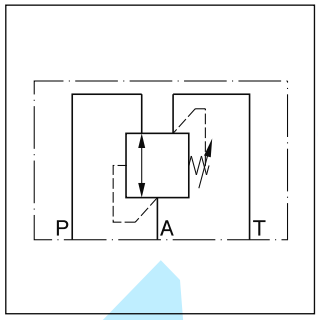
Direct operated pressure reducing valve with manual adjustment. Series VM is a direct operated, spring loaded 3-way pressure reducing valve, that is open in neutral position. The valve closes the connection when the pre-set pressure is exceeded.

Primary port:	NG06 - P,	NG10 - B
Secondary port:	NG06 - A,	NG10 - A
Tank port:	NG06 - T,	NG10 - Y

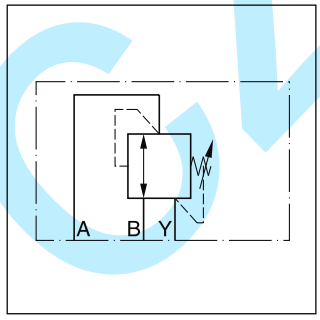
If the pressure increases due to an external influence the spool opens to port T until the pre-set pressure is reached.

NG06

NG10



NG06



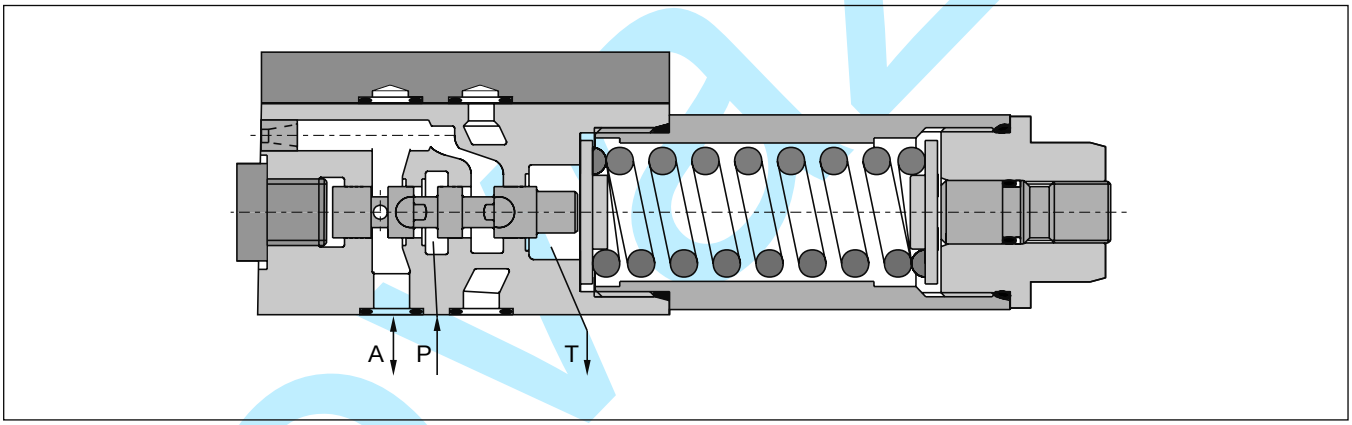
NG10

4

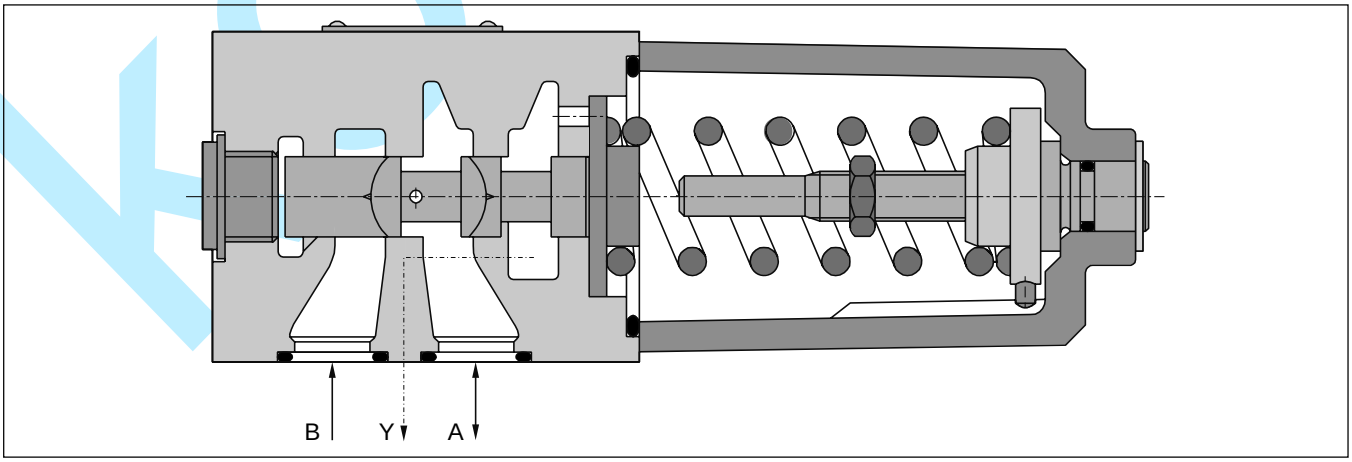
Features

- Spool type valve
- Subplate mounting acc. to ISO 5781
- 5 pressure stages at NG06
- 3 pressure stages at NG10
- 2 adjustment modes

NG06



NG10



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Ordering code

VM	☐	A	☐	V	☐	☐	☐
Pressure reducing valve	**Pressure stages**	**Adjustment screw with hexagon socket**	**Nominal size**	**FPM seals**	**Gauge port**	**Lock**	**Design series** (not required for ordering)

