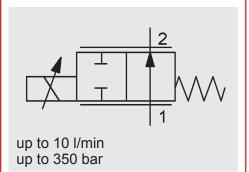
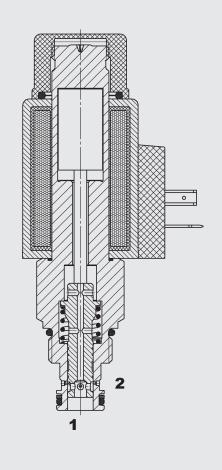
YDAC INTERNATIONAL



Proportional Flow Control Valve **Spool Type, Direct-Acting, Normally Open** Metric Cartridge – 350 bar PWK06020V

FUNCTION



FEATURES

- Stepless adjustment of the effective oil flow, depending on the coil current.
- Excellent stability throughout the entire flow range
- Excellent dynamic performance
- 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
- Low pressure drop due to CFD optimized flow path

SPECIFICATIONS

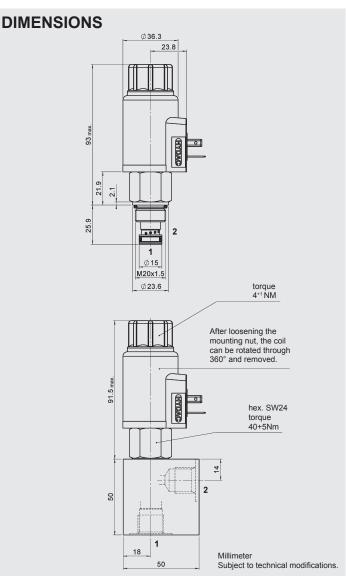
Operating pressure:

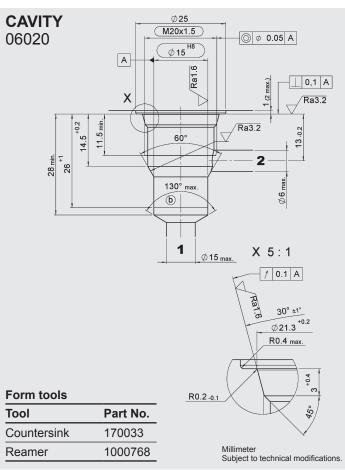
Operating pressure:	max. 350 bar	
Nominal flow:	max. 10 l/min	
Internal leakage:	max. 0.9 l/min (at 350 bar / 32 mm²/s)	
Media operating temperature range:	min20 °C to max. +100 °C	
Ambient temperature range:	min20 °C to max. +60 °C	
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2	
Viscosity range:	min. 7.4 mm²/s to max. 420 mm²/s	
Filtration:	Class 19/17/14 according to ISO 4406 or cleaner	
Installation:	No orientation restrictions	
MTTF _d	150 years (see "Conditions and instructions for valves" in brochure 5.300)	
Materials:	Valve body: high tensile steel Spool: hardened and ground steel Seals: NBR (standard) FKM (optional) Back-up rings: PTFE	
Cavity:	Metric 06020	
Weight:	0.46 kg	
Electronic data:		
Control currents:	1750 mA; 4.1 Ohm (12V) / 850 mA; 17.6 Ohm (24V)	
Dither frequency:	80 - 100 Hz	
Hysteresis with dither:	4 - 6 % of I nom	
Repeatability:	< 1 % of I nom	
Reversal error:	< 1 % of I nom	
Response sensitivity:	< 1 % of I nom	
Coil type:	Coil P450-1836	
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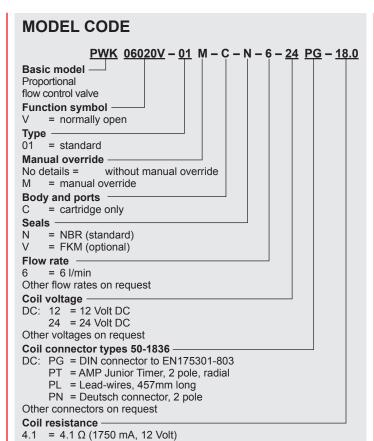
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The PWK06020V is a normally closed, direct-acting, spring-loaded, spool type proportional flow control valve.

It is non-compensated and its function is to control the flow from port 1 to port 2 smoothly. The energization of the coil reduces or increases an orifice cross-section and thus controls the flow. Together with a pressure compensator the proportional flow control valve can be used as a 2-way flow regulator - for example when required to lift/lower variable loads at the same l velocity.







Standard models

Model code	Part No.	
PWK06020V-01-C-N-6-12PG-4.1	3526096	
PWK06020V-01-C-N-6-24PG-18.1	3526100	

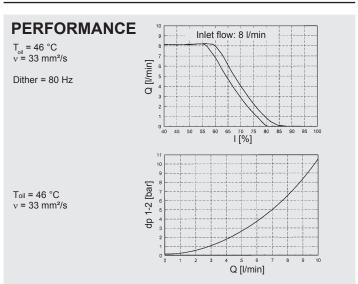
Standard in-line bodies

 $18.0 = 18.0 \Omega (850 \text{ mA}, 24 \text{Volt})$

Code	Part No.	Material	Ports	Pressure	
R06020-01X-01	275266	Steel, zinc-plated	G3/8	420 bar	
Other line bodies on request					

Seal kits

Code	Part No.	
SEAL KIT 06020-NBR	3119017	
SEAL KIT 06020-FKM	3262477	



NOTE

The information in this brochure relates to the operating conditions and applications described. For applications and operating conditions not described, please contact the relevant technical department. Subject to technical modifications.

HYDAC Fluidtechnik GmbH Justus-von-Liebig-Str. D-66280 Sulzbach/Saar Tel: 0 68 97 /509-01 Fax: 0 68 97 /509-598 E-Mail: flutec@hydac.com