

Pressure relief valves series RDM are direct operated piston type valves with low hysteresis. They can be used as P-T relief or as T-T controlled counter balance valve. The valve body is equipped with a pressure gauge port.

Function

PT... pressure is relieved from P to T at the adjusted value.

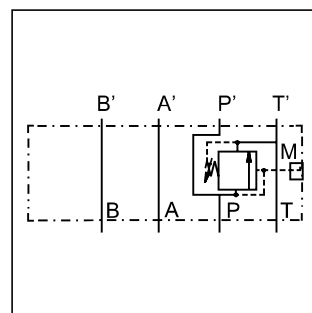
TT... pressure is relieved from T' to T at the adjusted pressure.

Features

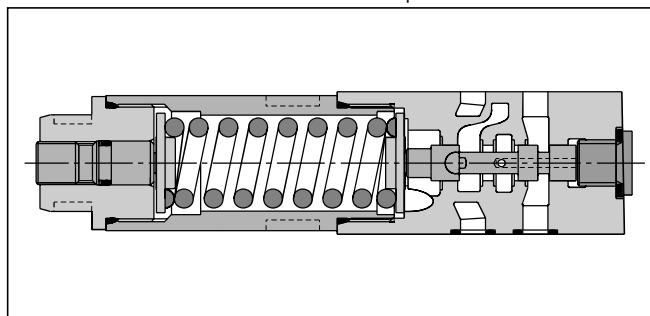
- The direct operated, cushioned piston design results in fast response, low leakage and minimal hysteresis.
- Up to 5 pressure adjustment ranges are available with max. pressure settings of:
bar 25, 64, 160, 210, 350 for RDM2,
bar 19, 50, 100, 150, 210 for RDM3.
- Adjustment modes:
 - Slotted head with lock nut
 - Cylinder lock
 - Turning knob
- RDM2 - NG06 (CETOP 03)
- RDM3 - NG10 (CETOP 05)



RDM2



Example PT



RDM2

7

Ordering code

	RD	M					V		
	Pressure relief valve, direct operated	Manapak	Size	Pressure relief	Pressure range	Adjustment	Seal FPM	Gauge port	Design series (not required for ordering)

Code	Size
2	NG06
3	NG10

Code	Pressure relief
PT	P
TT ¹⁾	T

Code	Gauge port
G ²⁾	G 1/4
C	Coupling M16

Code	Adjustment
S	Hexagon socket
L	Cylinder lock
K	Turning knob ³⁾

Pressure range	
Code	RDM2
02	1.5 to 25 bar
06	1.5 to 64 bar
16	3 to 160 bar
21	3 to 210 bar
35	5 to 350 bar
Code	RDM3
01	1.5 to 19 bar
05	1.5 to 50 bar
10	3 to 100 bar
15	3 to 150 bar
21	3 to 210 bar

**Bold letters =
Short-term availability**

¹⁾ NG06 only, max. 160 bar

²⁾ Standard in housing

³⁾ NG06 only

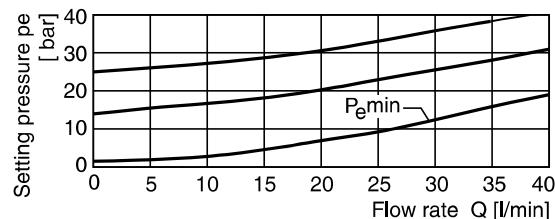
Technical data

General				
Series			RDM2	RDM3
Size			NG06	NG10
Mounting interface		ISO 4401		
Weight	[kg]		1.3	2.6
MTTF _D value	[years]	150		
Ambient temperature	[°C]	-20...+50		
Hydraulic				
Max. operating pressure	P, A, B	[bar]	350	315
	T	[bar]	50	10
Fluid		Hydraulic oil according to DIN 51524...51525		
Fluid temperature		[°C]	-20...+80	
Viscosity		[cSt] / [mm²/s]	12...230	
Filtration		ISO 4406 (1999); 18/16/13		
Max. flow		[l/min]	40	80

