Catalogue MSG11-3500/UK Characteristics / Ordering Code

Direct Operated Prop. Pressure Relief Valve **Series RE06M*T**

Parametrizing

Main

connection

Air bleeding

connection

The proportional pressure relief valve series RE06M*T (NG06) with onboard electronics is based on the functionality of the digital amplifier PCD00.

The digital onboard electronics is situated in a robust metal housing and can be used in rough environments. The nominal values of the valves are factory set. Additionally the ProPxD software permits the editing of all parameters. The software is also used for the digital electronic modules. The cable for connection to a serial RS232C interface is available as accessory.

The electrical connection is available in 2 options:

- Code F: 6 + PE central connection
 - +/- 10 V command signal
 - +10 V reference voltage output

- Code R: 6 + PE central connection
 - 4...20 mA command signal

Function

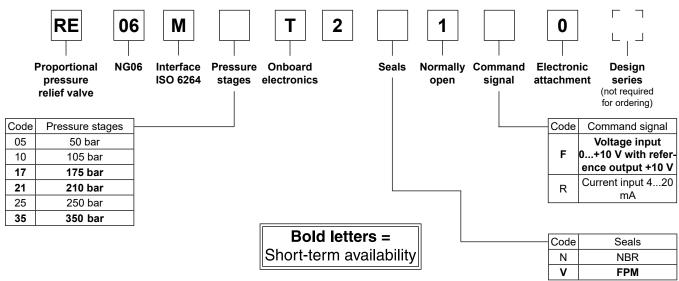
When the pressure in port P or A exceeds the pressure setting at the solenoid, the cone opens to port T and limits the inlet pressure to the adjusted level.

The pressure adjustment is effected by applying current to the solenoid. The control signal is modulated to the solenoid current by the electronics.

Features

- Direct operated with proportional solenoid
- Onboard electronics
- Very low pressure adjustment of p_{min}
- Subplate mounting acc. to ISO 6264
- · 6 pressure stages
- · 2 pressure inlet ports A and P

Ordering code



P

Please order plugs separately, see chapter 4, accessories. Parametrizing cable OBE® RS232, Item no. 40982923

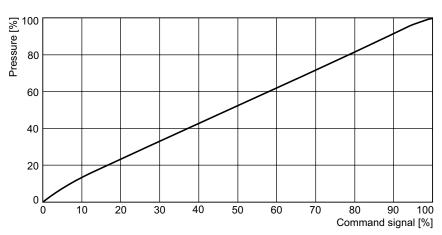


General							
Nominal size			DIN NG06 / CETOP 03 / NFPA D03				
Interface			Subplate mounting according to ISO 6264				
Mounting position			Unrestricted, horizontal mounting preferred				
- · ·		[°C]	-20+60				
		[years]	150				
Weight [kg]		[kq]	2.2				
			10 sinus 52000 Hz acc. to IEC 68-2-6 10 (RMS) noise 202000 Hz acc. to IEC 68-2-36 15 shock acc. to IEC 68-2-27				
Hydraulic							
Max. operating pressure [bar]		[bar]	Ports A and P 350, connection T 30				
Pressure stages [bar]		[bar]	50, 105, 175, 210, 250, 350				
Nominal flow		[l/min]	See p/Q curves				
Fluid			Hydraulic oil according to DIN 51524				
Viscosity, permitted	[cSt] / [[mm²/s]	20 400				
recommer	ided [cSt] / [[mm²/s]	30 80				
Fluid temperature [°C]		[°C]	-20+70 (NBR: -25+70)				
Filtration			ISO 4406; 18/16/13				
Linearity [%]		[%]	See curve				
Repeatability [%]		[%]	<±1				
Hysteresis		[%]	±1.5 of p _{max}				
Electrical							
Duty ratio ED		[%]	100				
Protection class			IP65 in accordance with EN 60529 (with correctly mounted plug-in connector)				
Supply voltage [VDC]		[VDC]	1830, ripple < 5 % eff., surge free				
Current consumption max. [A]		[A]	2.0				
Pre-fusing [A]		[A]	2.5 medium lag				
		[V]	+10 / ±5 % max. 10 mA				
Command signal							
Code F voltage [V]			0+10, ripple < 0.01 % eff., surge free, Ri = 100 kOhm 420, ripple < 0.01 % eff., surge free, Ri = <250 Ohm < 3.6 mA = enable off, > 3.8 mA = enable on (acc. NAMUR NE43)				
Differential input voltage max. [V] [V]			30 for terminal D and E against PE (terminal G) 11 for terminal D and E against 0V (terminal B)				
Adjustment ranges	Min current Max current Ramp	[%]	050 50100 032.5				
Interface			RS 232C, parametrizing connection 5polig				
EMC			EN 61000-6-2, EN 61000-6-4				
Central connection			6 + PE acc. EN 175201-804				
Cable specification [mm ²]		[mm²]	7 x 1.0 overall braid shield				
Cable length max.		[m]	50				

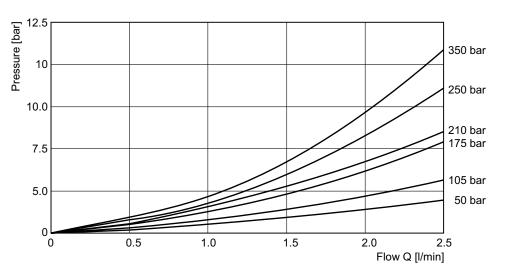
¹⁾ If valves with onboard electronics are used in safety-related parts of control systems, in case the safety function is requested, the valve electronics voltage supply is to be switched off by a suitable switching element with sufficient reliability.



