

Solenoid Valves

Solenoid Valve Family

Comatrol's screw-in, cartridge-style solenoid valves are electrically-operated, on-off poppet or spool-type valves for piloting, load-holding, blocking, or controlling the direction of flow in a hydraulic circuit. With 8 different cavities and 28 different schematics, the Comatrol portfolio provides hydraulic circuit designers a large selection with over 65 solenoid valves to choose from - and flow ranges from 6 LPM (1.6 GPM) to 230 LPM (61 GPM). Additionally, each of these valves can be found in Comatrol's circuit design software, EasyValve™, making it easy for anyone to quickly create a hydraulic circuit.

Solenoid valves have always been a strong part of Comatrol's portfolio, with over a million valves in the field, making them a proven product in mobile and industrial applications. The optional Robust Coil is available on most models and is designed for extreme environmental conditions – voltage extremes, high temperature, shock & vibration, chemicals, and/or water ingress. Some models are also available with a screen to protect the circuit from debris.

Comatrol, a member of the Sauer-Danfoss Group, we engineer, manufacture and supply screw-in Cartridge Valves and Hydraulic Integrated Circuits (HIC) to market-leading quality levels. We work closely with our customers around the world to deliver optimal machine control solutions based on their specific needs.

Local Address:



Features

- Poppet and spool-type valves
 - For piloting, load-holding, blocking or controlling the direction of flow in a hydraulic circuit
- 8 cavities, 28 schematics, providing 65 solenoid valves to choose from
 - 06, 08, 09, 10, 12, 15, 16 and 20 sizes
 - 2-way, 3-way, and 4-way schematics
- Max flow ranges from 6 LPM (1.6 GPM) to 230 LPM (61 GPM)
- Pressure ratings up to 240 bar (3500 psi)
 - Based on NFPA fatigue test standards (at 1 million cycles)
- Proven & Robust Products
 - Over 1 million valves in the field
 - Robust Coil option available on most valves for extreme environmental conditions
- PLUS+1™ Compliant
 - All coils are designed for installation on machines that utilize Sauer-Danfoss PLUS+1 hardware, ensuring they are compliant out of the box.

08 Size

- Flow rating up to 35 LPM (9 GPM)
- Pressure rating up to 230 bar (3300 psi)
- Optional Robust Coil
- Manual override available on certain models

09 Size

- Hybrid Design: 10 Size Cavity & 08 Size Coil
- Designed for applications requiring low pressure drop and smooth operation cold temperature environments
- Flow rating up to 21 LPM (6 GPM)
- Pressure rating up to 100 bar (1450 psi)
- Optional Robust Coil
- Optional 500 micron filter
- Manual override available on certain models

10 Size

- Flow rating up to 80 LPM (21 GPM)
- Pressure rating up to 230 bar (3300 psi)
- Optional Robust Coil
- Manual override available on certain models

15 Size (New!)

- High Flow Spool-Type Valves, providing an alternative to D03 CETOP valves
- Flow ratings up to 60 LPM (16 GPM)
- Pressure rating up to 200 bar (3000 psi)
- Optional 300 micron filter (4 models)
- Manual override available on certain models

06, 12, 16, 20 Sizes

- Poppet-type valves for high flow capacity and low leakage
- Flow ratings up to 230 LPM (61 GPM)
- Pressure rating up to 230 bar (3300 psi)
- Manual override available on certain models

MODEL	BAR PSI	LPM GPM	CAVITY COIL
EVH 06/D5	230 3300	20 5	NCS06/3 M16/R16
SVP08-CDB	230 3300	16 4	SDC08-2 M13/R13
EVK 06/C5	210 3000	50 13	NCS06/2 M16/R13
SVP08-NC	230 3300	35 9	SDC08-2 M13/R16
SVP10-NC	230 3300	80 21	SDC10-2 M16/R16
CP501-1	210 3000	115 30	CP12-2 D10
SVP08-NCR	230 3300	35 9	SDC08-2 M13/R13
SVP10-NCR	230 3300	80 21	SDC10-2 M16/R16
CP501-3	210 3000	115 30	CP12-2 D10
CP502-3	210 3000	130 34	SDC16-2 D10
CP503-3	210 3000	230 61	SDC20-2 D10
SVP08-NO	230 3300	35 9	SDC08-2 M13/R13
SVP10-NO	230 3300	80 21	SDC10-2 M16/R16
CP501-2	210 3000	115 30	CP12-2 D10
SVP08-NOR	230 3300	35 9	SDC08-2 M13/R13
SVP10-NOR	230 3300	80 21	SDC10-2 M16/R16
CP501-4	210 3000	115 30	CP12-2 D10
CP502-4	210 3000	130 34	SDC16-2 D10
CP503-4	210 3000	230 61	SDC20-2 D10

