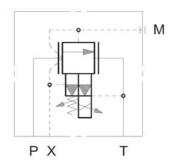


AC INTERNATIONAL



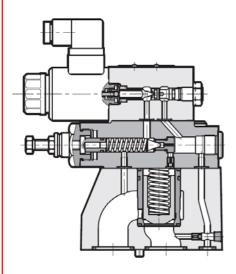
Proportional Pressure Relief Valve pilot operated Subplate to ISO6264 VP-PDBP10

SYMBOL



up to 350 bar up to 200 l/min

FUNCTION



FEATURES

- Hole pattern to ISO 6264-06, Nominal size 10
- Pilot operated pressure relief valve with Proportional coil
- Electronic control by PEM-XD see brochure 5.249.2.0

SPECIFICATIONS

Operating pressure: max. 350 bar Flow rate: max. 200 l/min Hysteresis < 5 %

Repeatability: < +/- 1,5 %

Operating fluid: hydraulic oil to DIN 51524 part 1 and 2
Operating fluid temp. range: -20°C up to max. +80°C

Ambient temperature range: -10°C up to max. +50°C
Viscosity range: 10 – 400 mm²/s is recommended
Filtration: Class 20/18/15 according to

ISO 4406 class 18/16/13 Switching time: On: 120 ms Off: 90 ms

Type of voltage: DC voltage

Nominal current: 0,86 A at 24V DC (12 V on request)
Resistance at 20°C: 17,6 Ohm at 24V DC (12V on request)

Coil duty rating: 100% (Continuous)

Electro magnetic suitability: (EMC) Emissions to EN 50081-1

suitability to EN 50082-2 to Norm 89/336 CEE

IP rating: IP65 (if plug is mounted correctly)
Installation: see installation hints below
Note: Bleed system and valve before

setting in motion

Hole pattern: according to ISO 6264-06

Weight: 5,0 kg

Installation:

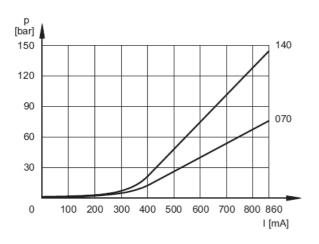
We recommend to install the valve horizontally or vertically with coil at the lower end. If installed vertically upwards please consider changes of minimal regulated pressure! Pay attention that no air is in the system. In some applications the coil-support has to be bleed by the screw at the support. Line T has to be connected directly to tank. Every counter-pressure on line T has to be added to the regulated pressure. Maximal permitted counter-pressure at T: 2 bar.

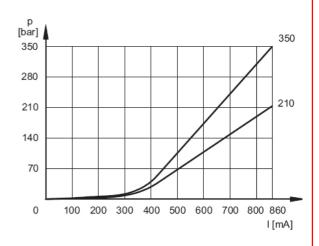
The fixation of the valve will be done by screws or tension rods on a plane surface which surface finish is equal or higher than the valves finish. If the surface finish is not as specified above, leakages may occur.

PERFORMANCE

measured at v= 36 mm²/s and T_{oil} = 50° C

Pressure reducing diagram p=f (I)

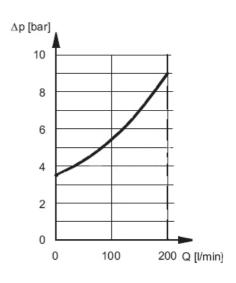




Minimal regulated pressure pmin=f (Q)

p [bar] Q [l/min]

Pressure changes pmax = f (Q)



Standard models VP-PDBP10 070 D01-24PG/V

VP-PDBP10 070 D01-24PG/V VP-PDBP10 140 D01-24PG/V VP-PDBP10 210 D01-24PG/V VP-PDBP10 350 D01-24PG/V Other models on request

DIMENSIONS

MODEL CODE

<u>VP-PDBP10</u> 070 D01 – 24PG /V

Name and size
Proportional pressure relief valve NW 10

Pressure ranges

070 = up to 70 bar140 = up to 140 bar

210 = up to 210 bar

350 = up to 350 bar

Type

D01 = Standard

Nominal voltage -

24 = DC voltage 24 Volt Other voltages on request

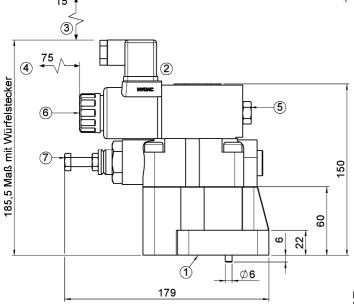
Plug type

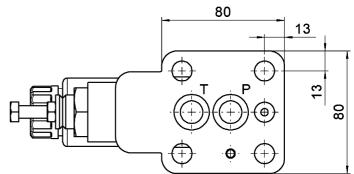
PG = DIN plug to EN155301-803

Seal material

V = FkM (Standard)

N = NBR





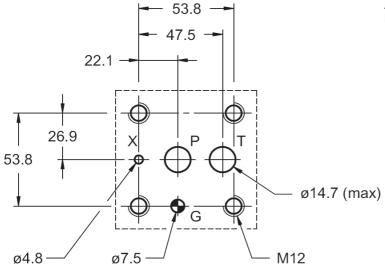
- 1) Mounting plate with O-rings: 2x O-Ring 17,86 x 2,62 FkM 1x O-Ring 9,19 x 2,62 FkM
- 2) DIN plug to EN175301-803 (in scope of delivery)
- 3) Free space for mounting the plugs
- 4) Free space for mounting the coil
- 5) Adjustment sealed
- 6) Bleeding screw
- 7) Pressure relief valve

Mounting plate to ISO 6264-06-09-01-97

Fastening screws: 4x Allen key M12x40 10.9 Torque: 70 Nm + 5 Nm

All dimensions in mm.

Fastening elements are not in scope of delivery.



Annotation

The technical information in this brochure are relating to the operating conditions and applications. At deviant applications and/or operating conditions please contact the technical dept.

Technical information are subject to technical modifications.

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