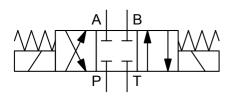
GYDAD INTERNATIONAL



SYMBOL



up to 120 l/min up to 320 bar

FUNCTION

HYDAC 4/3 directional spool valves in the series 4WE 10 E are directional valves for oil- hydraulic systems, which serve to open and close flow paths. In the de- energised 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 is rest position to is final position. This opens the required flow paths according to the symbol. When the solenoid is deenergised, 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.

4/3- directional- spool valve Solenoid-operated, direct acting 4 WE 10 E

FEATURES

- Direct-acting, solenoid-operated valve NW 10
- 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 A10, ISO 4401
- Manual override

SPECIFICATIONS

Operating pressure:

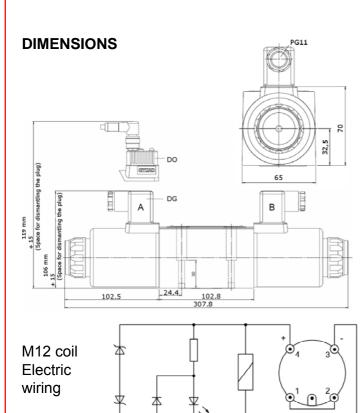
Nominal Flow: Media operating temp. range: Ambient temperature range: Fluids: Viscosity range: Filtration:

Max. switching frequency: MTTF_d: Installation: Manual override: Seal materials: Weight:

Electrics Type of voltage: Voltage tolerance: Nominal power: Switching time:

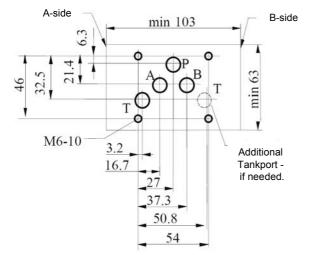
Coil duty rating: Electrical connection: IP rating: port A,B,P: pmax= 320 bar port T: pmax= 210 bar max. 120 l/min min. -20°C up to max. +80°C min. -20°C up to max. +55°C hydraulic oil to DIN 51524 part1 and 2 10 mm²/s up to 500 mm²/s is recommended Class 20/18/15 according to ISO 4406 or cleaner 15.000/h 150 years no orientation restrictions up to approx. 50 bar tank pressure possible Standard FKM 5,8 kg

DC voltage ±10% 42W (12V / 2,9A) or 48W (24V / 2,0A) Switch-on time (coil): 80 ms up to 120 ms Switch-off time (spring): 70 ms up to 110 ms Switch-on time (coil with rectifier): 90 ms up to 130 ms Switch-off time (spring): 160ms up to 200ms 100% plug to DIN 43650 IP 65 to EN 60529; DIN 40050 provided the connector is fitted correctly



INTERFACE

to DIN 24340-A10 / ISO 4401 / ISO4401



Mounting screws: M6 x 40 DIN 912-10.9

Torque: 10 + 1 Nm

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

Crossover



NOTE

HYDAC Fluidtechnik GmbH Justus-von-Liebig-Str. 5 66280 Sulzbach / Saar Tel.: 06897 / 509 -0 Fax: 06897 / 509 -598 Email: flutec@hydac.com 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

Name 4/3-directional spool valve	<u>4WE 10</u>	Ę ا	<u>\$01 -</u> 1 <u>2DG</u> / V
Nominal size 10 = Nominal size 10			
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

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	42 W		
230 V – 50/60 Hz	205 V	42 W		
by using a female connector with integrated rectifier				

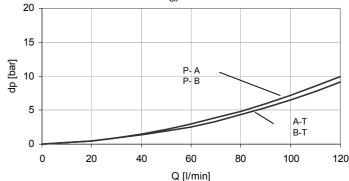
Standard models

Name	Part No.	
4WE 10 E S01–12DG /V	6063151	
4WE 10 E S01–24DG /V	6063157	

other models on request

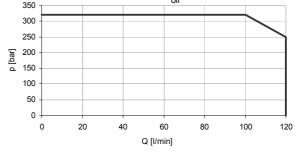
Pressure drop

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



Operating limits





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.