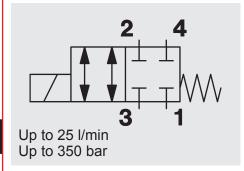


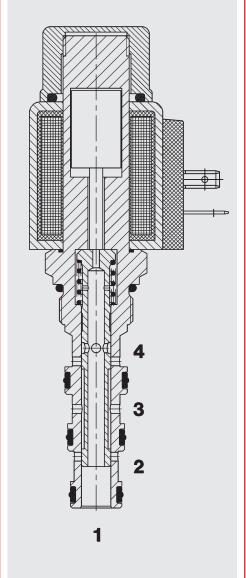
## YDAC INTERNATIONAL



# 4/2 Solenoid Directional Valve Spool Type, Direct-Acting, Metric Cartridge – 350 bar

WKM08140EB-01

#### **FUNCTION**



### **FEATURES**

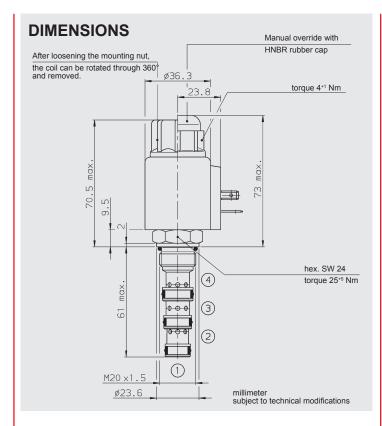
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Hardened and ground control spool to ensure minimal wear and extended service life
- Low pressure drop due to CFD optimized flow path
- External surfaces zinc-plated and corrosion-proof
- Excellent stability throughout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

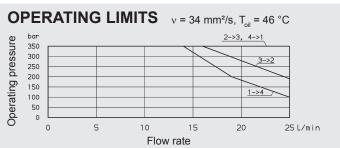
#### **SPECIFICATIONS**

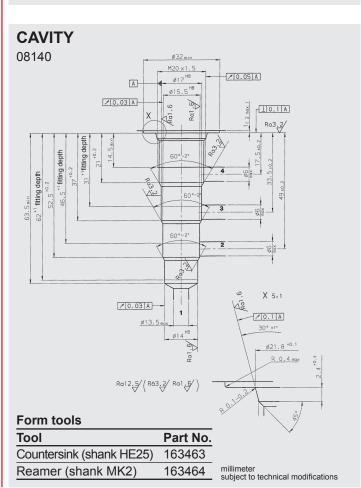
Operating pressure:	max. 350 bar		
Nominal flow:	max. 25 l/min		
Internal leakage:	max. 150 cm³/min at 250 bar and 34 mm²/s		
Media operating temperature range:	min20 °C to max. +100 °C		
Ambient temperature range:	min20 °C to max. +60 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity 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:	08140		
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 50 °C ambient temperature		
Response time:	Energized: approx. 40 ms De-energized: approx. 30 ms		
Coil type:	Coil40-1836		

When the solenoid coil is de-energized, all ports are closed.

When the solenoid coil is energized, there is free flow through the valve from port 3 to 2 or from 2 to 3 and also from port 4 to 1 or from 1 to 4.







#### **MODEL CODE** WKM08140EB - 01 M - C - N - 24 DG Basic model -Directional spool valve, metric 01 = standard Manual override No details = without manual override = manual override Body and ports\* C = cartridge only Seals Ν = NBR (standard) = FKM Coil voltage DC voltages 12 = 12 V DC = 24 V DC AC voltages (bridge rectifier built into the coil) = 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.
WKM08140EB-01-C-N-24DG	3117855
WKM08140EB-01-C-N-230AG	3117854

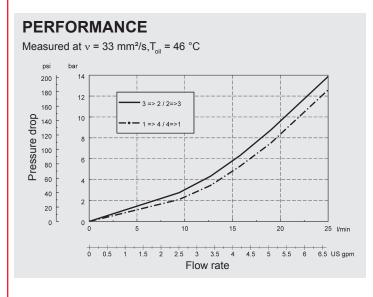
#### \*Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
R08140-01X-01	394473	Steel, zinc-plated	G 3/8	420 bar
R08130-01X-02	393535	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



#### **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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