Code	Pressure stages
025 [1]	up to 25 bar
064	**up to 64 bar**
125 [2]	**up to 125 bar**
160 [1]	**up to 160 bar**
210	**up to 210 bar**
350 [1]	up to 350 bar

Code	Nominal size
06	**NG06**
10	**NG10**

Code	Lock
omit	**–**
Z	Key lock

Code	Gauge port
G [1]	**G 1/4”**
M [2]	**M18x1.5**

Bold letters =
Short-term availability

[1] Only NG06.
[2] Only NG10.

Technical data

General			
Design		Pressure reducing valve, direct operated, spool type	
Nominal size		**NG06 (CETOP 03 / NFPA D03)**	**NG10 (CETOP 05 / NFPA D05)**
Interface		Subplate mounting according to ISO 5781	
Mounting position		unrestricted	
Ambient temperature	[°C]	-20...+60	
$MTTF_D$ value	[years]	150	
Weight	[kg]	1.3	3.7
Hydraulics			
Max. operating pressure	[bar]	Port P and A 350 Port T depressurized	Port A and B 350 Port Y depressurized
Pressure stages	[bar]	25; 64; 160; 210; 350	64; 125; 210
Nominal flow	[l/min]	25	60
Fluid		Hydraulic oil according to DIN 51524	
Fluid temperature	[°C]	-20...+70	
Viscosity permitted recommended	[cSt]/ [mm²/s] [cSt]/ [mm²/s]	20...400 30...80	
Filtration		ISO 4406 (1999); 18/16/13	

