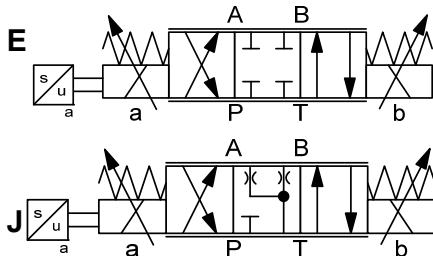




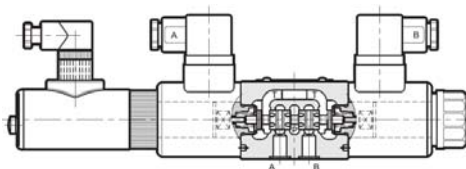
## 4/3- Proportional Solenoid Valve direct acting, with position transducer Subplate to ISO4401 **P4WER 06**

### SYMBOL



**Up to 40 l/min**  
**Up to 350 bar**

### FUNCTION



The P4WER 06 is a direct acting solenoid valve which combines the directional control with the velocity control of the consumer. The controlled nominal flow is proportional to the electrical input signal at the coil. Analogue to his size the coil creates a force and moves the piston against the spring. Herewith the corresponding cross section diameters are opened which determines the flow rate in dependence of the pressure differential. For the electrical control of the valve there are electronic modules available (see brochure 5.249.0 PEK-WAR).

### FEATURES

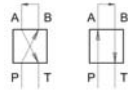
- High flow rate due to optimized casted housing
- Small hysteresis by super finish of moving parts
- Long life cycle times by armature switching under oil
- Minimal wear by hardened and ground valve piston
- Simple exchangeability by international standardized hole pattern to ISO 4401
- Electronic control by PEK-WAR see brochure 5.249.0
- Integrated position transducer

### SPECIFICATIONS

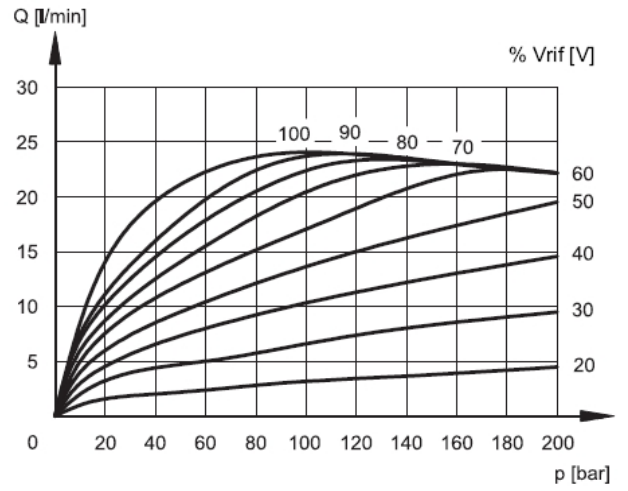
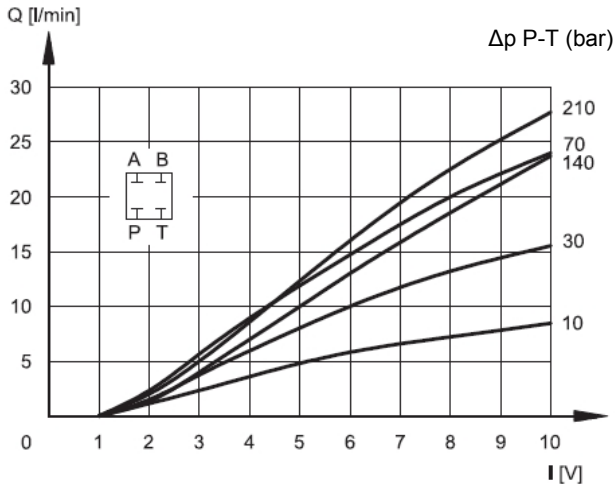
Operating pressure:	ports P,A,B max. 350 bar port T max. 210 bar
Nominal flow:	max. 40 l/min
Hysteresis:	(in % of Q <sub>max</sub> ) < 1,5 %
Repeat accuracy:	(in % of Q <sub>max</sub> ) < +/- 1,0 %
Switch-on time:	(0-100%) 30 ms
Switch-off time:	(100-0%) 25 ms
Media operating temp.range:	-20°C up to +80°C
Ambient temperature range:	-20°C up to +60°C
Hydraulic fluid:	Hydraulic fluid to DIN 51524 part 1/ 2
Viscosity range:	10 mm <sup>2</sup> /s up to 400 mm <sup>2</sup> /s
Filtration:	Class 18/16/13 up to 19/17/14 according to ISO4406
Supply voltage:	DC voltage
Nominal current:	1,88 A at 12V DC
Resistance at 20°C:	3,66 Ohm at 12V DC
Coil duty rating:	100% (continuous)
Electromagnetic compatibility: (EMC)	Emissions to EN 50081-1 compatibility to EN 50082-2 to Norm 89/336 CEE
IP rating:	IP65
Installation:	no orientation restrictions
Hint:	Vent system and valve before setting in motion
Hole pattern:	ISO4401-03-02-0-05
Weight:	2,3 kg

