SD3E-A2

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

Normally Open

Technical Features

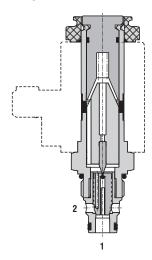
- > Hardened precision parts
- > High flow capacity and leak-free closing
- > High transmitted hydraulic power up to 420 bar
- Lightline design 250 bar with reduced solenoid power for production cost saving
- > Normally open and normally closed version
- > Wide range of manual overrides available
- >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

2/2 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 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	Туре	
General informa	ation	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_0		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 U_0 -10% (21.6 VDC)

(PSI) (5800)2 Operating pressure p [bar (4350) 300 (2900) 200 (1450) 100 20 25 30 (4.0)(5.3)(6.6)(7.9) (1.3)(2.6)Flow Q [I/min (GPM)]

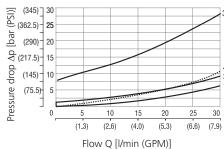
	Model	Connection
1	L2L2	1→2, 2→1
1	L2O2	1→2, 2→1
2	H2L2	1→2, 2→1
2	H2O2	$1 \to 2, 2 \to 1$

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

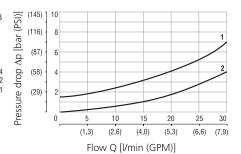
Pressure drop related to flow rate

- Lightline

- High performance



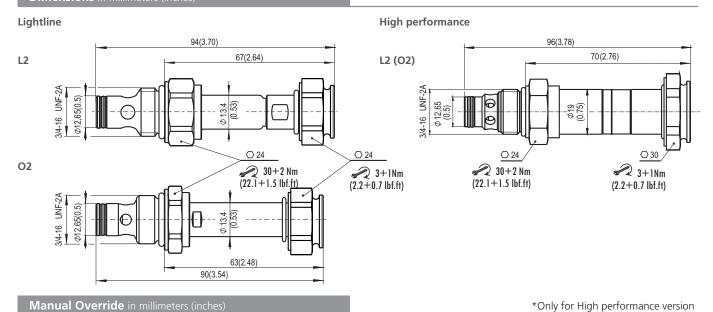
	Model	Connection	Solenoid
1	L2L2	1→2	on
1	L2L2	2→1	on
1	L2O2	2→1	off
2	L2L2	1→2	off
3	L2O2	1→2	on
4	L202	1→2	off

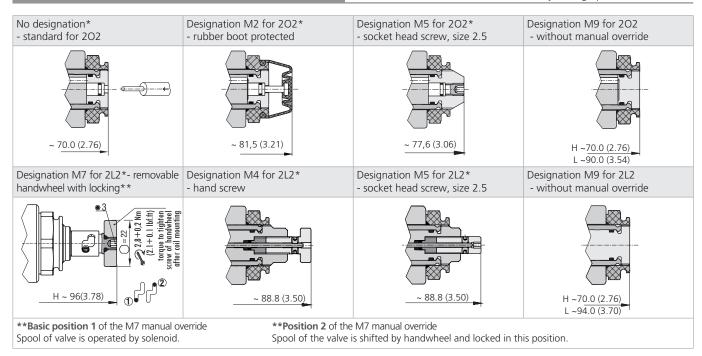


Model Connection Solenoid H2L2 off $1\rightarrow 2$ H2L2 $1\rightarrow 2$ on H2L2 $2\rightarrow 1$ on 2 H202 $1\rightarrow 2$ off H2O2 off $2\rightarrow 1$ H2O2 on

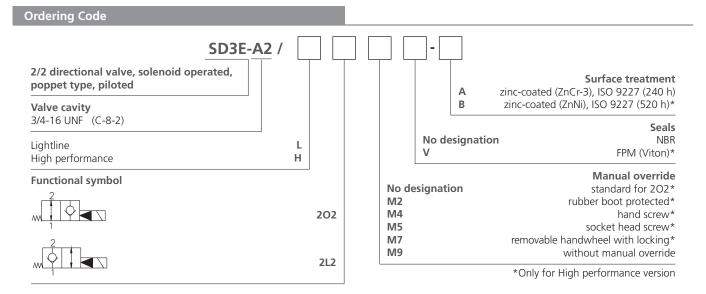
other than shown contact our technical support.







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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