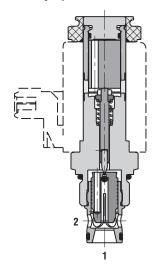
SD3E-B2

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

Normally Open



Technical Features

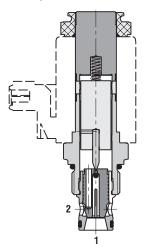
- > Hardened precision parts
- > High flow capacity and leak-free closing
- > High transmitted hydraulic power up to 420 bar
- > Normally open and normally closed version
- Wide range of manual overrides available
- > All ports may be fully pressurized
- > Coil interchangeability among SD*- B* product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

Functional Description

2/2 screw-in cartridge poppet valve, pilot operated. The one-directional valve with 7/8-14 UNF connection thread is designed for on-off flow control with leak-free closing in 2 \rightarrow 1 flow direction. In the opposite flow direction the valve is opened by fluid pressure.

Model Code	202	2L2
Symbol	m 1	

Normally Closed



Technical Data

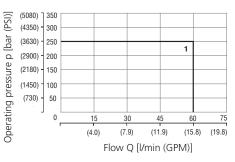
Valve size / Cartridge cavity		7/8-14 UNF-2A / B2 (C-10-2)	
		Lightline	High performance
Max. flow	l/min (GPM)	60 (15.9)	75 (19.8)
Max. operating pressure	bar (PSI)	250 (3630)	420 (6090)
Fluid temperature range (NBR)	°C (°F)	-3060 (-22140)	-3080 (-22176)
Fluid temperature range (FPM) °C (°F)		-2060 (-4140)	-2080 (-4176)
Ambient temperature range	°C (°F)	-3050 (-22122)	-3080 (-22176)
Supply voltage tolerance	%	AC, DC: ± 10	AC, DC: ± 15
Max. switching frequency 1/h		15 000	
Weight without coil kg (lbs)		0.23 (0.51)	0.30 (0.66)

		Datasheet	Туре		
General infor	neral information GI_0060 Pro		Products and operat	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 SUS)

Operating limits - Lightline

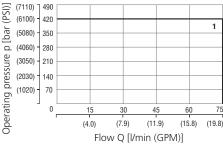
Oil 60 °C (140 °F) / Ambient temperature 50 °C (122 °F) / Voltage U_o -10% (21.6 V DC)



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

Operating limits - High performance

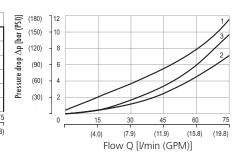
Oil 80 °C (176 °F) / Ambient temperature 50 °C (122 °F) / Voltage $\rm U_n$ -10% (21.6 V DC)



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

Pressure drop related to flow rate

- Lightline, High performance

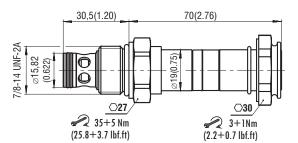


	Model	Connection	Solenoid
1	2L2	1→2	off
2	2L2	2→1	on
2	2L2	1→2	on
2	202	1→2	off
3	202	2→1	off

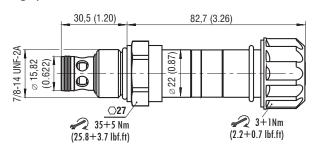
For operating limits under conditions and flow directions other than shown contact our technical support.



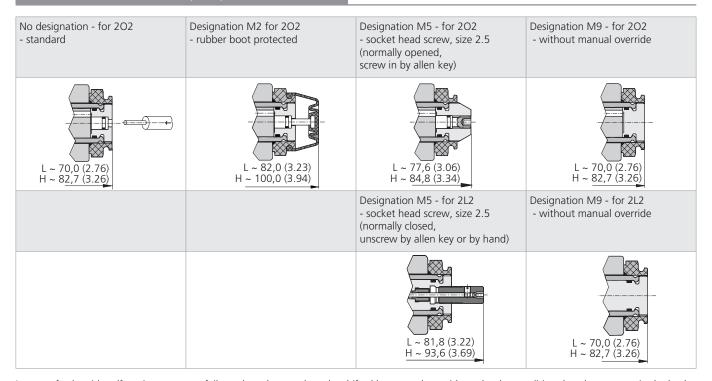
Lightline



High performance

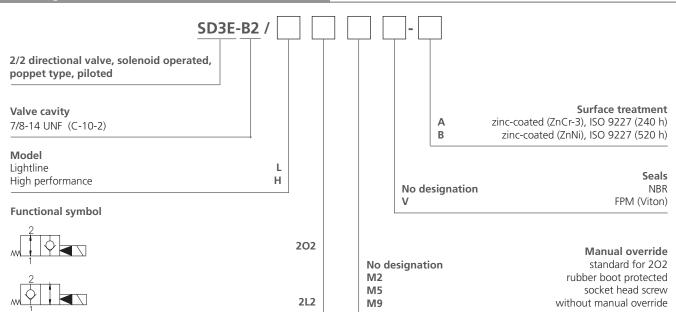


Manual Override in millimeters (inches)



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.

Ordering Code



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