ACTUATED VALVE FOR PNEUMATIC & HYDRAULIC CONTROL PANELS

• Gas • Liquid

DiaphragmPiston

Normally Open 0

Normally Closed

Max Inlet: 690 bar (10,000 psi)

Max Outlet: 690 bar (10,000 psi)

Cv 2.0







INTRODUCING THE AVC690 & AVO690...

The AVC690 (normally closed) and AVO690 (normally open) are compact actuated valves suitable for gas and liquid applications, and designed to have a very high cycle life.

They can be used to aid high pressure cycle testing for Research and Development lab work. They are also used in pneumatic and hydraulic control panels, and can be used in a range of sectors including oil & gas, hydrogen, amongst others.

SPECIFICATION

Max. Rated Inlet Pressure	690 bar (10,000 psi)
Outlet Ranges	Up to 690 bar (10,000 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	Bubble tight
Weight	1kg (2.2lbs)

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603) HT Brass CZ114/CW721R (UNS C67500)
Main Valve	ASTM A479 316/316L Stainless Steel
Loading Spring	ASTM A240 301 Stainless Steel (UNS S30100)
Seat	PEEK™ (450G)
Piston	ASTM A479 316/316L Stainless Steel
O-Rings	FPM/FKM
Filter	40 Microns*

Note: Valve rating may be limited by connection type, Cv and/or seat material. Contact the office for specific pressure or temperature requirements.

FEATURES AND BENEFITS

HIGH-FLOW 1 CV 2.0

High flow for most process applications.

SOLENOID ✓ VALVE OPTION

Solenoid valves in control voltages of 12V or 24V.

FAIL SAFE **OPERATION**

Available as normally open or normally closed.

LOW **ACTUATION** PRESSURE

3.8 bar (55 psi) actuation pressure.

OPTIONAL FILTER SIZE

40 micron filter as standard -30 micron also available.





^{* 30} micron filter also available

ACTUATED VALVE FOR PNEUMATIC & HYDRAULIC CONTROL PANELS

• Gas • Liquid

DiaphragmPiston

Normally Open

Normally Closed

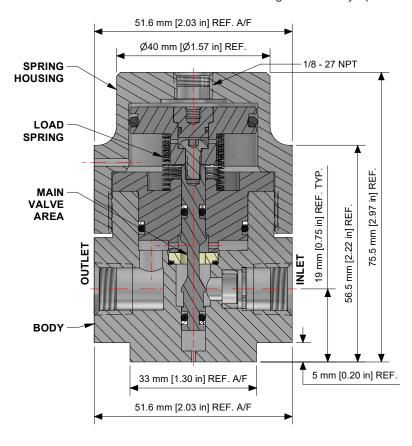
Max Inlet: 690 bar (10,000 psi)

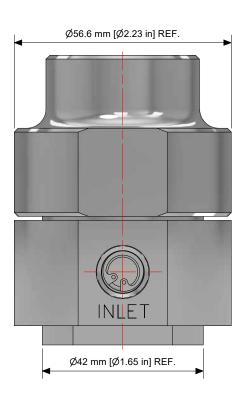
Max Outlet: 690 bar (10,000 psi)

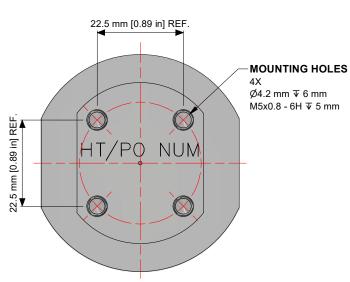
Cv 2.0

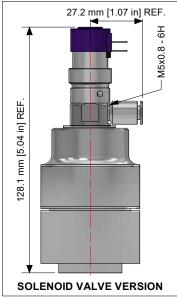
DRAWING AND INSTALLATION DIMENSIONS

Dimensions shown for standard Cv 0.8 configurations only - please contact the office for other options.













ACTUATED VALVE FOR PNEUMATIC & HYDRAULIC CONTROL PANELS

• Gas • Liquid

DiaphragmPiston

Normally
Open

Normally Closed

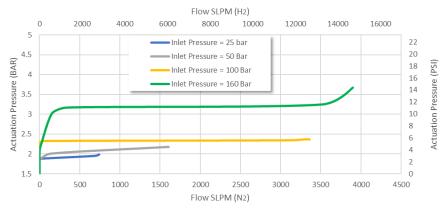
Max Inlet: 690 bar (10,000 psi)

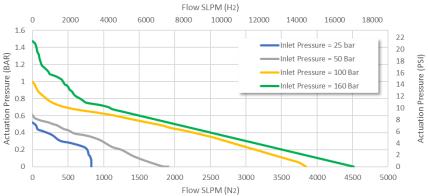
Max Outlet: 690 bar (10,000 psi)

Cv 2.0

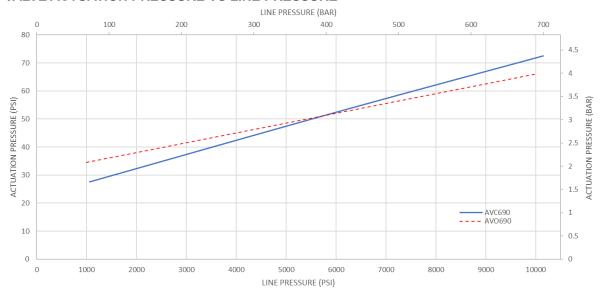
FLOW CURVE

Flow curves shown for standard Cv 0.8 configurations only.





VALVE ACTUATION PRESSURE VS LINE PRESSURE







ACTUATED VALVE FOR PNEUMATIC & HYDRAULIC CONTROL PANELS

• Gas • Liquid

DiaphragmPiston

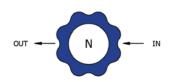
Normally Open
Normally Closed

Max Inlet: 690 bar (10,000 psi)

Max Outlet: 690 bar (10,000 psi)

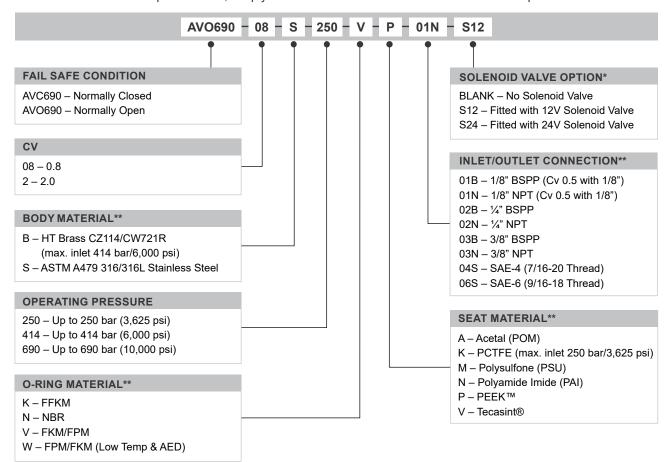
Cv 2.0

PORTING CONFIGURATIONS



ORDERING INFORMATION

To build a Pressure Tech part number, simply combine the characters identified below in sequence:



TRADEMARKS: PEEK™ is a trademark of Victrex PLC





^{* 3/2} solenoid valve as standard (2/2 available on request) ** Other connections/materials may be available