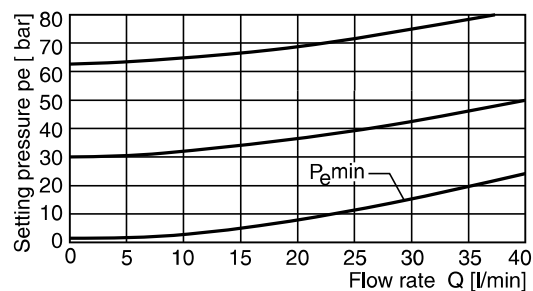
Max. leakage P - A: 5 ml/min.

Performance curves

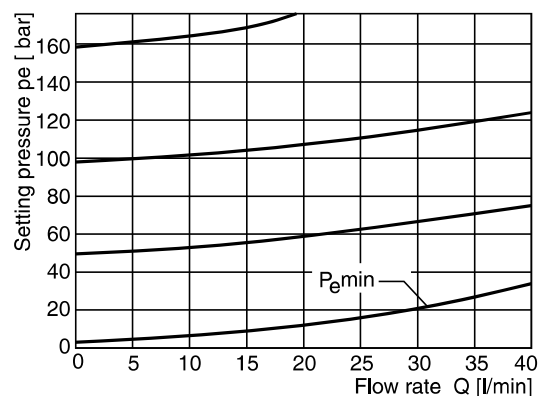
RDM2 02



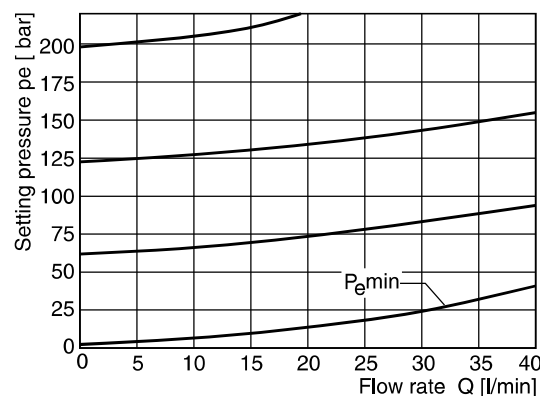
RDM2 06



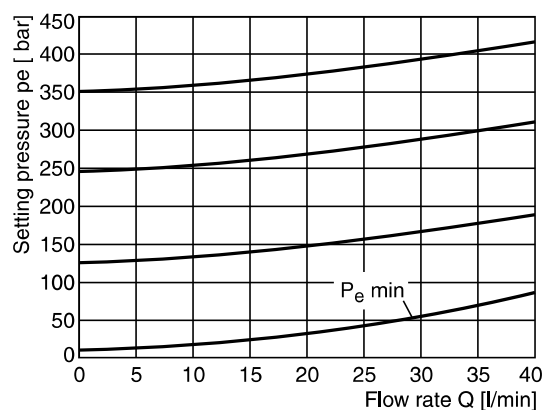
RDM2 16



RDM2 21



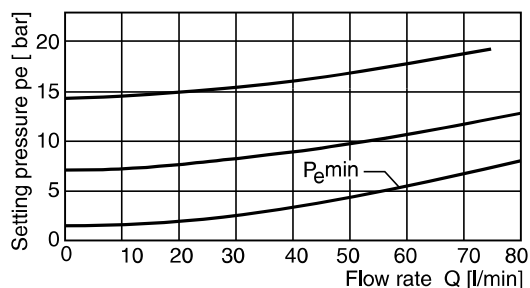
RDM2 35



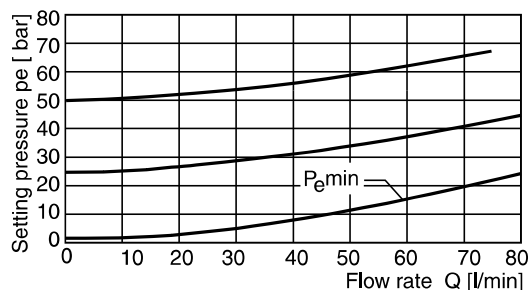
All characteristic curves measured with HLP46 at 50 °C.

