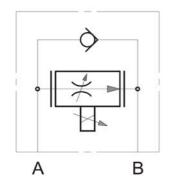
# **GYDAD** INTERNATIONAL

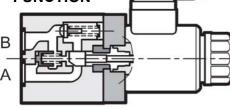


Proportional Flow Regulator pressure compensated, direct acting, with reverse flow check Subplate to ISO6263 VP- P2SRE 6

### SYMBOL



up to 25 l/min up to 250 bar FUNCTION



The VP-P2SRE 6 is a direct acting 2way flow control valve.

Flows from port A to B are controlled independently of the pressure. In the opposite direction there is free flow trough the check valve. The controlled flow rate is proportional to the electrical input signal at the coil. Analogue to his size the coil creates a force which pushes the piston against the spring. Hereby opening diameters are opened which determine the size of the flow independent from the pressure differential

A built-in pressure compensator enables the regulation independent from pressure changes from port A to B.

For the electronical control there are electronic controls available (see separate brochures).

# FEATURES

- High flow by optimized casted housing
- Small hysteresis by superfinish of moving parts
- Long life by magnet switching under oil
- Minimal wear by hardened and ground valve piston
- Simple exchangeability by international standardized hole pattern to ISO 6263
- Electronic control by PEM-XD see brochure 5.249.2.0

# **SPECIFICATIONS**

Operating pressure: Flow rate:

Hysteresis: Repeatability: Switching time: Switching time: Operating fluid temp. range: Ambient temperature range: Operating fluid: Viscosity range: Filtration:

Type of voltage: Nominal current: Resistance at 20°C: Coil duty rating: Electro magnetic suitability:

IP rating: Installation: Note:

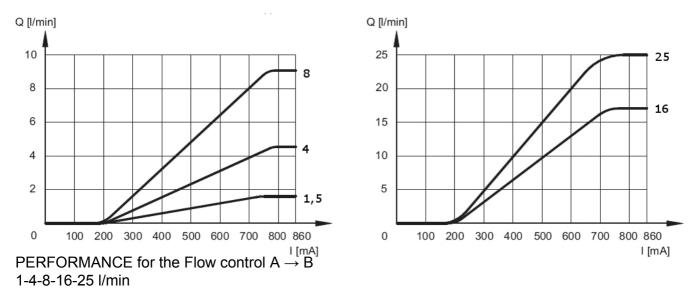
Hole pattern: Weight: Ports A,B max. 250 bar max. 1,5 / 4 / 8 / 16 / 25 l/min max. 40 l/min in the opposite direction (in % of Qmax): < 6 % (in % of Qmax) < +/- 2,5 % (0-100%) 60 ms (25-75%) 50 ms (100-0%) 80 ms (75-25%) 70 ms -20°C up to +80°C -20°C up to +50°C hydraulic oil to DIN 51524 part 1 a.2 10 - 400mm<sup>2</sup>/s is recommended class 18/16/13 (17/15/12) to ISO4406 Flows <0,5l/min) DC voltage 0,86 A at 24V DC 17,6 Ohm at 24V DC 100% (Continuous)

(EMC)Emissions to EN 50081-1 suitability to EN 50082-2 to Norm 2004/108/CE IP65 (if plug is mounted correctly) no orientation restrictions Bleed system and valve before setting in motion According to ISO6263-03-03-0-97 1,5 kg

# PERFORMANCE

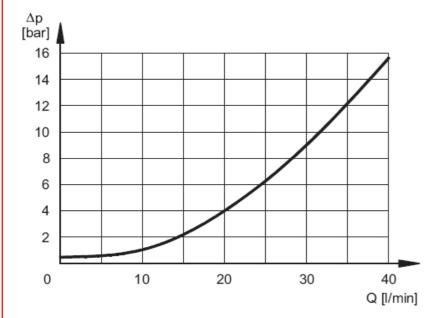
measured at v= 36 mm²/s and T\_{oil} = 50° C

# Flow control Q = f (I)



# Pressure differential $\Delta p / Q$

Pressure differential with free flow  $B \rightarrow A$  through the check valve.



#### Standard models Part No. VP-P2SRE 6 L01R D01-24PG/V 3541010 VP-P2SRE 6 L04R D01-24PG/V 3541013 VP-P2SRE 6 L08R D01-24PG/V 3541014 VP-P2SRE 6 L16R D01-24PG/V 3541026 VP-P2SRE 6 L25R D01-24PG/V 3541029 Other models on request

(4)

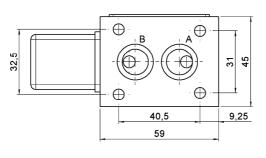
# **MODEL CODE**

<u>VP-P2SRE6</u> L <u>16</u> R D01 - 24PG /V
Name an size Proportional Flow control valve size 6
Curve
L = linear
Flow rate
01 =1,5 l/min
$04 = 4 \ \text{l/min}$
$08 = 8 \text{ l/min}$ (at $\Delta p = 10 \text{ bar A-B}$ )
16 = 16  l/min
25 = 25 l/min
Check valve
Туре
D01 = Standard type with manual override
Nominal voltage
24= 24 V DC
Coil connector
PG= DIN plug to EN175301-803

Seal material V= FPM (Standard)

N= NBR (optional)

1 <sub>75</sub> 142 2 (HYDAC) 60 62 ð 94



- 2x O-Ring 14 x 2 FkM
- 2) DIN plug to EN175301-803 (Z4 plug Mat. 394287)
- 3) Manual override
- 4) Free space for mounting the coil
- 5) Free space for mounting the DIN plugs

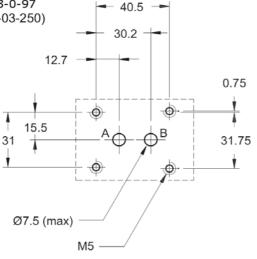
Fastening screws: 4x Allen key M5 x 70 10.9 Torque: 5 Nm + 0,5 Nm

All dimensions in mm. Fastening elements are not in the scope of delivery.

# Hole pattern

DIMENSIONS

ISO 6263-03-03-0-97 (CETOP 4.5.2-2-03-250)



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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1) Mounting plate with O-rings:

