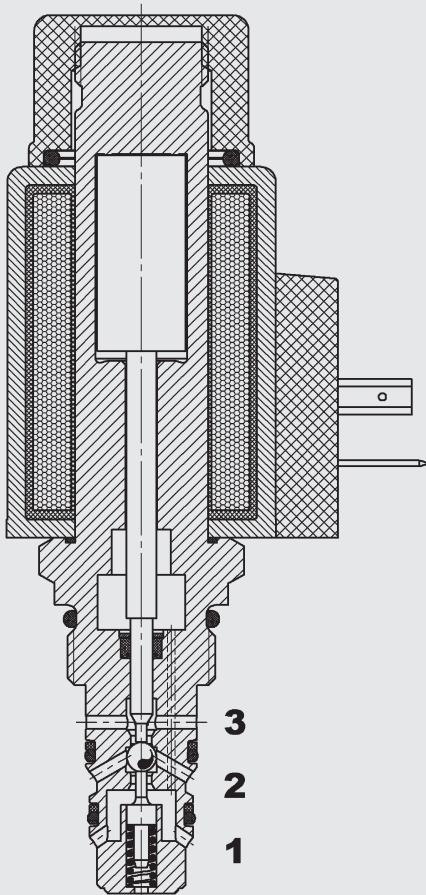


Up to 12 l/min  
Up to 500 bar

## FUNCTION



The directional solenoid valve WSM03230D is a direct-acting, spring-loaded poppet valve.

When de-energized, there is flow through the WSM03230D from port 1 to port 2, and port 3 is closed. When the solenoid is energized, the valve allows flow from port 2 to 3, while blocking flow at port 1.

## 3/2 Solenoid Directional Valve Poppet Type, Direct-Acting Metric Cartridge – 500 bar

### WSM03230D-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 connectors available
- Excellent switching performance by high power HYDAC solenoid

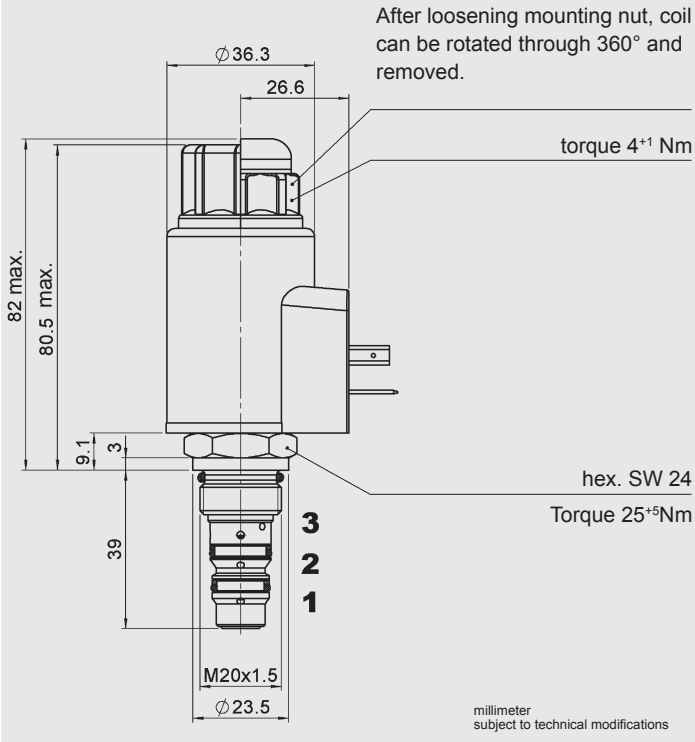
## SPECIFICATIONS

Operating pressure:	max. 500 bar
Nominal flow:	max. 12 l/min
Internal leakage:	Leakage-free (max. 5 drops/min)
Temperature range of operating fluid:	min. -20 °C to max. +120 °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 <sup>2</sup> /s up to max. 380 mm <sup>2</sup> /s
Filtration:	Class 21/19/16 to ISO 4406 or cleaner
MTTF <sub>d</sub> :	150 years
Installation:	No orientation restrictions
Materials:	Valve body: free-cutting steel Poppet: hardened and ground steel
	Seals: FKM (standard) NBR (optional, temperature range -20 °C to max. +100 °C)
	Back-up rings: PTFE
	Coil: polyamide / steel
Cavity:	03230
Weight:	Complete valve 0.45 kg Coil only 0.23 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:	2.22 A / 5.4 Ohm at 12 V DC 1.13 A / 21.2 Ohm at 24 V DC
Voltage tolerance:	± 15% of nominal
Coil duty rating:	Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature
Response time:	On: approx. 35 ms Off: approx. 30 ms
Coil type:	Coil...-50-1836

## DIMENSIONS



## MODEL CODE

**WSM03230D - 01 M - C - V - 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** \_\_\_\_\_  
V = FKM (standard)  
N = NBR (optional)

