

YDAC INTERNATIONAL

3/2 Solenoid Directional Valve

Poppet Type, Direct-Acting Metric Cartridge – 500 bar

Up to 12 I/min Up to 500 bar

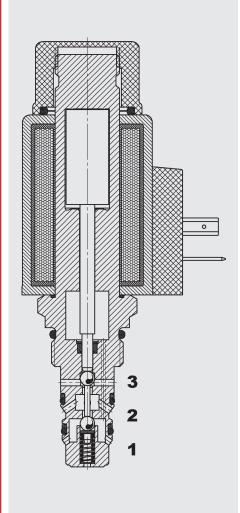
FEATURES

- 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

WSM03230C-01

• Excellent switching performance by high power HYDAC solenoid

FUNCTION

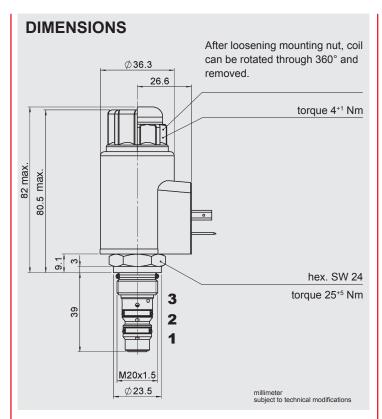


The directional solenoid valve WSM03230C is a direct-acting, springloaded poppet valve.

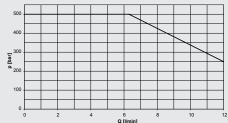
When de-energized, there is flow through the WSM03230C from port 2 to port 3, and port 1 is closed. When the solenoid is energized, the valve allows flow from port 1 to 2, while blocking flow at port 3.

