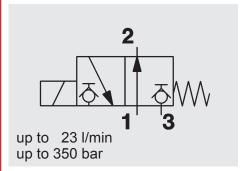
## HYDAC

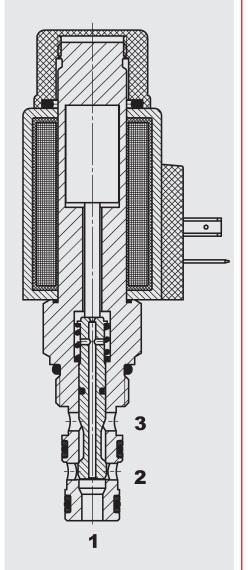
### **DAD** INTERNATIONAL



# 3/2 Solenoid Directional Valve UNE Poppet Type, Direct-Acting SAE-08 Cartridge – 350 bar

WS08D-01

#### **FUNCTION**



When de-energized, there is free flow through the valve from port 1 to port 2. Port 3 is closed. When energized, the valve allows flow from port 2 to 3, while blocking flow at port 1.

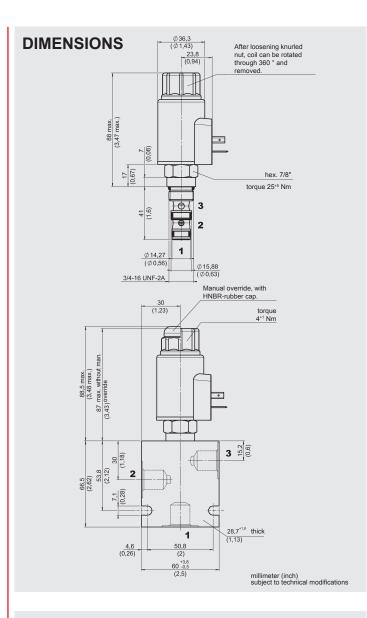
#### **FEATURES**

- 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

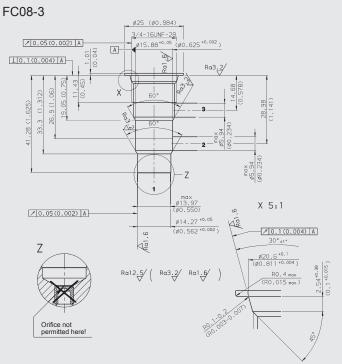
#### **SPECIFICATIONS\***

Operating pressure:	max. 350 bar	1	
Nominal flow:	max. 23 l/min		
Leakage:	leakage-free		
	(max. 5 drops ≘ 0	,25 cm³/min at 350 bar)	
Media operating temperature range:	-20 °C to +100 °C		
Ambient temperature range:	-20 °C to +60 °C		
Fluids:	Hydraulic oil to DI	N 51524 part 1 and 2	
Viscosity:	Min. 10 mm <sup>2</sup> /s to	Min. 10 mm²/s to max. 420 mm²/s	
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner		
MTTF <sub>d</sub> :	150 years		
Installation:	no orientation restrictions		
Material:	Valve body:	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:	FC08-3		
Weights:	Valve complete:	0.45 kg	
	Coil only:	0.23 kg	
Electrical data:			
Reponse time:	Energized: De-energized:	approx. 30 ms approx. 50 ms	
Type of voltage:	DC solenoid, AC voltage is rectified using a bridge rectifier built into the coil		
Current draw at 20 °C:	2.22 amps at 12 V DC		
	1.13 amps at 24 V DC		
V 10 0 1	±15% of nominal		
Voltage tolerance:		Continuous up to 115% of nominal voltage at max 60 °C ambient	
Voltage tolerance:  Coil duty rating:	Continuous up to		
	Continuous up to of nominal voltage		

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



#### **CAVITY**

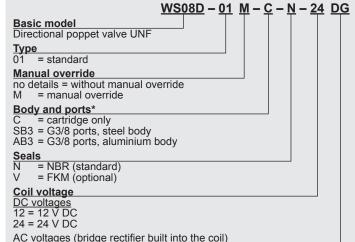


#### Form tools

Tool	Part No.
Countersink FC10-2	175644
Reamer FC10-2	175645

millimeter (inch) subject to technical modifications

#### **MODEL CODE**



AC voltages (bridge rectifier built into the coil) 115 = 115 V AC 230 = 230 V AC

Other voltages on request

Coil 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 mm² 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

Model code	Part No.
WS08D-01-C-N-12DG	3229015
WS08D-01-C-N-24DG	3229020
WS08D-01-C-N-230AG	3229019

Other models on request

#### \* Standard in-line bodies

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

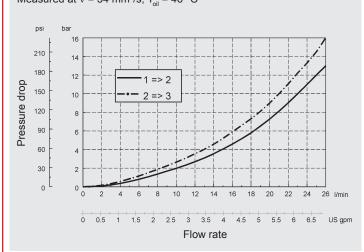
Other models on request

#### Seal kits

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

#### **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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