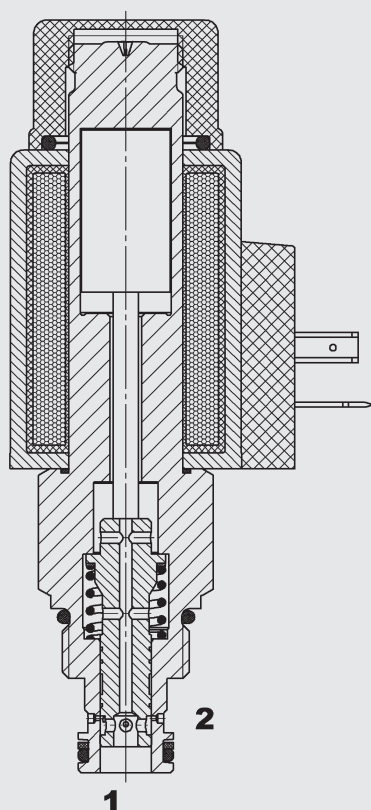


up to 10 l/min
up to 350 bar

FUNCTION



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 velocity.

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

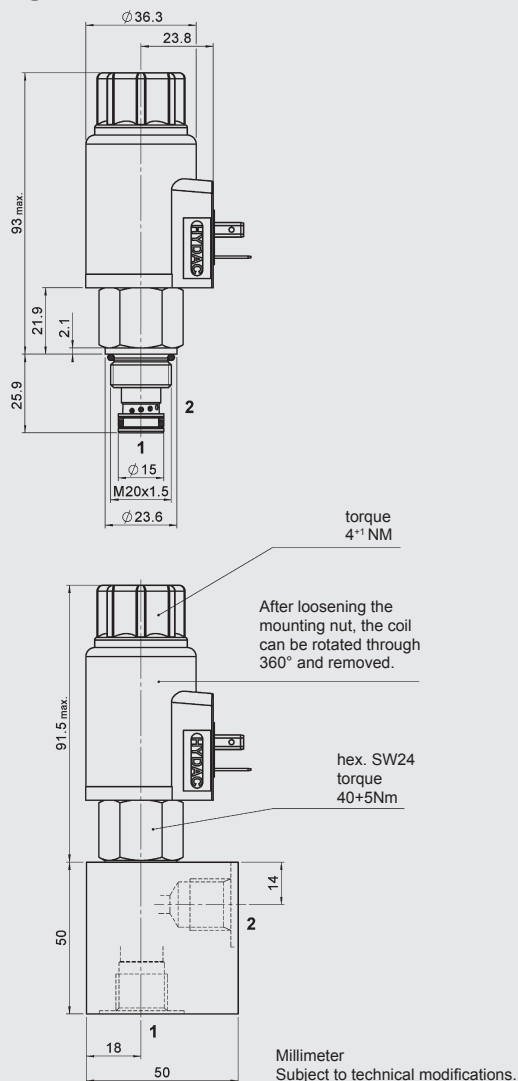
FEATURES

- 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:	max. 350 bar
Nominal flow:	max. 10 l/min
Internal leakage:	max. 0.9 l/min (at 350 bar / 32 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. 7.4 mm ² /s to max. 420 mm ² /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: Spool: Seals: Back-up rings: high tensile steel hardened and ground steel NBR (standard) FKM (optional) 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 ... P...-4...-50-1836

DIMENSIONS



MODEL CODE

PWK 06020V - 01 M - C - N - 6 - 24 PG - 18.0

Basic model

Proportional flow control valve

Function symbol

V = normally open

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)

Flow rate

6 = 6 l/min

Other flow rates on request

Coil voltage

DC: 12 = 12 Volt DC

24 = 24 Volt DC

Other voltages on request

Coil connector types 50-1836

DC: PG = DIN connector to EN175301-803

PT = AMP Junior Timer, 2 pole, radial

PL = Lead-wires, 457mm long

PN = Deutsch connector, 2 pole

Other connectors on request

Coil resistance

4.1 = 4.1 Ω (1750 mA, 12 Volt)

18.0 = 18.0 Ω (850 mA, 24 Volt)

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

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

Other line bodies on request

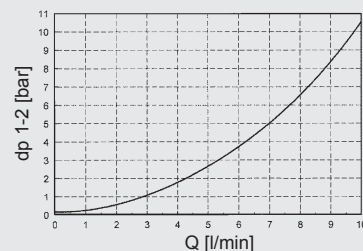
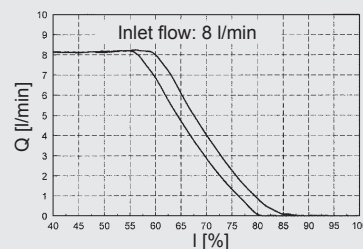
Seal kits

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

PERFORMANCE

T_{oil} = 46 °C
v = 33 mm²/s

Dither = 80 Hz



T_{oil} = 46 °C
v = 33 mm²/s

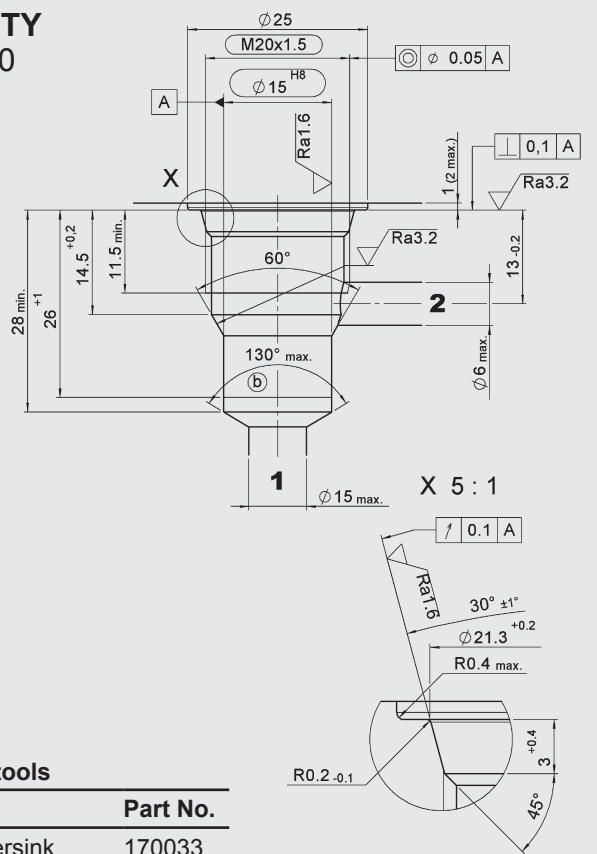
NOTE

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

CAVITY 06020



Form tools

Tool	Part No.
Countersink	170033
Reamer	1000768