

2/2 Directional Valve, Solenoid Operated, Poppet Type, Piloted

SD3E-C2

1-1/16-12 UN • Q_{max} 150 l/min (40 GPM) • p_{max} 350 bar (5100 PSI)

Technical Features

- > Hardened precision parts
- > High flow capacity and leak-free closing
- > 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*- C/H* product line
- > In the standard version, the valve is zinc-coated (520 h corrosion protection in NSS acc. to ISO 9227)

Functional Description

2-way, 2-position 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		

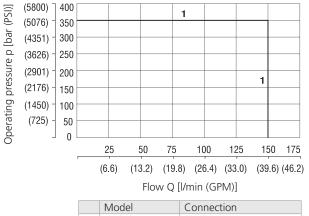
Technical Data

Valve size / Cartridge cavity			1-1/16-12 UN / C2 (C-12-2)	
5 9			High performance	
Max. flow		l/min (GPM)	150 (39.6)	
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	7 000	
Weight without coil		kg (lbs)	0.40 (0.88)	
		Datasheet	Туре	
General information		GI_0060	Products and operating conditions	
Coil types		C_8007	C22B*	
Valve bodies	In-line mounted	SB_0018	SB-C2*	
	Sandwich mounted	SB-04(06,10)_0028	on request	
Cavity details / Form tools		SMT_0019	SMT-C2*	
Spare parts		SP_8010		

Characteristics measured at $v = 32 \text{ mm}^2/\text{s}$ (156 SUS)

Operating limits - High performance

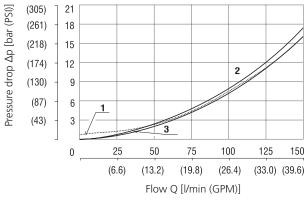
Oil 80 °C (176 °F) / Ambient temperature 50 °C (122 °F) / Voltage U_n -10% (21.6 V DC)



	Model	Connection
1	2L2	1→2, 2→1
1	202	1→2, 2→1

Pressure drop related to flow rate

- High performance

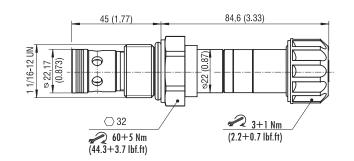


		Model	Connection	Solenoid	
	1	2L2	1→2	off	
	2	2L2	2→1	on	
	3	2L2	1→2	on	
	2	202	1→2	off	
	3	202	2→1	off	

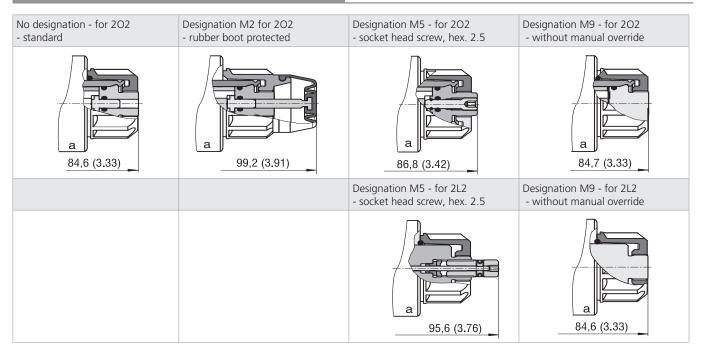


Dimensions in millimeters (inches)

High performance



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 1 does not exceed 25 bar (363 PSI). For alternative manual overrides contact our technical support.

