

5ZV SERIES

The 5ZV Series high purity zone valve box provides branch control for large distribution systems in laboratories and other facilities that require high purity gases. Each high flow, stainless steel valve uses a metal-to-metal diaphragm seal to achieve leak rate suitable for up to grade 6.0 gases. The large window provides high visibility to the flow and pressure status of each gas pipeline. Valves may be in either position with the door closed, accommodating changes in laboratory gas requirements without disruption. Each unit is shipped with tubes to facilitate permanent joints outside the box; compression tube fitting connections at each valve allow easy maintenance in the unlikely event of a failure. Available in a vented configuration suitable for intermediate control of high purity, flammable gases, the 5ZV Series zone valve box provides flexible and convenient control for larger university and hospital laboratory environments.



5ZV136363636 shown

Features

- Metal-to-Metal Diaphragm Seal**
No possibility of gas contamination
- Stainless Steel Barstock Construction**
Compatible with most high purity gases
- Large Transparent Window**
High visibility of pressure and flow status
- Reversible Hinged Door**
Quick access and flexible installation
- Compression Tube Fitting Connections**
Easy maintenance
- Vented Enclosure Option**
Suitable for use with flammable gases

Materials

- Enclosure**
Cold rolled steel with powder-coated finish
- Window**
Transparent polycarbonate (3/32")
- Indicating Handle**
Acrylonite butadiene styrene (ABS)
- Valve Body**
316 stainless steel barstock
- Valve Bonnet**
303 stainless steel barstock
- Valve Diaphragm**
316L stainless steel
- Valve Seat**
PCTFE

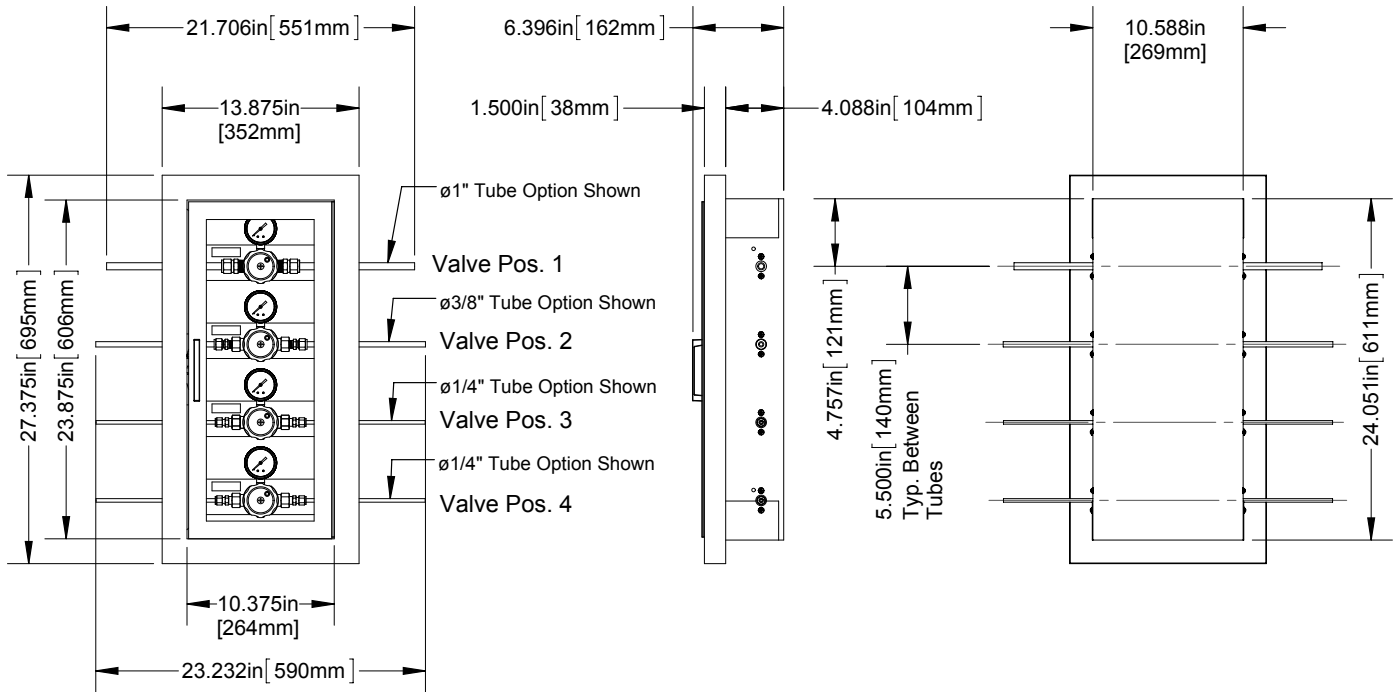
Specifications

- Maximum Inlet Pressure**
500 PSIG (34 BAR)
- Temperature Range**
-15°F to 125°F (-25°C to 50°C)
- Valve Ports**
1/2" FPT (process)
1/4" FPT (gauge)
- Cv**
1.2
- Helium Leak Integrity**
1 x 10⁻⁸ scc/sec

Panels



Installation Information



DISTRIBUTION SYSTEMS

Ordering Information

5ZV	A	B	C	D	E	F	G	H	I
Series 5ZV	Assembly	Valve 1 options (See below)	Valve 1 gauge options (See below)	Valve 2 options (See below)	Valve 2 gauge options (See below)	Valve 3 options (See below)	Valve 3 gauge options (See below)	Valve 4 options (See below)	Valve 4 gauge options (See below)
	1: Right inlet Left outlet Non-vent enclosure Right hinge 2: Left inlet Right outlet Non-vent enclosure Right hinge 6: Right inlet Left outlet Vented enclosure Right hinge 7: Left inlet Right outlet Vented enclosure Right hinge	A: Right inlet Left outlet Non-vent enclosure Left hinge B: Left inlet Right outlet Non-vent enclosure Left hinge F: Right inlet Left outlet Vented enclosure Left hinge G: Left inlet Right outlet Vented enclosure Left hinge							
		Valve Options			Gauge Options				
		0: No valve			0: No gauge in valve		A: VAC-0-2 BAR/ 0-30 PSIG		
		1: 1/4" stainless compression tube fittings with stainless tubes			1: VAC-0-30 PSIG/ 0-200 kPa		B: VAC-0-7 BAR/VAC-0-100 PSIG		
		2: 3/8" stainless compression tube fittings with stainless tubes			2: VAC-0-100 PSIG/0-700 kPa		C: VAC-0-14 BAR/VAC-0-1 PSIG		
		3: 1/2" stainless compression tube fittings with stainless tubes			3: VAC-0-200 PSIG/0-1400 kPa		D: 0-21 BAR/0-300 PSIG		
		A: 1/4" brass compression tube fittings with copper tubes			4: 0-300 PSIG/0-2000 kPa		E: 0-28 BAR/0-400 PSIG		
		B: 3/8" brass compression tube fittings with copper tubes			5: 0-400 PSIG/0-2800 kPa		F: 0-70 BAR/0-1000 PSIG		
		C: 1/2" brass compression tube fittings with copper tubes			6: 0-1000 PSIG/0-7000 kPa		G: 0-600 PSIG/0-40 BAR		