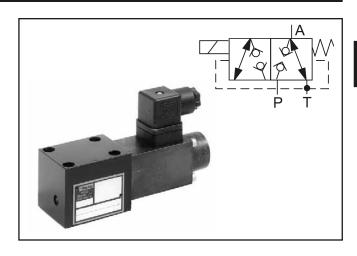
# **General Description**

**Technical Information** 

Series D1SE directional control valves are equipped with a wet pin armature solenoid, drain-free, tapered poppet valve and compatible with the standards DIN NG6, CETOP 3, 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.

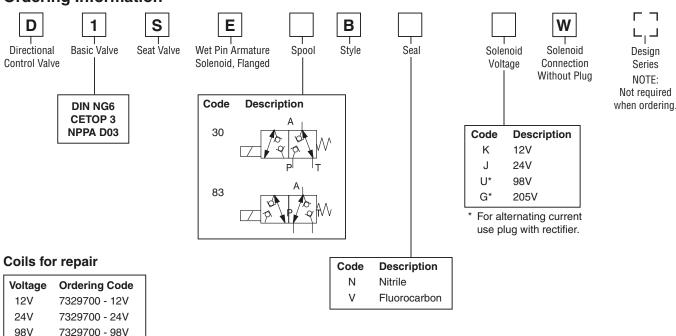
The unit has an all-steel design, the important functional inner parts are hardened, the poppet and seat are ground.



#### **Features**

- Low leakage poppet design.
- Fits NFPA D03 mountng.
- Pressure balanced.

## **Ordering Information**



Weight: 0.8 kg (1.76 lbs)

Bold: Designates Tier I products and options.

Non-Bold: Designates Tier II products and options. These products will have longer lead times.

A41



205V

7329700 - 205V

## **Specifications**



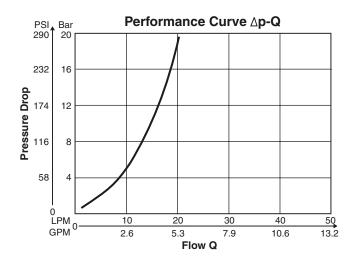
General		Static / Dynamic					
Design	Directional poppet valve	Step Response	Energized: approx. 50 ms				
Actuation	Solenoid		De-energized: approx. 60 ms				
Size	DIN NG6 / CETOP 3 / NFPA D03	Electrical Characteristics					
Mounting Interface	DIN 24340 A6 / ISO 4401 / CETOP RP 121-H / NFPA D03	Duty Ratio See Diagram					
		Max. Switching	2000 1/h				
<b>Mounting Position</b>	Unrestricted	Frequency					
Ambient	-25°C to +50°C (-13°F to +122°F),	Protection Class	IP 65 in accordance with DIN 40050				
Temperature	observe permissible duty cycle		(plugged and mounted)				
Hydraulic		Code	K	J	U*	G*	
Max. Operating	350 Bar (5075 PSI) (P, A, and T)	Supply Voltage	12 VDC	24 VDC	98 VDC	205 VDC	
Pressure		Tolerance Supply	±10%	±10%	±10%	±10%	
Fluid	Hydraulic oil in accordance with DIN	Voltage					
	51524 / 51525	Current	1.95A	1.1A	0.25A	0.13A	
Fluid Temperature	-25°C to +70°C (-13°F to +158°F)	Consumption					
<b>Viscosity Permitted</b>	10500 cSt / mm²/s (462318 SSU)	Power Consumption	23.4 W	26.4 W	24.3 W	26.6 W	
Recommended	3080 cSt / mm²/s (139371 SSU)	Solenoid	Connector as per EN 175301-803				
Filtration	ation ISO 4406 (1999); 18/16/13		Connection				
	(meet NAS 1638: 7)	Min. Wiring	3 x 1.5 mm <sup>2</sup> recommended				
Internal Leakage	3-5 DPM per seat	Max. Wiring Length	50m (16	4') recomr	nended		
Maximum Flow	20 LPM (5.28 GPM) (at $\Delta p = 10$ bar)						

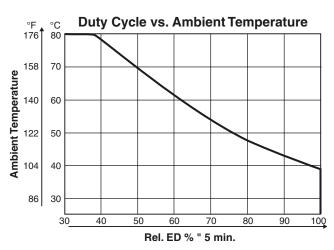
<sup>\*</sup> For a silicon bridge rectifier, set up apart from unit for connecting to a 50 or 60 Hz power supply, 110 V~(98=) or 230V~ (205V=). With electrical connections the protective conductor (PE  $\frac{1}{\pi}$ ) must be connected according to the relevant regulations.



## **Technical Information**

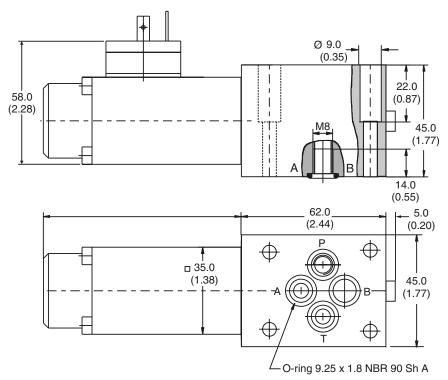
## **Performance Curves**





### **Dimensions**

Inch equivalents for millimeter dimensions are shown in (\*\*)





Surface Finish	∄  Kit	野哥	5	Seal O Kit
R <sub>max</sub> 6.3	BK375	4x M5x30 DIN 912 12.9	6.8 Nm ± 15%	Nitrile: SK-D1SE-70 Fluorocarbon: SK-D1SE-V70

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.