# PERFORMANCE

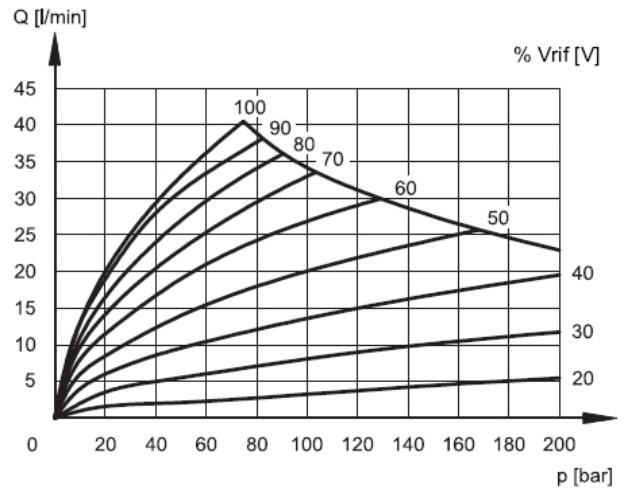
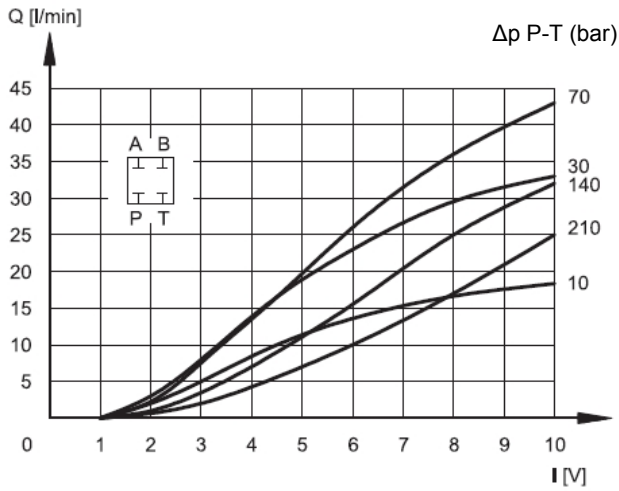
measured at  $v = 33 \text{ mm}^2/\text{s}$  and  $T_{oil} = 46^\circ \text{ C}$  (The related  $\Delta p$  is measured between lines P and T of the valve)



