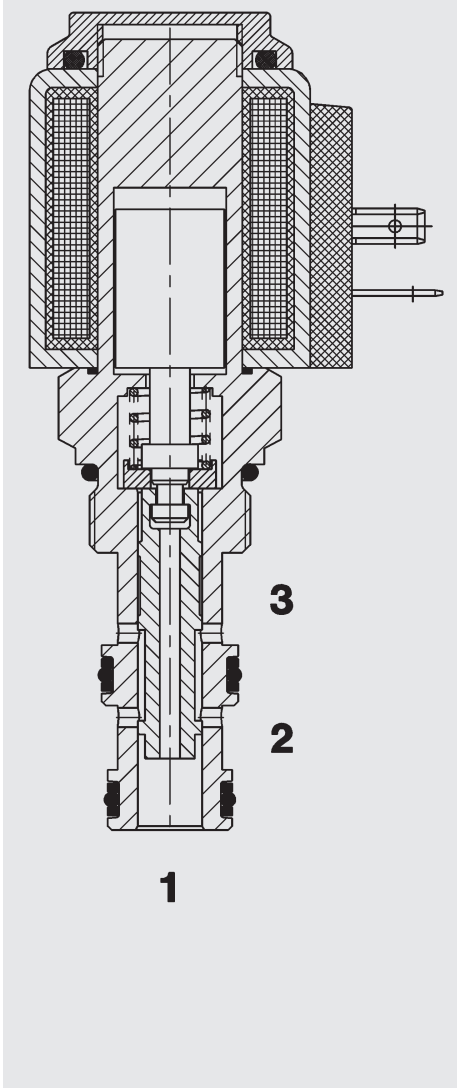


FUNCTION



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

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

3/2 Solenoid Directional Valve Spool Type, Direct-Acting, Metric Cartridge – 350 bar WKM08130D-01

FEATURES

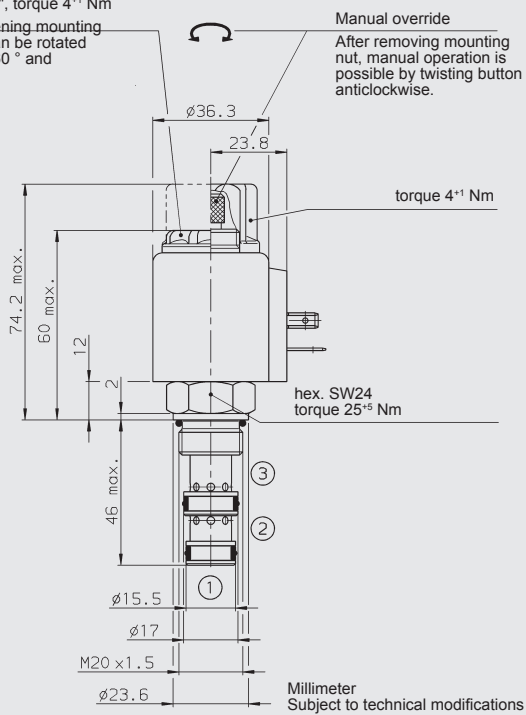
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Hardened and ground control piston to ensure minimal wear and extended service life
- Low pressure drop by CFD optimized flow path
- External surfaces zinc-plated and corrosion proof
- Excellent stability throughout the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

SPECIFICATIONS

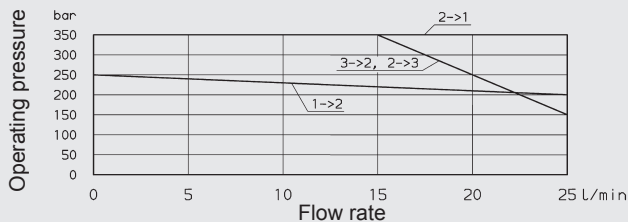
Operating pressure:	max. 350 bar										
Nominal flow:	max. 25 l/min										
Internal leakage:	max. 150 cm ³ /min at 250 bar and 34 mm ² /s										
Media operating temperature range:	min. -20 °C to max. +100 °C										
Ambient temperature range:	min. -20 °C to max. +60 °C										
Operating 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 21/03/12 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:	<table border="0"> <tr> <td>Valve body:</td> <td>free-cutting steel</td> </tr> <tr> <td>Piston:</td> <td>hardened and ground steel</td> </tr> <tr> <td>Seals:</td> <td>NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C)</td> </tr> <tr> <td>Back-up rings:</td> <td>PTFE</td> </tr> <tr> <td>Coil:</td> <td>steel / polyamide</td> </tr> </table>	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
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										
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										
Nominal voltage at 20 °C:	1.5 A at 12 V DC 0.8 A at 24 V DC										
Voltage tolerance:	± 15 % of nominal voltage										
Coil duty rating:	Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature										
Switching time:	energized: approx. 40 ms de-energized: approx. 30 ms										
Coil type:	Coil...-40-1836										

DIMENSIONS

hex. SW 1", torque 4⁺¹ Nm
After loosening mounting nut, coil can be rotated through 360° and removed.

