



# MINI-CRYOGENIC VACUUM JACKETED VALVES

## CV9 CRYO SERIES

0 - 200 PSIG



### APPLICATIONS

- Helium Siphons
- Point of Use Valve
- Laboratory Usage

### OPTIONS

- Cold Box Cuff
- Pneumatic Actuators
- Positioners
- Linear & Equal % Flow Plugs



### FEATURES

- Vacuum Jacketed (Insulated with Four Layers of Radiation Shielding)
- Bubble Tight Shutoff
- High Thermal Efficiency
- Compact Size
- Economical
- Convolute Bellows Stem
- O-Ring Spring Loaded Packing Assembly
- Non-galling Brass Metering Handle
- Easy Inline Maintenance
- Socket Weld Ends
- Dynamic Loaded Packing



### TECHNICAL DATA

#### Operating Ranges:

Temperature ..... 456°F to +150°F  
 -273°C to +66°C

Max. Operating Pressure 200 PSIG

Heat Leak ..... 2.5 BTU/Hr to  
 -20°K (.73 watts)

#### Materials of Construction:

All Major Structural are 300 Series Stainless Steel

Packing ..... Vitron O-Rings

Seat Seal ..... Kel-F

Stem ..... Stainless Steel Bellows

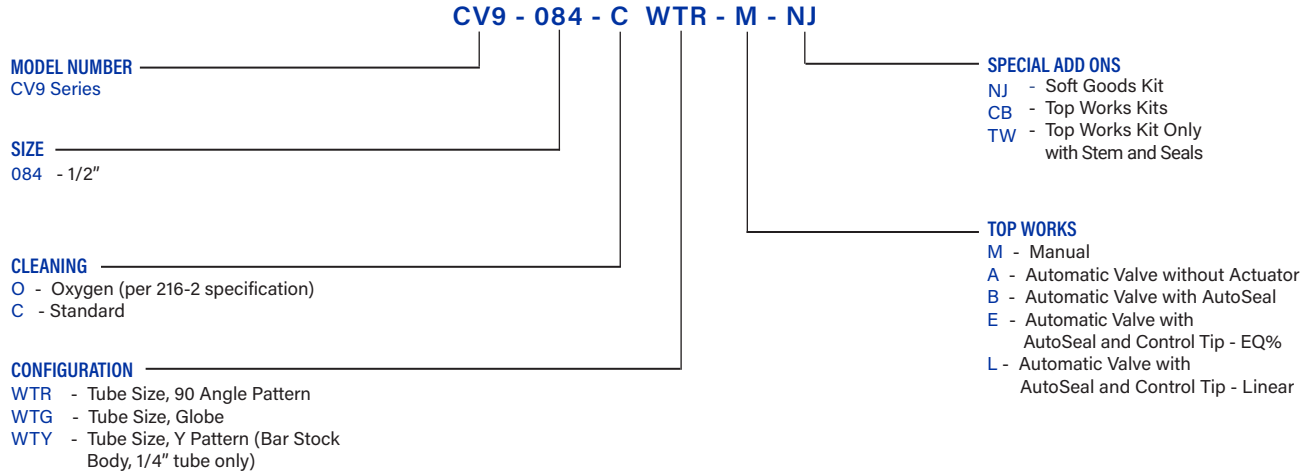
#### Testing:

Proof Pressure ..... 225 PSIG  
 Seat Leakage ..... Bubble Tight to  
 150 PSIG  
 External Leakage ..... Mass spec. to 1x10<sup>-9</sup> scc  
 GHe/sec

#### Valve Sizes:

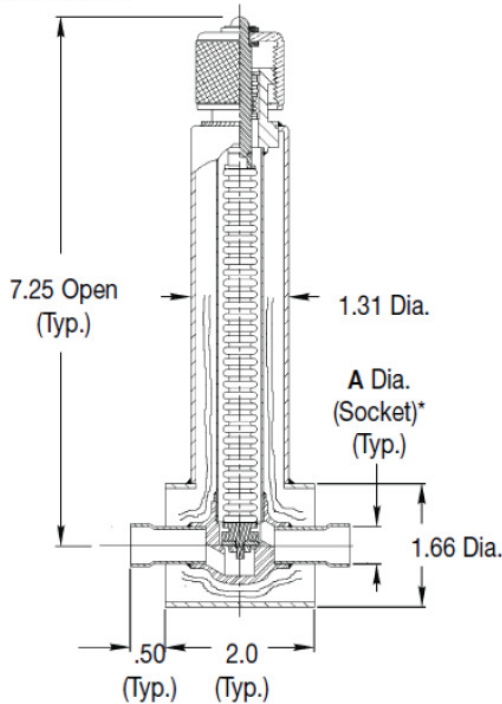
1/2" Standard  
 1/4" & 3/8" Optional with Adapters

## ORDERING GUIDE



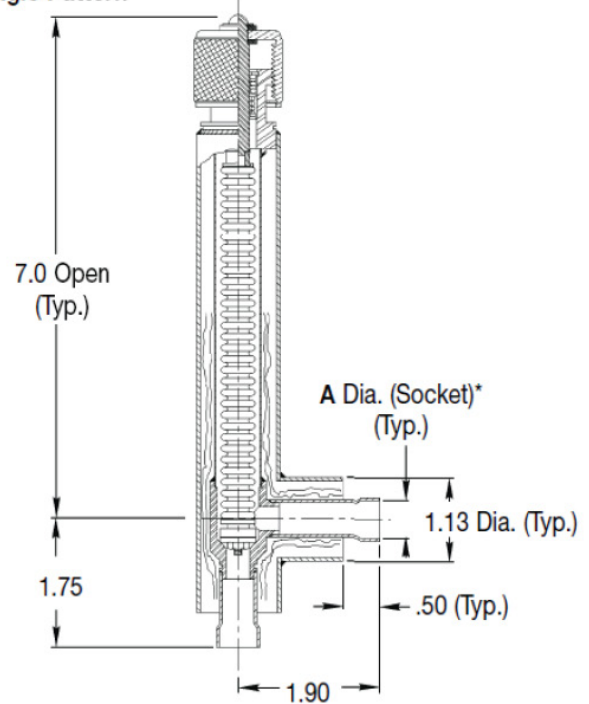
## DIMENSIONS & CHARACTERISTICS

**Globe Pattern**



TUBE SIZE	WT.	CV.	A DIA. (SOCKET)
1/4"	12 oz.	.7	.255*
3/8"	12 oz.	1.8	.380*
1/2"	12 oz.	2.3	.505

**Angle Pattern**



TUBE SIZE	WT.	CV.	A DIA. (SOCKET)
1/4"	12 oz.	.7	.255*
3/8"	12 oz.	1.6	.380*
1/2"	12 oz.	1.6	.505

\*Adapters supplied for 1/4" & 3/8" sizes