

HSV Solenoid Valves (350 bar)

**HSV & HSVP
 High Pressure
 Solenoid Valves**

Today's mobile equipment places ever greater demands on hydraulic systems, including 350 bar (5075 psi) pressure requirements. As performance requirements continue to rise in relation to equipment size, circuit designers are continually seeking hydraulic components combining high pressure capabilities with higher power-to-weight ratios. In response to this trend, Comatrol introduces its new platform of high pressure solenoid valves.

Comatrol high pressure solenoid valves are available in 2-way poppet (HSVP) for 10,12,16 and 20 size cavities. The spool type (HSV) valves are available in 10 size with the following configurations: 2-position, 2-way; 2-position, 3-way; 3-position, 4-way. These valves are rated for pressures up to 350 bar(5075psi) and have been qualified to the rigorous standards of NFPA T2.6.1

Flow range from 25 LPM to 265 LPM (6.6 to 70 gal/min)

Comatrol, a member of the Danfoss Group, is the most responsive and innovative choice for Cartridge Valves and Hydraulic Integrated Circuit (HIC) needs. Comatrol works with customers and suppliers around the world to manufacture high performance machine control solutions for mobile, on-highway, energy and industrial equipment markets. For more information on HSV Valves, refer to the Comatrol website and/or Solenoid Valve Catalog.

Local Address:



HSVP10

HSVP12

HSVP16

HSVP20

HSV10

HSV10-23

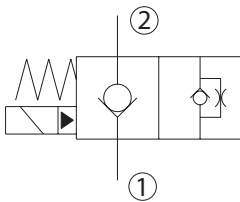
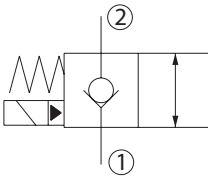
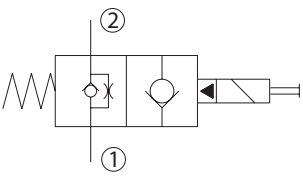
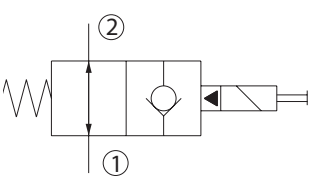
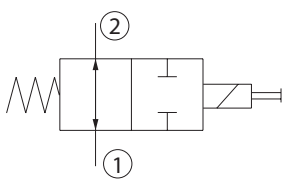
HSV10-24

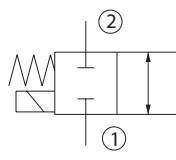
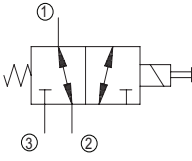
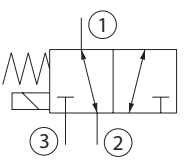
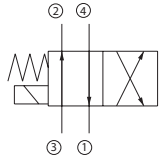
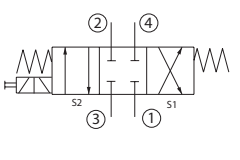
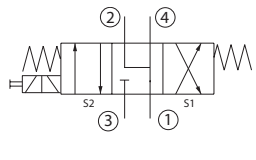
HSV10-34

