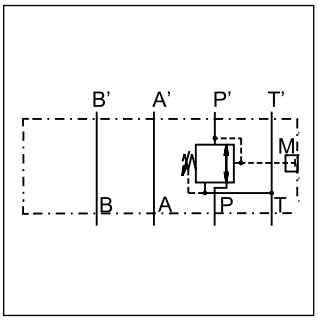
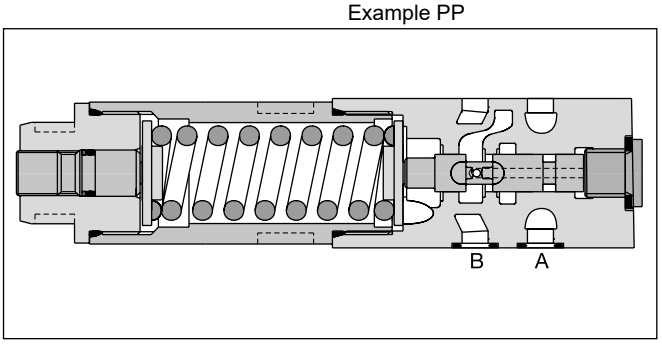
Series PRDM are direct operated pressure reducing valves to regulate pressure in one area of a hydraulic circuit at a predetermined level below normal system pressure. Additionally, an integral pressure relieving function for the secondary reduced pressure circuit is incorporated into the design.



Example PP



Funtion

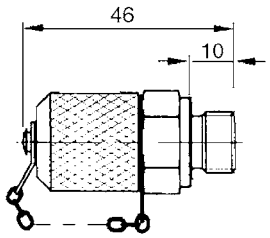
These valves are "normally open" devices that allow fluid to flow through the controlled port during their non-actuated or "at rest" condition. When downstream pressure exceeds the value set by the spring force, the control piston moves off its seat, closing off the flow path and thus reducing the fluid passing through from the main system. The cushioned piston modulates to maintain the preset pressure in this branch of the hydraulic circuit. If, due to external forces, the pressure continues to rise in this branch circuit, the piston will keep moving against the spring force allowing fluid to be drained to the tank, thereby limiting maximum pressure to the valve's setting.

Features

- 3-way design for pressure relieving of the secondary side
- The direct operated, cushioned piston design results in fast response, low leakage and minimal hysteresis.
- Reduced pressure in the 'P', 'A' or 'B' port.
- Pressure settings:
  25, 64, 160, 210, 350 bar for PRDM2,
  19, 50, 100, 150, 210 bar for PRDM3.
- Gauge port
- PRDM2 - NG06 (CETOP 03)
  PRDM3 - NG10 (CETOP 05)

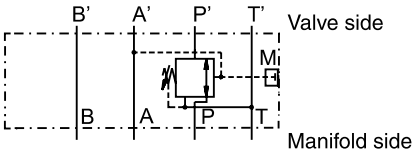
7

Gauge port option C

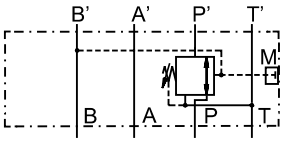


Schematics

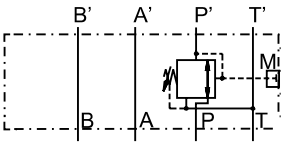
PRDM*AA



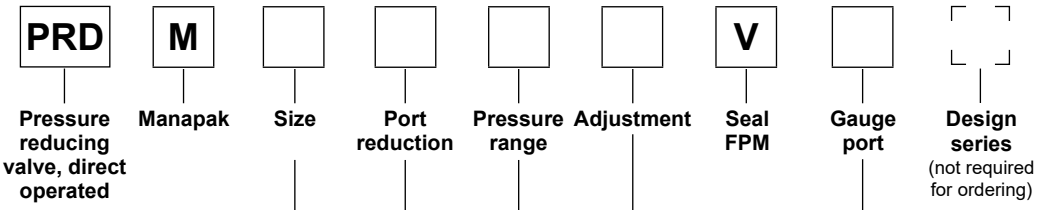
PRDM*BB



PRDM*PP



Ordering code



Code	Size
2	**NG06**
3	**NG10**

Code	Gauge port
G	**G¼**
C	Coupling M16

Code	Connection
PP	**P**
AA	**A**
BB	**B**

Code	Adjustment
S	**Hexagon socket**
L	Cylinder lock
K	Turning knob [1]

Pressure range	
Code	PRDM2
02	up to 25 bar
06	**up to 64 bar**
16	**up to 160 bar**
21	**up to 210 bar**
35	up to 350 bar
Code	PRDM3
01	**up to 19 bar**
05	**up to 50 bar**
10	up to 100 bar
15	**up to 150 bar**
21	**up to 210 bar**