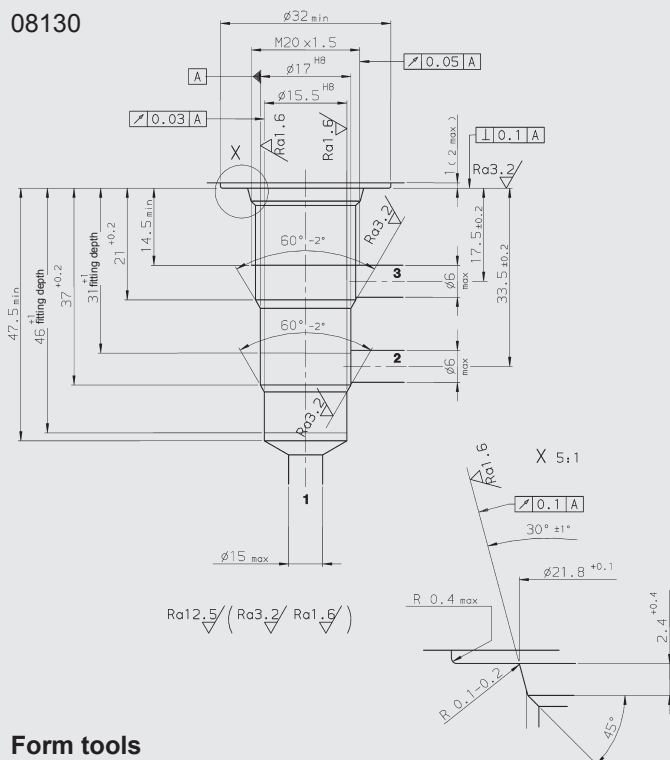


OPERATING LIMITS $v = 34 \text{ mm}^2/\text{s}$, $T_{\text{oil}} = 46 \text{ }^\circ\text{C}$



CAVITY

08130



Form tools

Tool	Part No.	Millimeter Subject to technical modifications
Countersink (shank MK3)	169265	
Reamer (shank MK2)	163639	

MODEL CODE

WKM08130D - 01 M - C - N - 24 DG

Basic model _____
Directional spool valve, metric

Type _____
01 = standard

Manual override _____
no details = without manual override
M = manual override

Body and ports* _____
C = cartridge valve only

Seals _____
N = NBR (standard)
V = 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
DT = AMP Junior Timer, 2 pole, radial
DK = Kostal threaded connection M27 x 1
DL = 2 flying leads, 475 mm long; 0.75 mm²
DN = Deutsch connector, axial

AC: AG = DIN connector to EN175301-803

Other connectors on request

Standard models

Model code	Part No.
WKM08130D-01-C-N-24DG	3112956
WKM08130D-01-C-N-230AG	3112957

*Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
R08130-01X-01	394488	Steel, zinc-plated	G3/8	420 bar
R08130-01X-02	394378	Steel, zinc-plated	M 14 x 1.5	420 bar

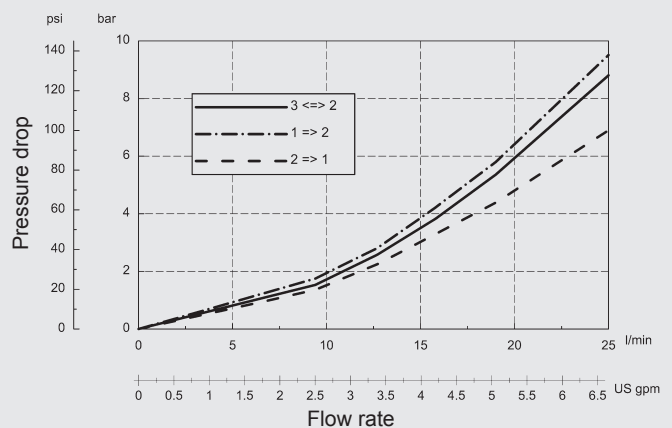
Other housings on request

Seal kits

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

PERFORMANCE

measured at $v = 34 \text{ mm}^2/\text{s}$, $T_{\text{oil}} = 46 \text{ }^\circ\text{C}$



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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