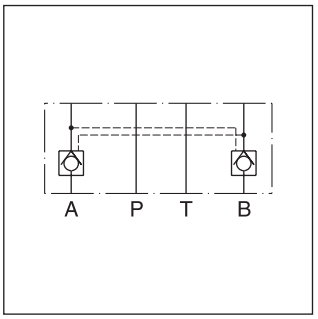
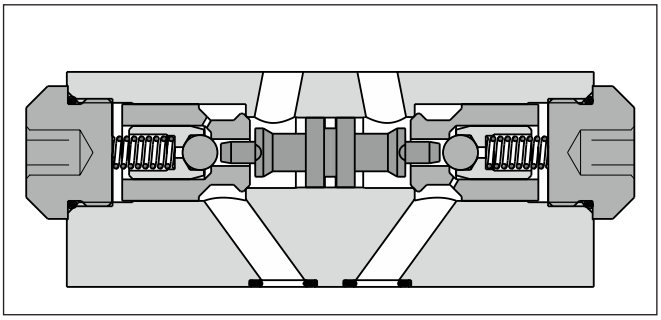
Pilot operated check valves from the Parker series CPOM are in sandwich design for easy configuration of stack systems. Depending on the function required, one or two pilot operated check valves are arranged in the ports A and/or B. The free flow direction is always from the valve side to the manifold side.





CPOM3



Function

The check valves open when flowing to the consumer side, where the opposing check valve is hydraulically-mechanically pilot operated simultaneously by a control spool, and thus the return flow is enabled from other consumer sides.

Features

- The valve bodies of the Parker valve series CPOM are made of steel.
- The valve poppet is precisely guided into the steel sleeve and ensures a good seal on the seat.
- When the valve poppet is open, the large cross-section allows high flow rates at low differential pressure.
- High-performance series CPOM*HT for applications with high switching cycles or pressure spikes plus pre-opening to achieve smooth opening.

Ordering code

With pre-opening

High performance series

CPOM				HT	V		
Hydraulically operated check valve	Size	Poppet style	Opening pressure	Pilot ratio 1:6	Seal FPM	Options	Design series (not required for ordering)

Code	Size
2	NG06
3	NG10

Code	Connection
AA	only A
BB	only B
DD	A and B

Code	Options
omit	without coating
1P	ZnNi coating[1)]

Code	Pressure
omit	Standard
25	2.5 bar
70	7.0 bar

With pre-opening

High performance series

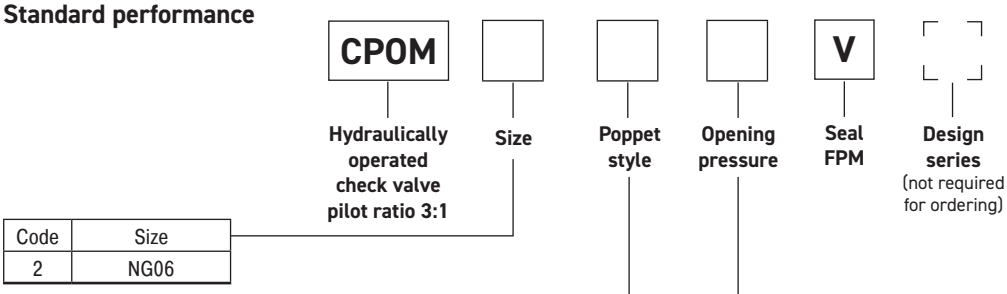
CPOM	4		HT	V	
Hydraulically operated check valve	Size NG16	Poppet style	Pilot ratio 13:1	Seal FPM	Design series (not required for ordering)

Code	Connection
AA	only A
BB	only B
DD	A and B

[1)] On request.

