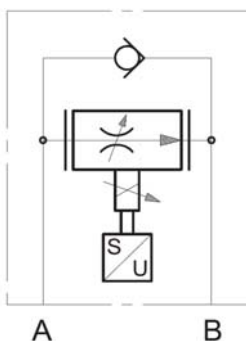




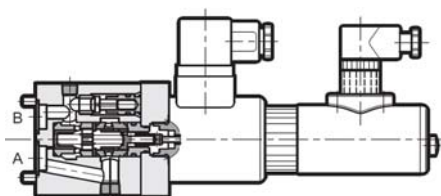
Proportional Flow Regulator pressure compensated, direct acting, with transducer Subplate to ISO6263 VP- P2SRR 6

SYMBOL



up to 16 l/min
up to 250 bar

FUNCTION



The P2SRR6 is a direct acting 2-way flow control valve.

Flows from port A to B are controlled independently of the pressure. In the opposite direction there is free flow through the check valve. The controlled flow rate is proportional to the electrical input signal at the coil.

Analogous to its 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 electronic 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 ISO 6263
- Electronic control by PEK-SRA see brochure 5.249.4.0

SPECIFICATIONS

Operating pressure:

Flow rate:

Hysteresis:

Repeatability:

Switching time:

Switching time:

Temp. range of the operating fluid:

Ambient temperature range:

Operating fluid:

Viscosity range:

Filtration:

Type of voltage:

Nominal current:

Resistance at 20°C:

Coil duty rating:

Electro magnetic suitability: (EMC)

IP rating:

Installation:

Note:

Hole pattern:

Weight:

Ports A, B max. 250 bar

max. 1,5 / 4 / 8 / 16 l/min

max. 40 l/min in the opposite direction

(in % of Q_{max}): < 2,5 %

(in % of Q_{max}) < +/- 1,0 %

ON (0-100 %) 180 ms (25-100 %) 150 ms

OFF (100-0 %) 150 ms (100-25 %) 120 ms

-20°C up to +80°C

-10°C up to +50°C

hydraulic oil to DIN 51524 part 1 a. 2

7,4 -10 – 400 mm²/s is recommended

Class 18/16/13 (17/15/12) to ISO4406

for flow rates <0,5l/min)

DC voltage

0,86 A at 24V DC

17,6 Ohm at 24V DC

100% (Continuous)

Emissions to EN 50081-1

suitability to EN 50082-2

to Norm 89/336 CEE

IP65 (if plug is mounted correctly)

