

HYDRAULICKÉ SYSTÉMY

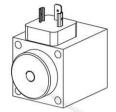




ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

Solenoids

Solenoid SIS45V to VDE 0580 Plug plate to ISO 4400/DIN 43650 Protection class IP65



DESCRIPTION

The SIS45V is a switching solenoid. Its design corresponds to VDE standard 0580. The steel housing has a zinc coated finish as standard. Static pressure-tightness is 350 bars. All o-rings are Viton. The solenoids are fixed to the valve with four screws. Depending on the intended use, the solenoid can be supplied with a plug screw, or with integrated manual override. The connector plate corresponds to ISO 4400 and DIN 43650.

FUNCTION

When the solenoid is energised with the specified nominal voltage, the armature moves from the starting position of its stroke (s=5,5 mm) to the end position (s=0 mm). The switching time is essentially dependent on the application. The power-stroke characteristics are de-signed to suit the requirements of hydraulic valves. AC versions include an electronic rectifier integrated into the connector plate. In this way maximum performance is assured.

APPLICATION

Essential for hydraulic directional and poppet valves. Because of the risk of overheating, the solenoid must never be used separately. The lenght of the fixing screws depends on the base material of the body. An o-ring is used for the valve seal. Information on screws and o-rings will be found in the data sheets relating to the valves concerned. Before changing the plug screw or the screw with integrated manual override, care must be taken to ensure that the solenoid is not under pressure. Risk of injury! The maximum operating pressure is determinded by the valve actually used.

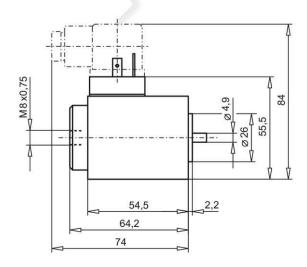
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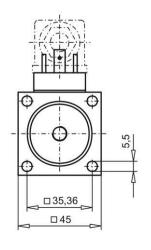
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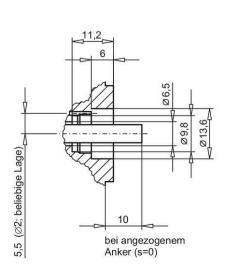
TYPE CODE

		S	I S 45	V - [-	# [
Solenoid Industry version		3				
Super						
Square 45 mm housing						
Solenoid completly potted						
Standard-Nominal voltage U _N	12 VDC 24 VDC 110 VAC 115 VAC 230 VAC	G12 G24 R110 * R115 * R230 *				
AC= 50 to 60 Hz * Rectifier integrated in the plug Other nominal voltages and non		equest				
with mounted plug (data sheet 1 with mounted manual override (with mounted special manual over	data sheet 1.1-3		HB0 HB6 H			
Design-Index (Subject to change	e)					

DIMENSIONS







CHARACTERISTICS

350 bar (seal diameter of valve max.		
25 mm) `		
With seal diameter of valve = 26 mm:		
Static pressure tightness = 315 bar		
F		
Over device plug connection to ISO		
4400/DIN 43650, (2P+E), other		
connections on request		
IP65		
100%		
50°C		
Viton, other on request		
Mineral oil, other fluid on request		
15'000/h		
4xM5 (Quality 8.8)		
Zinc coated steel housing, other surface treatments on request.		

		DC	AC
Totale stroke	(mm)	5,5	5,5
Working stroke	(mm)	2,5	2,5
Nominal power	(W)	30	100000000
	(VA)		35
Armature weight	(kg)	0,044	0,044
Solenoid weight	(kg)	0,76	0,76
Voltage range	(VDC)	10-250	
	(VAC)		40-250*

 For AC voltages below 40 VAC DC solenoids plus rectifier plugs are available.
 21 VDC to 24 VAC
 32 VDC to 36 VAC

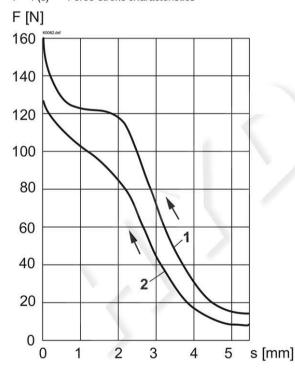
	12VDC	24VDC	115VAC	230VAC		
Nominal resistance (Ω)	5	21,8	445	1'400		
Number of windings (-)	770	1'560	7'000	13'000		

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PERFORMANCE

F = f (s) Force-stroke characteristics



1: U = 100 % U_N 2: U = 90 % U_N Reference temperature = 20°C (30W) Reference temperature = 50°C

Solenoid in operating temperature (19W)

The values refer to $U_N = 24$ VDC.

With other nominal voltages deviations can occur.

For curve 2 the solenoid has been mounted on a body \square 46x64.

ACCESSOIRES

Inductivity (mH)

Plug HB0 * Article No. 239.2033 Plug with integrated manual override HB6 * Article No. 253.8001

* acc. data sheet 1.1-300

Special manual override see data sheet 1.1-310

Plug grey Article No. 219.2001 Plug black Article No. 219.2002

Rectifier plug grey Article No. 219.2105
Rectifier plug black Article No. 219.2106

Technical explanation see data sheet 1.1-400E