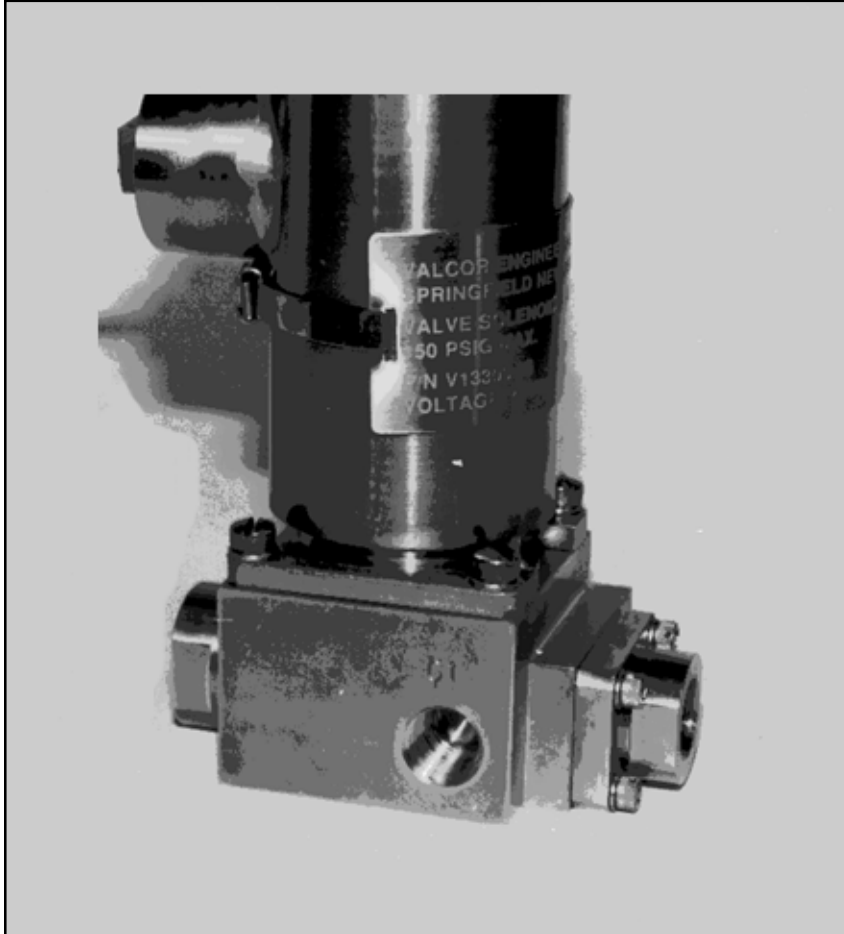




Valcor Nuclear

Low Flow Valve

4-Way, Direct Acting, Solenoid
Model V13300-26



DESCRIPTION

Valcor Nuclear has created this compact and low weight 4-way, direct acting, nuclear qualified, solenoid valve to be used as pilot operator on double acting air cylinders in nuclear power plants. It has been designed specifically to prevent the chronic operational problems associated with conventional solenoid valves currently installed in many CANDU type plants.

Valcor Model V13300-26, a 2-position, single coil valve is ideal for use in a host of safety related applications including PWR and BWR plants, where the principal

function is to control small double acting pneumatic cylinders, including blow-down applications.

The single coil, cool running design is both highly reliable and adaptable. The rugged solenoid is seal welded and is of stainless steel construction. The solenoid does not use any O-rings for environmental sealing.

The valve has a rugged brass body. The disc and bonnet are of stainless steel. Model V13300-26 utilizes Valcor's unique 'Floating Seal' principle that provides a wear compensating graphite seal, which contacts lapped stainless steel seats.

