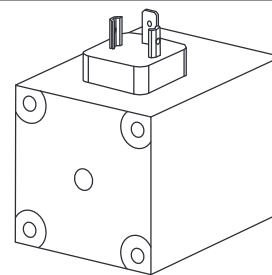


**Solenoid SIS60V**  
**to VDE 0580**  
**Plug plate to ISO 4400/DIN 43650**  
**Protection class IP65**



### DESCRIPTION

The SIS60V is a switching solenoid. Its design corresponds to VDE standard 0580. 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 designed 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.

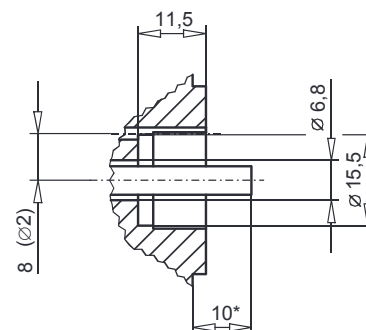
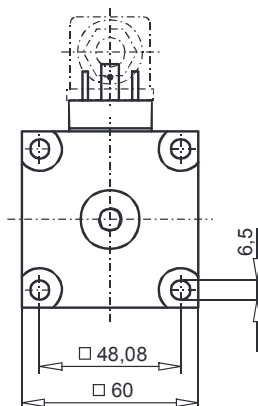
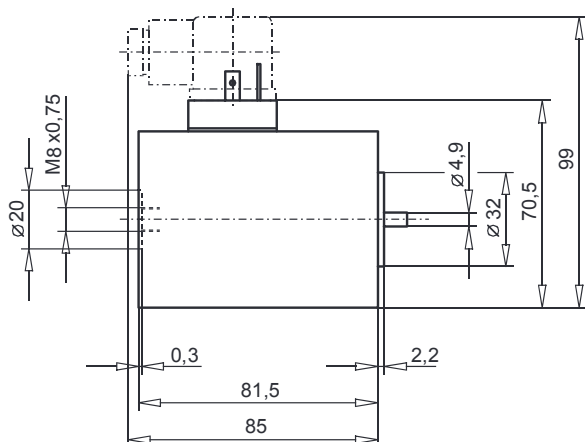
### APPLICATION

Essential for hydraulic directional and poppet valves. Because of the risk of overheating, the solenoid must never be used separately. The length 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 determined by the valve actually used.

### TYPE CODE

		SI S 60 V - <input type="text"/> # <input type="text"/>	
Solenoid			
Industrial execution			
Super			
Square 60 mm housing			
Solenoid completely potted			
Nominal voltage $U_N$	12 VDC	<input type="text" value="G12"/>	
	24 VDC	<input type="text" value="G24"/>	
	115 VAC	<input type="text" value="R115"/>	*
	230 VAC	<input type="text" value="R230"/>	*
AC= 50 to 60 Hz			
* Rectifier integrated in the plug plate			
Other nominal voltages and nominal power on request			
Design-Index (Subject to change)			

### DIMENSIONS



\* Solenoid energised ( $s=0$  mm)

**CHARACTERISTICS**

Static pressure tightness	350 bar (seal diameter of valve max. 29 mm) With seal diameter of valve = 32 mm: Static pressure tightness = 315 bar
Coil winding insulation class	H
Connection / Power supply	Over device plug connection to ISO 4400 / DIN 43650, (2P+E), other connections on request
Protection class to EN 60529	IP65
Relative duty factor	100 %
Reference temperature	50 °C
Seal	Viton, other on request
Fluid	Mineral oil, other fluid on request
Switching cycles	15 000/h
Mounting screws	4 x M6 (Quality 8.8)
Housing	Zinc Nickel coated steel housing

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

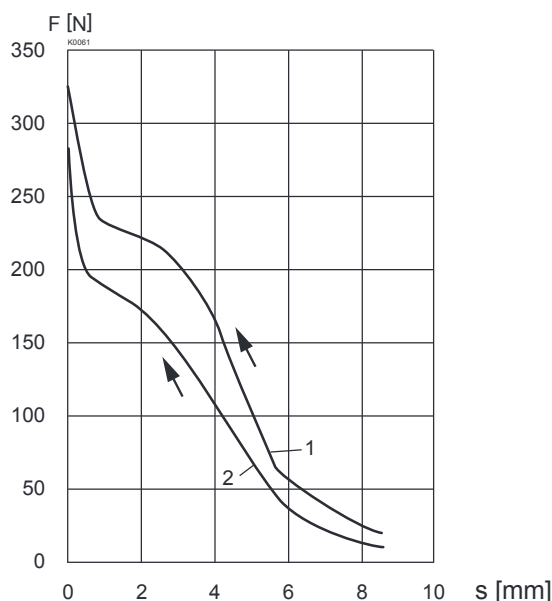
\* For AC voltages below 50 VAC DC solenoids plus rectifier plugs are available.

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

STANDARD	12VDC	24VDC	125VDC	115VAC	230VAC
Nominal resistance ( $\Omega$ )	4	16,5	400	260	920
Number of windings (-)	780	1'580	7760	5'710	11'200
Inductivity (mH)	17	65	1625	-	-

**PERFORMANCE**

F = f (s) Force-stroke characteristics



1:  $U = 100\% U_N$  Reference temperature = 20 °C (40W)  
2:  $U = 90\% U_N$  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  $\square 62 \times 93$ .

**ACCESSOIRES**

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

Technical explanation see data sheet 1.1-400