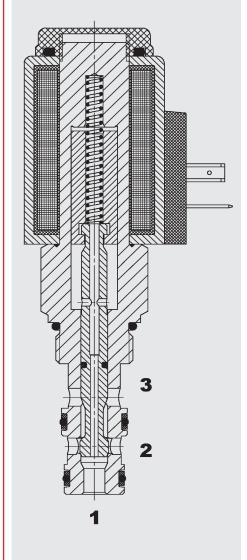


# YDAC INTERNATIONAL

Up to 22 I/min Up to 350 bar

#### **FUNCTION**



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

When energized, there is free flow through the valve from port 1 to 2. Port 3 is closed.

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

WSM08130C-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

#### **SPECIFICATIONS**

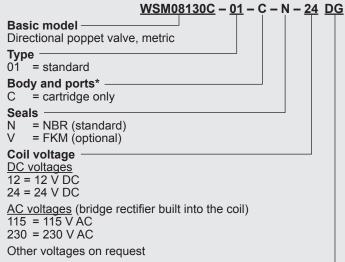
Operating pressure:	max. 350 bar		
Nominal flow:	max. 22 l/min		
Internal leakage:	Leakage-free		
		5 cm³/min at 350 bar)	
Media operating temperature range:	min20 °C to ma		
Ambient temperature range:	min20 °C to ma	x.+60 °C	
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	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)		
Installation:	No orientation res	strictions	
Material:	Valve body:	free-cutting steel	
	Poppet:	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:	0.23 kg	
Electrical data:			
Response time:	Energized:	approx. 30 ms	
	De-energized:	approx. 20 ms	
Type of voltage: DC solenoid, AC voltage is rectific			
Type of vertage.		ctifier built into the coil	
Current draw at 20 °C:	2.22 A at 12 V DC		
	1.13 A at 24 V DC	,	
Voltage tolerance:	± 15 % of nomina	l voltage	
Coil duty rating:	Continuous up to max. 115% of the		
, 0		t max. 60° C ambient	
	temperature		
Coil type:	Coil50-1836		

### **DIMENSIONS** torque 4<sup>+1</sup> Nm 23,8 After loosening the mounting nut, the coil can be rotated through 360 ° and removed. 79 max. 0 2 hex. SW 24 torque 25<sup>+5</sup> Nm 3 46 2 M20x1,5 Ø24

millimeter subject to technical modifications

### **CAVITY** Metric 08130 M20 x1.5 Ø17 HB /0.05 A A ø15.5 / 0.03 A [10.1A] 45 Rai depth 46 fitting 60° -2 X 5:1 Ra12.5/ (Ra3.2/ Ra1.6/ - Ø 0.1 A 30° ±1° ø21.8 <sup>+0.1</sup> Form tools Tool Part No. 169265 Countersink (shank MK3) Reamer (shank MK2) 163639 millimeter subject to technical modifications

## **MODEL CODE**



Coil connectors (type 50-1836)

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

Other connectors on request

#### Standard models

Model code		Part No.		
	WSM08130C-01-C-N-12DG	3374096		
	WSM08130C-01-C-N-24DG	3374097		
	WSM08130C-01-C-N-230AG	3374098		
	Other bodies on request			

#### \*Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
R08130-01X-01	394488	Steel, zinc-plated	G 3/8	420 bar
R08130-01X-02	394378	Steel, zinc-plated	M14 x 1.5	420 bar

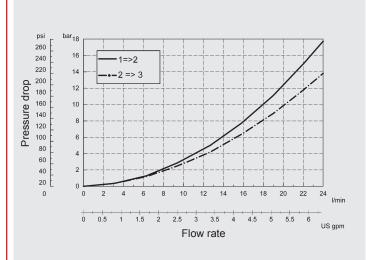
Other bodies on request

#### Seal kits

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

#### **PERFORMANCE**

Measured at  $v = 33 \text{ mm}^2/\text{s}$ ,  $T_{oil} = 46 ^{\circ}\text{C}$ 



#### **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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**HYDAC Fluidtechnik GmbH**