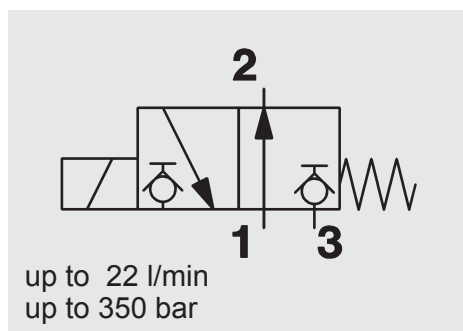
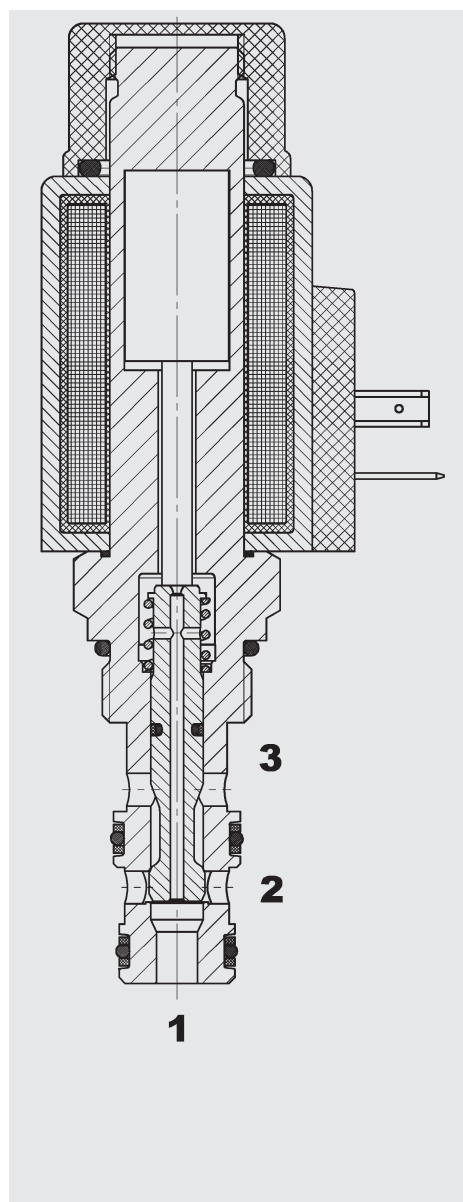




FUNCTION



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

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

3/2-Solenoid Directional Valve Poppet Type - Direct-Acting Normally Open Metric Cartridge – 350 bar WSM08130D-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 connections 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 (max. 5 drops $\approx$ 0,25 cm ³ /min at 350 bar)
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. 7.4 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:	08130 metric
Weight:	Valve complete: 0.49 kg Coil only: 0.19 kg
Electrical data:	
Switching time:	energized: approx. 30 ms non-energized: approx. 50 ms
Type of voltage:	DC solenoid, AC voltage is rectified using a bridge rectifier built into the coil
Nominal voltage at 20 °C:	2.22 A at 12 V DC 1.13 A at 24 V DC
Voltage tolerance:	$\pm$ 15% of nominal voltage
Coil duty rating:	Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature
Coil type:	Coil...-50-1836

Technical drawing of the M20x1.5 coil assembly, showing dimensions and assembly steps:

- Assembly Step 1:** After loosening mounting nut, coil can be rotated through 360° and removed.
- Assembly Step 2:** Manual override, with HNBR-rubber cap.
- Assembly Step 3:** hex. SW24 torque 25⁺⁵ Nm

Dimensions:

- Overall height: 83 max.
- Top section diameter: $\varnothing 36.3$
- Top section width: 23.8
- Side section height: 84.5 max.
- Bottom section height: 46
- Bottom section diameter: $\varnothing 24$
- Bottom section thread: M20x1.5

Form tools

Tool	Part No.
Countersink (shank MK3)	169265
Reamer (shank MK2)	163639

Millimeter
Subject to technical modifications

WSM08130D - 01 M - C - N - 24 DG

Basic model _____
Directional poppet valve, metric

Type _____
01 = standard

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

Body and ports* _____
C = cartridge only

Seals _____
N = NBR (standard)
V = FKM (optional)

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 50-1836) _____
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, 0.75 mm²
DN = Deutsch connector, axial, 2-pole

AC: AG = DIN connector to EN175301-803
Other connectors on request

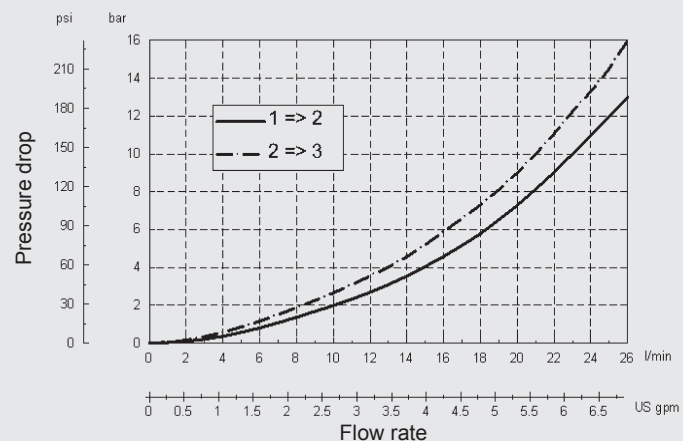
Model code	Part No.
WSM08130D-01-C-N-12DG	3229147
WSM08130D-01-C-N-24DG	3229152
WSM08130D-01-C-N-230AG	3229151
Other models on request	

Code	Part No.	Material	Ports	Pressure
R08130-01X-01	394488	Steel, zinc-plated	G3/8	420 bar
R08130-01X-02	394378	Steel, zinc-plated	M14 x 1.5	420 bar

Other housings on request

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

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



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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