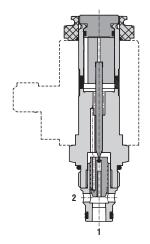
SD3E-A2

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

Normally Open



Technical Features

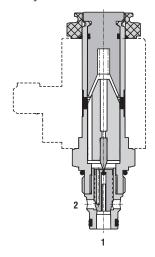
- Hardened precision parts
- > High flow capacity and leak-free closing
- > High transmitted hydraulic power up to 420 bar
- Lightline design 250 bar with reduced solenoid power for production cost saving
- > Normally open and normally closed version
- > Wide range of manual overrides available
- > All 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 UNF-2A / A2 (C-8-2)	
			Lightline	High performance
Max. flow		I/min (GPM)	30 (7.9)	30 (7.9)
Max. operating pressure		bar (PSI)	250 (3630)	420 (6090)
Fluid temperature range (NBR)		°C (°F)	-3060 (-22140)	-3080 (-22176)
Fluid temperature range (FPM)		°C (°F)	-2060 (-4140)	-2080 (-4176)
Ambient temperature range		°C (°F)	-3050 (-22122)	-3080 (-22176)
Supply voltage tolerance		%	DC: ± 10	AC, DC: ± 15
Max. switching frequency		1/h	15 000	
Weight without coil		kg (lbs)	0.12 (0.26)	0.20 (0.44)
		Datasheet	Type	
General inform	neral information GI_0060		Products and operating conditions	
Coil types		C_8007	C14B*	C19B*
Valve bodies	In-line mounted	SB_0018	SB-A2*	
valve bodies	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) 2 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	$1 \to 2, 2 \to 1$

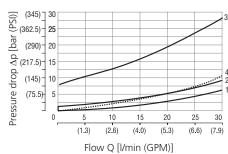
For operating limits under conditions and flow directions other than shown contact our technical support.

Pressure drop related to flow rate

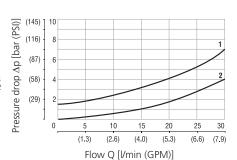
- Lightline

Pressure drop related to flow rate

- High performance



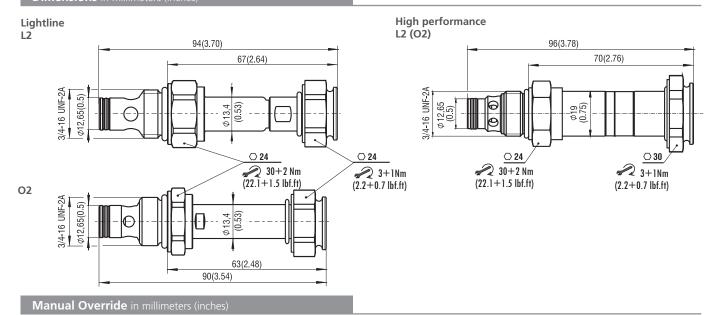
		Model	Connection	Solenoid
	1	L2L2	1→2	on
	1	L2L2	2→1	on
	1	L2O2	2→1	off
	2	L2L2	1→2	off
	3	L2O2	1→2	on
	4	L2O2	1→2	off

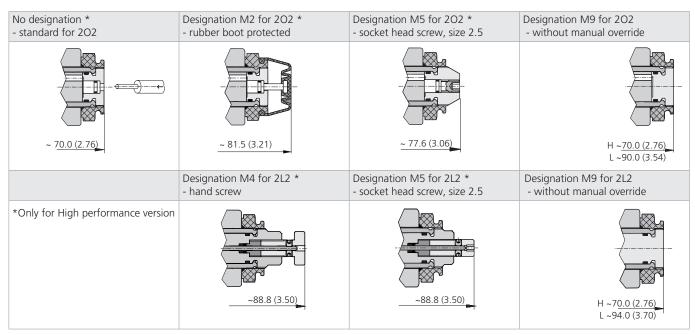


	Model	Connection	Solenoid
1	H2L2	1→2	off
2	H2L2	1→2	on
2	H2L2	2→1	on
2	H2O2	1→2	off
2	H2O2	2→1	off
2	H2O2	1→2	on

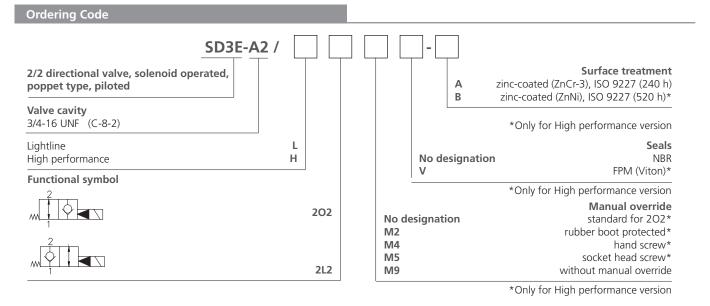
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Dimensions in millimeters (inches)





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.



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