SVC0.S08 Valve Series

SAE Cartridge - 250 bar
Directional Valve - 3/2 Seated type

Description

A Solenoid operated, 3 way 2 positions, seated type, direct acting, screw-in hydraulic directional cartridge valve.

In the de-energized mode, the SVC0.S08 allows flow bidirectionally between ports 2 and 3, while blocking flow at 1. In this stage the leakage on port 1 is very limited.

In the energized mode, bidirectional flow is allowed between ports 1 and 2, while flow is blocked at 3 with a low leakage.

The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.

Low pressure drop thanks to optimized flow path.

Technical Features

All external surfaces are zinc plated and corrosion-proof.

All valve parts are made of high strength steel. Spool and cage are hardened and super-finished to ensure minimal wear and extended service life.
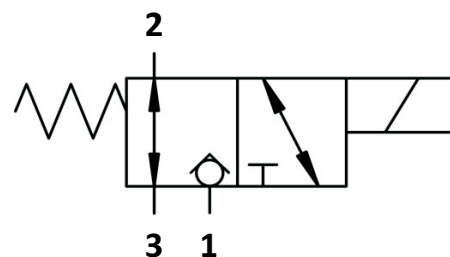
Coil seals protect the solenoid system.
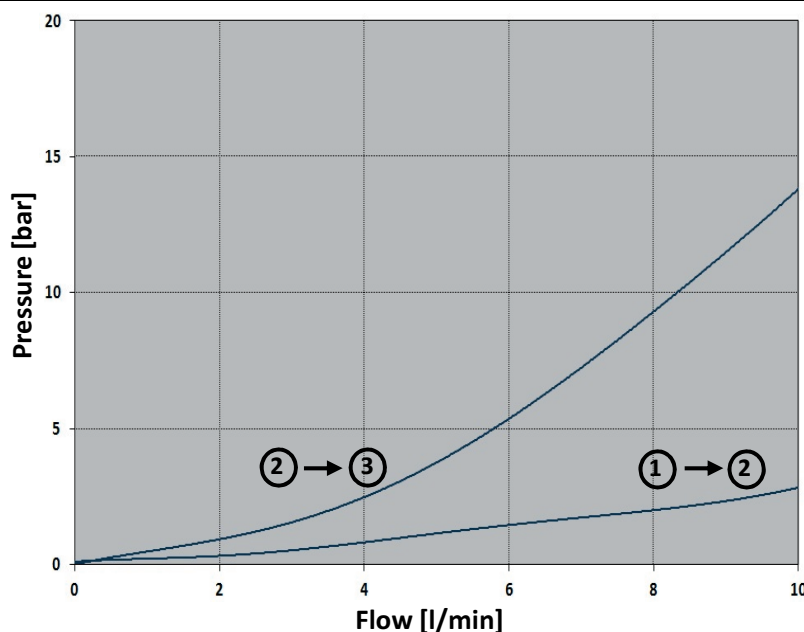
Manual override option.

Industry SAE common cavity.

Symbols

Performance Details

Technical Data

Maximum operating pressure: 250 bar

Maximum flow: 10 l/min

Leakage on port 1: max 0,25 cc/min @ 250 bar

Leakage: max 85 cc/min @ 250 bar

Response time: Energized 30 msec, De-energized 50 msec (typical 24V DC coil)

