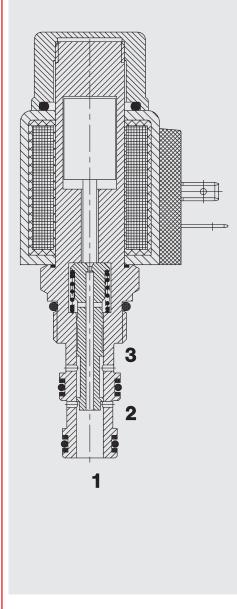


## FUNCTION



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. **3/2 Solenoid directional Valve spool type, direct-acting UNF Cartridge – 350 bar** WK08C-01

### **FEATURES**

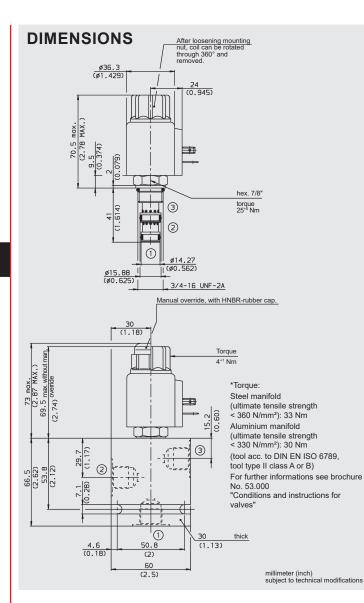
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Excellent switching performance by high power HYDAC solenoid
- Exposed surfaces zinc-nickel plated for increased corrosion protection (1000 h Salt spray test)

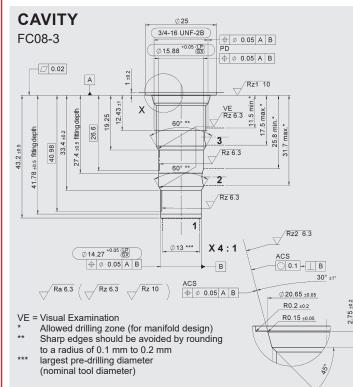
## **SPECIFICATIONS\***

max. 350 bar max. 19 l/min max. 130 ml/min a		
1110A. 100 111/11111 2	at 210 bar and 36 mm²/s	
min20 °C to max. +120 °C		
min20 °C to max. + 60 °C		
Hydraulic oil to DIN 51524 Part 1, 2 and 3		
min. 7.4 mm <sup>2</sup> /s to max. 420 mm <sup>2</sup> /s		
$p \le 210$ bar min. class 20/18/15		
p > 210 bar min. class 19/17/14		
150 - 1200 years, according to DIN EN ISO 13849-1		
Valve body:	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	
FC08-3		
Valve complete	0.37 kg	
Coil only	0.19 kg	
•	approx. 20 - 85 ms	
•	approx. 40 - 80 ms	
substantially extended response times possible at other operating conditions		
<u>DC</u> : direct current solenoid <u>AC</u> : alternating current solenoid with a bridge rectifier built into the coil		
1.5 A at 12 V DC 0.8 A at 24 V DC		
± 15% of the nominal voltage		
Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature		
Coil40-1836		
	Hydraulic oil to D min. 7.4 mm²/s to $p \le 210$ bar min. p > 210 bar min. 150 - 1200 years according to DIN Valve body: Piston: Seals: Back-up rings: Coil: FC08-3 Valve complete Coil only energized: de-energized: substantially exte possible at other DC: direct curren AC: alternating c bridge rectifi 1.5 A at 12 V DC 0.8 A at 24 V DC ± 15% of the non Continuous up to of the nominal vo 60 °C ambient te	

\* see "Conditions and instructions for valves" in brochure 53.000

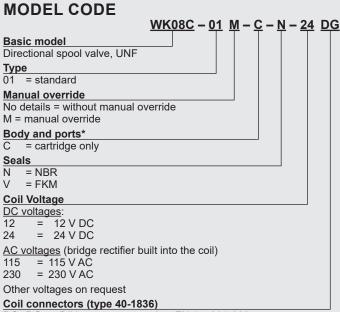
EN 5.906.7/11.20





### Form tools

Tool	Part No.
Countersink	175644
Reamer	175645



- DC: DG = DIN connector type A to EN 175301-803
  - DK = KOSTAL threaded connection M27x1
  - DL = 2 flying leads, 457 mm long, 0.75 mm<sup>2</sup>
  - DN = Deutsch connector, 2-pole, axial
  - DT = AMP Junior Timer, 2-pole, radial
- AC: AG = DIN connector type A to EN 175301-803

Other connectors on request

### Standard models

Model 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	

### \*Standard in-line bodies

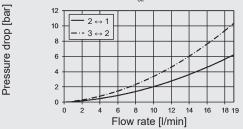
Code	Part No.	Material	Ports	Pressure
FH083-SB3	560922	Steel, zinc-plated	G3/8"	350 bar
FH083-AB3	3011427	Aluminium, anodized	G3/8"	210 bar
Other bodie	es on requ	est		

#### Seal kits

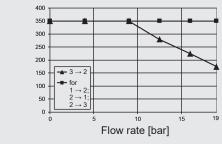
Code	Material	Part No.
FS UNF 08/N	NBR	3651385
FS UNF 08/V	FKM	3651356

### **TYPICAL PERFORMANCE**

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



**Switching Performance** 



#### Note

millimeter (inch) subject to technical modifications

Operating pressure [bar]

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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# 2 HYDAC