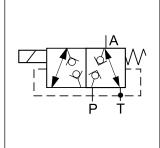
#### **Characteristics / Ordering Code**

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.





Design

series

(not required

for ordering)

Voltage

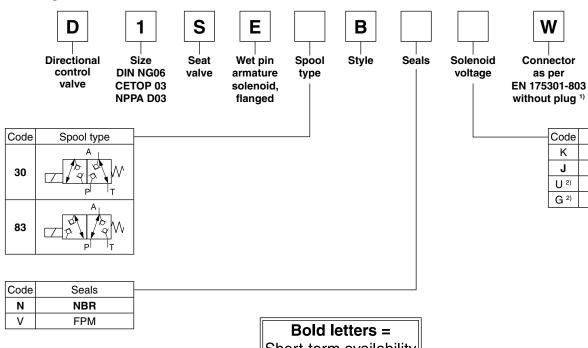
12 V= 24 V=

98 V=

205 V=

J

#### **Ordering code**



# 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

<sup>1)</sup> Please order plug separately.

<sup>&</sup>lt;sup>2)</sup> To be used in combination with rectifier plugs at 120 VAC / 230 VAC power supply.

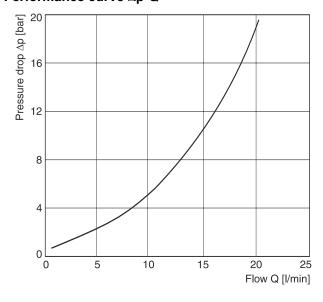


## **Technical Data / Characteristic Curves**

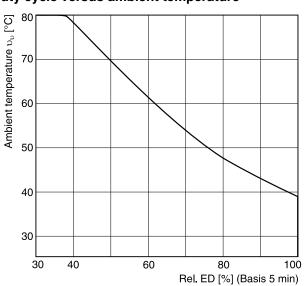
General								
Design		Directional poppet valv	Directional poppet valve					
Actuation		Solenoid						
Size		DIN NG6 / CETOP 03 / NFPA D03						
Mounting interface		DIN 24340 A6 / ISO 4401 / CETOP RP 121-H / NFPA D03						
Mounting position		Unrestricted, preferably horizontal						
Ambient temperature	[°C]	-25+60, observe permissible duty cycle						
MTTF <sub>D</sub> value	[years]							
Weight	[kg]							
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] / [mm <sup>2</sup> /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	±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  $\frac{1}{\pi}$ ) must be connected according to the relevant regulations.

### Performance curve $\Delta p$ -Q

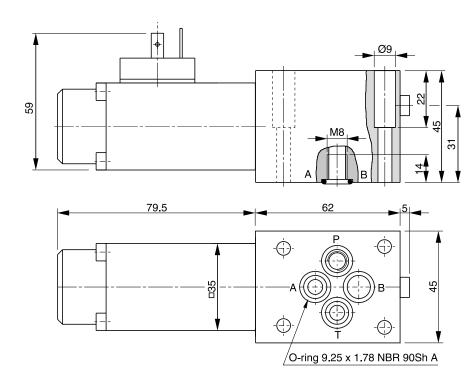


### Duty cycle versus ambient temperature



All characteristic curves measured with HLP46 at 50 °C.







Surface finish	Film Kit	即受	5	◯ Kit
\R <sub>max</sub> 6.3 \[ \sqrt{0.01/100} \]	BK375	4x M5x30 ISO 4762-12.9	7.6 Nm ±15 %	<b>NBR: SK-D1SE-70</b> 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.

