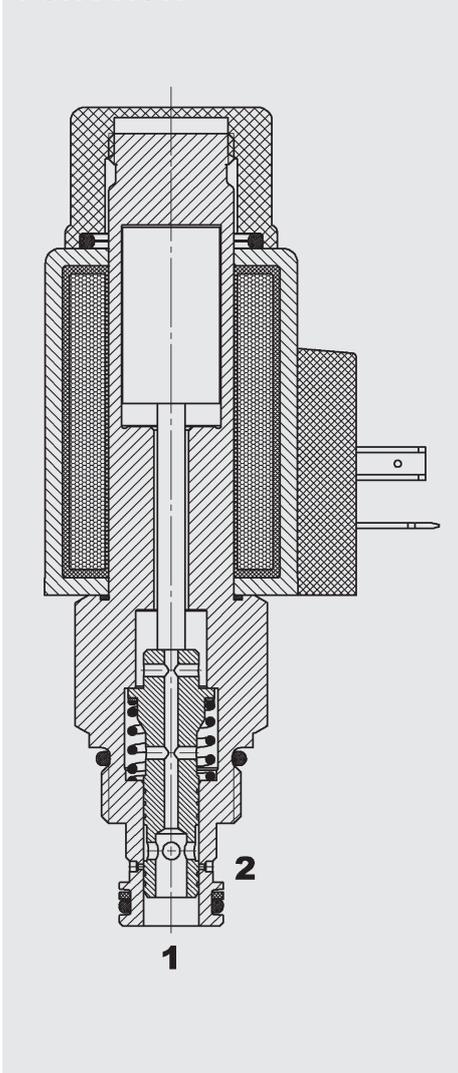


FUNCTION



The PWK06020W is a normally closed, direct-acting, spring-loaded 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 Closed Metric Cartridge – 350 bar PWK06020W

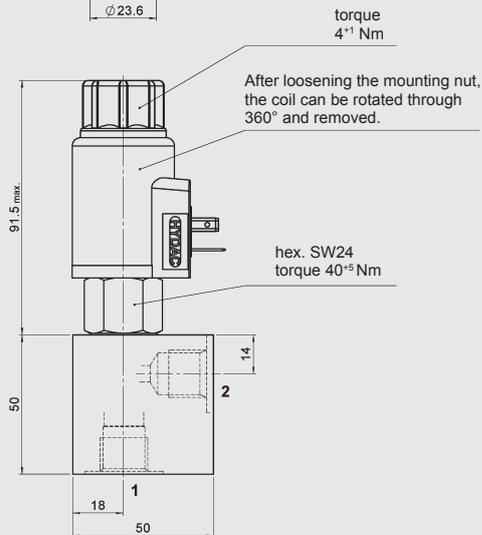
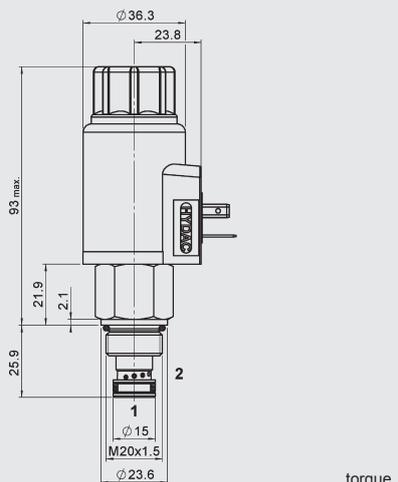
FEATURES

- 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

SPECIFICATIONS

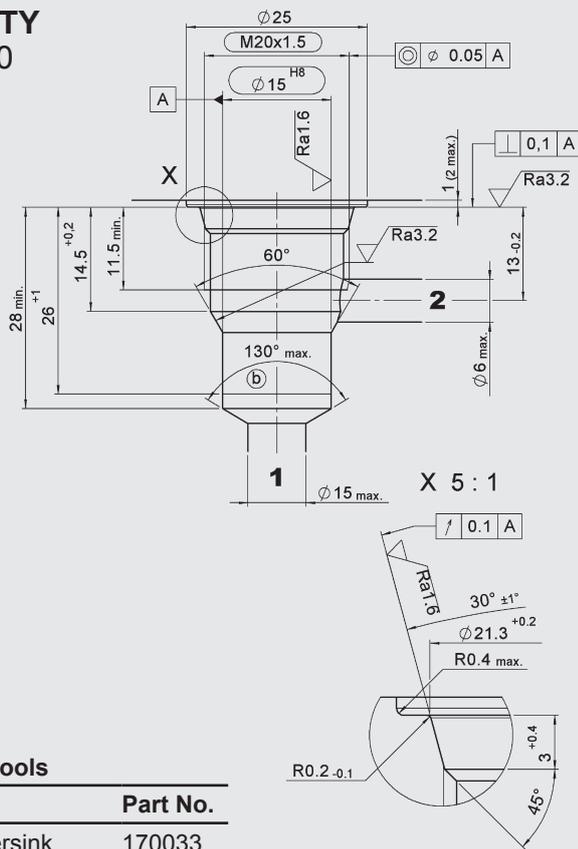
Operating pressure:	max. 350 bar
Nominal flow:	max. 10 l/min
Internal leakage:	Max. 0.9 l/min (at 350 bar / 32 mm ² /s)
Media operating temperature range:	min. -20 °C to max. +100 °C
Ambient temperature range:	min. -20 °C to max. +60 °C
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2
Viscosity range:	min. 7.4 mm ² /s to max. 420 mm ² /s
Filtration:	Class 19/17/14 according to ISO 4406 or cleaner
MTTF _d :	150 years (see "Conditions and instructions for valves" in brochure 5.300)
Installation:	No orientation restrictions
Materials:	Valve body: high tensile steel Spool: hardened and ground steel Seals: NBR (standard) FPM (optional, media temperature range -20 °C to +210 °C) Back-up rings: PTFE
Cavity:	Metric 06020
Weight:	0.46 kg
Electronic data:	
Control currents:	1750 mA; 4.1 Ohm (12V) / 850 mA; 18 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...-50-1836

DIMENSIONS



millimeter
subject to technical modifications

CAVITY 06020



millimeter
subject to technical modifications

Form tools

Tool	Part No.
Countersink	170033
Reamer	1000768

MODEL CODE

PWK06020W - 01 M - C - N - 6 - 24 PG - 18.0

Basic model

Proportional flow control valve
Normally closed

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 P...

DC: PG = DIN connector to EN175301-803
PT = AMP Junior Timer, 2 pole, radial
PL = 2 flying leads, 457 mm long; 0.75 mm²
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.
PWK06020W-01-C-N-6 -12 PG-4.1	3579226
PWK06020W-01-C-N-6 -24 PG-18.0	3579225

*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

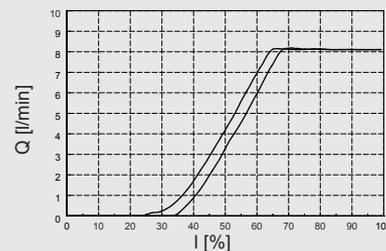
Seal kits

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

PERFORMANCE

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

Dither = 80 Hz



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



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.

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