

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 |
|-----------|-------------|-----------|---|
| | | | Poppet Type, 3-Way, 2-Position |
| EVH 06/D5 | 230 3300 | 20 5 | NCS06/3 M16/R16 |
| | | | Poppet Type, 3-Way, 2-Position, Double Blocking |
| SVP08-CDB | 230 3300 | 16 4 | SDC08-2 M13/R13 |
| EVK 06/C5 | 210 3000 | 50 13 | NCS06/2 M16/R13 |
| | | | Poppet Type, 3-Way, 2-Position, Normally Closed, Pilot Operated |
| 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 |
| | | | Poppet Type, Normally Closed, Pilot Operated, Rev. Free Flow |
| 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 |
| | | | Poppet Type, Normally Open, Pilot Operated |
| 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 |
| | | | Poppet Type, Normally Open, Pilot Operated, Rev. Free Flow |
| SVP08-NOR | 230 3300 | 35 9 | SDC08-2 M13/R13 |
| SVP10-NOR | 230 3300 | 80 21 | SDC10-2 M16/R16 |
| | | | Poppet Type, Normally Open, Pilot Operated, Rev. Free Flow |
| 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 |
|------------|-------------|----------|---|
| | | | Spool Type, 2-Way, 2-Position, Normally Open, Pull Type |
| SV08-22-01 | 230 3300 | 16 4 | SDC08-2 M13/R13 |
| | | | Spool Type, 2-Way, 2-Position, Normally Open, Pull Type |
| SV10-22-01 | 230 3300 | 27 7 | SDC10-2 M16/R16 |
| SV15-22-01 | 210 3000 | 60 16 | NCS12/2 M19 |
| | | | Spool Type, 2-Way, 2-Position, Normally Closed, Pull Type |
| 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 |
| | | | Spool Type, 2-Way, 2-Position, Normally Open, Pull Type |
| SV08-22-03 | 230 3300 | 12 3 | SDC08-2 M13/R13 |
| | | | Spool Type, 3-Way, 2-Position |
| 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 |
| | | | Spool Type, 3-Way, 2-Position |
| 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 |
| | | | Spool Type, 3-Way, 2-Position |
| SV08-23-03 | 230 3300 | 18 5 | SDC08-3 M13/R13 |
| | | | Spool Type, 3-Way, 2-Position |
| 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 |
|------------|-------------|-----------|-------------------------------|
| | | | Spool Type, 4-Way, 2-Position |
| 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 |
| | | | Spool Type, 4-Way, 2-Position |
| 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 |
| | | | Spool Type, 4-Way, 2-Position |
| SV15-24-03 | 210 3000 | 50 13 | NCS12/4 M19 |
| | | | Spool Type, 4-Way, 2-Position |
| SV08-24-04 | 230 3300 | 8 2 | SDC08-4 M13/R13 |
| SV15-24-04 | 210 3000 | 50 13 | NCS12/4 M19 |
| | | | Spool Type, 4-Way, 2-Position |
| SV10-24-12 | 230 3300 | 18 5 | SDC10-4 M16/R16 |
| | | | Spool Type, 4-Way, 2-Position |
| SV10-24-05 | 230 3300 | 25 7 | SDC10-4 M16/R16 |
| | | | Spool Type, 4-Way, 2-Position |
| SV10-24-06 | 230 3300 | 23 6 | SDC10-4 M16/R16 |
| | | | Spool Type, 4-Way, 2-Position |
| SV10-24-07 | 230 3300 | 24 6 | SDC10-4 M16/R16 |
| | | | Spool Type, 4-Way, 2-Position |
| SV08-24-08 | 230 3300 | 24 6 | SDC08-4 M13/R13 |

| MODEL | BAR PSI | LPM GPM | CAVITY COIL |
|------------|-------------|-----------|-------------------------------|
| | | | Spool Type, 4-Way, 2-Position |
| CP531-21 | 240 3500 | 32 8 | CP12-4 D14E |
| | | | Spool Type, 4-Way, 2-Position |
| SV10-24-13 | 230 3300 | 21 6 | SDC10-4 M16/R16 |
| | | | Spool Type, 4-Way, 3-Position |
| 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 |
| | | | Spool Type, 4-Way, 3-Position |
| 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 |
| | | | Spool Type, 4-Way, 3-Position |
| SV08-34-04 | 230 3300 | 6 2 | SDC08-4 M13/R13 |
| SV15-34-04 | 210 3000 | 50 13 | NCS12/4 M19 |
| | | | Spool Type, 4-Way, 3-Position |
| SV10-34-04 | 230 3300 | 15 4 | SDC10-4 M16/R16 |
| | | | Spool Type, 4-Way, 3-Position |
| 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 |
| | | | Spool Type, 4-Way, 3-Position |
| SV10-34-11 | 230 3300 | 24 6 | SDC10-4 M16/R16 |
| | | | Spool Type, 4-Way, 3-Position |
| SV10-34-14 | 230 3300 | 17 4.5 | SDC10-4 M16/R16 |