



FUNCTION



When de-energized, the valve allows flow from port 4 to 1, while blocking flow at ports 2 and 3.

When energized, the valve allows flow from port 3 to 4 or from 4 to 3 and from port 1 to 2 or 2 to 1.

4/2 Solenoid Directional Valve UNE Spool Type, Direct-Acting, SAE-10 Cartridge – 350 bar WK10P-01

FEATURES

- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Excellent switching performance by high power HYDAC solenoid
- Low pressure drop due to CFD optimized flow path

SPECIFICATIONS

Operating pressure:	max. 350 bar	max. 350 bar	
Nominal flow:	max. 32 l/min		
Internal leakage:	max. 160 cm³/min at 250 bar and 34 mm²/s		
Media operating temperature range:	min20 °C to m	min20 °C to max. +100 °C	
Ambient temperature range:	min20 °C to +	max. 60 °C	
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	min. 7.4 mm ² /s to max. 420 mm ² /s		
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner		
MTTF _d :	150 years (see "Conditions and instructions for valves" in brochure 5.300)		
Installation:	No orientation restrictions		
Materials:	Valve body:	free-cutting steel	
	Spool:	hardened and ground steel	
	Seals:	NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C)	
	Back-up rings:	PTFE	
	Coil:	steel / polyamide	
Cavity:	FC10-4		
Weight:	Valve complete	0.48 kg	
	Coil only	0.23 kg	
Electrical data:			
Type of voltage:	DC solenoid, AC voltage is rectified using a bridge rectifier built into the coil		
Current draw at 20 °C:	2.22 A at 12 V DC 1.13 A at 24 V DC		
Voltage tolerance:	± 15% of the nominal voltage		
Coil duty rating:	Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature		
Coil type:	Coil50-1836		

462 **HYDAC**



CAVITY



MODEL CODE	<u>WK10P-01</u> M	- C - N	- <u>24</u>	DC
Basic model				
Directional spool valve, UNF				
Manual override				
no details = without manual overrie	de			
M = manual override				
Body and ports*				
C = cartridge only				
SB4 = G1/2 ports, steel body				
AB4 = G 1/2 ports, aluminium body				
Seals				
V = FKM				
Coil voltage				
DC voltages				
12 = 12 V DC				
24 = 24 V DC				
AC voltages (bridge rectifier built int	o the coil)			
115 = 115 V AC				
230 = 230 V AC				
Other voltages on request				
Coll connectors (type 50-1836) —	5201 002			
DC. DG = DIN CONNECTOR TO EN 17	0301-003 Action M27v1			
DI = 2 flying leads 457 mm l	0.075 mm^2			
DN = Deutsch connector, 2-pc	ole, axial			
DT = AMP Junior Timer, 2-po	le, radial			
AC: AG = DIN connector to EN 17	5301-803			
Other connectors on request				

Standard models

Model code	Part No.
WK10P-01-C-N-24DG	3098533
WK10P-01-C-N-230AG	3098534
Other models on request	

*Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
FH104-SB4	3037784	Steel, zinc-plated	G1/2	420 bar
FH104-AB4	3038097	Aluminium, anodized	G1/2	210 bar
Other bodies o	n request			

Soal kite

Oear Kita		
Code	Material	Part No.
FS104-N SEAL KIT	NBR	3051912
FS104-V SEAL KIT	FKM	3071275
Other seal kits on request		

PERFORMANCE

Measured at $v = 34 \text{ mm}^2/\text{s}$, $T_{oil} = 46 \text{ °C}$



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

HYDAC Fluidtechnik GmbH Justus-von-Liebig-Str. D-66280 Sulzbach/Saar Tel: 0 68 97 /509-01 Fax: 0 68 97 /509-598 E-Mail: flutec@hydac.com

HYDAC | 463