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**

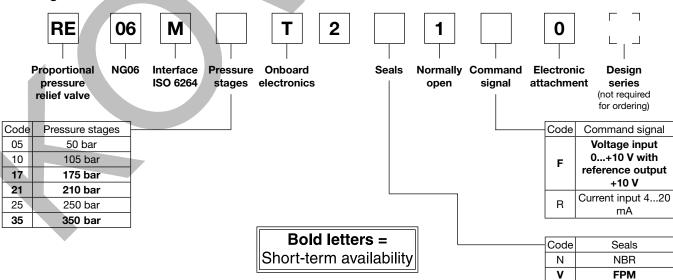
When the pressure in port P or A exeeds the pressure setting at the solenoid, the cone opens to port T and limits the inlet pressure to the adjusted level.

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<sub>min</sub>
- Subplate mounting acc. to ISO 6264
- 6 pressure stages
- 2 pressure inlet ports A and P

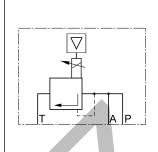
#### **Ordering code**

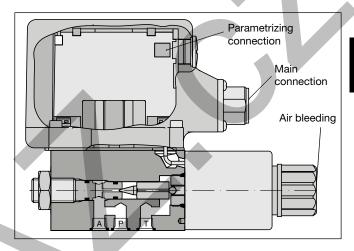


Please order plugs separately, see chapter 4, accessories. Parametrizing cable OBE → RS232, Item no. 40982923

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### **Technical Data**

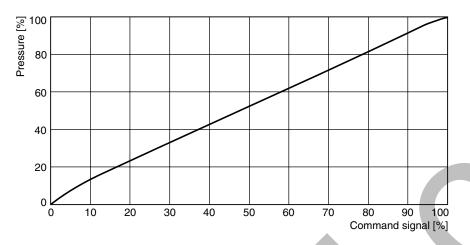
Canaval					
General		DINI NOOS / OFTOD SS / NEDA DOS			
Nominal size		DIN NG06 / CETOP 03 / NFPA D03			
Interface		Subplate mounting according to ISO 6264			
Mounting position		Unrestricted, horizontal mounting preferred			
Ambient temperature		-20+60			
MTTF <sub>D</sub> value 1)		150			
Weight	[kg]	2.2			
Vibration strength [g]		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 press	sure [bar]	Ports A and P 350, connection T 30			
Pressure stages [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			
recommen		30 80			
Fluid temperature	[°C]	-20+70 (NBR: -25+70)			
Filtration		ISO 4406; 18/16/13			
Linearity	[%]	See curve			
Repeatability	[%]	<±1			
Hysteresis	[%]	±1.5 of p <sub>may</sub>			
Electrical		1100			
Duty ratio ED	[%]	100			
Protection class		IP65 in accordance with EN 60529 (with correctly mounted plug-in connector)			
Supply voltage	[VDC]	1830, ripple < 5 % eff., surge free			
,		2.0			
		2.5 medium lag			
1		+10 / ±5 % max. 10 mA			
Command signal	[٧]	1.07 20701130 101111			
j ,		0+10, ripple < 0.01 % eff., surge free, Ri = 100 kOhm			
		420, ripple < 0.01 % eff., surge free, Ri = 100 kOnn 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 volta	age max. [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 [%]	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	[mm²]	7 x 1.0 overall braid shield			
Cable length max.	- 1	50			
9	[]				

<sup>&</sup>lt;sup>1)</sup> 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.

