

VARIABLE VOLUME PRESSURE CONTROLLER MODELS: V-1 R AND V-2R

The 3D Variable Volume Pressure Controller is available for requirements of 0 - 1,000 psi and 0 - 6,000 psi in absolute or gauge pressure. It is a highly sensitive vernier controller with adjustment sensitivity of .0005 psi (.005 with Model V-2R).

Utilizing the principle of expansion or compression of gas by the displacement of a piston the unit can generate up to 50 psi in a static system without requiring an outside pressure source.



SPECIFICATIONS MODEL: V-1R

PRESSURE RANGE: 0 - 1,000 psi
 ADJUSTMENT SENSITIVITY: 0.0005 psi
 LEAK RATE: Less than 1×10^{-5} atm cc/sec
 TOTAL MECHANICAL ROTATION: 33 1/2 turns. (nom.)
 TEMPERATURE RANGE: 32°F - 120°F
 PNEUMATIC PRESSURE GENERATION: 35 psia
 PROOF PRESSURE: 2,000 psi
 CONSTRUCTION: Aluminum body.
 Stainless steel screw and valve stem.
 (All stainless steel construction available for use with corrosive gases.)
 LIFE: 250,000 cycles
 WEIGHT: 4.5 lbs.
 TOTAL VOLUME: 12.756 cubic inches

SPECIFICATION MODEL: V-2R

PRESSURE RANGE: 0 - 6,000 psi
 ADJUSTMENT SENSITIVITY: .005 psi
 LEAK RATE: 1×10^{-3} atm cc/sec
 TOTAL MECHANICAL ROTATION: 78 turns
 TEMPERATURE RANGE: 32°F - 120°F
 PROOF PRESSURE: 12,000 psi
 CONSTRUCTION: Aluminum body; stainless steel lead screw and valve, bronze nut, Viton and Teflon seals
 LIFE: 250,000 cycles
 WEIGHT: 6.5 lbs.
 TOTAL VOLUME: 1.53524 cubic inches

**MICROMETER
MODELS: V-1 RM AND V-2RM**

The 3-D Micrometer combines the Variable Volume Pressure Controller with a mechanical readout. It is designed to determine and establish exact volumetric changes in pneumatic systems required in pressure/volume and leak rate measurements.



SPECIFICATIONS MODEL: V-1RM

PRESSURE RANGE: 0 - 1,000 psi
 ADJUSTMENT SENSITIVITY: 0.0005 psi
 LEAK RATE: Less than 1×10^{-5} atm cc/sec
 TOTAL MECHANICAL ROTATION: 33 1/2 turns. (nom.)
 TEMPERATURE RANGE: 32°F - 120°F
 PNEUMATIC PRESSURE GENERATION: 35 psia
 PROOF PRESSURE: 2,000 psi
 CONSTRUCTION: Aluminum body. Stainless steel screw and valve stem. (All stainless steel construction available for use with corrosive gases.)
 LIFE: 250,000 cycles
 WEIGHT: 4.8 lbs.

SPECIFICATION MODEL: V-2RM

PRESSURE RANGE: 0 - 6,000 psi
 ADJUSTMENT SENSITIVITY: .005 psi
 LEAK RATE: 1×10^{-3} atm cc/sec
 TOTAL MECHANICAL ROTATION: 78 turns
 TEMPERATURE RANGE: 32°F - 120°F
 PROOF PRESSURE: 12,000 psi
 CONSTRUCTION: Aluminum body; stainless steel lead screw and valve, bronze nut, Viton and Teflon seals
 LIFE: 250,000 cycles
 WEIGHT: 6.5 lbs.
 TOTAL VOLUME: 1.53524 cubic inches

Your local 3D Instrument distributor:



Instruments,

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