Without pre-opening

Standard performance



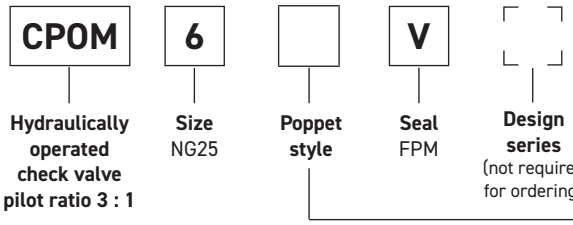
Code	Size
2	NG06

Code	Pressure	Size
omit	0.4 bar	NG06
Y	3.1 bar	NG06
Z	5.2 bar	NG06

Code	Connection
AA	only A
BB	only B
DD	A and B

7

Without pre-opening



Code	Connection
AA	only A
BB	only B
DD	A and B

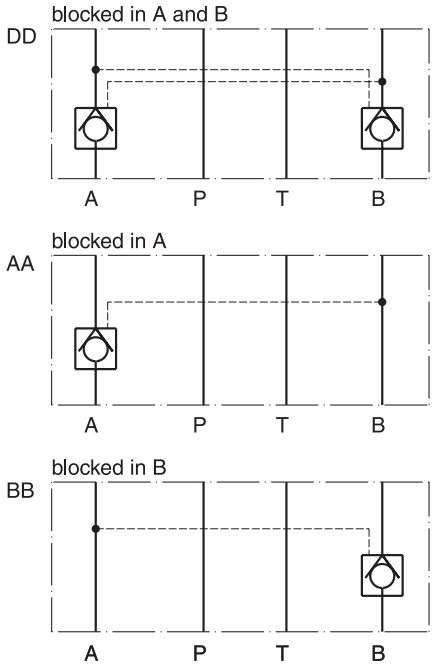
Technical data

General					
Series		**CPOM2**	**CPOM3**	**CPOM4**	**CPOM6**
Nominal size		**NG06**	**NG10**	**NG16**	**NG25**
Mounting interface		ISO 4401			
Ambient temperature	[°C]	-20...+70			
$MTTF_D$ value	[years]	150			
Weight	[kg]	1.2 (HT) / 1.8	3.1	7.65	9.5
Hydraulic					
Max. operating pressure	[bar]	350	350	350	210
Standard opening pressure	[bar]	1.5 (HT) / 0.4	1.5	2.0	0.4
Opening ratio		1 : 6 (HT) / 1 : 3	1 : 6	1 : 13	1 : 3
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; 18/16/13			

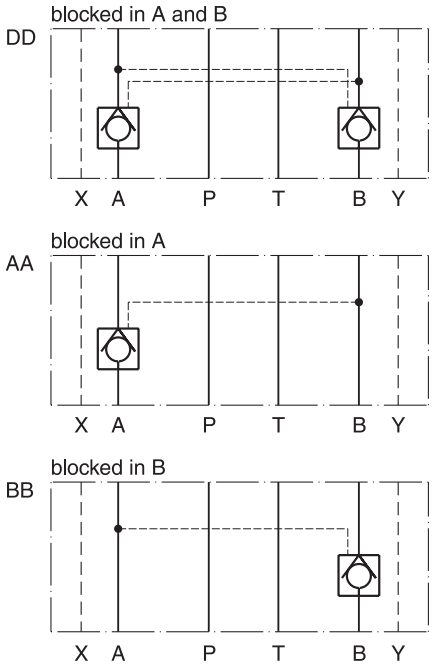
For applications with high switching cycles and pressure spikes, the use of the CPOM*HT series is recommended.

