BENEFITS

- > Ergonomic handle designed for comfort & easy operation
- > Low torque, even at full pressure
- > Panel mount standard
- > Higher performance alternative to under-performing, lower quality & lower pressure rated valves

#### Technical Data

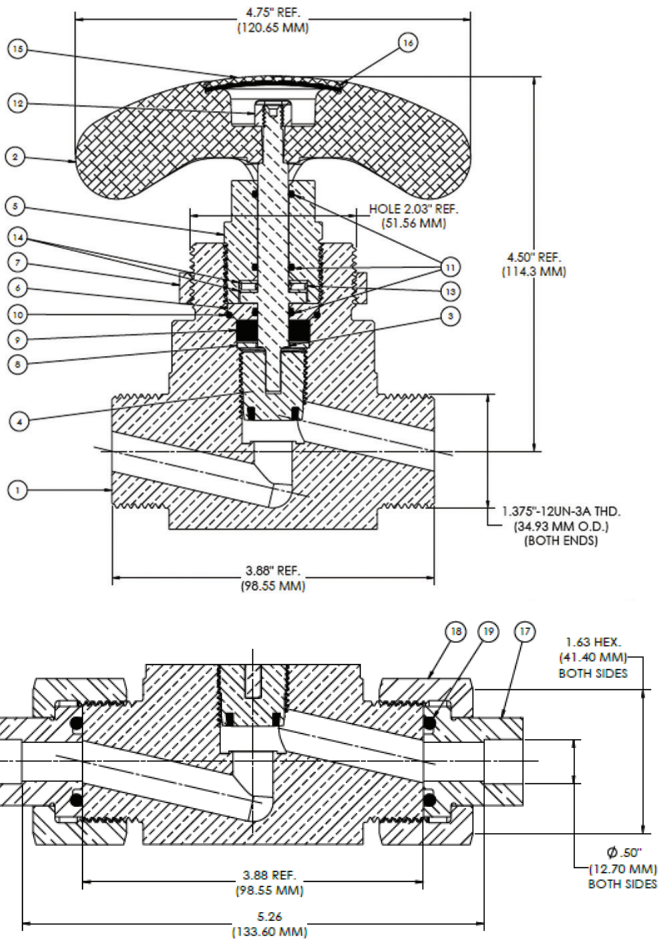
Operating Pressure Range	6000 PSIG (414 BAR) Oxygen 7800 PSIG (538 BAR) Inert
Operating Temperature	-70°F to 250°F (-57°C to 121°C)
Burst Pressure	38,925 PSIG (2684 BAR)
Flow Coefficient (Cv)	2.78
Production Testing (Valves are 100% Factory Tested)	7800 PSIG Seat Test (538 BAR) 9000 PSIG Shell Test (621 BAR)
Panel Mount	Standard
Full Vacuum	Standard