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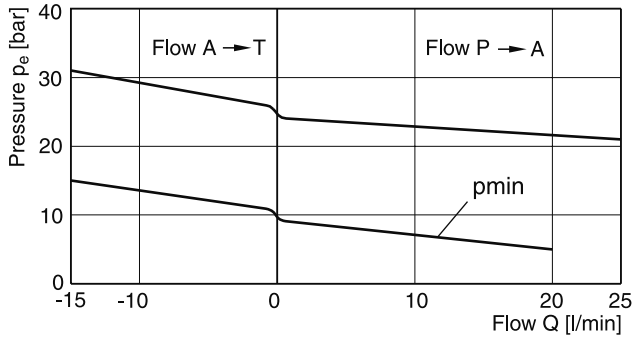
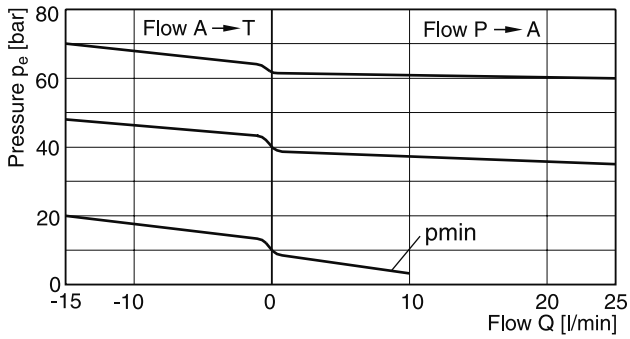
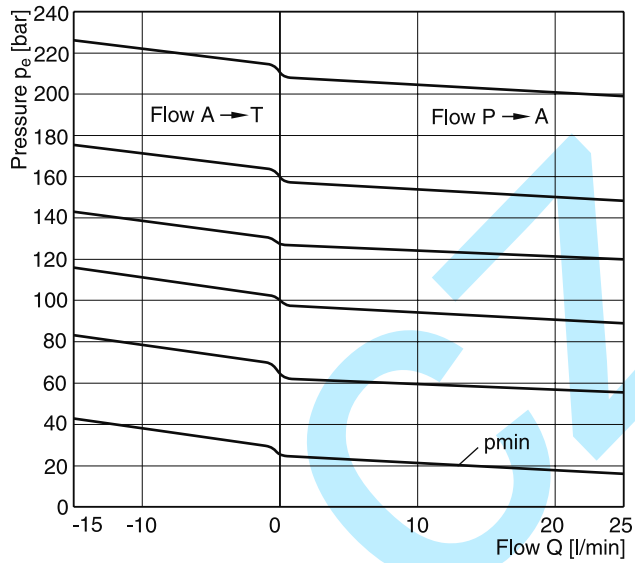
NG06 setting pressure max. 25 bar



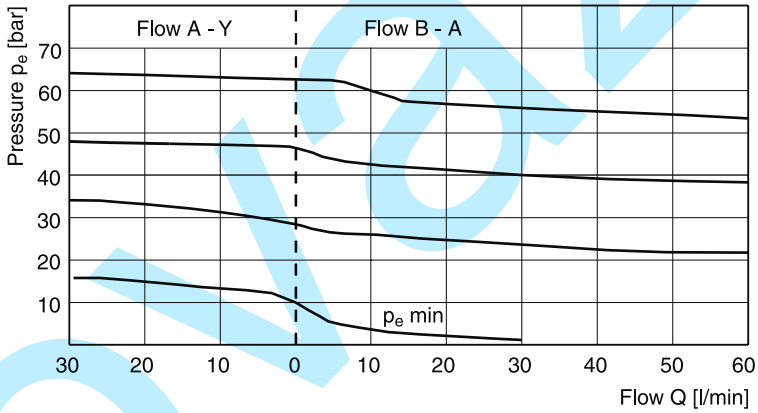
NG06 setting pressure max. 64 bar



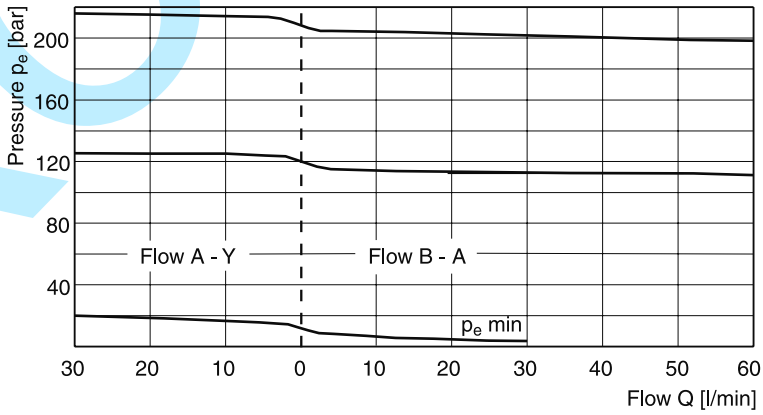
NG06 setting pressure max. 160 or 210 bar



NG10 setting pressure max. 64 bar



NG10 setting pressure max. 210 bar



All characteristic curves measured with HLP46 at 50 °C.