Schematics

CPOM2 / CPOM3



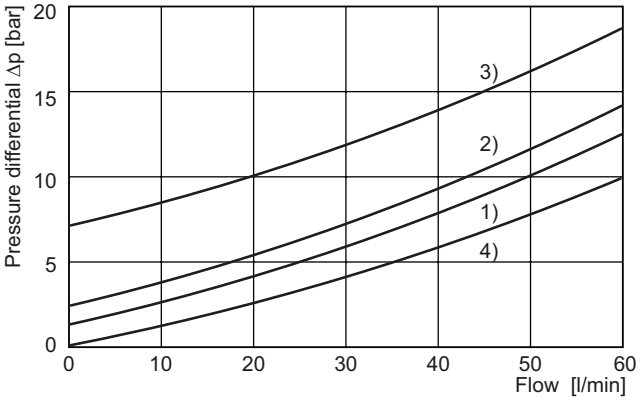
CPOM4 / CPOM6



7

Δp/Q performance curves

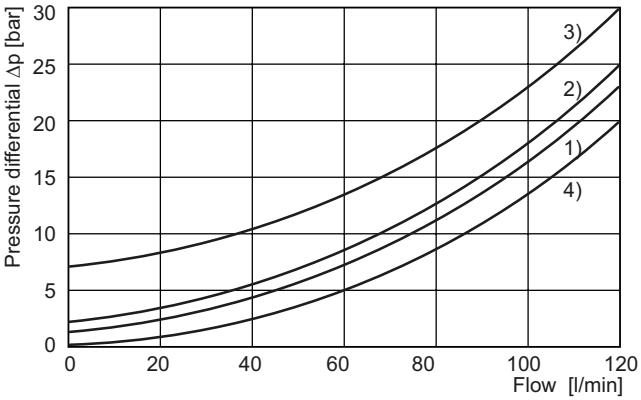
CPOM2 (type HT)



1) 1.5 bar
2) 2.5 bar
3) 7.0 bar

4)

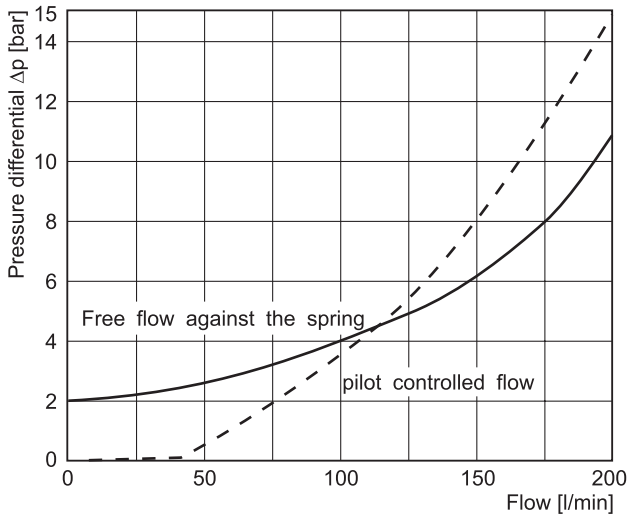
CPOM3 (type HT)



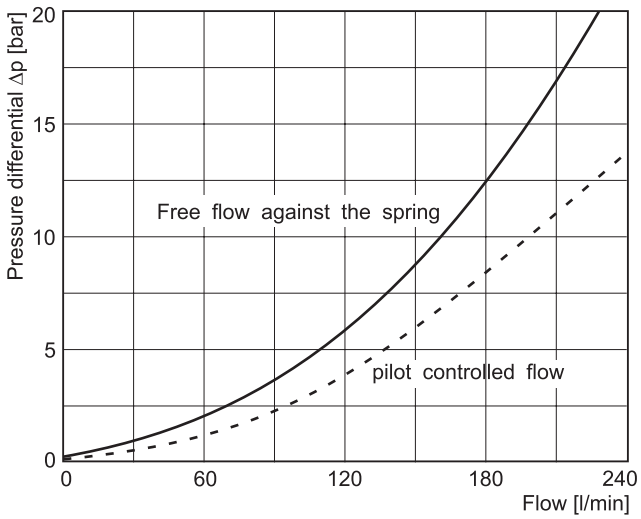
1) 1.5 bar
2) 2.5 bar
3) 7.0 bar

4)