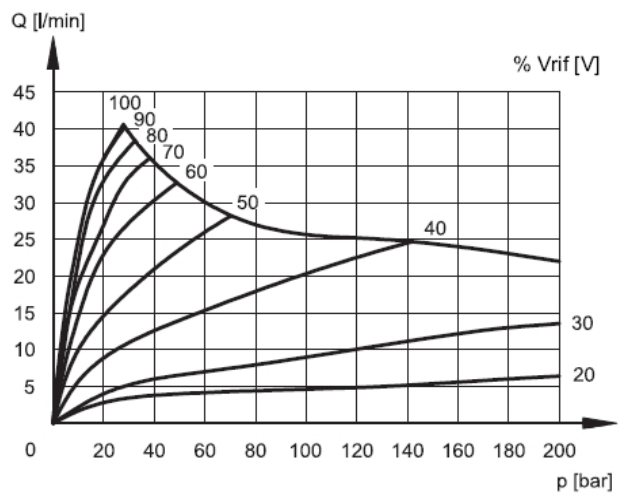
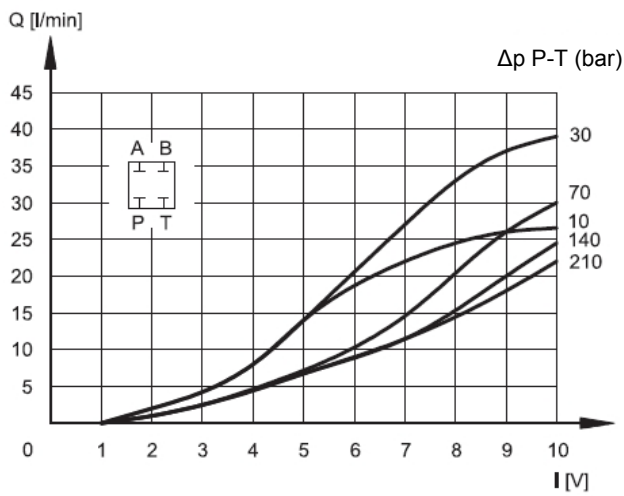
## E08



## E16

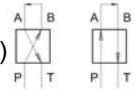


## E26

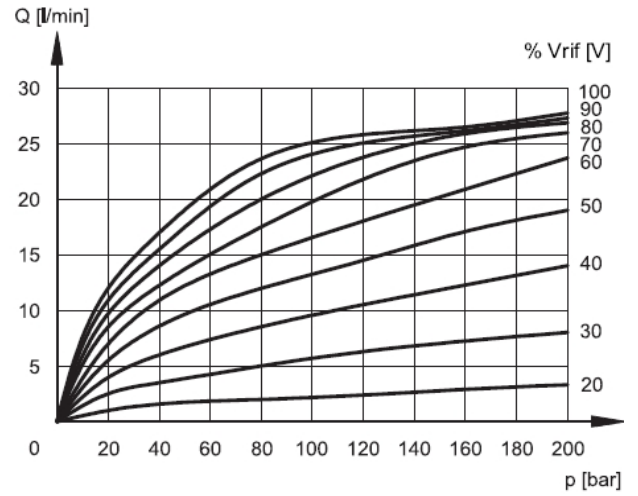
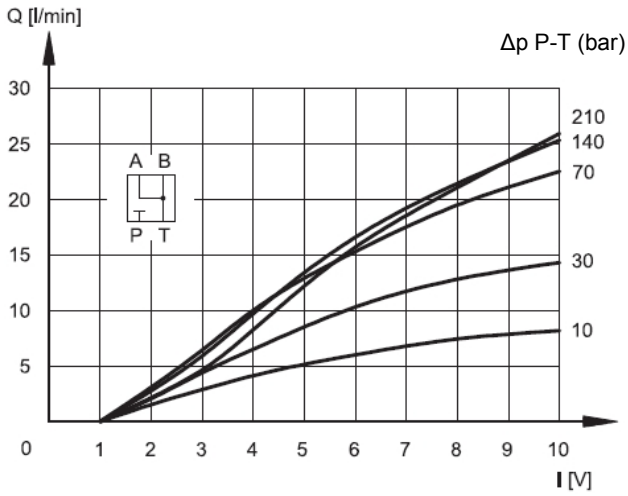