no orientation restrictions

Bleed system and valve before

setting in motion

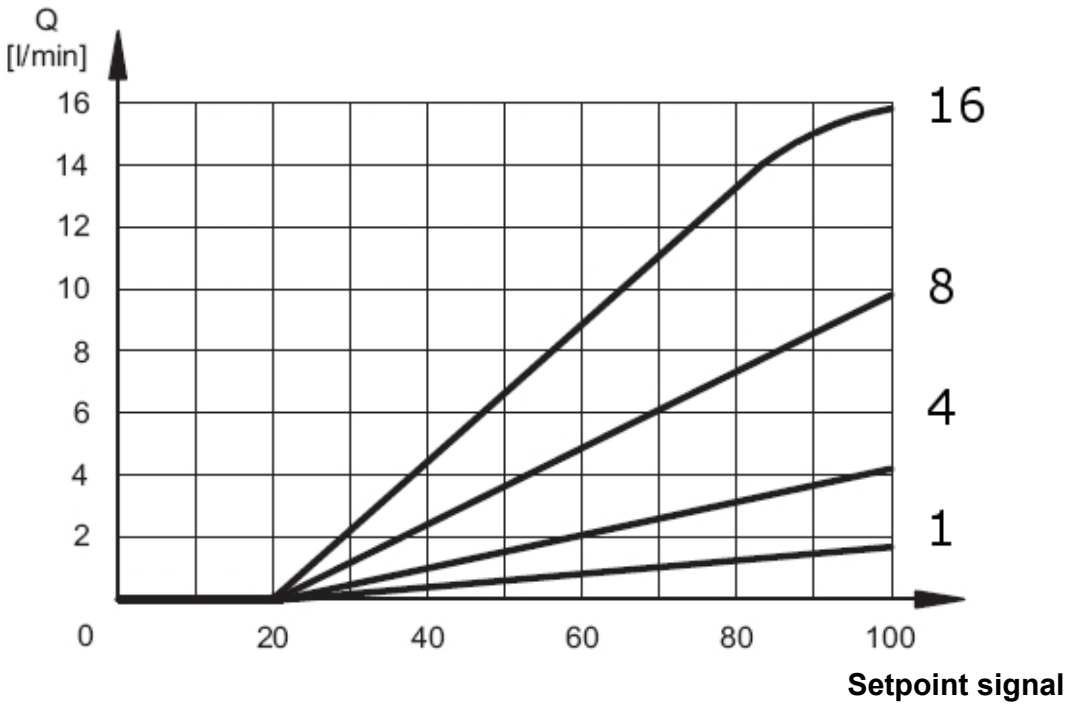
ISO 6263-03-03-0-97

2,2 kg

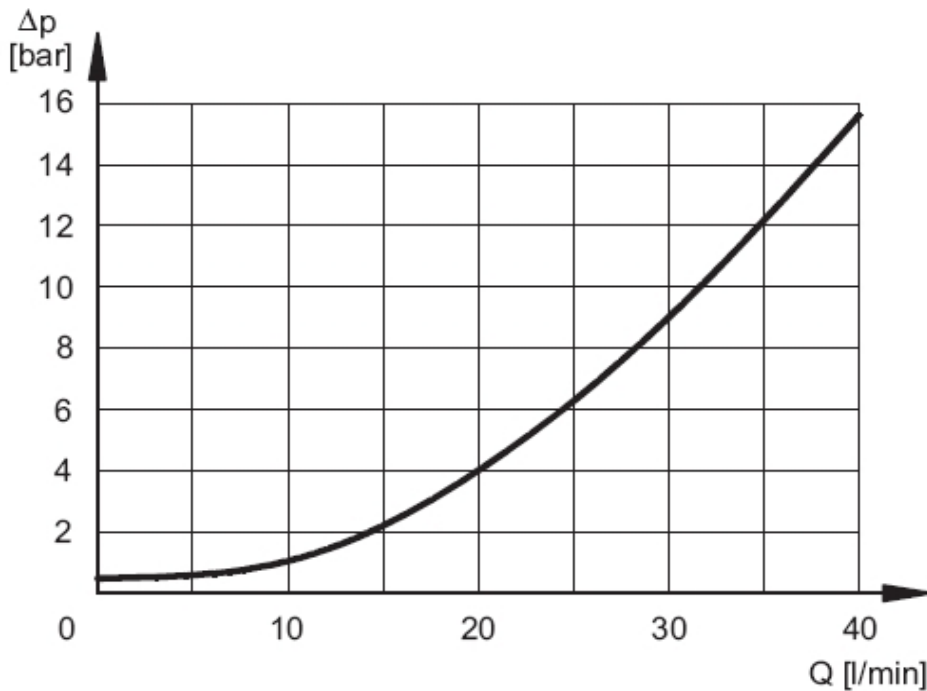
PERFORMANCE

measured at $v = 36 \text{ mm}^2/\text{s}$ and $T_{\text{oil}} = 50^\circ \text{ C}$

Flow control $Q = f(I)$



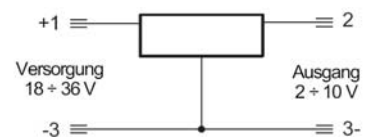
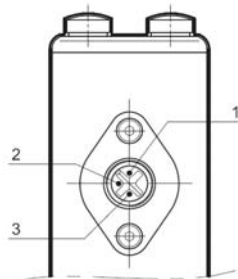
Pressure differential $\Delta p / Q$



transducer – electrical connection

Pin 1 | Supply $18 \div 36 \text{ V}$
 Pin 2 | Output $2 \div 10 \text{ V}$
 Pin 3 | 0 V

Pin 8c
 Pin 24a
 Pin 22c



Standard models

VP-P2SRR 6 L01R D01-24PG/V
 VP-P2SRR 6 L04R D01-24PG/V
 VP-P2SRR 6 L08R D01-24PG/V
 VP-P2SRR 6 L16R D01-24PG/V
 Other models on request

Part No.