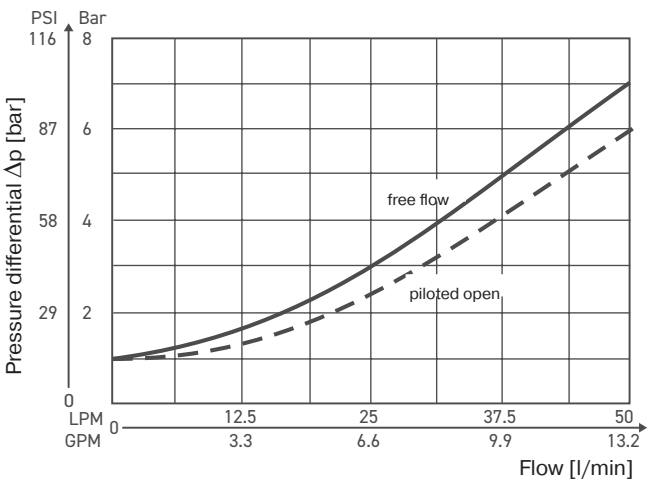
CPOM4 (type HT)



CPOM6



CPOM2

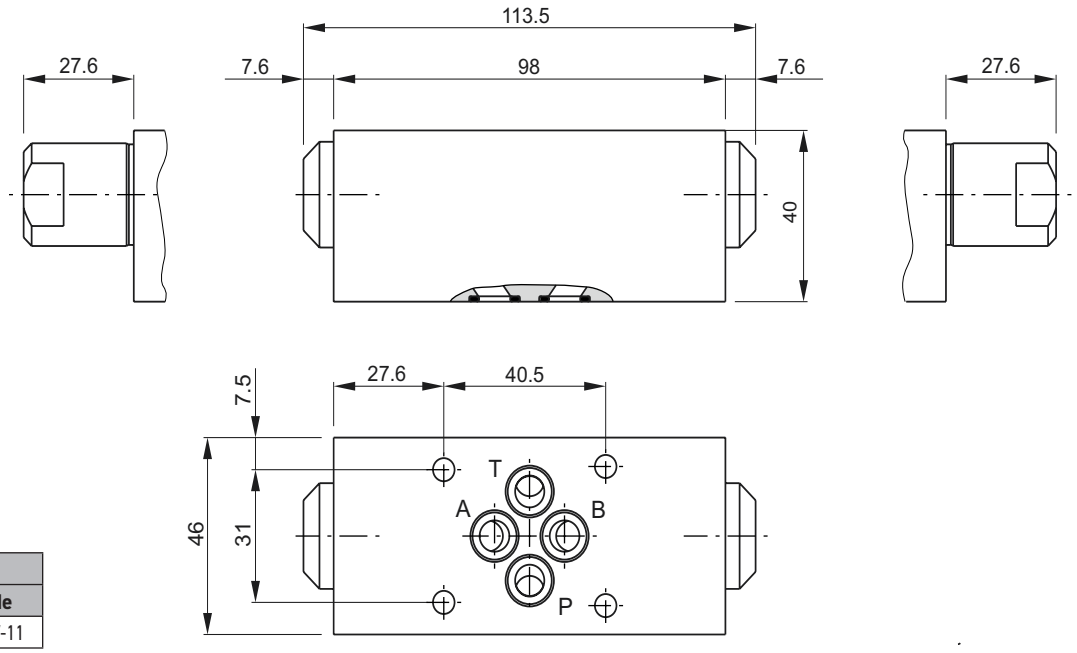


All characteristic curves measured with oil viscosity 33.0 mm²/s (cSt)

CPOM2 (type HT)