Features

- High Pressure - 350 bar (5075 psi)
 - Designed for today's higher pressure hydraulic systems
 - Tested according to rigorous standards of NFPA T2.6.1(cycled at 420 bar for 1 million cycles)
- Standard NFPA cavities
 - No tooling change needed between standard and high pressure cavities to machine cavities
 - Competitive products require either non-NFPA or modified tooling when changing from standard to high pressure valves
- Optimized designs drive market-leading flow
 - HSV10 spool valves provide as much as 50% more flow than their 210 bar counterpart
 - Designed with high flow and low pressure drop to help minimize losses in the hydraulic circuit, thus consrvng power and saving fuel on the vehicle
 - For HSV10 spool type , flows range from 25 to 50 LPM (6.6 to 13 US gal/ min)
 - For HSVP10,12,16 &20 poppet type , flows range from 65 to 265 LPM (17 to 70 US gal/min)
- New Environmentally Robust H16 Coil
 - High power coil (29 Watts) ensures reliable valve shifting
 - Common coil for all HSV and HSVP solenoid valves (10-, 12-, 16-, & 20-Size)
 - IP69K Environmental Rating for all connector options: Deutsch,Amp SuperSeal, Metri-Pack 150 Type 2 and Lead Wires
 - Optional Bi-directional diodes available
 - No O-ring seal is required around coils
- Polyurethane single seal featured on 10 Size valves, eliminating the need for back-up rings
- Manual Override
 - Push-pin override available as standard on all normally open valves
 - New Push-and-Twist (PAT) allows the operator to push and then twist the manual override into a detented position on normally open valves
 - Push-and-Pull (PAP) for 3- position , 4-way valves currently development (2Q14)
- Broad Portfolio:
 - 23 valves now available to choose from to best fit the application need.
 - Coming soon (2Q14): Double-Blocking, pilot-operated (10 and 16 Size; Normally Open and Closed)

TECHNICAL INFORMATION

Schematic	Model Cavity	BAR PSI	LPM GPM
 <p>Solenoid Valve, Poppet Type, Normally Closed, Pilot Operated</p>	HSVP10-NC SDC10-2	350 5075	80 21
	HSVP12-NC SDC12-2CP	350 5075	114 30
	HSVP16-NC SDC16-2	350 5075	152 40
	HSVP20-NC SDC20-2	350 5075	227 60
 <p>Solenoid Valve, Poppet Type, Normally Closed, Pilot Operated, with Reverse Free Flow</p>	HSVP10-NCR SDC10-2	350 5075	80 21
	HSVP12-NCR SDC12-2CP	350 5075	114 30
	HSVP16-NCR SDC16-2	350 5075	152 40
	HSVP20-NCR SDC20-2	350 5075	227 60
 <p>Solenoid Valve, Poppet Type, Normally Open, Pilot Operated</p>	HSVP10-NO SDC10-2	350 5075	80 21
	HSVP12-NO SDC12-2CP	350 5075	114 30
	HSVP16-NO SDC16-2	350 5075	152 40
	HSVP20-NO SDC16-2	350 5075	265 70
 <p>Solenoid Valve, Poppet Type, Normally Open, Pilot Operated with Reverse Free Flow</p>	HSVP10-NOR SDC10-2	350 5075	80 21
	HSVP12-NOR SDC12-2CP	350 5075	114 30
	HSVP16-NOR SDC16-2	350 5075	152 40
	HSVP20-NOR SDC20-2	350 5075	265 70
 <p>Solenoid Valve, Spool Type, 2-Position, 2-Way, Normally Open</p>	HSV10-22-01 SDC10-2	350 5075	50 13

Schematic	Model Cavity	BAR PSI	LPM GPM
 <p>Solenoid Valve, Spool Type, 2-Position, 2-Way,</p>	HSV10-22-02 SDC10-2	350 5075	50 13
 <p>Solenoid Valve, Spool Type, 2-Position, 3-Way</p>	HSV10-23-01 SDC10-3	350 5075	30 8
 <p>Solenoid Valve, Spool Type, 2-Position, 3-Way</p>	HSV10-23-02 SDC10-3	350 5075	28 7.4
 <p>Solenoid Valve, Spool Type, 2-Position, 4-Way</p>	HSV10-24-01 SDC10-4	350 5075	25 6.6
 <p>Solenoid Valve, Spool Type, 3-Position, 4-Way</p>	HSV10-34-02 SDC10-4	350 5075	25 6.6
 <p>Solenoid Valve, Spool Type, 3-Position, 4-Way</p>	HSV10-34-05 SDC10-4	350 5075	25 6.6