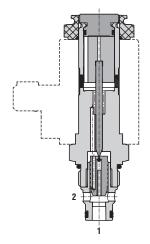
SD3E-A2

3/4-16 UNF • Q_{max} 30 l/min (8 GPM) • p_{max} 420 bar (6100 PSI)

Normally Open



Technical Features

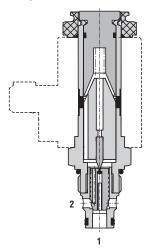
- Hardened precision parts
- > High flow capacity and leak-free closing
- > High transmitted hydraulic power up to 420 bar
- Lightline design 250 bar with reduced solenoid power for production cost saving
- > Normally open and normally closed version
- > Wide range of manual overrides available
- > All ports may be fully pressurized
- > Coil interchangeability among SD*- A* 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, pilot operated 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			

Normally Closed



Technical Data

Valve size / Cartridge cavity		3/4-16 UN	3/4-16 UNF-2A / A2	
		Lightline	High performance	
Max. flow	l/min (GPM)	30 (7.9)	30 (7.9)	
Max. operating pressure	bar (PSI)	250 (3630)	420 (6090)	
Fluid temperature range	°C (°F)	-2060 (-4140)	-2080 (-4176)	
Ambient temperature range	°C (°F)	-2050 (-4122)	-2080 (-4176)	
Supply voltage tolerance	%	DC: ± 10	AC, DC: ± 15	
Max. switching frequency	1/h	15 000		
Mass without coil	kg (lbs)	0.12 (0.26)	0.20 (0.44)	

		Datasheet	Туре	
General information		GI_0060	Products and operating conditions	
Coil types		C_8007	C14B*	C19B*
Valve bodies	In-line mounted	SB_0018	SB-A2*	
	Sandwich mounted	SB-04(06)_0028	SB-*A2*	
Cavity details / Form tools		SMT_0019	SMT-A2*	
Spare parts		SP_8010		

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

Operating limits - Lightline + High performance

- L Oil 60 °C (140 °F) / Ambient temperature/ 50 °C (122 °F) / Voltage U₂ -10% (21.6 VDC)
- HP Oil 80 °C (176 °F) Ambient temperature 50 °C (122 °F) Noltage U₂ -10% (21.6 VDC)

(6090) (5800) (PSI) Operating pressure p [bar (4350) 300 (2900) (1450) 100 25 30 (1.3) (2.6) (4.0) (5.3) (6.6) (7.9) Flow Q [l/min (GPM)]

	Model	Connection
1	L2L2	1→2, 2→1
1	L2O2	1→2, 2→1
2	H2L2	1→2, 2→1
2	H2O2	1→2, 2→1

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

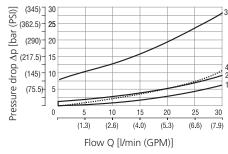
Page 1

Pressure drop related to flow rate

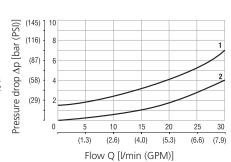
- Lightline

Pressure drop related to flow rate

- High performance

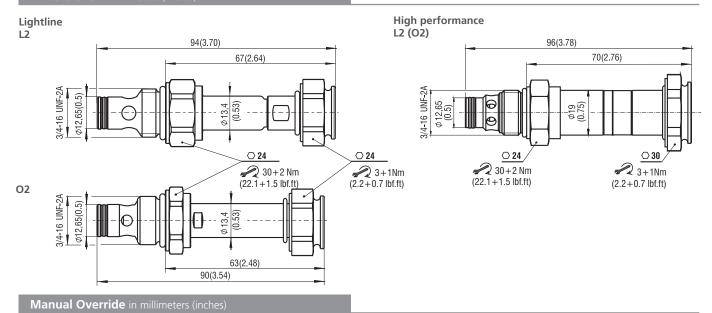


	Model	Connection	Solenoid
1	L2L2	1→2	on
1	L2L2	2→1	on
1	L2O2	2→1	off
2	L2L2	1→2	off
3	L2O2	1→2	on
4	L202	1→2	off



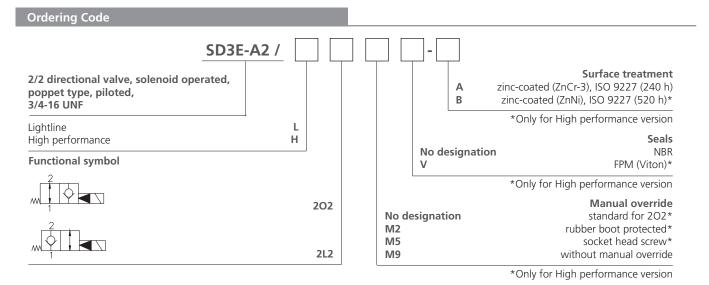
	Model	Connection	Solenoid
1	H2L2	1→2	off
2	H2L2	1→2	on
2	H2L2	2→1	on
2	H2O2	1→2	off
2	H2O2	2→1	off
2	H2O2	1→2	on





Designation M2 for 2O2 Designation M5 for 202 Designation M9 for 202 No designation - standard for 202* - rubber boot protected * - socket head screw, size 2.5 - without manual override ~ 81.5 (3.21) ~ 77.6 (3.06) ~ 70.0 (2.76) H ~ 70.0 (2.76) L~90.0 (3.54) Designation M5 for 2L2 Designation M9 for 2L2 - socket head screw, size 2.5* - without manual override *Only for High performance version ~88.8 (3.50) H~70.0 (2.76)

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.



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