High performance series

Pressure code 70 **Standard and pressure code 25** **Pressure code 70**

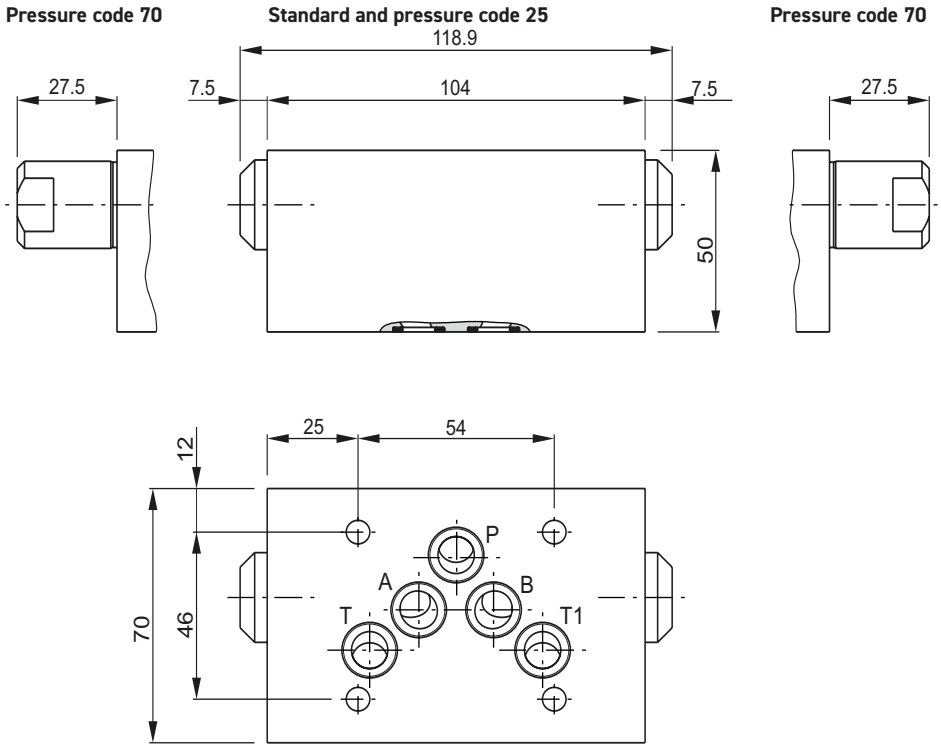


Seal kit CPOM2	
Seal	**Order code**
V	SK-CPOM2-V-11

CPOM3 (type HT)

High performance series

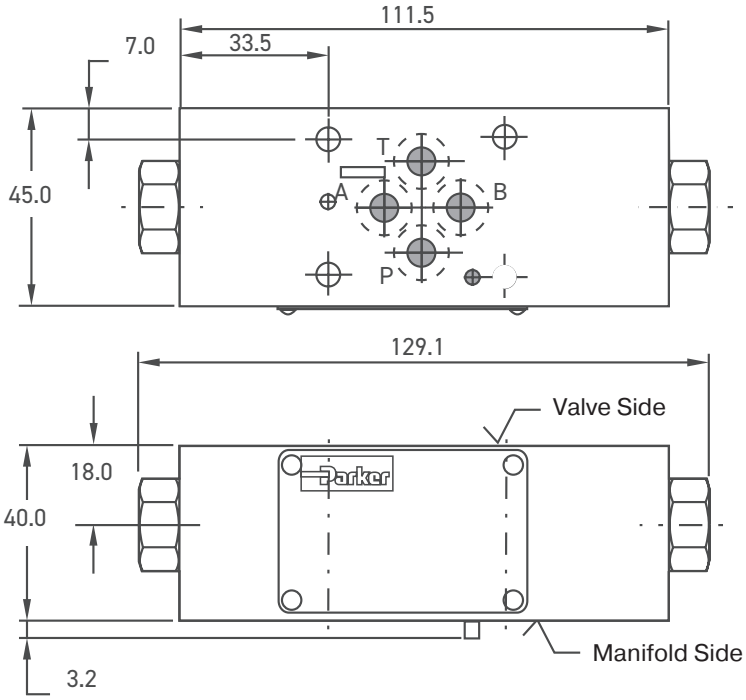
Pressure code 70 **Standard and pressure code 25** **Pressure code 70**