**Coil voltage** \_\_\_\_\_  
**DC voltages**  
12 = 12 V DC  
24 = 24 V DC

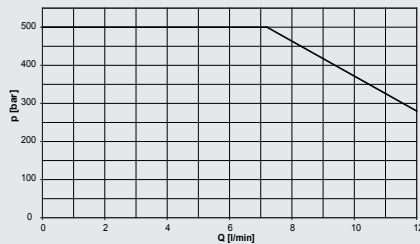
**AC voltages** (bridge rectifier built into the coil)  
115 = 115 V AC  
230 = 230 V AC

Other voltages on request

**Coil connectors (type 50-1836)** \_\_\_\_\_  
DC: DG = DIN connector to EN 175301-803  
DT = AMP Junior Timer, 2-pole, radial  
DK = KOSTAL threaded connection M27x1  
DL = 2 flying leads, 457 mm long, 0.75 mm<sup>2</sup>  
DN = Deutsch connector, 2-pole, axial

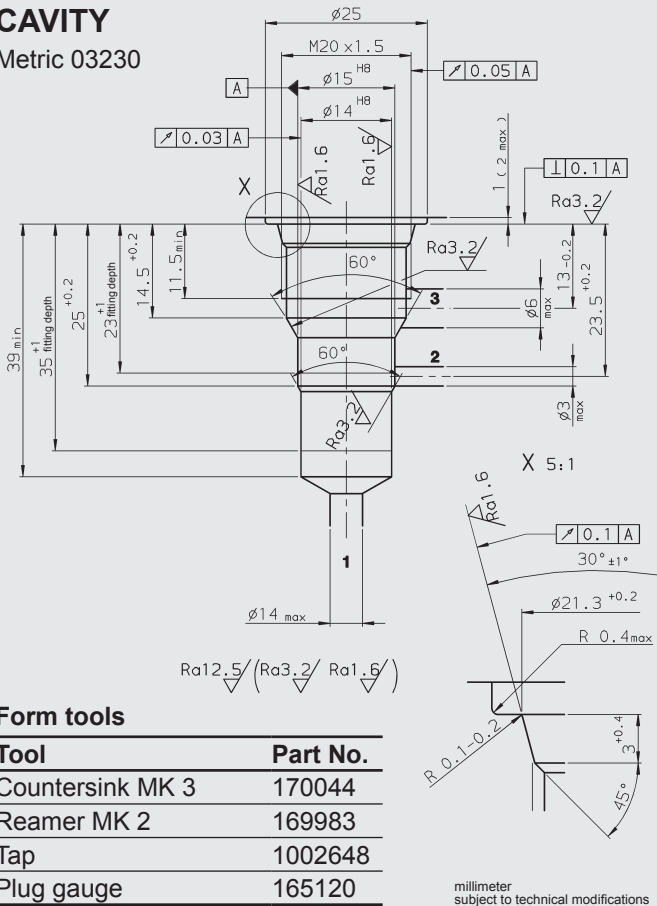
AC: AG = DIN connector to EN 175301-803  
Other connectors on request

## OPERATING LIMITS



## CAVITY

Metric 03230



## Standard models

Model code	Part No.
WSM03230D-01-C-V-12DG	3711500
WSM03230D-01-C-V-24DG	3711450
WSM03230D-01-C-V-230AG	3711451

Other models on request

## \*Standard line bodies

Code	Part No.	Material	Ports	Pressure
R03230-01X-01	277440	Steel, zinc-plated	G ¼	420 bar

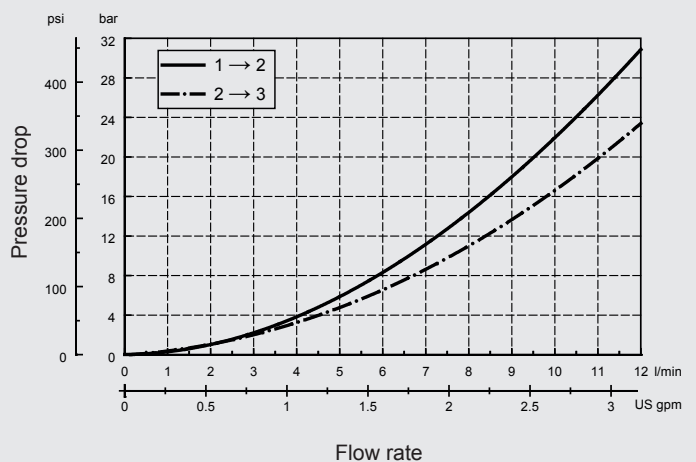
Other bodies on request

## Seal kits

Code	Material	Part No.
SEAL KIT WSM03230 C/D	FPM	3760527

## PERFORMANCE

Measured at  $v = 33 \text{ mm}^2/\text{s}$ ,  $T_{\text{oil}} = 46 \text{ °C}$



## 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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