

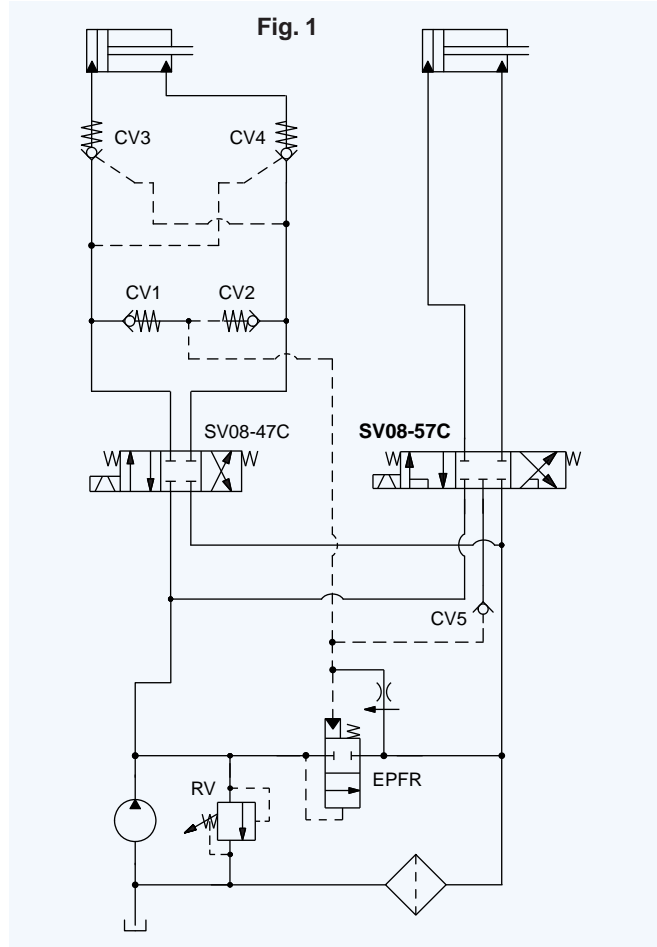
••••• **INNOVATION AT WORK FOR YOU** •••••

Now you can reduce the number of valve cartridges needed in load-sensing circuits with our new dual-solenoid 5-way on-off or proportional directional valves.

The complete line of 5-way, 3-position cartridge valves is now available in standard 08 size and 10 size cartridges. Both the 57C/D and the 58C/D models feature a load-sense port which helps to simplify your hydraulic circuit while reducing your overall part count.

Until now, if the directional function of a hydraulic circuit required load-sensing capabilities, a load-shuttle network or series of load-sense check valves were required to isolate each individual load. Using our new 5-way on-off and proportional directional valves, you can reduce the number of cartridges needed in load-sensing circuits, especially where the load-holding can be done by the directional valve. In applications where safety requirements do not require that load-holding be performed by the actuator (i.e., when position does not need to be maintained over a long period of time and there are no overrunning load conditions) a closed-center 5-way valve can be used to eliminate pilot-operated check or counterbalance valves in the system.

When a 4-way solenoid or proportional directional valve is used in a load-sensing circuit, load-holding valves are required to isolate the load from the load-sense network when the function is not in use. These load-holding valves are necessary to prevent the load-induced pressure generated when the directional solenoid is de-energized (load-holding pressure) from acting on the compensator or leaking through the LS bleed, causing the function to drift. These 5-way solenoid and proportional directional valves automatically isolate the load from the load-sense network when they are de-energized (see Fig. 1). Load-holding valves are not needed unless there are overrunning load conditions that require the use of counterbalance valves.



Dual Solenoid Valves, 5-Way, 3-Position, Spool-Type, with Load Sense Port

On-Off Valves

Flow	Model	Cat. Pg.
15 lpm/4 gpm	SV10-57C	1.580.1
15 lpm/4 gpm	SV10-57D	1.581.1
13 lpm/3.5 gpm	SV08-58C	1.583.1
30 lpm/8 gpm	SV10-58C	1.584.1
13 lpm/3.5 gpm	SV08-58D	1.585.1
30 lpm/8 gpm	SV10-58D	1.586.1

Proportional Valves

Flow	Model	Cat. Pg.
23 lpm/6 gpm	SP10-57C	2.132.1
9.5 lpm/2.5 gpm	SP08-57D	2.134.1
23 lpm/6 gpm	SP10-57D	2.136.1
23 lpm/6 gpm	SP10-58C	2.142.1
15 lpm/4 gpm	SP08-58D	2.145.1
23 lpm/6 gpm	SP10-58D	2.146.1

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Now you can reduce the number of valve cartridges needed in load-sensing circuits with our new dual-solenoid 5-way on-off or proportional directional valves.