Seal kit CPOM3	
Seal	**Order code**
V	SK-CPOM3-V-11

CPOM2

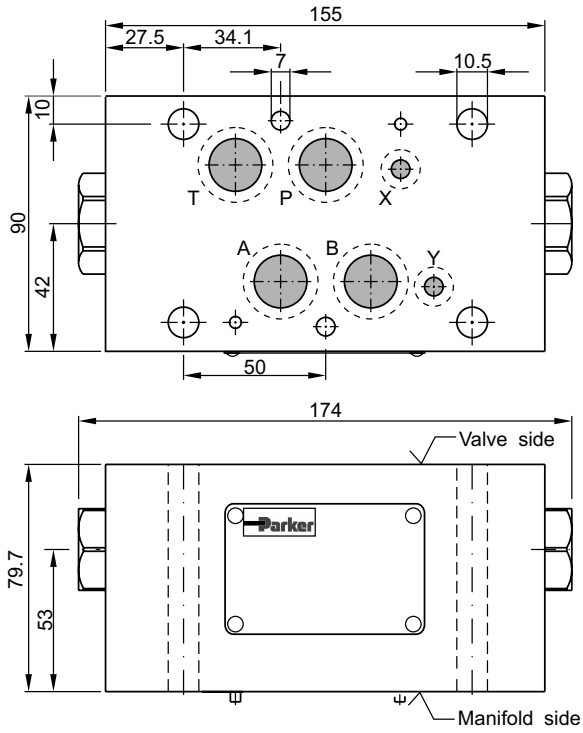
Standard performance



Seal kit CPOM2	
Seal	**Order code**
V	SK-CPOM2-V-11

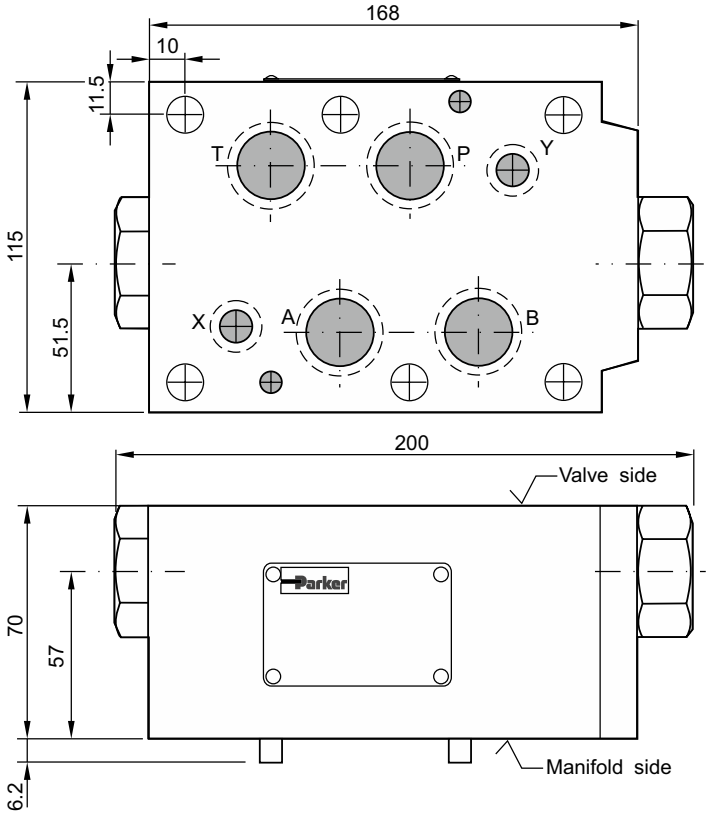
7

CPOM4



Seal kit CPOM4	
Seal	**Order code**
V	SK-CPOM4HTV

CPOM6



Seal kit CPOM6	
Seal	**Order code**
V	SK-CPOM6-V-20