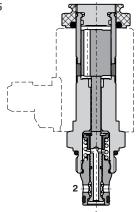


# SD1E-A2

3/4-16 UNF • Q<sub>max</sub> 30 l/min (8 GPM) • p<sub>max</sub> 350 bar (5100 PSI)



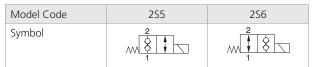


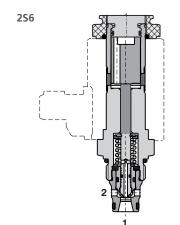
## **Technical Features**

- > Hardened precision parts
- > High flow capacity and leak-free closing (up to 3 drops per minute)
- > High transmitted hydraulic power up to 350 bar
- > Normally open and normally closed version
- > Wide range of manual overrides available
- > All ports may be fully pressurized
- > Coil interchangeability among SD\*-A\*/H product line
- > In the standard version, the valve is zinc-coated for 240 h protection acc. to ISO 9227

#### **Functional Description**

2-way, 2 position high pressure direct acting 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 both directions.





#### **Technical Data**

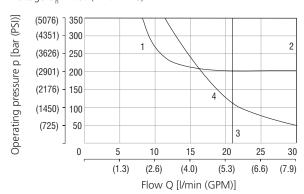
Valve size / Cartridge cavity		3/4-16 UNF-2A / A2 (C-8-2)
Max. flow	l/min (GPM)	30 (7.9)
Max. operating pressure	bar (PSI)	350 (5080)
Fluid temperature range (NBR)	°C (°F)	-3080 (-22176)
Fluid temperature range (FPM)	°C (°F)	-2080 (-4176)
Ambient temperature range	°C (°F)	-3080 (-22176)
Supply voltage tolerance	%	AC, DC: ± 15
Max. switching frequency	1/h	15 000
Weight without coil	kg (lbs)	0.19 (0.42)

		Datasheet	Type
General information		GI_0060	Products and operating conditions
Coil types C_8007		C_8007	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)

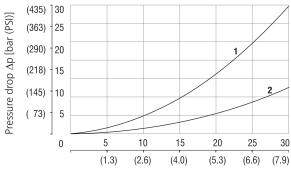
### **Operating limits**

Oil 80 °C (176 °F) / Ambient temperature 50 °C (122 °F) / Voltage U  $_{\rm o}$  -10% (21.6 V DC)



	Model	Connection
1	2S5	1→2
2	2S5	2→1
3	2S6	2→1
4	2S6	1→2

### Pressure drop related to flow rate



Flow Q [l/min (GPM)]

	Model	Connection
1	2S5	1→2
1	2S5	2→1
2	2S6	1→2
2	2S6	2→1

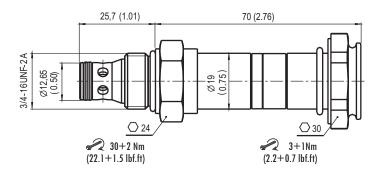
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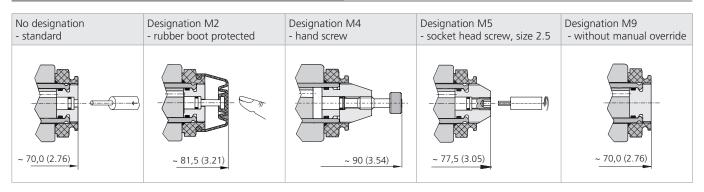
socket head screw

without manual override

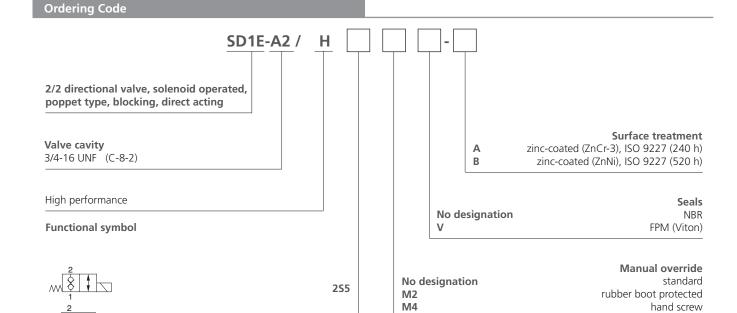
#### 2S5, 2S6



## Manual Override 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.



256

M5

M9

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