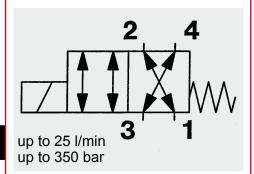


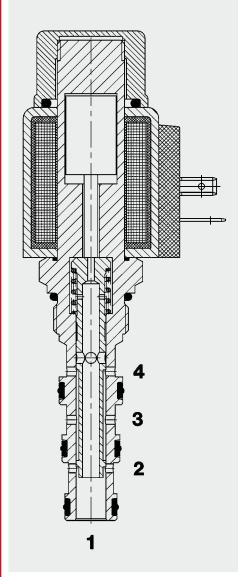
AC INTERNATIONAL



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

WKM08140Y-01

FUNCTION



FEATURES

- External surfaces zinc-plated and corrosion proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life

max. 350 bar

- Coil seals protect the solenoid system
- Wide variety of connectors available
- Excellent switching performance by high power HYDAC solenoid
- Low pressure drop by CFD optimized flow path

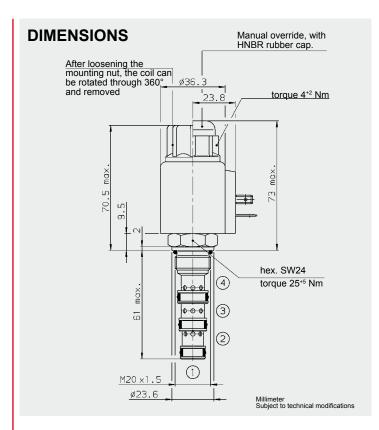
SPECIFICATIONS

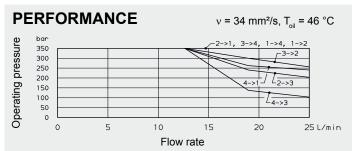
Operating pressure:

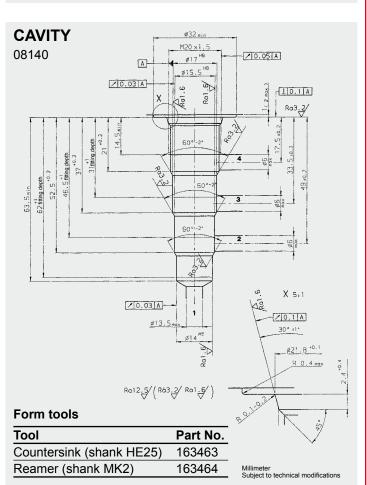
Operating pressure.	max. 550 bai		
Nominal flow:	max. 25 l/min		
Internal leakage:	150 cm³/min at 250 bar		
Media operating temperature range:	min20 °C to max. +100 °C		
Ambient temperature range:	min20 °C to max. +60 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	min. 10 mm ² /s to max. 420 mm ² /s		
Filtration:	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 restrictions		
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:	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		
Nominal voltage 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 60 °C ambient temperature		
Switching time:	energized: approx. 40ms		
	de-energized: approx. 30ms		
Coil type:	Coil40-1836		

When the solenoid coil is not energized, there is free flow through the valve from port 3 to 4 or 4 to 3 and also from 2 to 1 or 1 to 2.

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 WKM08140Y - 01 M - C - N - 24 DG Basic model Directional spool valve, metric 01 = standard Manual override no details = without manual override M = manual override Body and ports* C = cartridge only Seals = NBR (standard) = FKM 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 40-1836) DC: DG = DIN connector to EN175301-803

Standard models

Other connectors on request

Model code	Part No.
WKM08140Y-01-C-N-24DG	3086566
WKM08140Y-01-C-N-230AG	3091791

DT = AMP Junior Timer, 2-pole, radial DK = Kostal threaded connection M27 x 1

DN = Deutsch connector, axial

AC: AG = DIN connector to EN175301-803

DL = 2 flying leads 475 mm long, 0.75 mm²

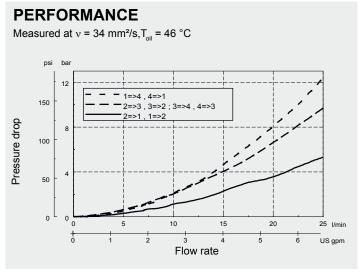
*Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
R08140-01X-01	394473	Steel, zinc-plated	G3/8	420 bar
R08140-01X-01	393535	Steel, zinc-plated	M 14 x 1.5	420 bar

Other housings on request

Seal kits

Code	Material	Part No.
SEAL KIT WKM08140C-N	NBR	3098029



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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