

CRYOGENIC BAR STOCK BODY BELLOW SEAL VALVES MANUAL OR AUTOMATIC

2001 SERIES

0 to 400 PSIG



APPLICATIONS

- Semiconductor & Electronic Grade High Purity Gas Lines
- Chemical, Pharmaceutical and Aerospace Ground Support
- Vacuum Jacketed and Insulated Piping System
- Cryogenic Storage Tanks and Transports
- Wherever Leak Tight Valves, Compact Design, Quality and Performance are required



FEATURES

- Simple Conversion - The AutoSeal Actuator, for automatic operation, and the Unique Hand Wheel, for manual operations, are easily interchangeable
- Electro-polished internals with All Orbital Butt Welded Design: Body, Bonnet, Flange, and Nipples
- Compact design & reliability for an economical price
- Vacuum Jacketed or Non-Jacketed Extended Bonnet
- Top Entry Flanged Bonnet with redundant seals
- Multi-Ply Bellows are Cryogenic tested & proven

UNIQUE DESIGN offers quick and easy changes for Manual or Automatic operation without voiding the system's integrity or replacing operating parts. Innovation for the 21st Century.

Valve Size:

1/2" ODT Standard

3/4" ODT Available on Request



OPTIONS

- Flow Tips and Instrumentation accessories for actuator



OPERATING RANGES

Temperature..... -456° F to +300° F
(-271.1°C to +148.9°C)

Operating Pressures up to 400 PSIG



TECHNICAL DATA

All Major Structural and Internal Components are 300 Series Stainless Steel

Materials of Construction:

Seat Kel-F
Gasket Teflon® and Viton®
Seals Viton®
Actuator Pressed Steel Casing
& Ductile Iron Yoke

Testing:

External Leakage Mass spec. to
1x10⁻⁹ scc GHe/sec
Seat Leakage Bubble Tight to 150
PSIG in Liquid Nitrogen
with GHe
Proof Pressure 440 PSIG

ORDERING GUIDE

2001 - 04 - U E GT M - VJ

BASE MODEL NUMBER

2001 Series Bellow Seal

VALVE SIZE

04 - 1/2"

CLEANING

U - UHP Cleaned
O - Oxygen (per 216-2 specification)
C - Standard

INTERNAL FINISH

E - Electro-polished, UHP Cleaned
S - Mill Finish

BODY CONFIGURATION

GT - Globe Pattern, Tube

SPECIAL ADD ON*

CB - Cold Box Cuff
VJ - Vacuum Jacketed
Blank - Non-Vacuum Jacketed
TW - Complete Top Works
Kit with Stem
SG - Soft Goods Kit:
Packing
Gasket
Seat

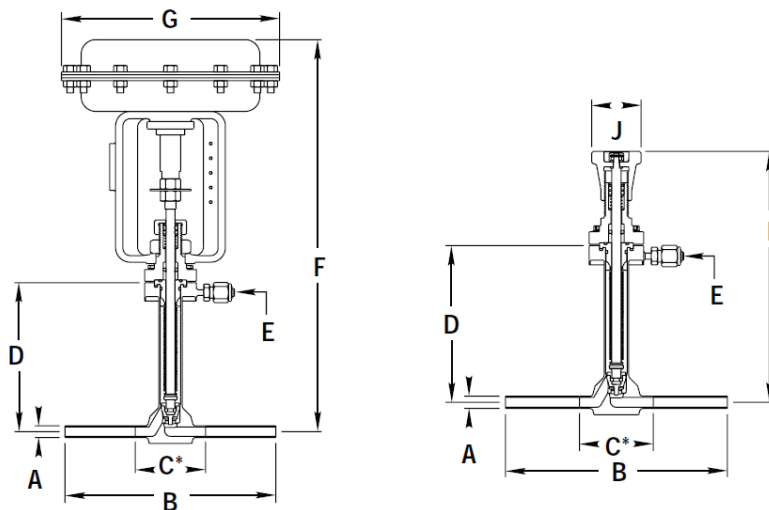
TOP WORKS

M - Manual
A - Automatic Valve without Actuator
B - Automatic Valve with AutoSeal
E - Automatic Valve with AutoSeal and
Control Tip - EQ %
L - Automatic Valve with AutoSeal and
Control Tip - Linear

* Standard configuration is non-jacketed.



DIMENSIONS



AUTOMATIC

Size	A	B	C*	D	E**	F	G	C _v
1/2"	1/2" ODT	9.0	3.0	6.36	1/4 VCR	16.75	9.31	2.5

MANUAL

Size	A	B	C*	D	E**	F	G	C _v
1/2"	1/2" ODT	9.0	3.0	6.36	1/4 VCR	10.44	2.0	2.5

* Available without nipples upon request.

** Available with 1/2" VCR end connections.

For actuator accessories and instrumentation, see AutoSeal Actuator.
Additional sizes available, please consult your Distributor, Representative or our factory for information.