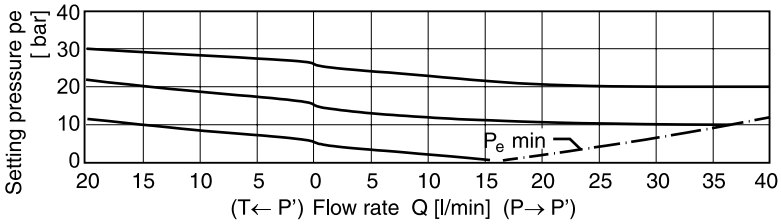
Bold letters =
Short-term availability

Technical data

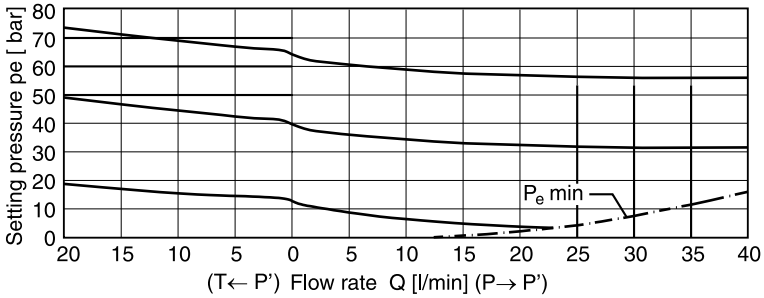
General				
Series			**PRDM2**	**PRDM3**
Size			**NG06**	**NG10**
Mounting interface			ISO 4401	
Ambient temperature		[°C]	-20...+60	
Weight		[kg]	1.3	2.6
$MTTF_D$ value		[years]	150	
Hydraulic				
Max. operating pressure	P, A, B		350	315
	T	[bar]	50	50
Fluid			Hydraulic oil according to DIN 51524	
Fluid temperature		[°C]	-20...+70	
Viscosity,	permitted	[cSt] / [mm²/s]	20 ... 400	
	recommended	[cSt] / [mm²/s]	30 ... 80	
Filtration			ISO 4406 (1999); 18/16/13	

[1] NG06 only.

