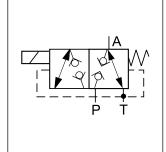
Parker Series D1SE 32 Way Seated Type Directional Control Valve Service Manual

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.

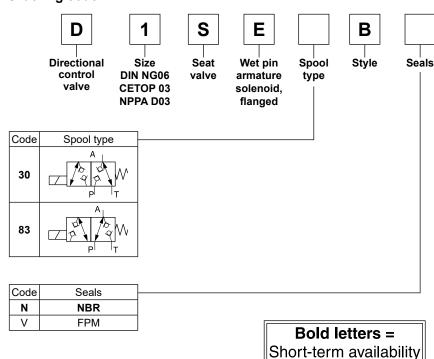
The valve poppet including activation lever and the armature of the solenoid are located in the pressurized oil chamber of connection T. The valve poppet is designed such that there can be no differential area in its axial operational direction (opening, closing). Thus it is statically pressure-balanced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



	W				
Solenoid	Connecto	r	Desi	ign	
voltage	as per		seri	es	
	EN 175301-i without plu		(not rec		
	Cod	е	Vo	Itage	
	K		12	2 V=	
	J		24	1 V=	
	U 2)	98	3 V=	
	G ²)	20	5 V=	

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

D1SE UK.indd 20.07.2022

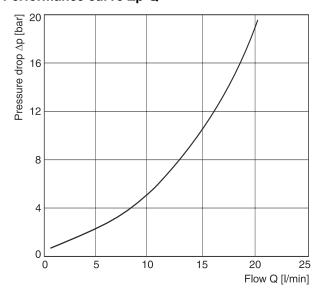


Technical Data / Characteristic Curves

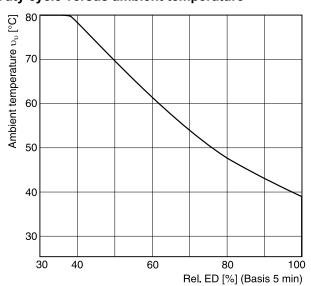
General							
Design		Directional poppet valve					
Actuation		Solenoid					
Size		DIN NG6 / CETOP 03 / NFPA D03					
Mounting interface		DIN 24340 A6 / ISO 4401 / CETOP RP 121-H / NFPA D03					
Mounting position		Unrestricted, preferably horizontal					
Ambient temperature	[°C]	-25+60, observe per	missible duty cycle				
MTTF _D value	[years]	150					
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] / [mm²/s]	· · · · · · · · · · · · · · · · · · ·					
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)			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 Δp -Q



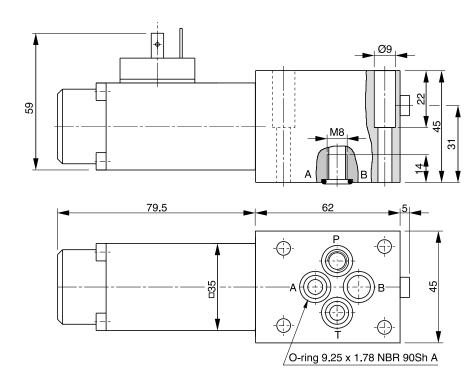
Duty cycle versus ambient temperature



All characteristic curves measured with HLP46 at 50 $^{\circ}\text{C}.$

D1SE UK.indd 20.07.2022







Surface finish	E Kit	即受	5	◯ Kit
R _{max} 6.3 [0.01/100]	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.