# PERFORMANCE

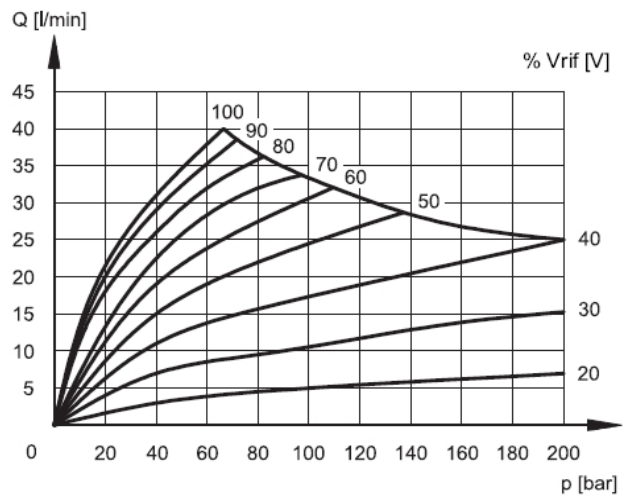
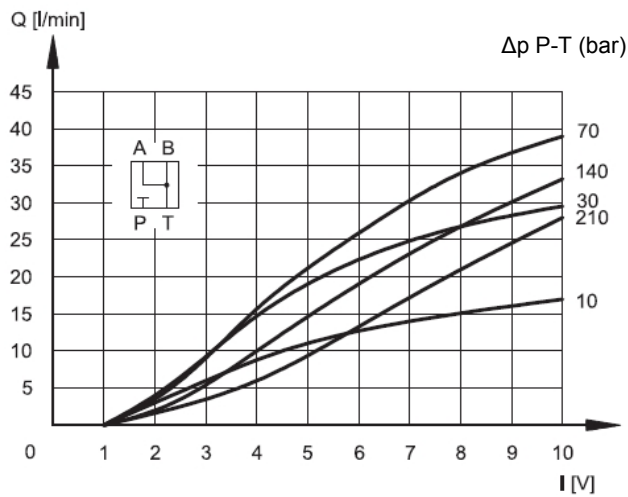
measured at  $v = 33 \text{ mm}^2/\text{s}$  and  $T_{oil} = 460^\circ \text{ C}$  (The related  $\Delta p$  is measured between lines P and T of the valve)



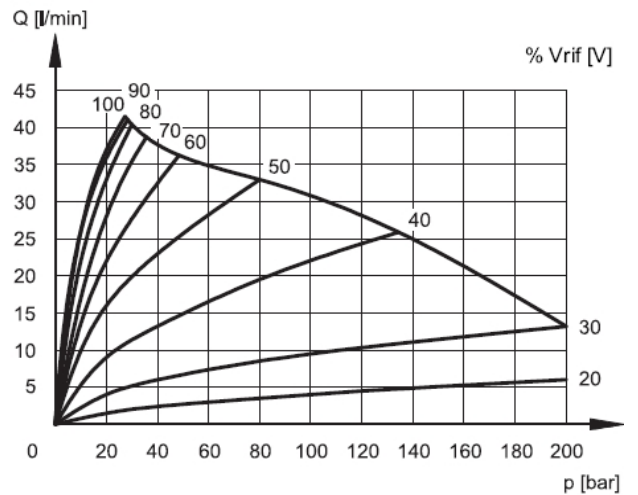
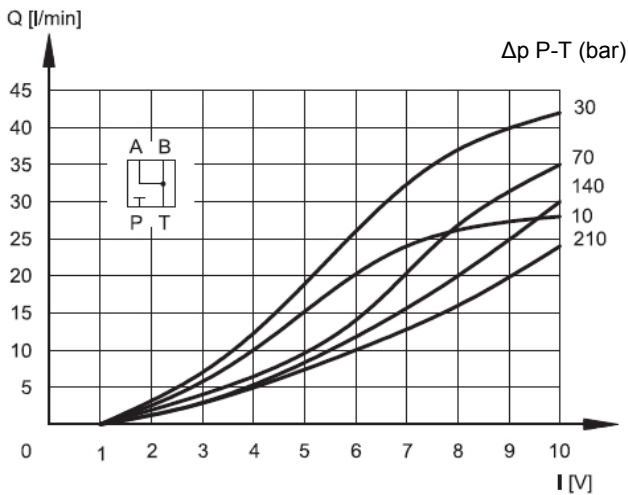
## J08



## J16



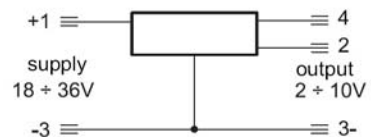
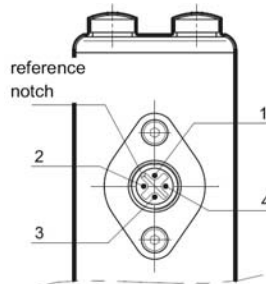
## J26



