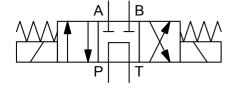


AC INTERNATIONAL



4/3- directional- spool valveSolenoid-operated, direct acting 4 WE 6 G

SYMBOL



up to 60 l/min up to 320 bar

FUNCTION

HYDAC 4/3 directional spool valves in the series 4WE 6 G are directional valves for oil- hydraulic systems, which serve to open and close flow paths. In the deenergised mode the control spool is held in the rest position by the return spring. The actuation of the control spool occurs via an oilimmersed solenoid. The solenoid pushes the control spool from its rest position to its final position. This opens the required flow paths according to the symbol. When the solenoid is de-energised, the control spool is pushed back to the rest position by the return spring. A manual override permits the valve to be switched without energizing the solenoid.

FEATURES

- Direct-acting, solenoid-operated valve NW 6
- Economical and reliable due to simple design
- Oil- immersed solenoid armature for long life and low noise operation
- Solenoid coils can be replaced with no possibility of oil leakage
- Interface to DIN 24340 Form A6, ISO 4401
- Manual override

SPECIFICATIONS

Operating pressure: port A,B,P: pmax= 320 bar port T: pmax= 210 bar

Nominal Flow: max. 60 l/min

Media operating temp. range: min. –20°C up to max. +80°C min. –20°C up to max. +55°C hydraulic oil to DIN 51524 part1 and 2

Viscosity range: 10 mm²/s up to 500 mm²/s is recommended

Filtration: Class 20/18/15 according to

ISO 4406 or cleaner

 $\begin{array}{ll} \text{Max. switching frequency:} & 15.000 \text{/h} \\ \text{MTTF}_{\text{d}} \text{:} & 150 \text{ years} \end{array}$

Installation: no orientation restrictions

Manual override: up to approx. 50 bar tank pressure possible

Seal materials: Standard FKM

Weight: 2,0 kg

Electrics

Coil duty rating:

Type of voltage: DC voltage Voltage tolerance: ±10%

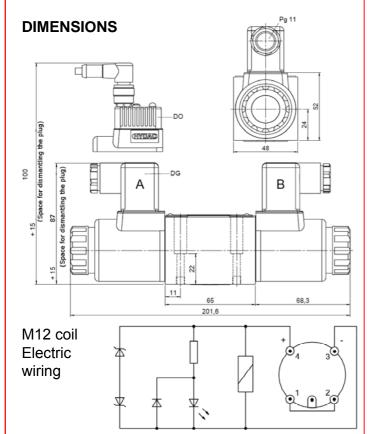
Nominal power: 30W (12V / 2,5A) resp. 32W (24V / 1,33A) Switching time: Switch-on time (coil): 20 ms up to 70 ms Switch-off time (spring): 10 ms up to 60 ms

100%

Electrical connection: plug to DIN 43650

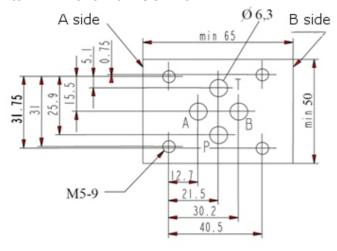
IP rating: IP 65 to EN 60529; DIN 40050 provided

the connector is fitted correctly



INTERFACE

to DIN 24340-A6 / ISO 4401

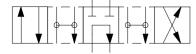


Mounting screws: M5 x 30 DIN 912-10.9

Torque: 6 + 1 Nm

Female connector and mounting screws (4 pcs.) must be ordered separately.

Crossover



HYDAC Fluidtechnik GmbH Justus-von-Liebig-Str. 5 66280 Sulzbach / Saar Tel: 06897 / 509 -0

Fax: 06897 / 509 -598 Email: flutec@hydac.com

NOTE

The information in this brochure relates to the operating conditions and applications described. For applications or operating conditions not described, please contact the relevant technical department. Subject to technical modifications.

MODEL CODE

4WE S01 - 12DG / V Name 4/3-directional spool valve Nominal size 6 = Nominal size 6 Symbol -Series Determined by manufacturer

Nominal voltage

12 = 12 Volt DC voltage 24 = 24 Volt DC voltage

96 and 205 Volt DC voltage on request (only type DG)

DG: DIN plug to EN 175301-803

DO: M12x1 plug

Seal material

V = FKM (Standard)

N = NBR

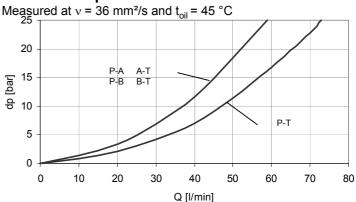
Supply voltage +/- 10%	Nominal voltage of the DC-coil	Nominal power of the DC-coil
110 V – 50/60 Hz	96 V	32 W
230 V – 50/60 Hz	205 V	33 W
by using a female connector with integrated rectifier		

Standard models

Name	Part No.
4WE 6 G S01-12DG /V	6063115
4WE 6 G S01-24DG /V	6063143

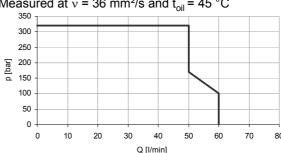
other models on request

Pressure drop



Operating limits

Measured at $v = 36 \text{ mm}^2/\text{s}$ and $t_{oil} = 45 \text{ °C}$



The operating limits were determined using coils at operating temperature and 10% under voltage. The operating limits given are for applications with two flow directions. For flow in only one direction, the operating limits can be lower.

For operation with G96/G205 coils max. permitted flow rate shown in the graph must be reduced by 10%. The switch-on times will increase.