

SD3E-B2

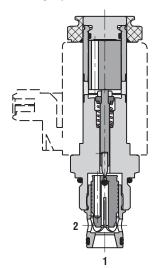
2/2 Directional Valve, Solenoid Operated, Poppet Type, Piloted



- 7/8-14 UNF
- Q_{max} 75 l/min (20 GPM)
- p_{max} 420 bar (6100 PSI)



Normally Open



Technical Features

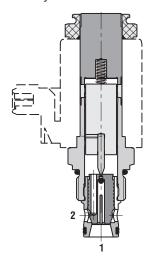
- Hardened precision parts
- High flow capacity and leak-free closing
- High transmitted hydraulic power up to 420 bar
- Normally open and normally closed version
- Wide range of manual overrides available
- All ports may be fully pressurized
- Coil interchangeability among SD*- B* product line
- Standard version zinc-coated with surface protection acc. to ISO 9227 (240 h salt spray)

Functional Description

2-way, 2-position high pressure piloted poppet valve in form of a screw-in cartridge. The valve is used mainly for on-off bi-directional control of flow to actuators with leak-free closing in one direction.

Model Code	202	2L2	
Symbol		2	

Normally Closed



Technical Data

Valve size / Cartridge cavity		7/8-14 UNF-2A / B2	
		Lightline	High performance
Max. flow	l/min (GPM)	60 (13.2)	75 (15.9)
Max. operating pressure	bar (PSI)	250 (3630)	420 (5080)
Fluid temperature range	°C (°F)	-2060 (-4140)	-2080 (-4176)
Ambient temperature range	°C (°F)	-2050 (-4122)	-2080 (-4176)
Supply voltage tolerance	%	AC, DC: ± 10	AC, DC: ± 15
Max. switching frequency	1/h	15 000	
Mass without coil	kg (lbs)	0.23 (0.51)	0.30 (0.66)

		Datasheet	Туре	
General information		GI_0060	Products and operating conditions	
Coil types		C_8007	C19B*	C22B*
Valve bodies	In-line mounted	SB_0018	SB-B2*	
	Sandwich mounted	SB-04(06)_0028	SB-*B2*	
Cavity details / Form tools		SMT_0019	SMT-B2*	
Spare parts		SP_8010		

Characteristics measured at $v = 32 \text{ mm}^2\text{/s} (156 \text{ SUS})$

Operating limits - Lightline

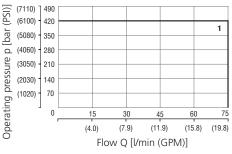
Oil 60 °C (140 °F) / Ambient temperature 50 °C (122 °F) / Voltage U_a -10% (21.6 VDC)

Operating pressure p [bar (PSI)] (4350) - 300 (3630) (2900) - 200 (2180) -150 (1450) 100 (730) -50 (4.0)(7.9) (11.9) (15.8)Flow Q [l/min (GPM)]

	Model	Connection
1	2L2	1→2, 2→1
1	202	$1\rightarrow 2, 2\rightarrow 1$

Operating limits - High performance

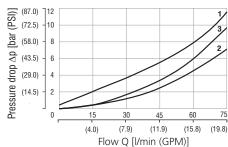
Oil 80 °C (176 °F) / Ambient temperature 50 °C (122 °F) / Voltage U_n -10% (21.6 VDC)



	Model	Connection
1	2L2	1→2, 2→1
1	202	1→2, 2→1

Pressure drop related to flow rate

- Lightline, High performance



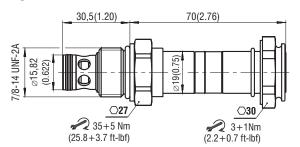
	Model	Connection	Solenoid
1	2L2	1→2	off
2	2L2	2→1	on
2	2L2	1→2	on
2	202	1→2	off
3	202	2→1	off

For operating limits under conditions and flow directions other than shown contact our technical support.

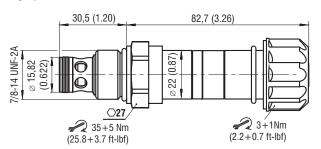


Dimensions in millimeters (inches)

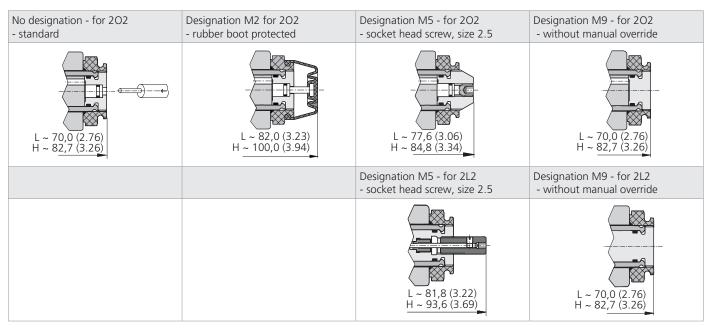
Lightline



High performance



Manual Override in millimeters (inches)



In case of solenoid malfunction or power failure, the spool of the valve can be shifted by manual override as long as the pressure in port T does not exceed 25 bar (363 PSI). For alternative manual overrides contact our technical support.

Ordering Code