### position transducer – electrical connection

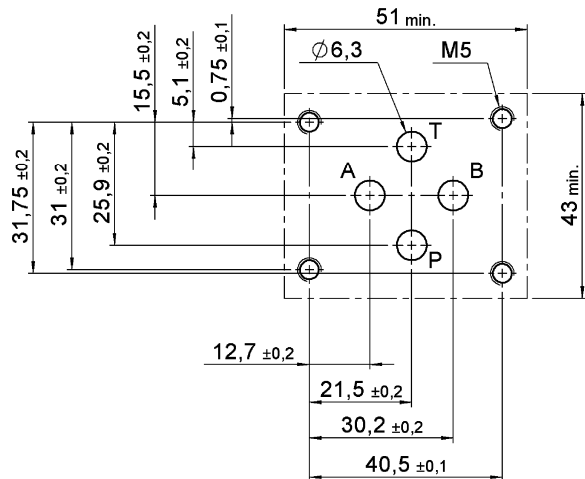
Pin 1 | supply 18 ÷ 36 V  
 Pin 2 | output 2 ÷ 10 V  
 Pin 3 | 0 V  
 Pin 4 | NC

Pin 8c  
 Pin 24a  
 Pin 22c  
 NC



Standard models	Part No.
P4WER 06 E08 D01-12PG/V	3539255
P4WER 06 E16 D01-12PG/V	3539261
P4WER 06 E26 D01-12PG/V	3539264
P4WER 06 J08 D01-12PG/V	3539276
P4WER 06 J16 D01-12PG/V	3539280
P4WER 06 J26 D01-12PG/V	3539281
Other types on request	

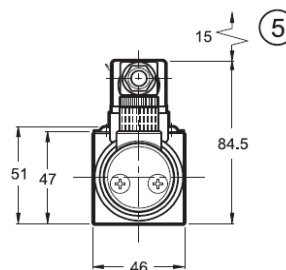
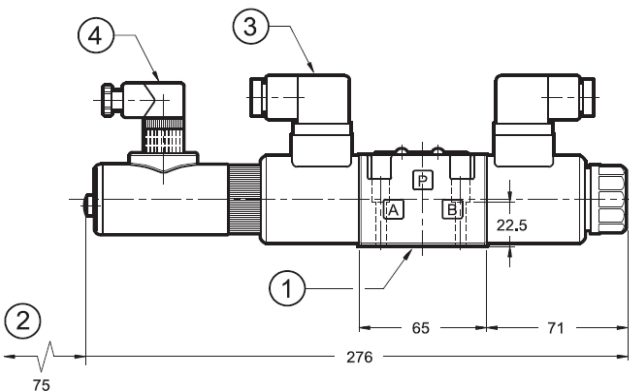
### Hole pattern to ISO 4401-03-02-0-05



### DIMENSIONS

- 1) Mounting plate with O-rings:  
4 x O-Ring 9.25 x 1.78 NBR
- 2) Position transducer and free space for mounting the coil
- 3) DIN plug to EN175301-803
- 4) Electrical plug 4-poles M12S/10 for position transducer (incl.)
- 5) Free space for mounting the DIN plug

Fastening screws:  
4x Allen screw M5 x 30 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.

### MODEL CODE

**P4WER 06 E 16 D01- 12PG /V**

**Name** \_\_\_\_\_  
Proportional solenoid valve  
Subplate mounting

**Nominal size** \_\_\_\_\_  
6

**Symbol** \_\_\_\_\_  
E  
J

**Nominal flow** \_\_\_\_\_  
08= 8 l/min  
16= 16 l/min  
26= 26 l/min  
At  $\Delta p=10$  bar P-T

**Type** \_\_\_\_\_  
D01 = Standard type with  
manual override

**Nominal voltage** \_\_\_\_\_  
12= 12 V DC

**Coil connector** \_\_\_\_\_  
PG= DIN plug to EN175301-803

**Seal material** \_\_\_\_\_  
V= FPM (Standard)  
N= NBR (optional)