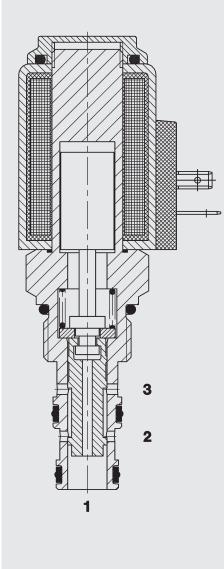


max. 350 bar

FUNCTION



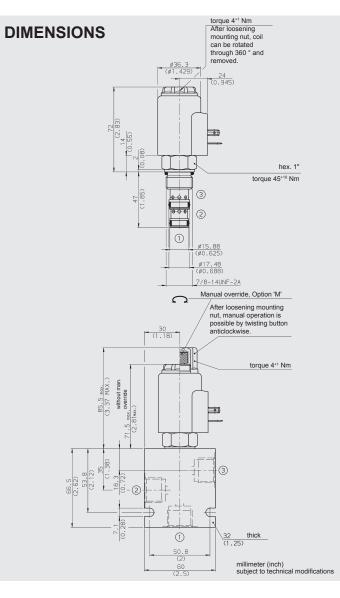
When de-energized, the valve allows flow in both directions between ports 3 and 2, while blocking flow at port 1. When energized, the valve allows flow in both directions between ports 1 and 2, while blocking flow at port 3. **3/2 Solenoid Directional Valve UNF Spool Type, Direct-Acting SAE-10 Cartridge – 350 bar** WK10D-01

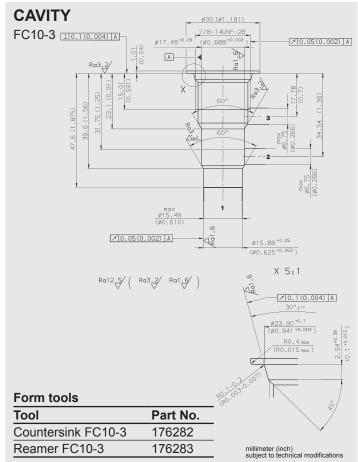
FEATURES

- 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. 120 cm³/mi	max. 120 cm³/min at 250 bar and 34 mm²/s	
Media operating temperature range:	min20 °C to m	nax. +100 °C	
Ambient temperature range:	min20 °C to m	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)		
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:	FC10-3		
Weight:	Valve complete	0.47 kg	
	Coil only	0.23 kg	
Electrical data:			
Coil duty rating:	Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature		
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 type:	Coil50-1836		





Μ	ODEL CODE
	<u>WK10D</u> – <u>01</u> M – C – N – <u>24</u> <u>DG</u>
Dir	sic model
Ty 01	= standard
	nual override
	details = without manual override
	= manual override
	e cartridge only
SB	4 = G1/2 ports, steel body
	4 = G1/2 ports, aluminium body
	als = NBR (standard)
V	= FKM
	il voltage
12	= 12 V DC
	= 24 V DC
AC	voltages (bridge rectifier built into the coil)
	5 = 115 V AC
	her voltages on request
Co	il connectors (type 50-1836)
DC	: DG = DIN connector to EN 175301-803 DK = KOSTAL threaded connection M27x1
	DL = 2 flying leads, 457 mm long, 0.75 mm ²
	DN = Deutsch connector, 2-pole, axial
40	DT = AMP Junior Timer, 2-pole, radial
	her connectors on request
	AG = DIN connector to EN 175301-803

Standard models

Model code	Part No.
WK10D-01-C-N-24DG	3095107
WK10D-01-C-N-230AG	3095105

*Standard in-line bodies

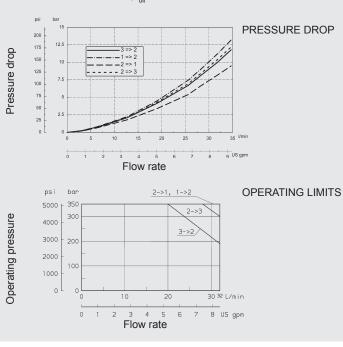
Code	Part No.	Material	Ports	Pressure
FH103-SB4	3037697	Steel, zinc-plated	G1/2	420 bar
FH103-AB4	3038092	Aluminium, anodized	G1/2	210 bar
Other bodies o	n request			

Seal kits

Code	Material	Part No.		
FS103-N SEAL KIT	NBR	3071274		
FS103-V SEAL KIT	FKM	3049443		

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