

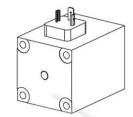




ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

Solenoids

Solenoid SIS60V to VDE 0580 Plug plate to ISO 4400/DIN 43650 Protection class IP65



### DESCRIPTION

The SIS60V is a switching solenoid. Its design corresponds to VDE standard 0580. The steel housing is zinc coated as a 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=8,5 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.

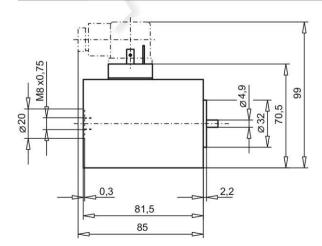
### CONTENTS

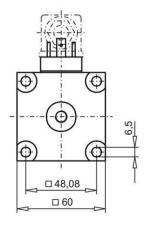
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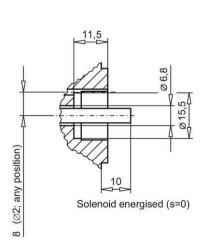
### TYPE CODE

		S	IS	60 V	· - 🗀	□-⊑	# [
Solenoid Industry version							
Super							
Square 60 mm housing							
Solenoid completly potted							
Standard-Nominal voltage $U_N$ AC= 50 to 60 Hz	12 VDC 24 VDC 110 VAC 115 VAC 230 VAC	G12 G24 R110 * R115 * R230 *					
* 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 ov	data sheet 1.1-3		HB HB	8,5			
Design-Index (Subject to change	e)						

## DIMENSIONS







### CHARACTERISTICS

350 bar (seal diameter of valve max.		
29 mm)		
With seal diameter of valve = 32 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		
4xM6 (Quality 8.8)		
Zinc coated steel housing, other surface treatments on request.		

		DC	AC
Totale stroke	(mm)	8,5	8,5
Working stroke	(mm)	4	4
Nominal power	(W)	40	54171
15	(VA)		46
Armature weight	(kg)	0,102	0,102
Solenoid weight	(kg)	1,90	1,90
Voltage range	(VDC)	10-250	
10T- 10T-	(VAC)		50-250*

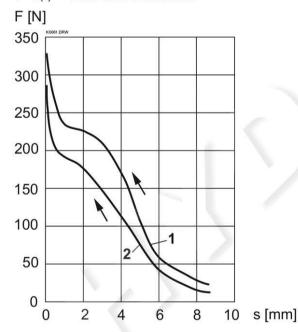
 For AC voltages below 50 VAC DC solenoids plus rectifier plugs are available.

21 VDC	to	24 VAC
32 VDC	to	36 VAC
36 VDC	to	42 VAC
42 VDC	to	48 VAC

	12VDC	24VDC	115VAC	230VAC
Nominal resistance (Ω)	4	16,5	260	920
Number of windings (-)	780	1'580	5'710	11'200
Inductivity (mH)	17	65		-

## **PERFORMANCE**

F = f (s) Force-stroke characteristics



1: U = 100 % U<sub>N</sub> 2: U = 90 % U<sub>N</sub>

Reference temperature = 20°C (40W) Reference temperature = 50°C

Solenoid in operating temperature (25W)

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  $\square$  62x93.

A	CC	ES	SO	IR	ES

Plug HB0 \* Article No. 239.2033 Plug with integrated manual override HB8,5 \* Article No. 253.8002

\* 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