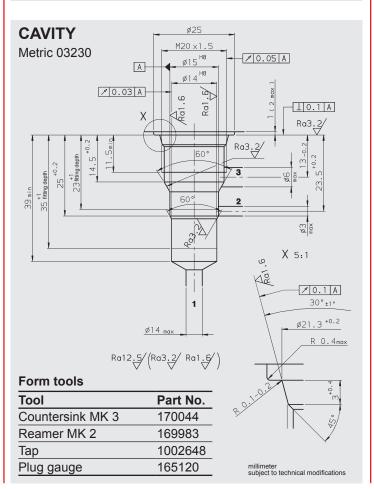
SPECIFICATIONS

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 mm²/s up to max. 380 mm²/s		
Filtration:	Class 21/19/16 to ISO 4406		
	or cleaner		
MTTF _d :	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	
		ГⅡ∟	
		steel / polyamide	
Covity	Coil:	steel / polyamide	
Cavity:	Coil: 03230		
Cavity: Weight:	Coil: 03230 Complete valve	0.45 kg	
Weight:	Coil: 03230		
Weight: Electrical data:	Coil: 03230 Complete valve Coil only	0.45 kg 0.23 kg	
Weight:	Coil: 03230 Complete valve Coil only DC solenoid, A	0.45 kg 0.23 kg	
Weight: Electrical data: Type of voltage:	Coil: 03230 Complete valve Coil only DC solenoid, Adusing a bridge re	e 0.45 kg 0.23 kg C voltage is rectified rectifier built into the coil	
Weight: Electrical data:	Coil: 03230 Complete valve Coil only DC solenoid, Ad using a bridge r 2.22 A / 5.4 Ohr	c 0.45 kg 0.23 kg C voltage is rectified rectifier built into the coil m at 12 V DC	
Weight: Electrical data: Type of voltage: Current draw at 20 °C:	Coil: 03230 Complete valve Coil only DC solenoid, Ad using a bridge r 2.22 A / 5.4 Ohr 1.13 A / 21.2 Ol	c 0.45 kg 0.23 kg C voltage is rectified rectifier built into the coil m at 12 V DC rem at 24 V DC	
Weight: Electrical data: Type of voltage: Current draw at 20 °C: Voltage tolerance:	Coil: 03230 Complete valve Coil only DC solenoid, Ad using a bridge r 2.22 A / 5.4 Ohr 1.13 A / 21.2 Ol ± 15% of nomin	c 0.45 kg 0.23 kg C voltage is rectified rectifier built into the coil m at 12 V DC nm at 24 V DC	
Weight: Electrical data: Type of voltage: Current draw at 20 °C:	Coil: 03230 Complete valve Coil only DC solenoid, Ad using a bridge r 2.22 A / 5.4 Ohr 1.13 A / 21.2 Ol ± 15% of nomin Continuous up	c 0.45 kg 0.23 kg C voltage is rectified rectifier built into the coil m at 12 V DC mm at 24 V DC at all to max. 115% of the	
Weight: Electrical data: Type of voltage: Current draw at 20 °C: Voltage tolerance:	Coil: 03230 Complete valve Coil only DC solenoid, Ad using a bridge r 2.22 A / 5.4 Ohr 1.13 A / 21.2 Ol ± 15% of nomin Continuous up nominal voltage	c 0.45 kg 0.23 kg C voltage is rectified rectifier built into the coil m at 12 V DC nm at 24 V DC	
Weight: Electrical data: Type of voltage: Current draw at 20 °C: Voltage tolerance: Coil duty rating:	Coil: 03230 Complete valve Coil only DC solenoid, Al using a bridge r 2.22 A / 5.4 Ohr 1.13 A / 21.2 Ol ± 15% of nomin Continuous up nominal voltage temperature	C voltage is rectified rectifier built into the coil m at 12 V DC mm at 24 V DC real to max. 115% of the e at 60 °C ambient	
Weight: Electrical data: Type of voltage: Current draw at 20 °C: Voltage tolerance:	Coil: 03230 Complete valve Coil only DC solenoid, Al using a bridge r 2.22 A / 5.4 Ohr 1.13 A / 21.2 Ol ± 15% of nomin Continuous up nominal voltage temperature On:	c 0.45 kg 0.23 kg C voltage is rectified rectifier built into the coil m at 12 V DC ran at 24 V DC ran at 25 max. 115% of the eat 60 °C ambient approx. 35 ms	
Weight: Electrical data: Type of voltage: Current draw at 20 °C: Voltage tolerance: Coil duty rating:	Coil: 03230 Complete valve Coil only DC solenoid, Al using a bridge r 2.22 A / 5.4 Ohr 1.13 A / 21.2 Ol ± 15% of nomin Continuous up nominal voltage temperature	c 0.45 kg 0.23 kg C voltage is rectified rectifier built into the coil m at 12 V DC mm at 24 V DC all to max. 115% of the e at 60 °C ambient approx. 35 ms approx. 25 ms	

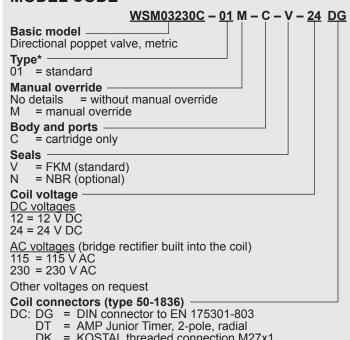


OPERATING LIMITS





MODEL CODE



DK = KOSTAL threaded connection M27x1 DL = 2 flying leads, 457 mm long, 0.75 mm² DN = Deutsch connector, 2-pole, axial

AC: AG = DIN connector to EN 175301-803

Other connectors on request

Standard models

Model code	Part No.
WSM03230C-01-C-V-12DG	3711402
WSM03230C-01-C-V-24DG	3711368
WSM03230C-01-C-V-230AG	3711372
Other models on request	

*Standard line bodies

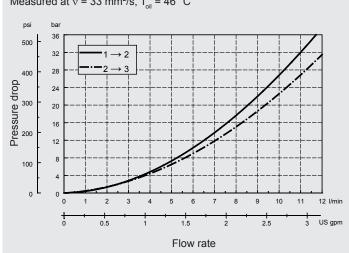
Code	Part No.	Material	Ports	Pressure
R03230-01X-01	277440	Steel, zinc-plated	G 1/4	420 bar
Other bodies on request				

Seal kits

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

PERFORMANCE

Measured at v = 33 mm²/s, $T_{oil} = 46$ °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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