Temperature: -30°C to 110°C

Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt

Minimum pull-in voltage: 85% of nominal
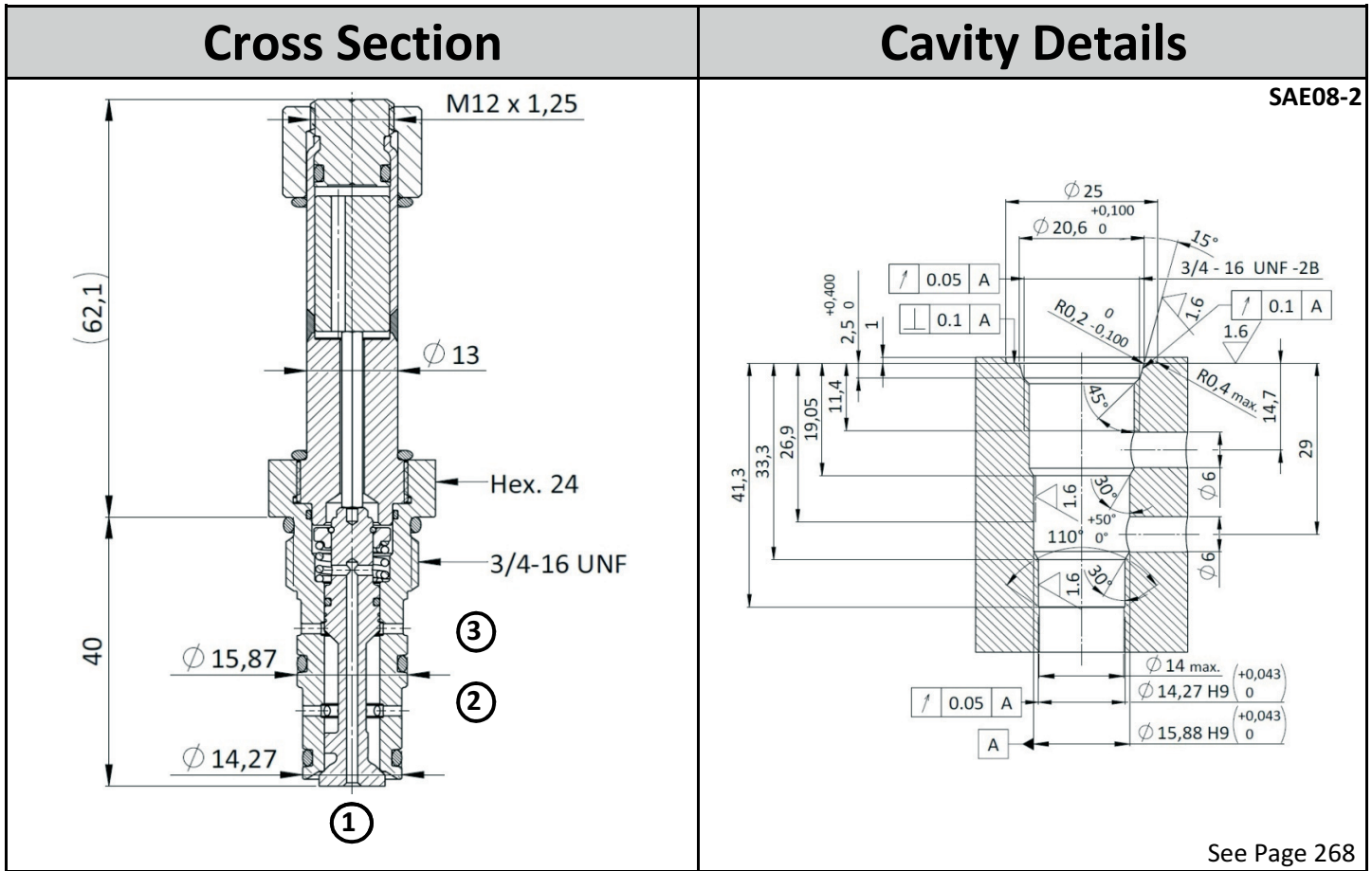
Orientation: no restrictions

Installation torque: 40-45 Nm

Seal kit code: SK.035 and SK.027 (coil)

Weight: 0.140 kg

NOTE: The performance chart illustrates flow handling capacity 2 to 3 (de-en) and 1 to 2 (en). P/Q curves are recorded at T_{Oil} = 40°C and 46 cSt

Cross Section	Cavity Details

Cross Section

- M12 x 1,25
- Ø 13
- Hex. 24
- 3/4-16 UNF
- (62,1)
- 40
- Ø 15,87
- Ø 14,27
- ③
- ②
- ①

Cavity Details

SAE08-2

See Page 268

Ordering Code

S	V	C	0	.	S	0	8	.	0	*	.	1	0	0

Valve Basic Code

Cavity
S08 = UNF - SAE08-2

Flow path 2 and 3 connected, 1 blocked (de-energized)
1 and 2 connected, 3 blocked (energized)

Manual override (see table below for available options and page 257 for more details)

Marking **0** = Standard factory marking
Customized markings can be done upon request

Manual Override

Model Code	Type of override
0	No override
3	Push pin
4	Push knob
5	Screw

Coil

12 VDC

Use **22W** coil to operate this valve. For more details see page 263.

Specifications may change without notice.