RDM UK.INDD CM 23.04.13

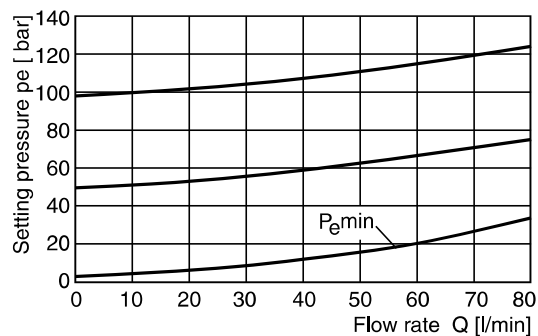
RDM3 01



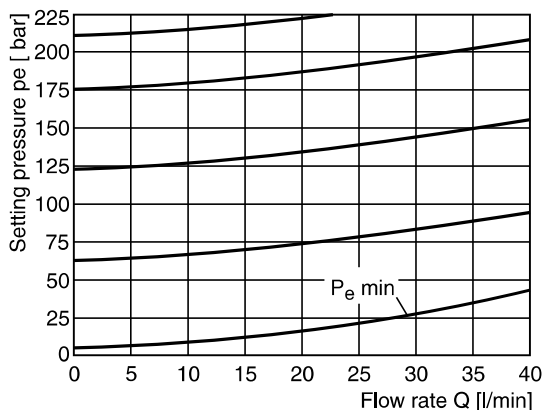
RDM3 05



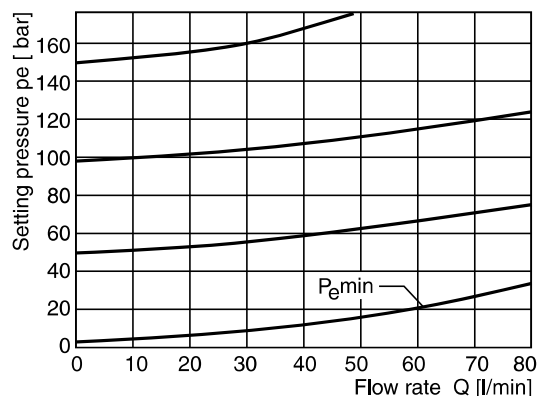
RDM3 10



RDM3 21



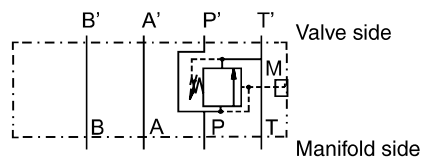
RDM3 15



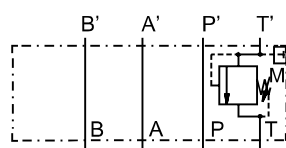
All characteristic curves measured with HLP46 at 50 °C.