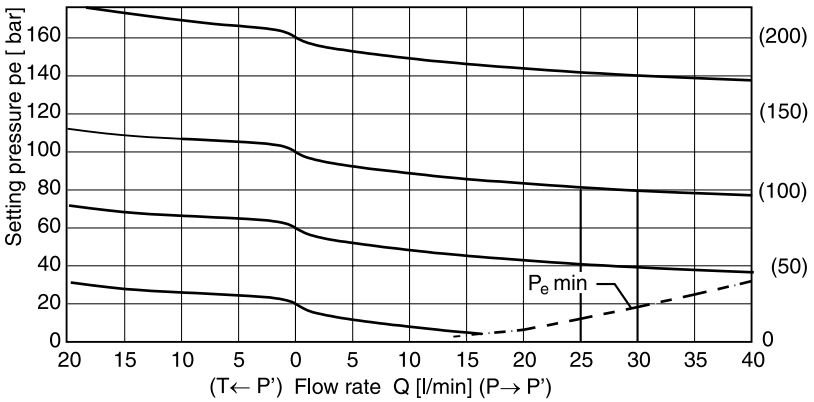
PRDM2 02



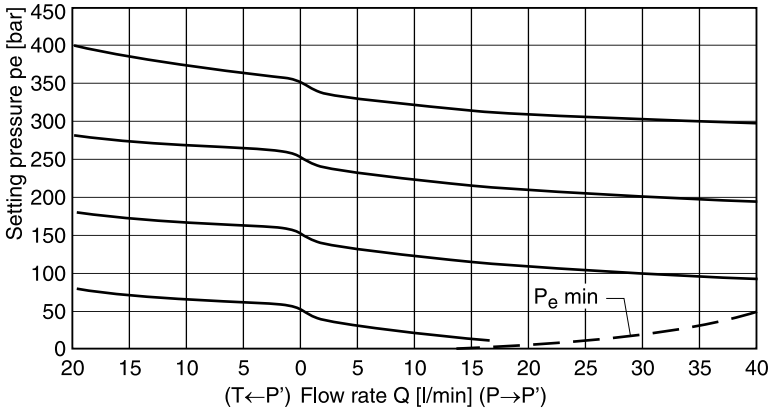
PRDM2 06



PRDM2 16/21

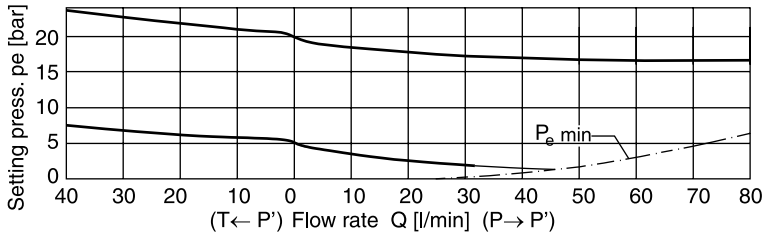


PRDM2 35

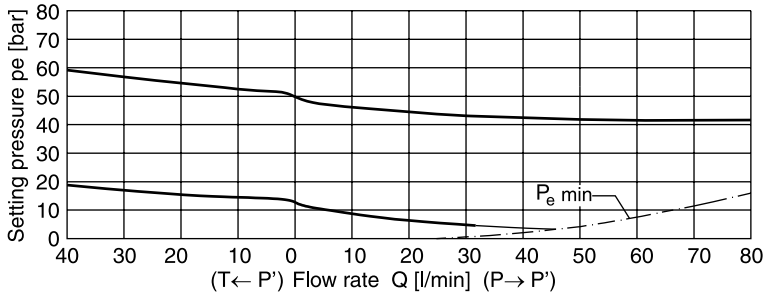


All characteristic curves measured with HLP46 at 50 °C.

