HYDRAULICKÉ SYSTÉMY

LIKŁADY HYDRALII ICZNE



ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

Solenoids

Solenoid SIN45V to VDE 0580 Plug plate to ISO 4400/DIN 43650 Protection class IP65

DESCRIPTION

The SIN45V 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 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.

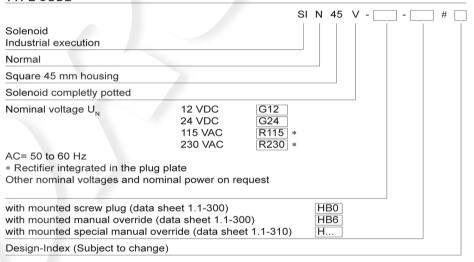
FUNCTION

When the solenoid is energised with the specified nominal voltage, the armature moves from the starting position of its stroke (s=5,5 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.

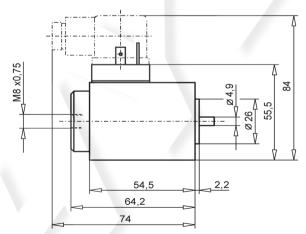
APPLICATION

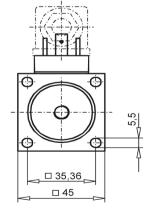
Essential for hydraulic directional and poppet valves. Because of the risk of overheating, the solenoid must never be used separately. The lenght of the fixing screws depends on the base material of the body. An o-ring is used for the valve seal. Information on screws and o-rings will be found in the 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.

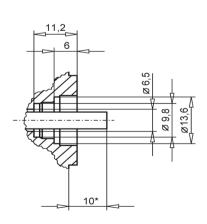
TYPE CODE



DIMENSIONS







^{*} Solenoid energised (s= 0 mm)

CHADACTERISTICS

CHARACTERISTICS	
Static pressure tightness	160 bar (seal diameter of valve max. 26 mm)
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 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	4xM5 (Quality 8.8)
Housing	Zinc coated steel housing, other

surface treatments on request.

	DC	AC
(mm)	5,5	5,5
(mm)	2,5	2,5
(W)	30	
(VA)	\	35
(kg)	0,055	0,055
(kg)	0,76	0,76
(VDC)	10-250	
(VAC)		40-250*
	(mm) (W) (VA) (kg) (kg) (VDC)	(mm) 5,5 (mm) 2,5 (W) 30 (VA) (kg) 0,055 (kg) 0,76 (VDC) 10-250

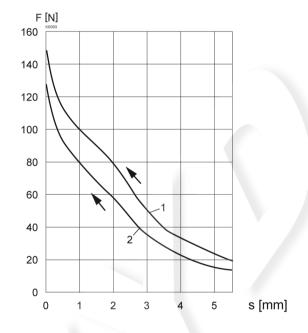
* For AC voltages below 40 VAC DC solenoids plus rectifier plugs are available.

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
Inductivity (mH)	16	72	-	-

PERFORMANCE

F = f(s)Force-stroke characteristics



ACCESSOIRES

Rectifier plug black

Plug HB0 Plug with integrated manual override HB6	* Article No. 239.2033 * Article No. 253.8001 * acc. data sheet 1.1-300
Special manual override	see data sheet 1.1-310
Plug grey Plug black	Article No. 219.2001 Article No. 219.2002
Rectifier plug grey	Article No. 219.2105

Article No. 219.2106

1: U = 100 % U_N Reference temperature = 20 °C (30W) 2: U = 90 % U_N 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 solenoids has been mounted on a body ☐ 46x64.