VM UK.indd RH 17.04.2015

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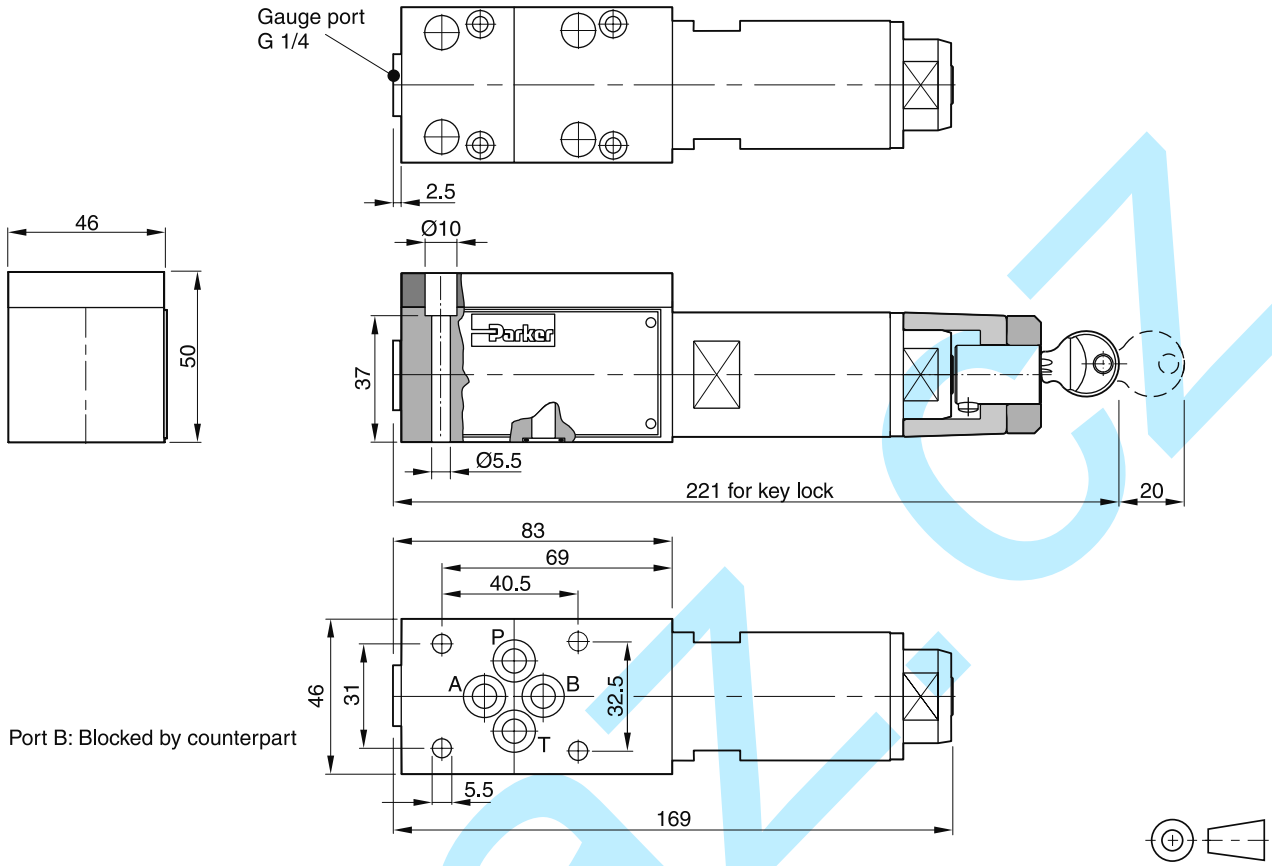
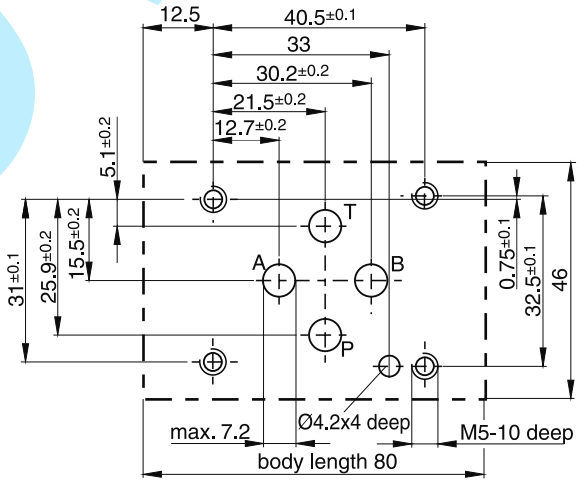
NG06



