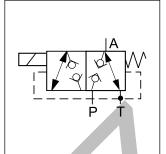
Characteristics / Ordering Code

The directional valve type D1SE is equipped with a wet pin armature solenoid, drain free tapered poppet and compatible with the standards DIN NG06, CETOP 03, and NFPA D03. Due to the 3/2-way design, port A is either connected with P or discharged in the tank. The neutral position (solenoid not activated) is taken automatically by a return spring. This position remains until the solenoid is energized.

The valve poppet including activation lever and the armature of the solenoid are located in the pressurized oil chamber of connection T. The valve poppet is designed such that there can be no differential area in its axial operational direction (opening, closing). Thus it is statically pressure-balanced so that the valve can be switched in both flow directions even under pressure.

The unit has an all-steel design, the important functional inner parts are hardened, the poppet and seat are grinded.



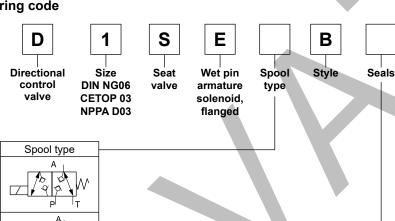


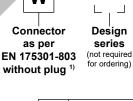
Ordering code

Code

30

83





Solenoid

voltage

Code	Voltage
K	12 V=
J	24 V=
U 2)	98 V=
G 2)	205 V=

Code		Seals	
N	4	NBR	
V		FPM	

Bold letters = Short-term availability

Solenoids for repair

Voltage	Ordering code
12 V=	7329700 - 12 V
24 V=	7329700 - 24 V
98 V=	7329700 - 98 V
205 V=	7329700 - 205 V

¹⁾ Please order plug separately.

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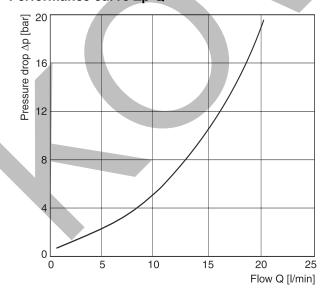
²⁾ To be used in combination with rectifier plugs at 120 VAC / 230 VAC power supply.

Technical Data / Characteristic Curves

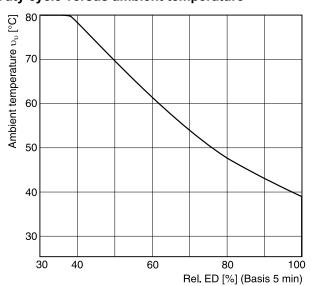
General						
Design		Directional poppet valve				
Actuation		Solenoid				
Size		DIN NG6 / CETOP 03 / NFPA D03				
Mounting interface		DIN 24340 A6 / ISO 4401 / CETOP RP 121-H / NFPA D03				
Mounting position		Unrestricted, preferably horizontal				
Ambient temperature	[°C]	-25+60, observe permissible duty cycle				
MTTF _D value	[years]	150				
Weight	[kg]	1.5				
Hydraulic						
Max. operating pressure	[bar]	P, A, T: 350				
Fluid		Hydraulic oil according to DIN 51524				
Fluid temperature	[°C]	-20+60 (NBR: -25+70)				
Viscosity permitted	[cSt] / [mm²/s]	10500				
Viscosity recommended	[cSt] / [mm²/s]					
Filtration		ISO 4406 (1999); 18/16/13				
Flow max.	[l/min]	20				
Static / Dynamic						
Step response		Energized: approx. 50 De-energized: approx. 60				
Electrical characteristics						
Duty ratio		See diagram				
Max. switching frequency	[1/h]	2000				
Protection class		IP65 in accordance with EN 60529 (with correctly mounted plug-in connector)				
	Code	K J U G				
Supply voltage	[V]	12 V = 24 V = 98 V = 205 V =				
Tolerance supply voltage	[%]	±10 ±10 ±10				
Current consumption	[A]	1.95 1.1 0.25 0.13				
Power consumption	[W]	23.4 26.4 24.3 26.6				
Solenoid connection		Connector as per EN 175301-803				
Wiring min.	[mm²]	3 x 1.5 recommended				
Wiring length max.	[m]	50 recommended				

With electrical connections the protective conductor (PE \(\frac{1}{2} \)) must be connected according to the relevant regulations.

Performance curve Δp -Q



Duty cycle versus ambient temperature

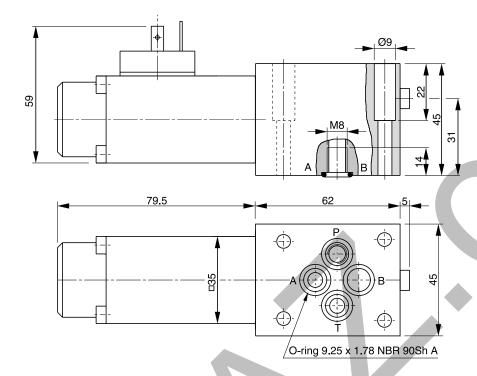


All characteristic curves measured with HLP46 at 50 °C.

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Series D1SE





Surface finish	E Kit	野町歌	5	◯ Kit
√R _{max} 6.3	BK375	4x M5x30 ISO 4762-12.9	7.6 Nm ±15 %	NBR: SK-D1SE-70 FPM: DK-D1SE-V70

Subplates and manifolds see chapter 12.

The space necessary to remove the plug per EN 175301-803, design type AF is at least 15 mm. The torque for the screw M3 of the plug has to be 0.5 to 0.6 Nm.

