

VANGUARD 2/2 Valves with Delayed-Pressure-Buildup Function V495 Models

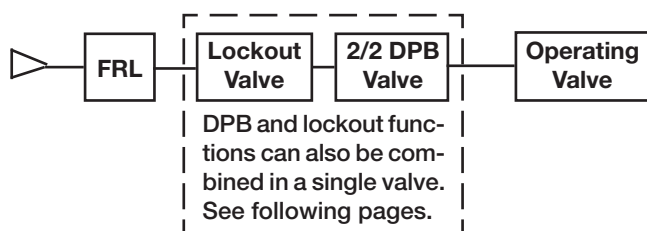
Port Sizes: 1/4 to 1-1/2

Model Shown: V495-2



- ◆ Delayed pressure buildup (DPB); rate of pressure buildup adjustable.
- ◆ 2-Way poppet valve. Available in three body sizes and seven port sizes.
- ◆ Use in conjunction with a lockout valve to provide an exhaust port as well as the lockout function.
- ◆ NPTF port threads; optional BSPP threads.

VALVE OPERATION



The lockout valve in the sketch above provides an exhaust port for exhausting downstream air when pressure is removed from the inlet of the 2/2 DPB valve.

SPECIFICATIONS

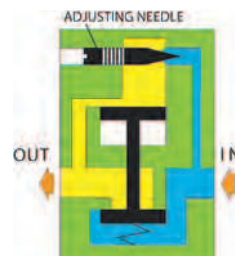
Ambient/Media Temperature:

40° to 175°F (4° to 80°C).

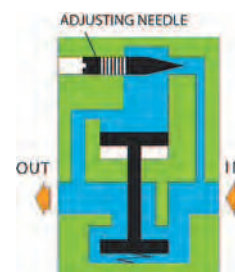
Fluid Media: Compressed air.

Inlet Pressure: 30 to 150 psig (2 to 10 bar).

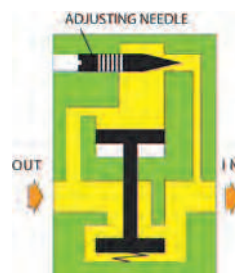
When air pressure is first applied to the inlet, air flow to the piston is restricted by the adjusting needle. Downstream air pressure gradually builds up at a rate determined by the setting of the adjusting needle.



When downstream air pressure reaches the range of 40% to 60% of inlet pressure, the valve element shifts to the full open position and there is full air flow to the downstream components. This condition continues as long as there is air pressure at the inlet.

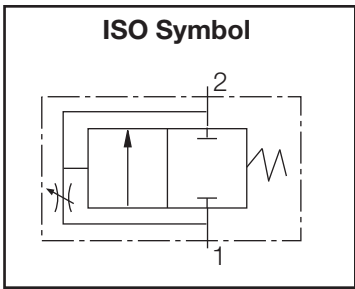
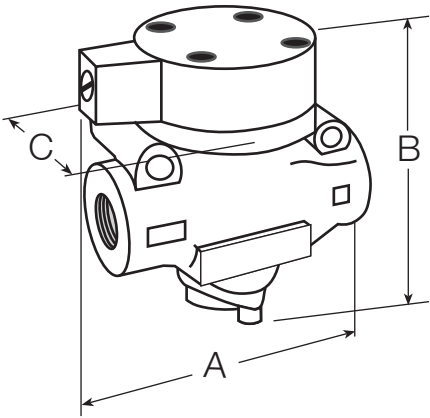


When inlet pressure is removed, the exhausting downstream air pressure keeps the inlet poppet open until the downstream pressure drops by approximately 90 percent. The remaining pressure is exhausted via the delay orifice. An upstream exhaust port (as in a separate lockout valve) is needed for proper operation.



DIMENSIONS inches (mm)

Port Size	Average C_v	A	B	C
1/4	2.3			
3/8	3.8	4.3 (108)	3.9 (99)	3.1 (79)
1/2	7.7			
3/4	9.0	4.7 (119)	4.6 (116)	3.1 (79)
1	24			
1-1/4	29	5.7 (146)	7.6 (193)	6.0 (153)
1-1/2	29			



ORDERING INFORMATION

Select the port size in the sample model number below to specify the valve you want.

V495 - 2 W

INLET/OUTLET PORTS

- 1/4 NPTF ($C_v = 2.3$).....V495-2
- 3/8 NPTF ($C_v = 3.8$).....V495-3
- 1/2 NPTF ($C_v = 4.0$).....V495-4
- 1/2 NPTF ($C_v = 7.7$)..... V495M-4
- 3/4 NPTF ($C_v = 9.0$).....V495-6
- 1 NPTF ($C_v = 9.0$).....V495-8
- 1 NPTF ($C_v = 24$)..... V495M-8
- 1-1/4 NPTF ($C_v = 29$)V495-10
- 1-1/2 NPTF ($C_v = 29$)V495-12

PORT TYPE

- NPTF threads Leave Blank
- BSP threads W