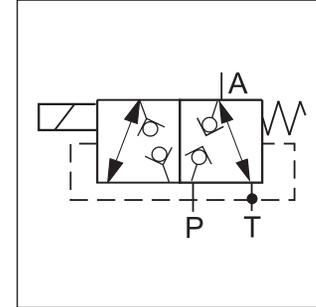


The directional valve type D1SE is equipped with a wet pin armature solenoid, drain free tapered poppet valve and compatible with the standards DIN NG06, CETOP 03, and NFPA D03. Due to the 3/2 way design, port A is either connected with P or discharged in the tank. The neutral position (solenoid not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

The valve poppet including activation lever and 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.



2

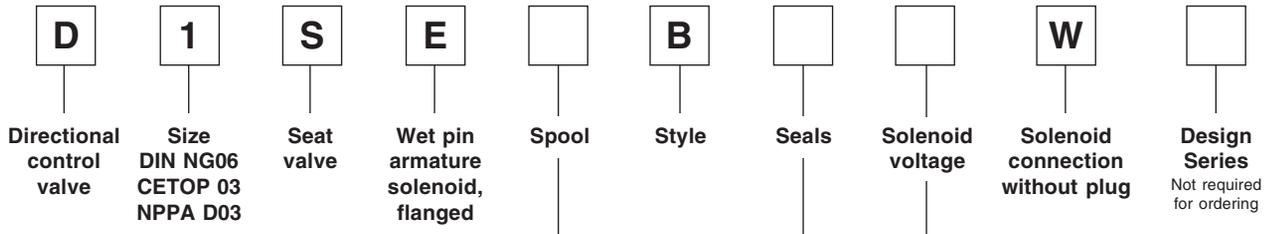
Technical data

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			
Ambient temperature	[°C]	-25...+50, observe permissible duty cycle			
Weight	[kg]	0,8			
Hydraulic					
Max. operating pressure P, A and T	[bar]	350			
Fluid		Hydraulic oil in accordance with DIN 51524 / 51525			
Fluid temperature	[°C]	-25 ... +70			
Viscosity permitted	[mm²/s]	10...500 (10...500 cSt)			
Viscosity recommended	[mm²/s]	30...80			
Filtration		ISO 4406 (1999); 18/16/13 (meet NAS 1638: 7)			
Flow max.	[l/min]	20 (at Δp = 10 bar)			
Static / Dynamic					
Step response	[ms]	Energized: approx. 50 De-energized: approx. 60			
Electrical characteristics					
Duty ratio		See diagram			
Max. switching frequency	[1/h]	2000			
Protection class		IP 65 in accordance with DIN 40050 (plugged and mounted)			
	Code	K	J	U*	G*
Supply voltage	[V]	12 VDC	24 VDC	98 VDC	205 VDC
Tolerance supply voltage	[%]	±10	±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			

* For a silicon bridge rectifier, set up apart from unit for connecting to a 50 or 60 Hz power supply, 110 V~(98=) or 230V~ (205V=).
 With electrical connections the protective conductor (PE ⚡) must be connected according to the relevant regulations.

D1SE.PMD RH





2

Code	Spool type
30	
83	

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

*For alternating current use plug with rectifier.

