

## HYDROGEN VACUUM JACKETED SHUT-OFF/CONTROL VALVES

## CV8BS BELLOW SEAL

0 - 300 PSIG



## **APPLICATIONS**

- Hydrogen Storage Tanks
- Hydrogen Transportation Trailers
- Hydrogen Vacuum Jacketed Piping Systems
- Rocket Launch Fueling System
- Stationary Hydrogen Bulk Storage Vessels
- Vacuum Insulated Piping Systems
- Hydrogen Over-Road Trailers
- Cryogenic ISO Containers
- Hydrogen Plants

# SNOILAC

- Cold Box Cuff
- Ported Bonnet (Overseat Purge)
- Pneumatic and Electric Actuators
- Positioners & Position Indicators
- Limit Switches
- Linear & Equal % Flow Plugs
- Special extended length for Helium Service
- Higher rated working pressures



### **FEATURES**

- Vacuum Jacketed or Non-Jacketed
- **Bubble Tight Shut Off**
- **Redundant Packing Seals**
- Axially Bolted Bonnet or High Seat Loading
- Low Heat Leak Extension
- Self-Centering Plug Seal
- Quality Investment Cast Body for High Flow
- Easy In-line Maintenance
- Globe, "Y" Pattern and Right Angle Pattern Designs

#### Valve Size:

Standard: 1/2" to 4"

Special Build Order: 6", 8", 10, 12"



## **TECHNICAL DATA**

#### **Operating Ranges:**

Temperature..... -456° F to +300° F (-273° C to +149° C)

Max. Operating Pressure 300 PSIG

#### **Materials of Construction:**

All Major Structural Components are 300 Series Stainless Steel

Seat Seal ..... PCTFE Packing ...... PTFE or Graphite Gasket ...... Glass Filled PTFE

#### Testing:

External Leakage ...... Mass spec. to

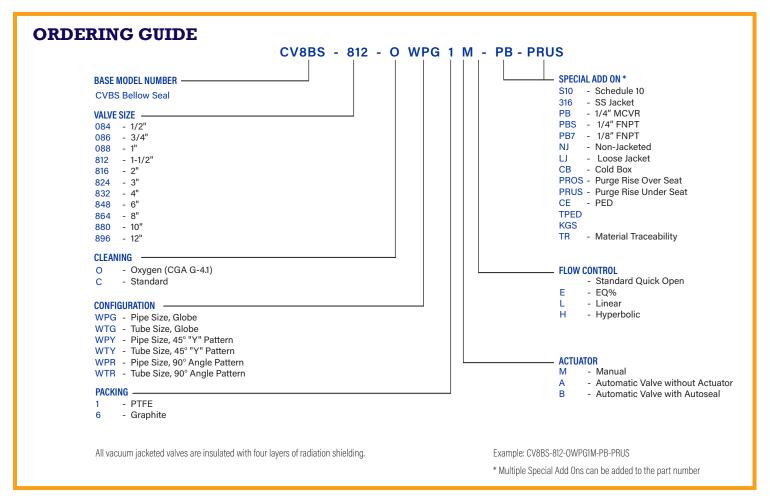
1x10<sup>-9</sup>scc GHe/sec

Seat Leakage ...... Bubble Tight to 150 PSIG

Proof Pressure ...... 330 PSIG (ambient)



# CV8BS BELLOW SEAL 0 to 300 PSIG





## PERFORMANCE CHARACTERISTICS

Valve Size	Conductive Heat Leak (BTU/HR to 20°K)	Cooldown Weight (#)	Flow Coefficient (C <sub>v</sub> )		
			Globe	Y	Angle
1/2"	5.9	2.7	6.6	9	8
3/4"	6.6	3.3	8	12	10
1"	10.4	3.8	14	22	17
1-1/2"	21.8	7.0	34	47	41
2"	27.3	10.2	50	96	60
3"	68.1	30.8	139	162	145
4"	79.9	51.2	182	288	248
6"	Call Factory	Call Factory	-	-	-
8"	Call Factory	Call Factory	-	-	-
10"	Call Factory	Call Factory	-	-	-
12"	Call Factory	Call Factory	-	-	-