3541032
 3541033
 3541034
 3541045

MODEL CODE

VP-P2SRR6 L 16 R D01- 24PG /V

Name and size _____
 Proportional flow control valve, size 6

Curve _____
 L = linear

Flow rate _____
 01 = 1,5 l/min
 04 = 4 l/min (at Δp=10 bar A-B)
 08 = 8 l/min
 16 = 16 l/min

Check valve _____

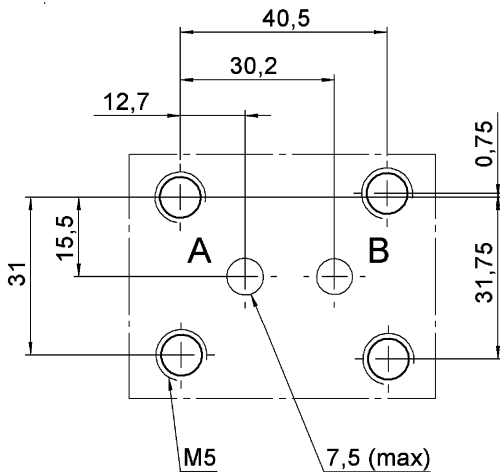
Type _____
 D01 = Standard type with manual override

Nominal voltage _____
 24= 24 V DC

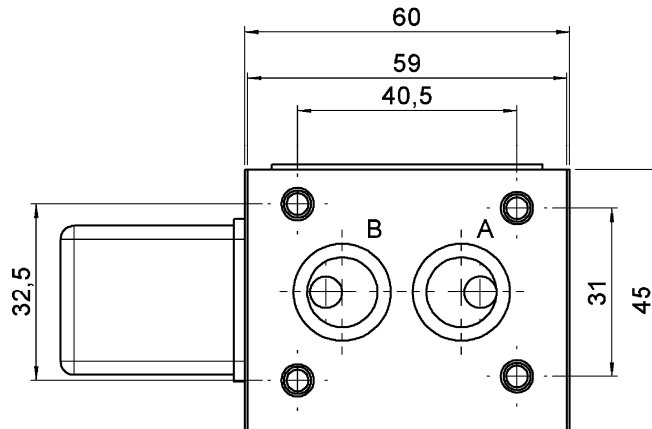
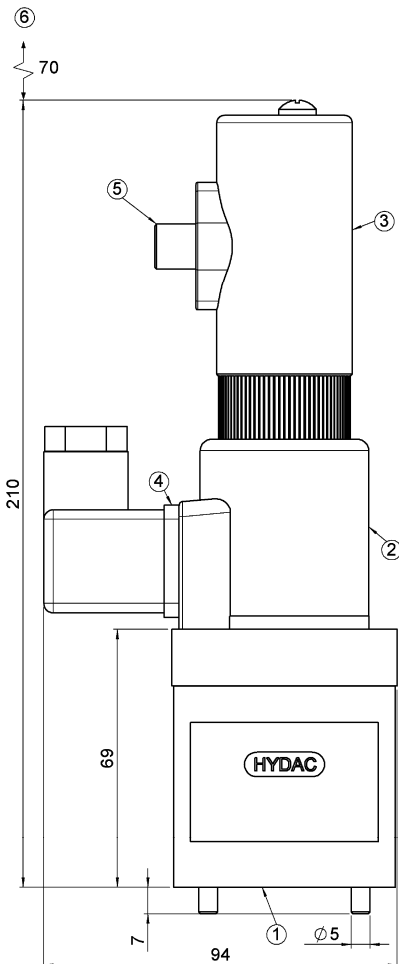
Coil connector _____
 PG= DIN plug to EN175301-803

Seal material _____
 V= FPM (Standard)
 N= NBR (optional)

Hole pattern to nach ISO6263-03-0-97



DIMENSIONS



- 1) Mounting plate with seals:
 2x O-Ring 14 x 2 FkM
 - 2) Proportional coil
 - 3) Transducer
 - 4) DIN plug to EN175301-803
 for Prop. coil
 - 5) DIN plug 4 Pin M12 - IP67
 PG7 for Transducer
 - 6) Free space f. mounting the
 Transducer
 - 7) Free space for mounting
 the DIN plug
- Fastening screws: (incl.)
 Allen key 4x M5 x 65 10.9
 Torque: 5 Nm + 0,5 Nm

All dimensions in mm.
 Fastening elements are not in the
 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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