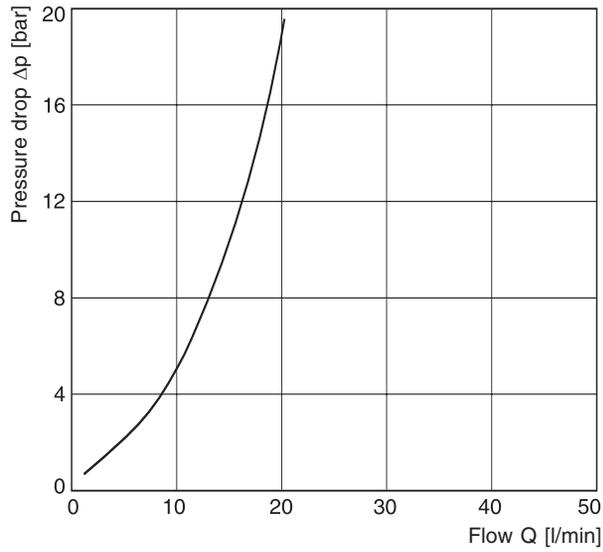
Code	Material
N	NBR
V	FPM

**Bold letters =
 Short-term availability**

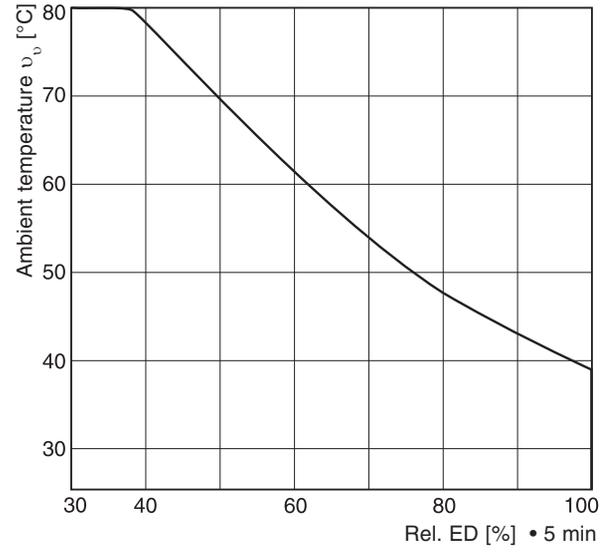
Coils for repair

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

Performance curve Δp -Q

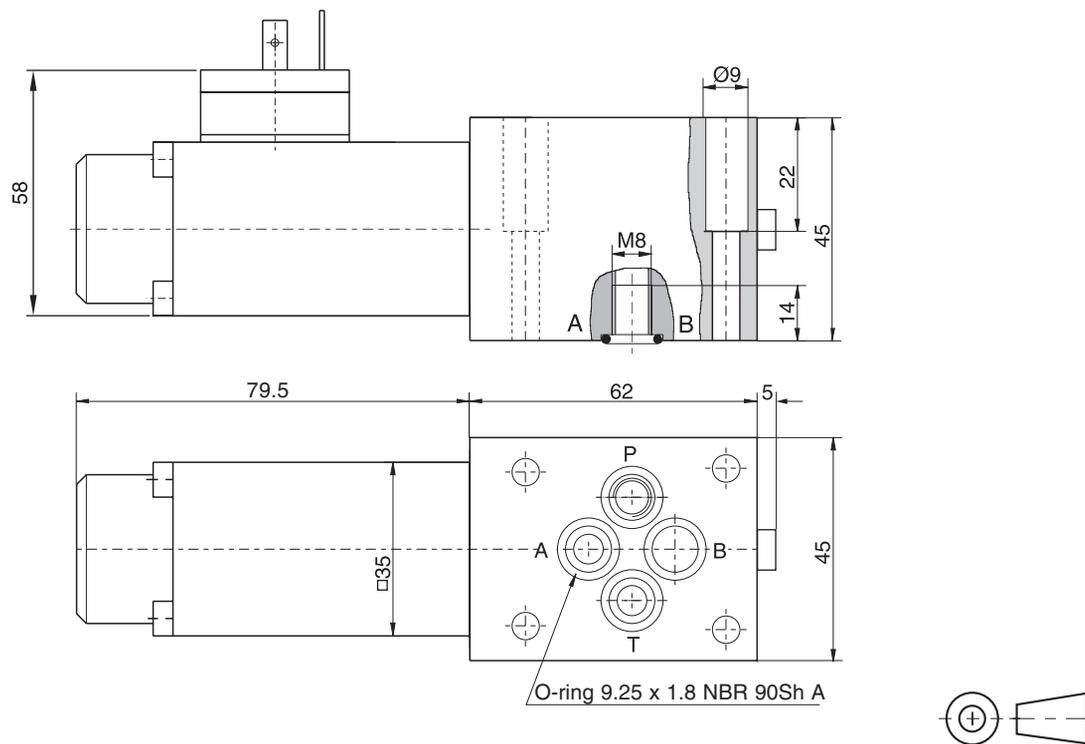


Duty cycle versus ambient temperature



2

Dimensions



Surface finish	Kit			Kit
	BK375	4x M5x30 DIN 912 12.9	6.8 Nm \pm 15%	NBR: SK-D1SE-70 FPM: SK-D1SE-V70

Subplates and manifolds see chapter 8.

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.

D1SE.PMD RH

