

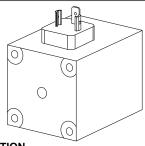
Solenoid SIN60V to VDE 0580 Plug plate to ISO 4400/DIN 43650 Protection class IP65

DESCRIPTION

The SIN60V is a switching solenoid. Its design corresponds to VDE standard 0580. The steel housing is zinc coated as a standard. Static pressure tightness is 160 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

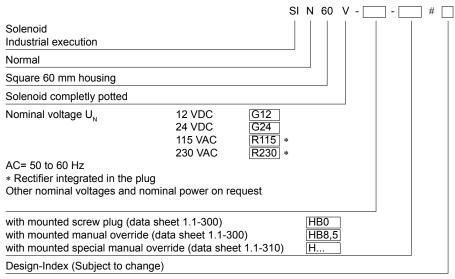
When the solenoid is energised with the specified nominal voltage, the armature moves from the starting position of its stroke (s=8,5 mm) to the end position (s=0 mm). The switching time is essentially dependent on the application. The power-stroke characteristics are designed to suit the requirements of hydraulic valves. AC versions include an electronic rectifier integrated into the connector plate. In this way maximum perfor-mance is assured.



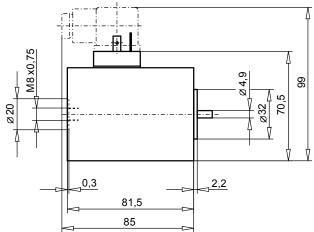
APPLICATION

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.

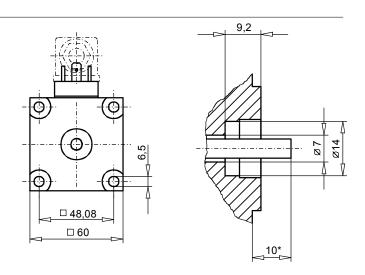
TYPE CODE



DIMENSIONS









CHARACTERISTICS

Static pressure tightness 160 bar (seal diameter of valve

max. 32 mm)

Coil winding insulation class

Connection/Power supply

Over device plug connection to ISO 4400/DIN 43650, (2P+E),

other connections on request

Protection class EN 60 529 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 4xM6 (Quality 8.8)
Housing Zinc coated steel housing,

other surface treatments on request.

	DC	AC	
(mm)	8,5	8,5	
(mm)	4	4	
(W)	40		
(VA)		46	
(kg)	0,124	0,124	
(kg)	1,90	1,90	
(VDC)	10-250		
(VAC)		50-250*	
	(mm) (W) (VA) (kg) (kg) (VDC)	(mm) 8,5 (mm) 4 (W) 40 (VA) (kg) 0,124 (kg) 1,90 (VDC) 10-250	(mm) 8,5 8,5 (mm) 4 4 (W) 40 (VA) 46 (kg) 0,124 0,124 (kg) 1,90 1,90 (VDC) 10-250

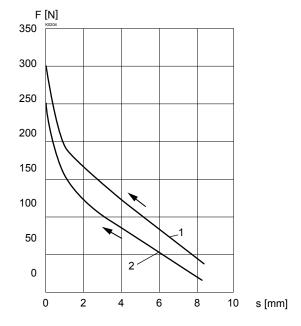
 For AC voltages below 50 VAC DC solenoids plus rectifier plugs are available.

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)	19	75	-	-

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 x 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