Surface finish	Bolt kit			Kit FPM
R_{max}6.3 ▱ 0.01/100	BK443	4x M5x45 ISO 4762-12.9	7.6 Nm ±15 %	SK-VB/VM/VS-A06V

Mounting pattern ISO 5781-03-04-0-00



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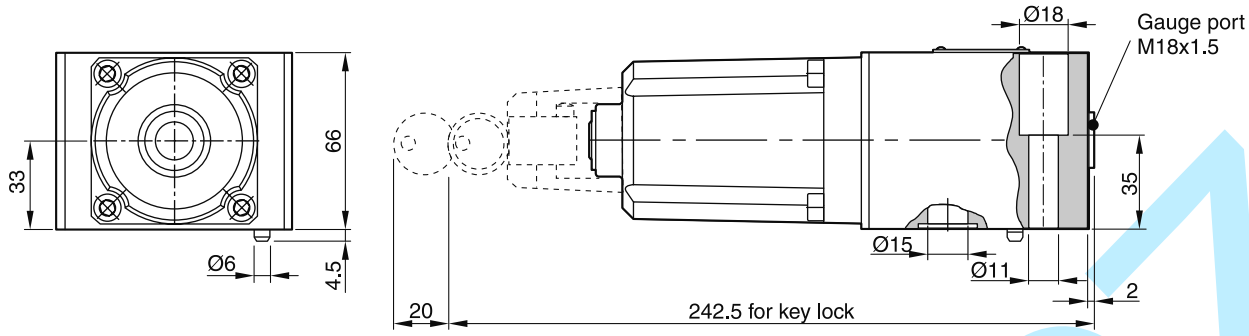
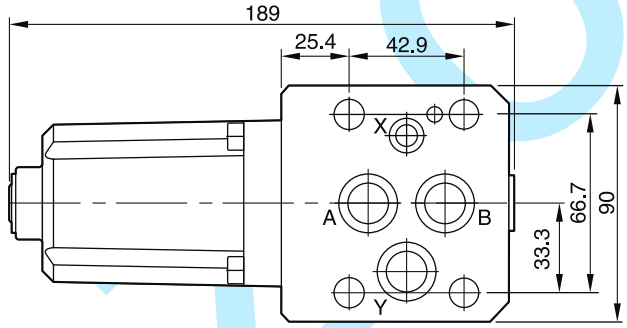
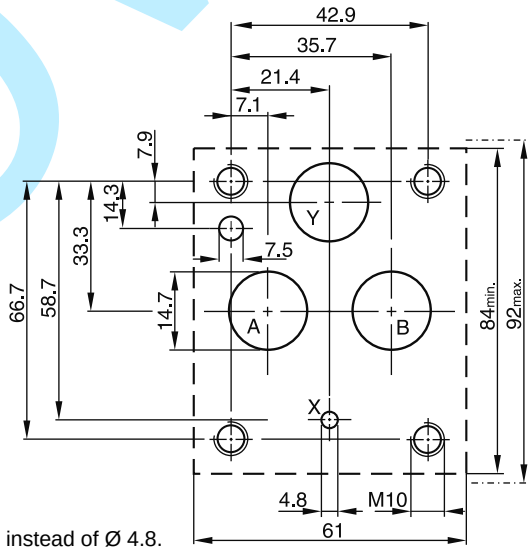
NG10





Surface finish	Bolt kit			Kit FPM
R_{max}6.3 ▱ 0.01/100	BK389	4x M10x50 ISO 4762-12.9	63 Nm ±15 %	SK-VB/VM-A10V

Mounting pattern ISO 5781-06-07-0-00 [1)]



[1)] Deviating from ISO the Y port has Ø 14.7 instead of Ø 4.8.

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