



up to 350 bar

FUNCTION



When the solenoid coil is not energized, there is free flow through the valve from port 1 to port 2. Port 3 is closed. When energized, there is free flow

When energized, there is free flow through the valve from port 2 to port 3. Port 1 is closed. **3/2-Solenoid Directional Valve Poppet Type - Direct-Acting Normally Open Metric Cartridge – 350 bar** WSM08130D-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 connections available
- Excellent switching performance by high power HYDAC solenoid

SPECIFICATIONS

Operating pressure:		max. 350 bar		
Nominal flow:		max. 22 l/min		
Internal leakage:	Leakage-free			
		0,25 cm³/min at 350 bar)		
Media operating temperature range:	min20 °C to n			
Ambient temperature range:	min20 °C to n			
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:	cleaner	Class 21/19/16 according to ISO 4406 or cleaner		
MTTF _d :		150 years (see "Conditions and instructions for valves" in brochure 5.300)		
Installation:	No orientation r	estrictions		
Materials:	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:	08130 metric			
Weight:	Valve complete	: 0.49 kg		
-	Coil only:	0.19 kg		
Electrical data:	-			
Switching time:	energized:	approx. 30 ms		
	non-energized:	approx. 50 ms		
Type of voltage:		DC solenoid, AC voltage is rectified using a bridge rectifier built into the coil		
Nominal voltage at 20 °C:	2.22 A at 12 V DC			
	1.13 A at 24 V DC			
Voltage tolerance:	±15% of nomina	±15% of nominal voltage		
Coil duty rating:	Continuous up max. 115% of th	Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature		
Coil type:	0 1 50 1000	Coil50-1836		

DIMENSIONS



CAVITY

Reamer (shank MK2)



163639

Millimeter Subject to technical modifications

MODEL CODE <u>WSM08130D</u> - <u>01</u> M - C - N - <u>24 DG</u>
Basic model Directional poppet valve, metric
01 = standard
Manual override no details = without manual override M = manual override
Body and ports* C = cartridge only
Seals N = NBR (standard) V = FKM (optional)
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 50-1836) DC: DG = DIN connector to EN175301-803 DT = AMP Junior Timer, 2 pole, radial DK = Kostal threaded connection M27 x 1 DL = 2 flying leads, 0.75 mm ² DN = Deutsch connector, axial, 2-pole

AC: AG = DIN connector to EN175301-803

Other connectors on request

Standard models

Model code	Part No.	
WSM08130D-01-C-N-12DG	3229147	
WSM08130D-01-C-N-24DG	3229152	
WSM08130D-01-C-N-230AG	3229151	
Other medale on request		

Other models on request

*Standard in-line bodies

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Code	Part No.	Material	Ports	Pressure
R08130-01X-01	394488	Steel, zinc-plated	G3/8	420 bar
R08130-01X-02	394378	Steel, zinc-plated	M14 x 1.5	420 bar
Other housings on	request			

Seal kits

Code	Part No.
SEAL KIT 08130 NBR	3164596
SEAL KIT 08130-FKM	3183746

PERFORMANCE

Measured at v = 34 mm²/s, T_{oil} = 46 °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.

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HYDAC | 399