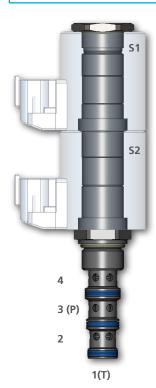
SD2E-A4/H3

3/4-16 UNF • Q_{max} 30 l/min (8 GPM) • p_{max} 350 bar (5100 PSI)



Technical Features

- > Hardened precision parts
- > High flow capacity relative to size and valve type
- > High transmitted hydraulic power
- > Ports 2,3,4 may be fully pressurized
- > Four optional spools available
- > Interchangeable coil C19B* among SD*-A*/H* product line
- Surface of the valve is zinc coated with corrosion protection 520 h in NSS acc. to ISO 9227

Functional Description

4-way, 3-position spool type directional valve with 3/4-16 UNF connection thread, operated by dual solenoids, designed for installation into A4 (C-8-4) chambers of the block. The valve controls the flow direction of the fluid, changes the direction of the hydraulic cylinder piston rod or stops it.

Model Code	3Z11	3Y11	3H11	3C11
Symbol	2 4 T T T W S1 3 1 S2	2 4 W S1 3 1 S2	2 4 W W S1 3 1 S2	2 4 S1 3 1 S2

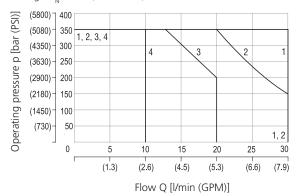
Technical Data

Valve size / Cartridge cavity	3/4-16 UNF-2A / A4 (C-8-4)	
Max. flow	l/min (GPM)	30 (7.9)
Max. operating pressure in Ports 2, 3, 4	bar (PSI)	350 (5080)
Max. operating pressure in Port 1	bar (PSI)	250 (3625)
Fluid temperature range (HNBR)	°C (°F)	-30 +80 (-22 +176)
Fluid temperature range (FPM)	°C (°F)	-20 +80 (-4 +176)
Ambient temperature range	°C (°F)	-30 +80 (-22 +176)
Supply voltage tolerance (V AC, V DC)	%	±15
Max. switching frequency	1/h	15 000
Weight without coil	kg (lbs)	0.30 (0.66)
	Datasheet	Type
General information	GI_0060	Products and operating conditions
Coil types	C_8007	C19B*
Valve bodies In-line mounted	SB_0018	SB-A4*
Cavity details / Form tools	SMT_0019	SMT-A4*
Spare parts	SP_8010	

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

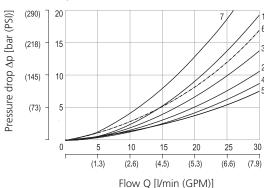
Operating limits

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



	Model	Connection
1	3Z11	3→4, 2→1, 3→2, 4→1
1	3C11	3→2, 4→1
2	3Y11	3→4, 2→1, 3→2, 4→1
3	3H11	3→4, 2→1, 3→2, 4→1
4	3C11	3→4, 2→1

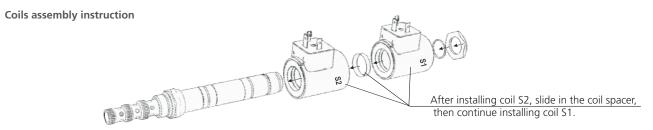
Pressure drop related to flow rate

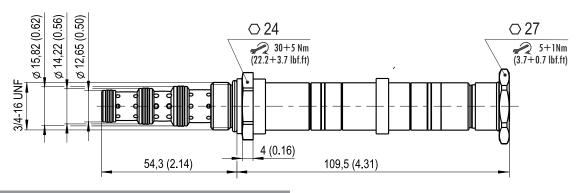


Model Connection Model Connection 3Z11 $3\rightarrow 2, 3\rightarrow 4$ 3 3711 $4\rightarrow1$ 3Y11 $3\rightarrow 2$, $3\rightarrow 4$, $4\rightarrow 1$ 4 3Y11 $2\rightarrow 1$ 5 1 3C11 $2\rightarrow 1$ 3H11 $2\rightarrow 1$ 2 3Z11 6 $2\rightarrow 1$ 3H11 $3\rightarrow 2, 3\rightarrow 4$ 2 3H11 $4\rightarrow1$ 6 3C11 $4\rightarrow1$ 3C11 $3\rightarrow 1$ 3C11 $3\rightarrow 2$

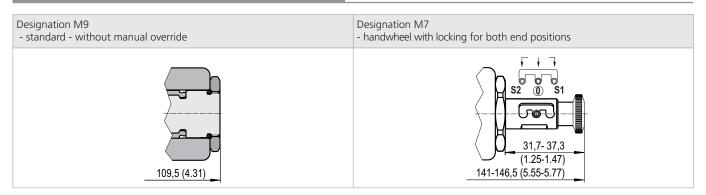
For operating limits under conditions and flow directions other than shown contact our technical support.





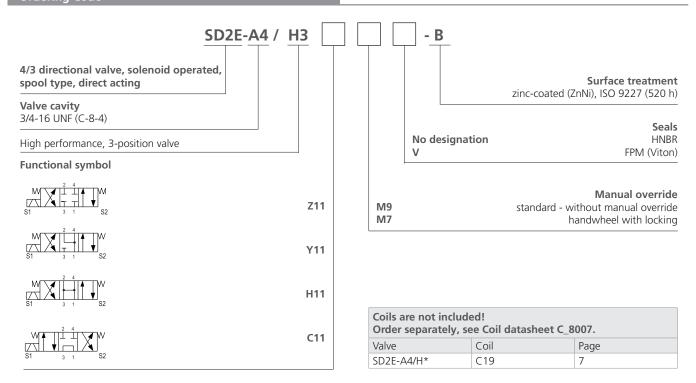


Manual Override in millimeters (inches)



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(T) does not exceed 25 bar (363 PSI).

Ordering Code



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