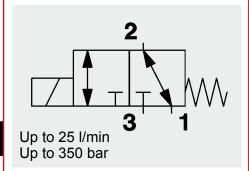


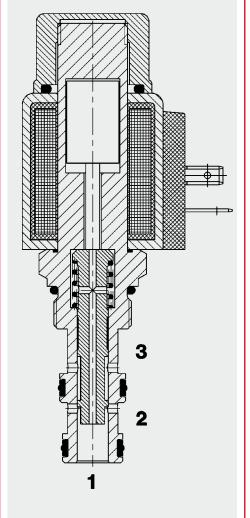
# DACINTERNATIONAL



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

WKM08130C-01

### **FUNCTION**



### **FEATURES**

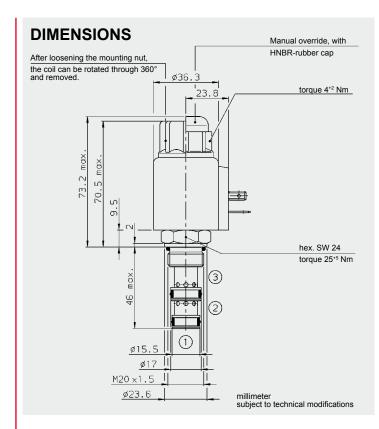
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Hardened and ground valve components to ensure minimal wear and extended service life
- Low pressure drop due to CFD optimized flow path
- External surfaces zinc-plated and corrosion-proof
- Excellent stability throughout the entire flow range
- Compact design enables space-saving installation in connection housings and control blocks

### **SPECIFICATIONS**

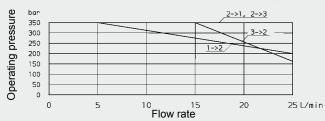
Operating pressure:	max. 350 bar		
Nominal flow:	max. 25 l/min		
Internal leakage:	max. 150 cm³/min at 250 bar and 34 mm²/s		
Media operating temperature range:	min20 °C to max. +100 °C		
Ambient temperature range:	min20 °C to max. +60 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	min. 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 (see "Conditions and instructions for valves" in brochure 5.300)		
Installation:	No orientation restrictions		
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:	08130		
Weight:	Valve complete 0.37 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:	1.5 A at 12 V DC 0.8 A at 24 V DC		
Voltage tolerance:	± 15% of the nominal voltage		
Coil duty rating:	100% (continuous) up to max. 115% of the nominal voltage at 60 °C ambient temperature		
Response time:	Energized: approx. 40 ms De-energized: approx. 30 ms		
Coil type:	Coil40-1836		

When de-energized, the valve allows flow from port 2 to 1 or from 1 to 2, while port 3 is closed.

When energized, the valve allows flow from port 2 to 3 or from 3 to 2, while port 1 is closed.



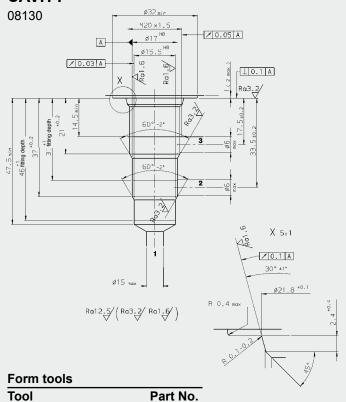
### **OPERATING LIMITS** Measured at $v = 34 \text{ mm}^2/\text{s}$ , $T_{oil} = 46 ^{\circ}\text{C}$



### **CAVITY**

Countersink (shank MK3)

Reamer (shank MK2)

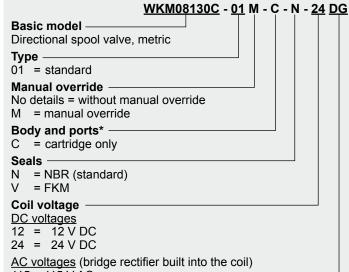


169265

163639

millimeter subject to technical modifications

### **MODEL CODE**



115 = 115 V AC

230 = 230 V AC

Other voltages on request

### Coil connectors (type 40-1836)

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 475 mm long, 0.75 mm<sup>2</sup>

DN = Deutsch connector, axial

AC: AG = DIN connector to EN175301-803

Other connectors on request

### Standard models

Model code	Part No.
WKM08130C-01-C-N-24DG	3115602
WKM08130C-01-C-N-230AG	3115603

### \*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	M 14 x 1.5	420 bar

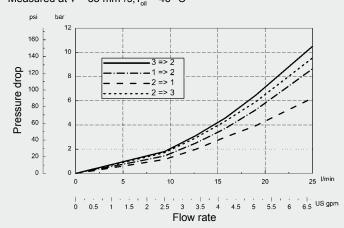
Other bodies on request

### Seal kits

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