

5ZV SERIES HIGH PURITY VALVE BOX



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.

Typical Applications

- Gas Chromatography Detection
- House Laboratory Gases
- Pharmaceutical Manufacturing
- Medical Research
- Blood Gases



5ZV136363636-01-162 shown

Features

Metal to Metal Diaphragm Seal prevents gas contamination

Reversible Hinged Door provides flexible installation and quick access

Large Transparent Window gives high visibility of pressure and flow status

Vented Enclosure Option permits use with flammable gases

Materials and Specifications

Maximum Inlet Pressure: 500 PSIG (34 BAR)

Temperature Range: -15°F to 125°F (-25°C to 50°C)

Valve Ports: 1/2 in FNPT (process); 1/4 in FNPT (gauge)

Valve Seats: PCTFE

Valve Diaphragm: 316L stainless steel barstock

Helium Leak Integrity: 1×10^{-8} scc/sec

Cv: 1.2

Enclosure: Powder-coated steel

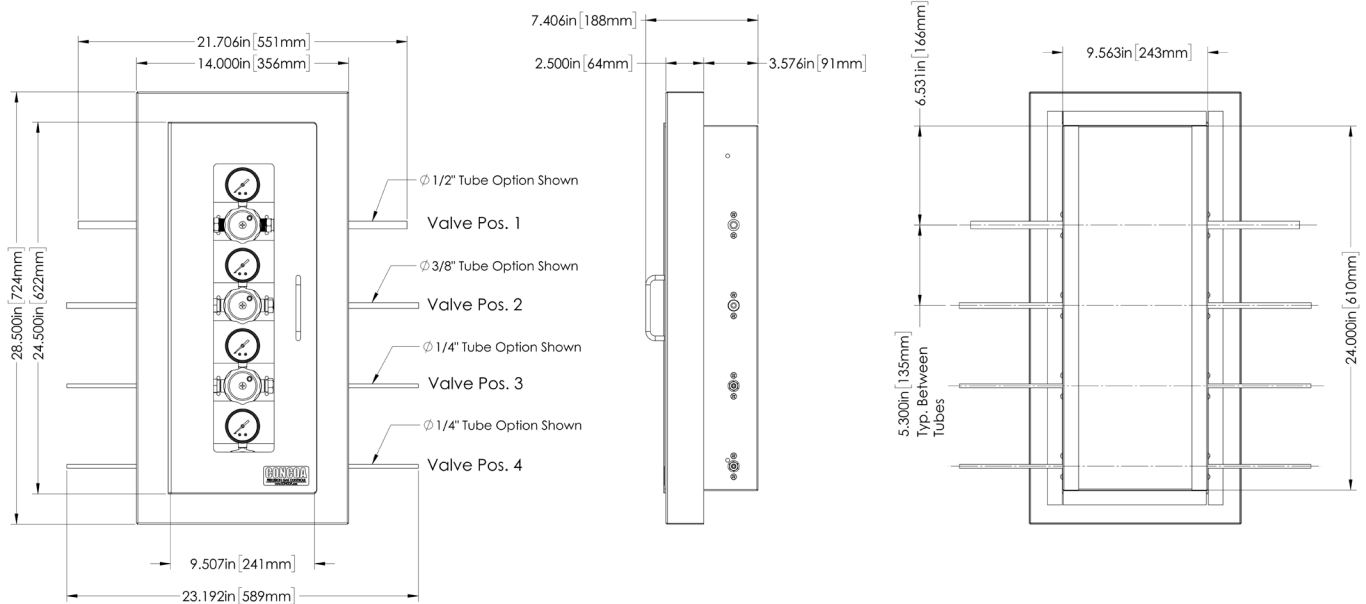
Indicating Handle: Acrylonite butadiene styrene (ABS)

Window: Transparent polycarbonate (3/32 in)

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Installation Dimensions



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	1: 1/4" stainless compression tube fittings with stainless tubes	2: 3/8" stainless compression tube fittings with stainless tubes	3: 1/2" stainless compression tube fittings with stainless tubes	A: 1/4" brass compression tube fittings with copper tubes	B: 3/8" brass compression tube fittings with copper tubes	C: 1/2" brass compression tube fittings with copper tubes	0: No gauge in valve 1: VAC-0-30 PSIG/ 0-200 kPa 2: VAC-0-100 PSIG/0-700 kPa 3: VAC-0-200 PSIG/0-1400 kPa 4: 0-300 PSIG/0-2000 kPa 5: 0-400 PSIG/0-2800 kPa 6: 0-1000 PSIG/0-7000 kPa	A: VAC-0-2 BAR/ 0-30 PSIG B: VAC-0-7 BAR/VAC-0-100 PSIG C: VAC-0-14 BAR/VAC-0-1 PSIG D: 0-21 BAR/0-300 PSIG E: 0-28 BAR/0-400 PSIG F: 0-70 BAR/0-1000 PSIG G: 0-600 PSIG/0-40 BAR