Schematics

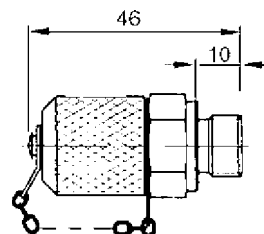
RDM*PT

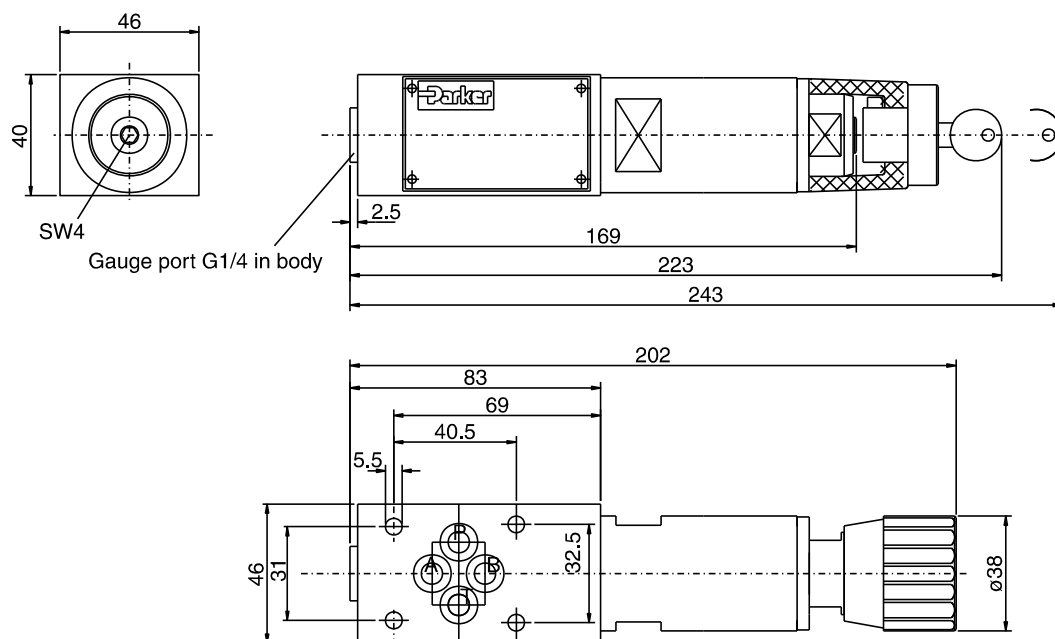
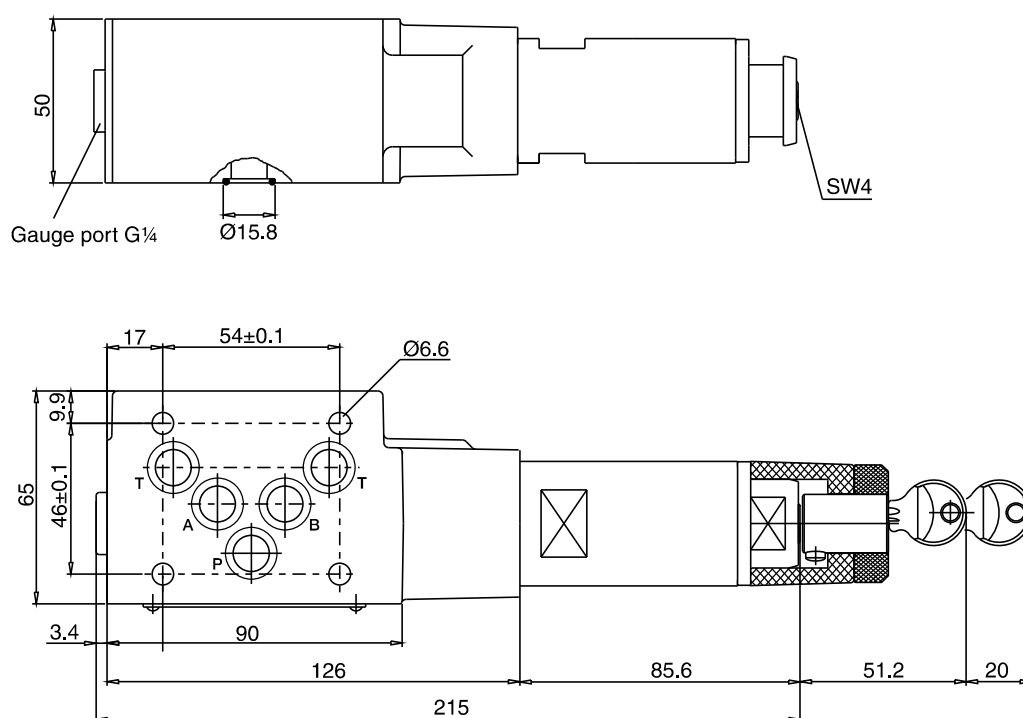


RDM*TT



Gauge port option C



RDM2**RDM3**

Seal kit order code		
Seal	RDM2	RDM3
V	SK-RDM2-V	SK-RDM3-V