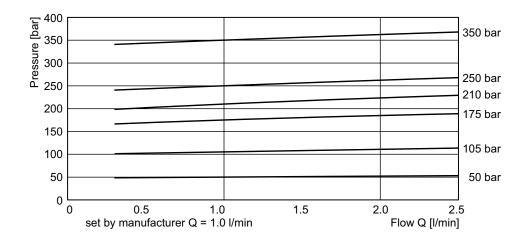
Signal/pressure curve



Min. adjusted pressure



p/Q curve



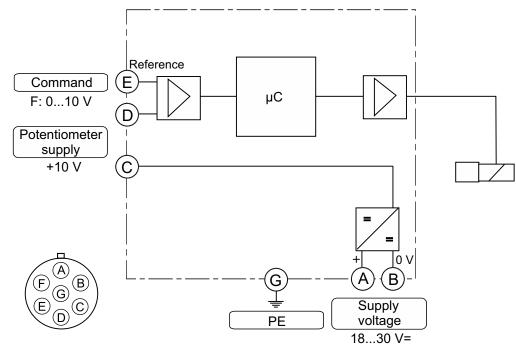
All characteristic curves measured with HLP46 at 50 $^\circ\text{C}.$



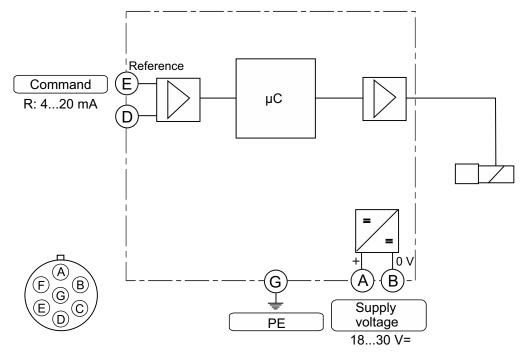
Block diagram

Code F

6 + PE acc. EN 175201-804



Code R 6 + PE acc. EN 175201-804





ProPxD interface program

The ProPxD software permits comfortable parameter setting for the module electronics. Via the clearly arranged entry mask the parameters can be noticed and modified. Storage of complete parameter sets is possible as well as printout or record as a text file for further documentation. Stored parameter sets may be loaded anytime and transmitted to other valves. Inside the electronics a nonvolatile memory stores the data with the option for recalling or modification.

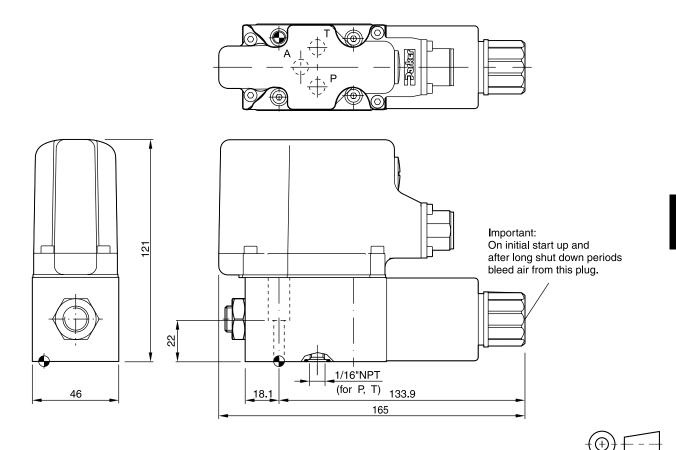
The PC software can be downloaded free of charge at www.parker.com/isde – see page "Support" or directly at www.parker.com/propxd.

Features

- Comfortable editing of all parameters
- Depiction and documentation of parameter sets
- Storage and loading of optimized parameter adjustments
- Executable with all actual Windows[®] operating systems from Windows[®] XP upwards
- Plain communication between PC and electronics via serial interface RS232C

The parametrizing cable may be ordered under item no. 40982923.

No. Value Description Module Type BE**T_F S5 0 ramp up [ms] A	no modul In series ????
No. Value Description Module Type E25 0 MIN operating threshold - <td< th=""><th>no modul In series ????</th></td<>	no modul In series ????
BE**T_F E25 0 MIN operating threshold S5 0 ramp up (ms) A	no modul In series ????
B6 O ramp down [ms] A P3 100.0 Max (%) A-channel P5 0.0 Dither-Amplitude (%) P6 0 Dither-Frequency [Hz] P7 0.0 Min (%) A-channel Verial Verial Verial	????
S6 O ramp down [ms] A P3 100.0 Max (%) A-channel P5 0.0 Dither-Amplitude (%) P6 0 Dither-Frequency [Hz] P7 0.0 Min (%) A-channel P7 0.0 Min (%) A-channel P6 0 Dither-Frequency [Hz] P7 0.0 Min (%) A-channel Char Char	????
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Demo P7 0.0 Min [%] A-channel Valve Image: Charge of the second	2222
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Surface finish	Bolt kit	175		🔘 Kit	
	Don M	Et 4	2	NBR	FPM
√R _{max} 6.3 □ 0.01/100	BK 375	4x M5x30 ISO 4762-12.9	7.6 Nm ±15 %	SK-RE06MTN	SK-RE06MTV

Mounting pattern ISO 6264-03-04-*-97

