# SD3E-A2

3/4-16 UNF • Q<sub>max</sub> 30 l/min (8 GPM) • p<sub>max</sub> 420 bar (6100 PSI)

### **Normally Open**

# **Technical Features**

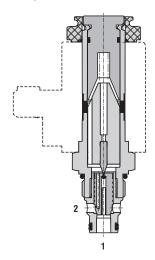
- > Hardened precision parts
- > High flow capacity and leak-free closing
- > High transmitted hydraulic power up to 420 bar
- Lightline design 250 bar with reduced solenoid power for production cost saving
- > Normally open and normally closed version
- > Wide range of manual overrides available
- > 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**

2/2 screw-in cartridge poppet valve, pilot operated. The one-directional valve with 3/4-16 UNF connection thread is designed for on-off flow control with leak-free closing in  $2\rightarrow1$  flow direction. In the opposite flow direction the valve is opened by fluid pressure.

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		l/min (GPM)	30 (7.9)	30 (7.9)	
Max. operating	pressure	bar (PSI)	250 (3630)	420 (6090)	
Fluid temperatu	re 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	rithout coil kg (Ibs)		0.12 (0.26)	0.20 (0.44)	
Datasheet		Datasheet	Type		
General information		GI_0060	Products and operating conditions		
Coil types C_8007 C14B*		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	are 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 U<sub>2</sub> -10% (21.6 VDC)
- HP Oil 80 °C (176 °F) Ambient temperature 50 °C (122 °F) Noltage  $U_{\rm p}$  -10% (21.6 VDC)

Operating pressure p [bar (PSI)]	(6090) (5800) (4350) (2900) (1450)	300 - 200 - 100						1
atin		]	5	1	0 15	5 20	25	30
bei		-	(1.	3) (2.	6) (4.0	) (5.3	) (6.6)	(7.9)
O			F	low Q	[l/min	(GPM)]		

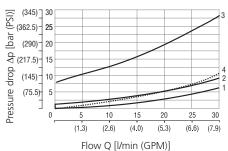
	Model	Connection
1	L2L2	1→2, 2→1
1	L2O2	1→2, 2→1
2	H2L2	1→2, 2→1
2	H2O2	$1 \to 2, 2 \to 1$

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

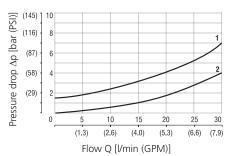
# Pressure drop related to flow rate

- Lightline

- High performance



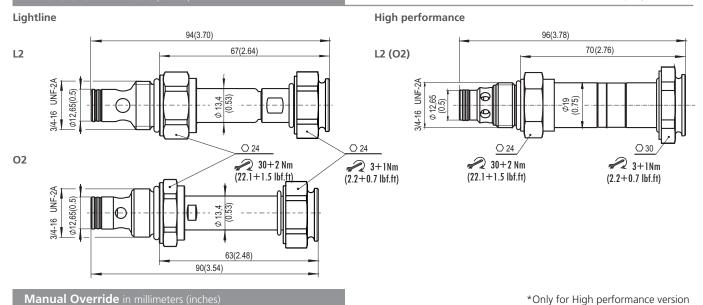
		Model	Connection	Solenoid
	1	L2L2	1→2	on
	1	L2L2	2→1	on
	1	L2O2	2→1	off
	2	L2L2	1→2	off
	3	L2O2	1→2	on
	4	L2O2	1→2	off

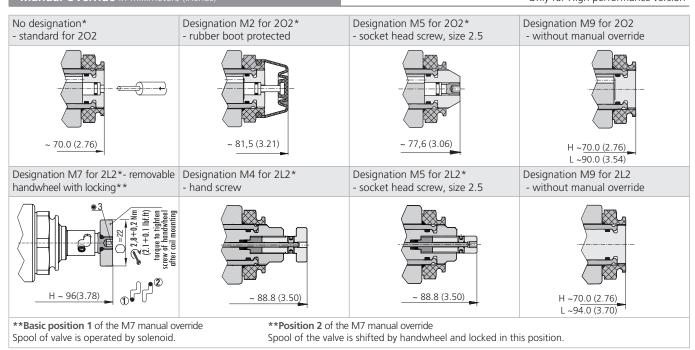


Model Connection Solenoid H2L2  $1\rightarrow 2$ off H2L2  $1\rightarrow 2$ on H2L2  $2\rightarrow 1$ on H2O2 off  $1\rightarrow 2$ H2O2 off  $2\rightarrow 1$ 

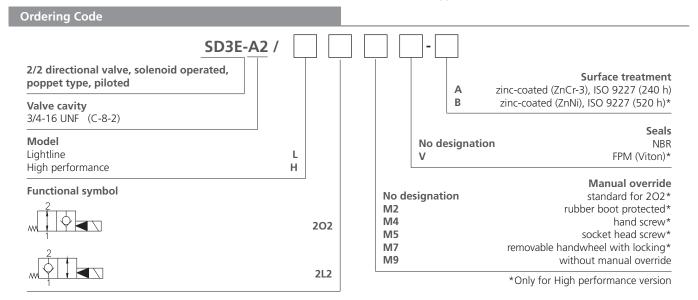
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In case of solenoid malfunction or power failure, the valve spool can be shifted by manual override under the condition that the pressure in the back line does not exceed 25 bar (363 PSI). For alternative manual overrides contact our technical support.



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