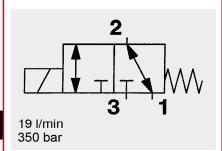


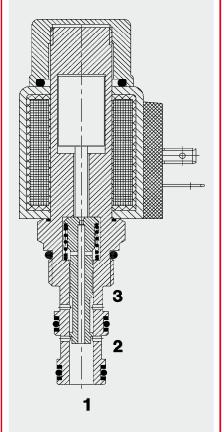
HYDAC

AC INTERNATIONAL



3/2 Solenoid Directional Valve UNE Spool Type - Direct-Acting SAE08 Cartridge - 350 bar WK08C-01

FUNCTION



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

FEATURES

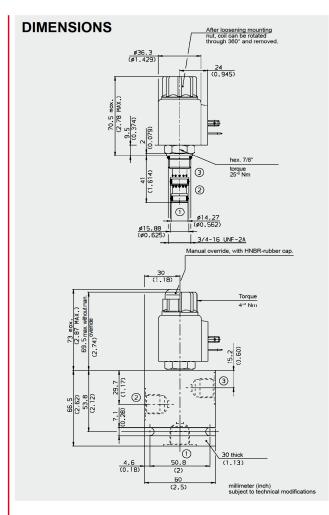
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Excellent switching performance by high power HYDAC solenoid
- Low pressure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

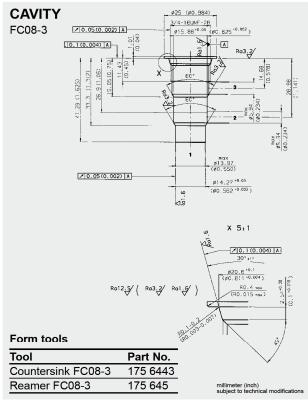
SPECIFICATIONS

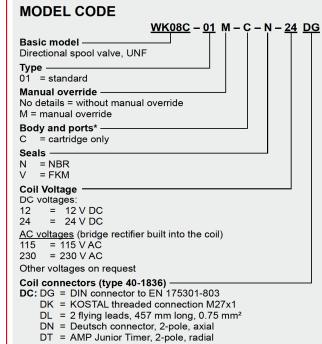
Operating pressure:	max. 350 bar	
Nominal flow:	max. 19 l/min	
Internal leakage:	max. 90 cm³/min at 250 bar and 34 mm²/s	
Media operating temperature range:	min20 °C to ma	ıx. +120 °C
Ambient temperature range:	min20 °C to max. +60 °C	
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2	
Viscosity range:	min. 7.4 mm²/s to max. 420 mm²/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)	
Material	Valve body:	free-cutting steel
	Piston:	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:	FC08-3	
Weight:	Valve complete	0.37 kg
	Coil only	0.19 kg
Electrical data:		
Switching time:	Energized:	approx. 20 - 85 ms
	De-energized:	approx. 40 - 80 ms
Type of voltage:	DC solenoid, AC voltage is rectified using a bridge rectifier built into the coil	
Current draw at 20 °C:	1.5 A at 12 V DC 0.8 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:	Coil40-1836	

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Standard models

Other connectors on request

Code	Part No.
WK08C-01-C-N-12DG	3020375
WK08C-01-C-N-24DG	3020388
WK08C-01-C-N-230AG	3043889
Other models on request	

AC: AG = DIN connector to EN 175301-803

*Standard line body

Code	Part No.	Material	Connections	Pressure
FH083-SB3	560922	Steel, zinc-plated	G3/8	420 bar
FH083-AB3	3011427	Aluminium, clear anodized	G3/8	210 bar

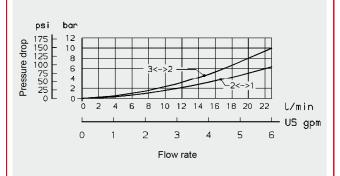
Other bodies on request

Seal kits

ı	Code	Material	Part No.
ı	FH083-N Seal kit	NBR	3054795
ı	FH083-V Seal kit	FKM	2591059

PERFORMANCE

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



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.

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