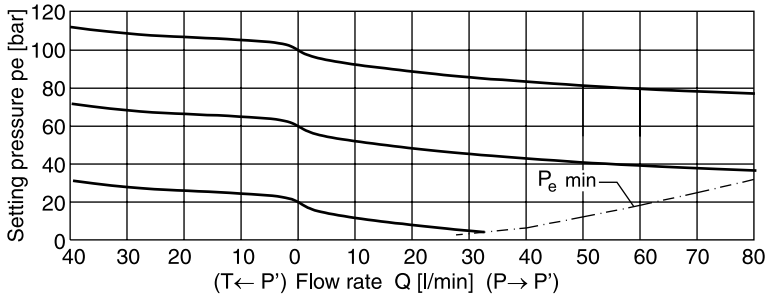
PRDM3 01



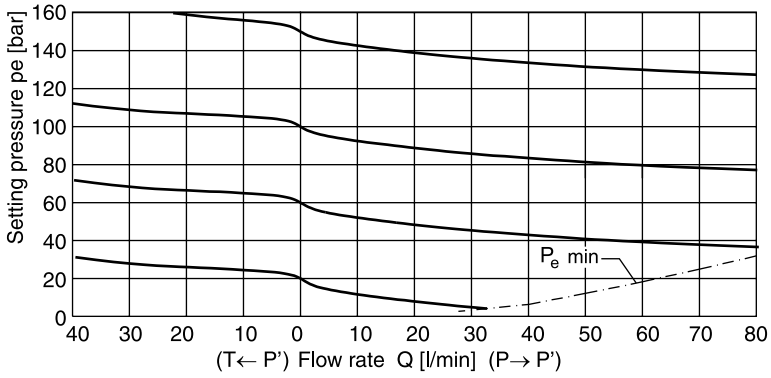
PRDM3 05



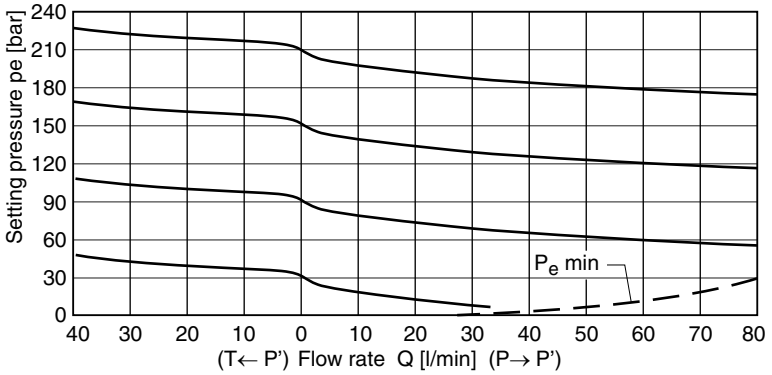
PRDM3 10



PRDM3 15

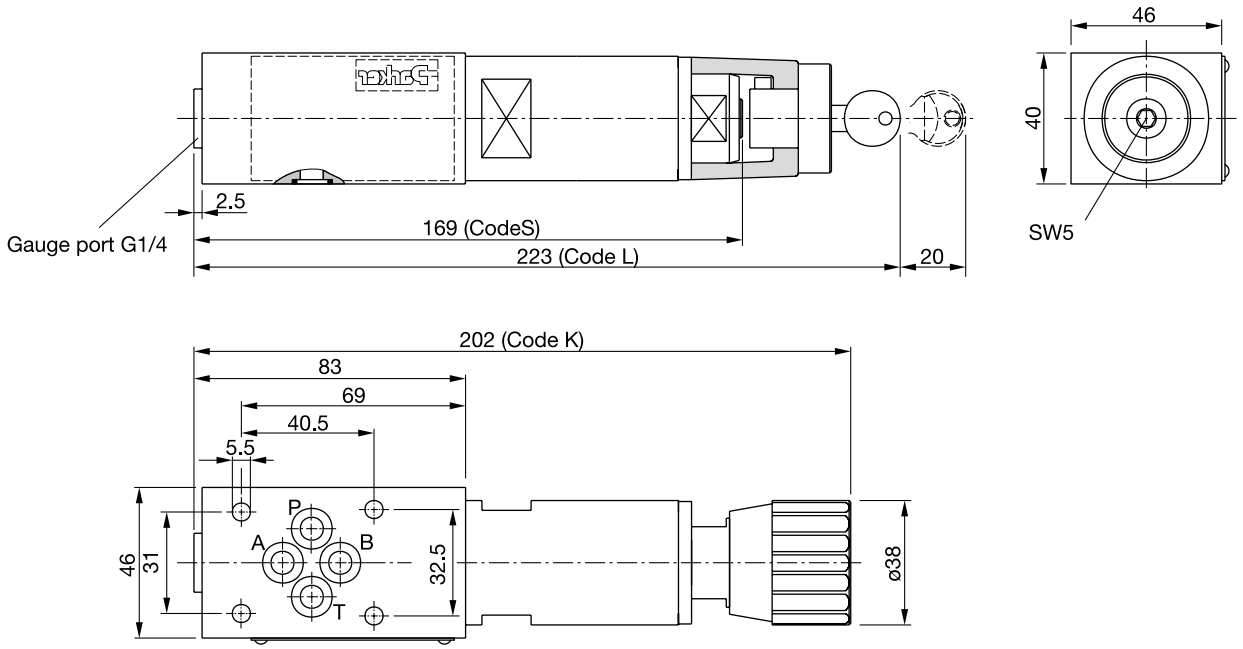


PRDM3 21

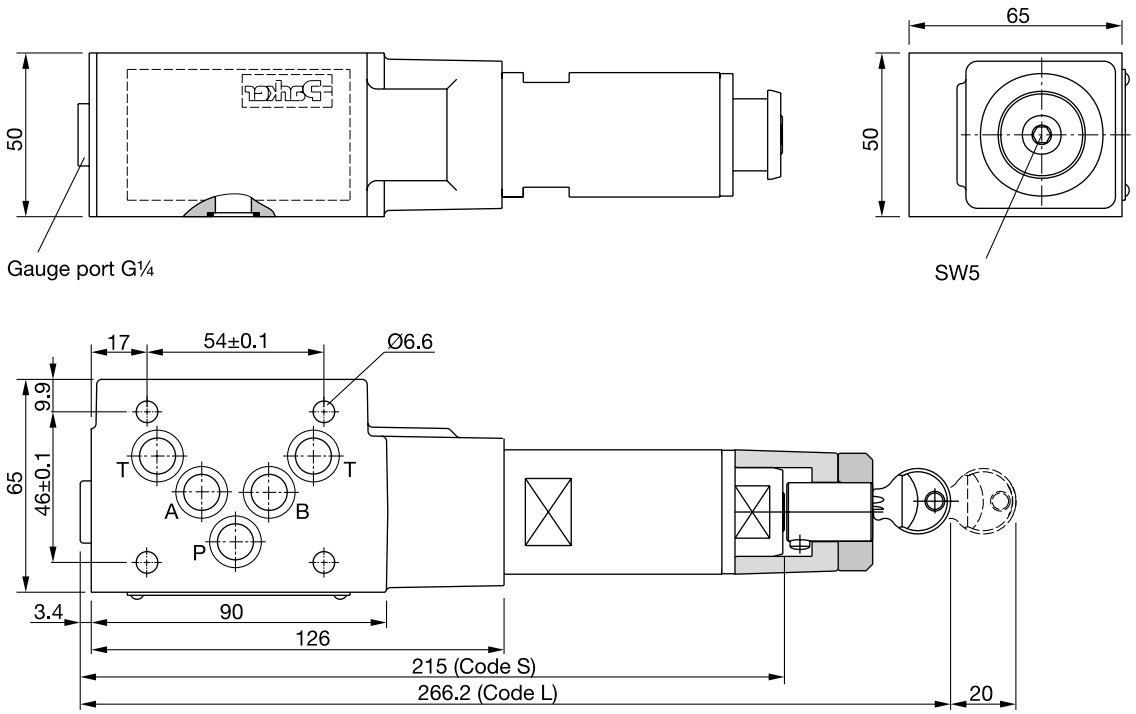


All characteristic curves measured with HLP46 at 50 °C.

PRDM2



PRDM3



Seal kit order code		
Seal	**PRDM2**	**PRDM3**
V	SK-PRDM2-V	SK-PRDM3-V