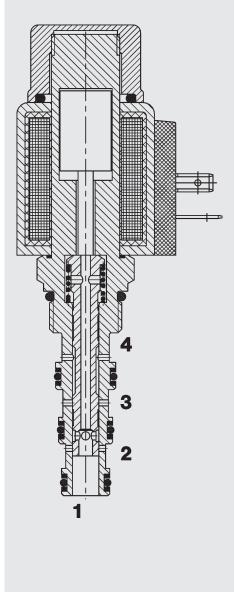


19 l/min 350 bar

## **FUNCTION**



When the solenoid coil is de-energized, all ports are coil is energy through the from 2 to 1 a from 4 to 3. all ports are closed. When the solenoid coil is energized, there is free flow through the valve from port 1 to 2 or from 2 to 1 and also from port 3 to 4 or

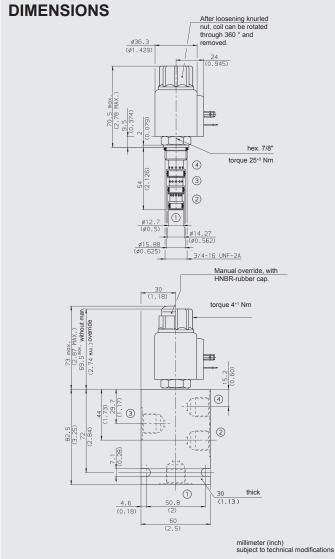
**4/2 Solenoid Directional Valve UNE** Spool Type, Direct-Acting SAE-08 Cartridge – 350 bar WK08Z-01

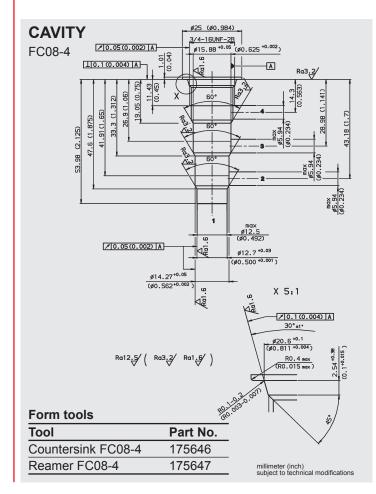
# **FEATURES**

- 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		
Nominal flow:	max. 19 I/min (Consult HYDAC for flow		
	rates		
	above 207 bar)		
Internal leakage:	90 cm <sup>3</sup> /min at 250 bar and 34 mm <sup>2</sup> /s		
Media operating temperature range:	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 <sup>2</sup> /s to max. 420 mm <sup>2</sup> /s		
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner		
MTTF <sub>d</sub> :	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:	FC08-4		
Weight:	Valve complete	0.38 kg	
	Coil only	0.19 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:	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		





#### MODEL CODE WK08Z - 01 M - C - N - 24 DG Basic model -Directional spool valve, UNF Туре 01 = standard Manual override no details = without manual override M = manual override Body and ports\* = cartridge only С SB3 = G3/8 ports, steel body AB3 = G3/8 ports, aluminium body Seals Ν = NBR (standard) V = FKM **Coil voltage** DC voltages 12 = 12 V DC 24 = 24 V DC AC voltages (bridge rectifier built into the coil) 115 = 115 V AC 230 = 230 V AC Other voltages on request Coil connectors (type 40-1836) DC: DG = DIN connector 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 to EN 175301-803

Other connectors on request

#### Standard models

Code	Part No.
WK08Z-01-C-N-24DG	3022108
WK08Z-01-C-N-230AG	3044097
Other models on request	

## \* Standard in-line bodies

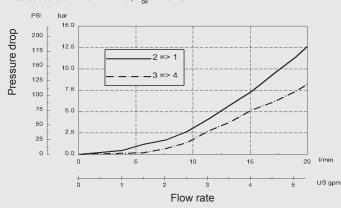
Code	Part No.	Material	Ports	Pressure
FH084-SB3	563383	Steel, zinc-plated	G3/8	420 bar
FH084-AB3	3011407	Aluminium, clear anodized	G3/8	210 bar
Other housings on request				

#### Seal kits

Code	Material	Part No.
FS084-N SEAL KIT	NBR	3071272
FS084-V SEAL KIT	FKM	3071273

## PERFORMANCE

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



### 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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