



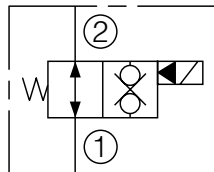
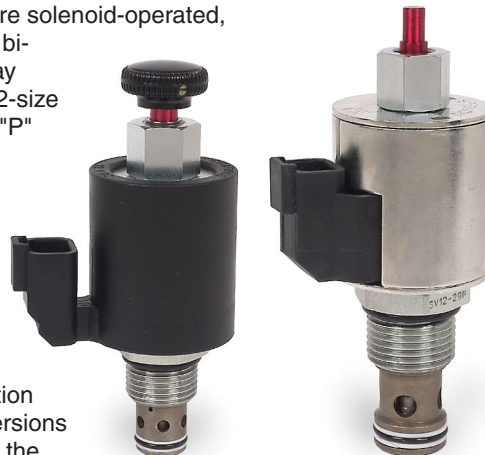
••••• INNOVATION AT WORK FOR YOU •••••

New Double-Blocking Bidirectional Valves are Ideal for Load-Holding, Blocking, or Single-Acting Cylinder Applications

The new SVxx-29 Series valves are solenoid-operated, normally-open, double-blocking, bi-directional, internally-piloted, two-way cartridge valves. Both the 10- and 12-size models are available with either the "P" or "K" manual override options.

As poppet-type valves, they are well-suited for load-holding or blocking valve applications requiring low internal leakage. And because they are bi-directional, they are ideal for single-acting cylinder applications. They can also be used in re-generation applications. The normally-closed versions of these valves are also released as the SV10-28 and the SV12-28.

Rated flows are 20 gpm/75.7 lpm for the 10-size and 30 gpm/114 lpm for the 12-size. We can now capture high-flow two-way solenoid functions with a single cartridge, eliminating the need to have both a high-flow logic element and a small solenoid pilot valve in the circuit. Using one cartridge instead of two helps to reduce both initial system cost, as well as the size of the manifold.



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With pressure drops of only 170 psi/ 11.7 bar for the rated flow, heat build-up and loss of energy should not be problems. As with all internally-piloted valves, a minimum pressure differential is required to lift the poppet. In this case, a 40 psi/2.8 bar differential is needed to lift the poppet. These cartridges have been cycle tested to one-million cycles at full rated flow and pressure, eliminating all worries regarding testing, reliability and life of the products.

Since these valves use the same standard tubes as all other 10- and 12-size poppet valves, the entire range of solenoids are available. The universal 10-size tube allows either the "D" standard or "E" environmental coils to be used or interchanged. Numerous voltages, connection types, and diode options are available for virtually any application.

Care should be taken to adhere to manufacturers published filtration recommendations. HydraForce recommends a minimum filtration of 20/18/15 for standard product valves and a filtration level of 17/15/13 for extended product life. For more information on filtration see HydraForce catalog page 9.010.1.

Features	Benefits
Flow rates of 20 gpm/76 lpm for the 10-size and 30 gpm/114 lpm for the 12-size.	High flow applications can now be done with one cartridge, reducing cost and manifold size.
Poppet-style construction.	Can be used as load holding - eliminating the need for additional cartridges thus reducing system cost.
Manual Override option available.	In an electrical failure, valve can be operated manually.
Universal 10-size solenoid tube.	Any HydraForce 10-size coil can be used. Both "D" standard and "E" environmental coils can be field interchanged without changing cartridges.
HydraForce releases all new product with 3 seal options as standard.	Valves can be applied in a variety of applications and medias using standard product – eliminating the need for special products.
Standard VC10-2 and VC12-2 cavities	Standard housings are already released and stocked at HF.
Operating pressure to 3500 psi/240 bar	Most application pressure requirements are covered.
Cycle tested to one million cycles, and all production valves are 100% tested at full rated flow and pressure.	Long life operation without wear or decreased performance over time. Customer ease that valves will perform right from the start.
5-year limited warranty. (See full warranty statement in the catalog.)	Confidence in knowing you have the highest quality product with 100% support and commitment.

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