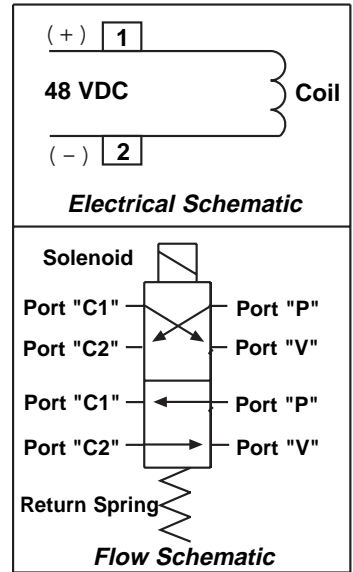
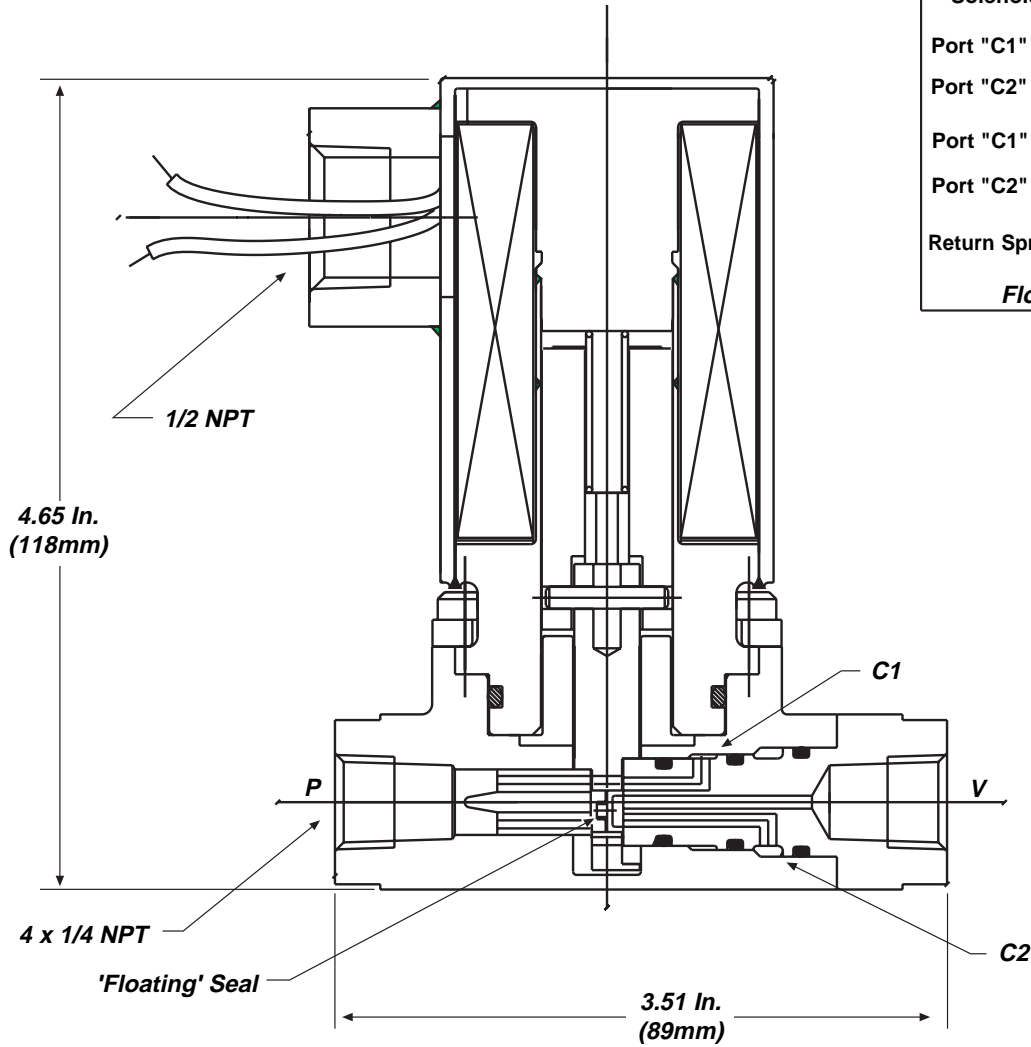
The 'floating seal' gate design eliminates the need for elastomeric type poppets, which are used in most 4-way valves.

The gate-type action wipes the seat clean with each valve operation. Cyclic aging tests demonstrated an improvement in leak tightness at the end of extensive cycling.

THE V13300-26 INCORPORATES THESE OUTSTANDING FEATURES

- Compact size, low weight and rugged construction are special characteristics. This model can replace outdated valves in most cases
- Available in 1/4" line size (Cv = 0.036 minimum); other designs for up to 1/2" line size (Cv = 1.4) available
- Direct acting, 'floating seal' gate type design for internal flow path sealing
- Available in brass body as standard; also can be provided in stainless steel
- Solenoid enclosure is of stainless steel, seal welded construction for NEMA-4, -7 compliance (water tight and explosion proof)
- Coil requires less than 10 watts of power; cool running/potted design with Class H insulation
- 48 VDC standard; 120 VAC/125VDC voltages are available
- Maintenance free - coil replacement in the field can be made without disturbing in-line piping
- Qualified life - 40 years for coil
- CSA certified. The design is registered with MCCR, Province of Ontario, Canada

**OUTLINE DIMENSIONS
MODEL V13300-26**



TYPICAL SPECIFICATIONS

- Fluid: Air
- Flow, C_v : 0.036 to 1.4
- Operating Pressure: 0-150 psig @ 150°F (66°C)
- Body Pressure Rating: 750 psig
- Leakage, External: Zero
- Leakage, Internal: 5.0 sccm max.
- Voltage: 48 VDC
- Power: 10 Watts @ 48 VDC @ 70°F
- Body Material: Brass
- Seal Material: Graphite
- Weight: 5 lbs. (2.27kg) max



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