In any application where there is a need for multiple functions to operate simultaneously, and a need for speed to remain independent of load pressure, a flow-on-demand type compensator can easily be connected to the load-sense line to provide consistent flow to the actuator (see Fig 2).

These valves can also be used with our CVD08 or CVD10 check valve discs. By simply extending the cavity pilot drill for the 57- or 58-style valve, the CVD can be installed below the cartridge valve (see Fig 3). This will save cost by eliminating the need for a load-sense check valve in a separate cavity. Overall system performance will be improved since the CVD delivers superior pressure-drop performance compared to a CV04-20 check valve at flows typical in a load-sense circuit. This results in lower losses in the load-sense network and a more accurate load signal to the compensator. Please note that a CVD cannot be used in the leg of a circuit that utilizes a flow-on-demand style compensator because the compensator needs to reference the load pressure between port 1 of the 5-way valve and the LS check.

Fig. 2

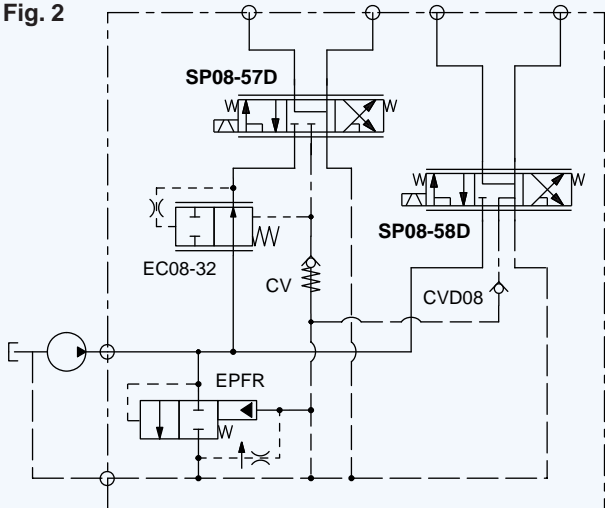
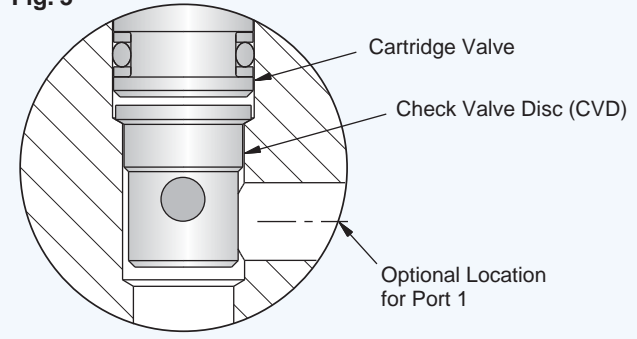


Fig. 3



Valve Features	Benefits
All standard seal and coil options available.	Valves can be ordered to meet specific application needs.
Optional waterproof E-Coils rated up to IP69K.	Reliability in the harshest, most severe operating conditions.
Uses industry standard VC08-5 and VC10-5 cavities.	No additional tooling costs required. Std. housings in stock.
Check Valve Discs (CVDs) in 08 and 10 sizes, can eliminate the need for separate check valves and their cavities.	Reduces the number of cavities and tooling cost, while delivering lower pressure drop performance.
Manual Override option available on most models.	In an electrical failure, valve can be operated manually.
Tested to 1 million cycles at full rated pressure.	Long life without wear or decreased performance over time.
5-year limited Warranty (See full warranty statement in the catalog or on our website.)	Confidence, with the backing of the industry's leading manufacturer of hydraulic cartridge valves.
Easily integrates with our robust line of electronic controls.	Saves programming and integration time.

HydraForce is dedicated to innovation, quality and superior technical support in order to provide our customers with the most competitive high-performance system solutions in the industry. Please see www.hydraforce.com for additional product information, or contact your HydraForce representative for assistance

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