# Materials of Construction

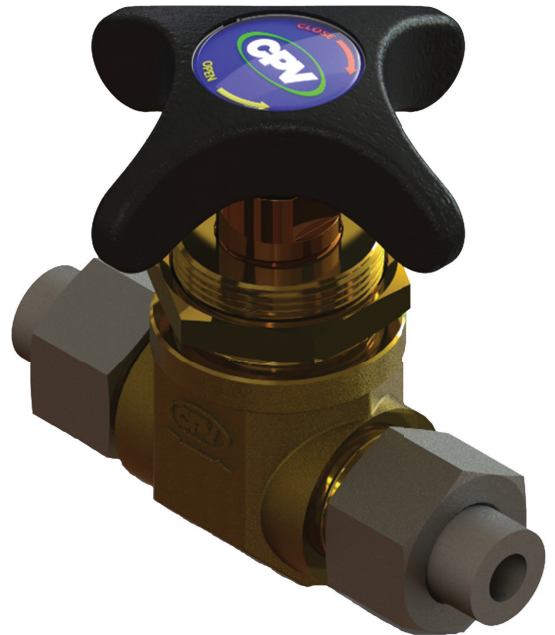
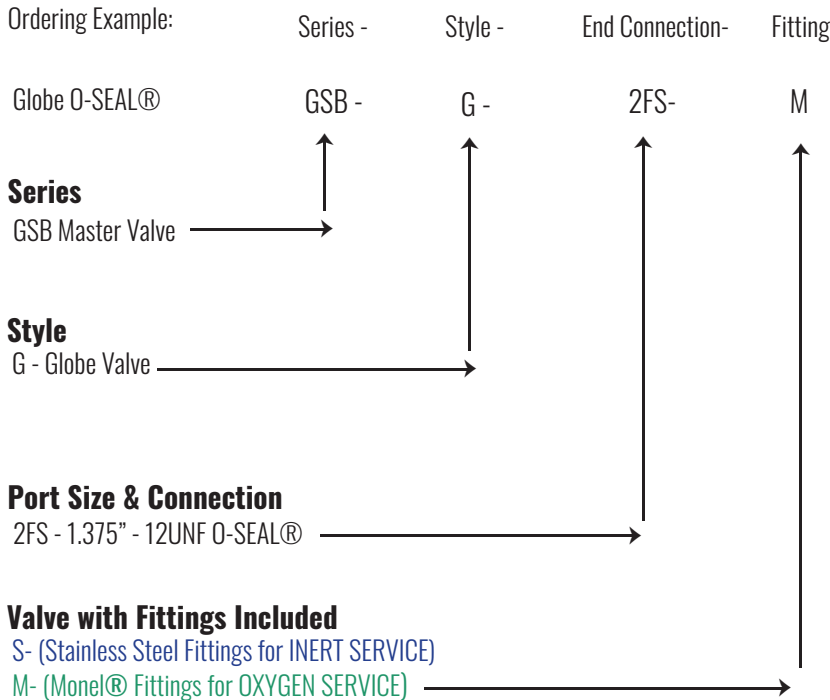
Standard Ordering Part Number: GSB-G-2FS		
No.	Component	Material
1	Body	Naval Brass   ASTM B283
2	Handle	Aluminum 6061   ASTM B221
3	Stem	Monel®   ASTM B164
4	Guide Assembly	Copper Nickel 70/30   MIL-C-15726
5	Gland Nut	Nickel Aluminum Bronze   ASTM B150
6	Retainer	Naval Brass   ASTM B21
7	Panel Nut	Naval Brass   ASTM B21
8	Packing Retainer	Commerical Grade Brass
9	Packing	EPDM E4207A90 Peroxide Cured
10	O-Ring	EPDM
11	O-Ring	EPDM
12	Lock Nut	Commercial Grade S.S.
13	Thrust Bearing	Hardened Steel
14	Bearing Washer	Hardened Steel
15	Cap	Aluminum Crystal Coating
16	Retaining Ring (Cap)	Commercial Grade S.S.
	Lubricant	Turmoxygen LCO 45 plus

Valve with Fittings Included		
For INERT SERVICE		
Ordering Part Number: GSB-G-2FS-S		
17	Tailpiece (Socketweld Tube)	316L Stainless Steel   ASTM A276
18	Union Nut	316 Stainless Steel   ASTM A276
19	O-Ring	EPDM

For OXYGEN SERVICE		
Ordering Part Number: GSB-G-2FS-M		
17	Tailpiece (Socketweld Tube)	Monel®   ASTM B164
18	Union Nut	Monel®   ASTM B164
19	O-Ring	EPDM



## Ordering Information



Prochem Pipeline Products  
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\*For Female NPT port connections, see MasterValveGSB-4F / MasterValveGSB-6F Datasheets.

(Pressure rating for Female NPT valves is limited to 6000 PSI Inert/Oxygen Service)

MasterValveGSB-2FS Revision 1