MODEL	BAR PSI	LPM GPM	CAVITY COIL
SV08-22-01	230 3300	16 4	SDC08-2 M13/R13
SV10-22-01	230 3300	27 7	SDC10-2 M16/R16
SV15-22-01	210 3000	60 16	NCS12/2 M19
SV08-22-02	230 3300	14 4	SDC08-2 M13/R13
SV10-22-02	230 3300	35 9	SDC10-2 M16/R16
SV15-22-02	210 3000	60 6	NCS12/2 M19
SV08-22-03	230 3300	12 3	SDC08-2 M13/R13
SV08-23-01	230 3300	17 5	SDC08-3 M13/R13
SV10-23-01	230 3300	28 7	SDC10-3 M16/R16
CP521-21	240 3500	60 16	CP12-3 D14E
SV08-23-02	230 3300	10 3	SDC08-3 M13/R13
SV09-23-02	100 1450	21 6	SDC10-3 M13/R13
SV10-23-02	230 3300	15 4	SDC10-3 M16/R16
SV08-23-03	230 3300	18 5	SDC08-3 M13/R13
SV08-23-04	230 3300	10 3	SDC08-3 M13/R13
SV10-23-04	230 3300	20 5	SDC10-3 M16/R16
SV15-23-04	210 3000	50 13	NCS12/3 M19

MODEL	BAR PSI	LPM GPM	CAVITY COIL
SV08-24-01	230 3300	8 2	SDC08-4 M13/R13
SV09-24-01	100 1450	20 5	SDC10-4 M13/R13
SV10-24-01	230 3300	15 4	SDC10-4 M16/R16
SV15-24-01	210 3000	55 15	NCS12/4 M19
SV08-24-02	230 3300	10 3	SDC08-4 M13/R13
SV10-24-02	230 3300	24 6.3	SDC10-4 M16/R16
SV15-24-02	210 3000	60 16	NCS12/4 M19
SV15-24-03	210 3000	50 13	NCS12/4 M19
SV08-24-04	230 3300	8 2	SDC08-4 M13/R13
SV15-24-04	210 3000	50 13	NCS12/4 M19
SV10-24-12	230 3300	18 5	SDC10-4 M16/R16
SV10-24-05	230 3300	25 7	SDC10-4 M16/R16
SV10-24-06	230 3300	23 6	SDC10-4 M16/R16
SV10-24-07	230 3300	24 6	SDC10-4 M16/R16
SV08-24-08	230 3300	24 6	SDC08-4 M13/R13

MODEL	BAR PSI	LPM GPM	CAVITY COIL
CP531-21	240 3500	32 8	CP12-4 D14E
SV10-24-13	230 3300	21 6	SDC10-4 M16/R16
SV08-34-02	230 3300	10 4	SDC08-4 M13/R13
SV10-34-02	230 3300	20 6	SDC10-4 M16/R16
SV15-34-02	210 3000	55 15	NCS12/4 M19
SV08-34-03	230 3300	8 2	SDC08-4 M13/R13
SV10-34-03	230 3300	16 4	SDC10-4 M16/R16
SV15-34-03	210 3000	50 13	NCS12/4 M19
SV08-34-04	230 3300	6 2	SDC08-4 M13/R13
SV15-34-04	210 3000	50 13	NCS12/4 M19
SV10-34-04	230 3300	15 4	SDC10-4 M16/R16
SV08-34-05	230 3300	10 3	SDC08-4 M13/R13
SV10-34-05	230 3300	20 5	SDC10-4 M16/R16
SV15-34-05	210 3000	55 15	NCS12/4 M19
SV10-34-11	230 3300	24 6	SDC10-4 M16/R16
SV10-34-14	230 3300	17 4.5	SDC10-4 M16/R16