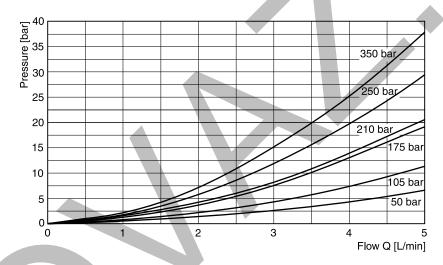


## **Characteristic Curves**

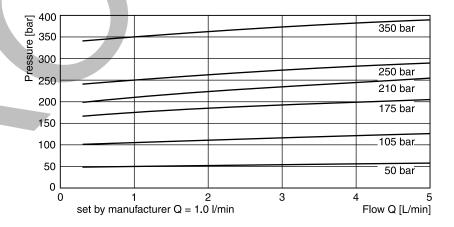
### Signal/pressure curve



### Min. adjusted pressure



## p/Q curve



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

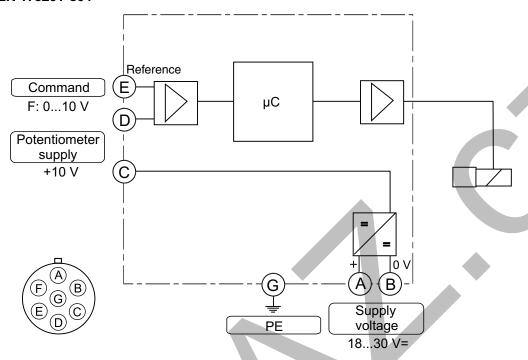
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### **Block diagram**

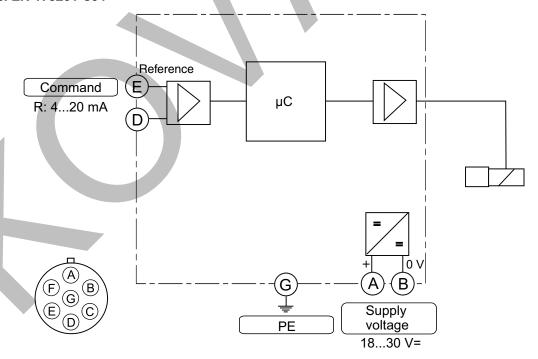
### Code F

6 + PE acc. EN 175201-804



### Code R

6 + PE acc. EN 175201-804







## **Interface Program**

#### ProPxD interface program

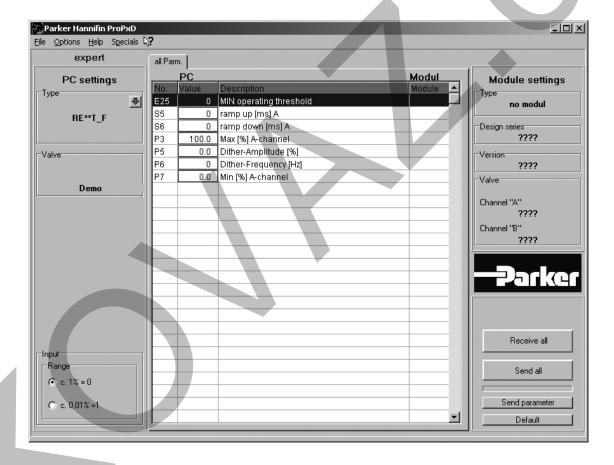
The ProPxD software permits comfortable parameter setting for the module electronics. Via the clearly arranged entry mask the parameters can be noticed and modified. Storage of complete parameter sets is possible as well as printout or record as a text file for further documentation. Stored parameter 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**

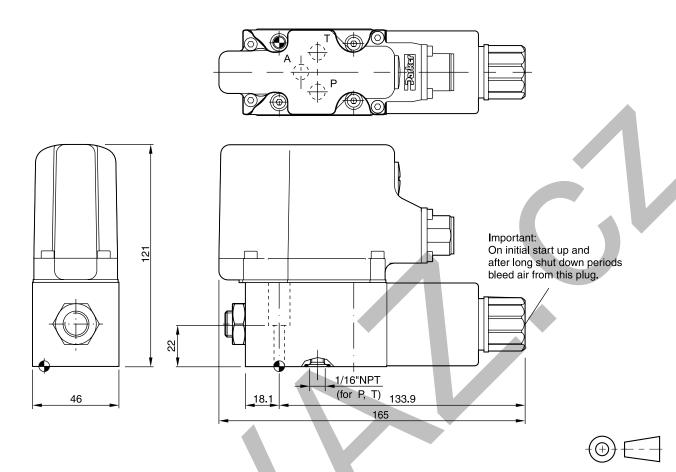
- Comfortable editing of all parameters
- Depiction and documentation of parameter sets
- Storage and loading of optimized parameter adjustments
- Executable with all actual Windows® operating systems from Windows® XP upwards
- Plain communication between PC and electronics via serial interface RS232C

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





# Dimensions



Surface finish	Bolt kit	and it		◯ Kit	
Curres inner	Doi: Itil	Branch (1	2	NBR	FPM
√R <sub>max</sub> 6.3	BK 375	4x M5x30 ISO 4762-12.9	7.6 Nm ±15 %	SK-RE06MTN	SK-RE06MTV

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

