

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.

Function

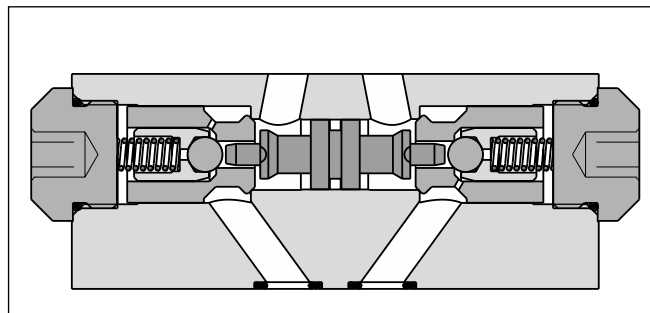
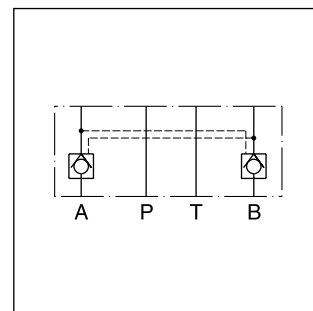
The check valves open when flowing to the consumer side, where the opposing check valve is hydraulically-mechanically pilot operated simultaneously by a control spool, and thus the return flow is enabled from other consumer sides.

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.
- Pre-opening for CPOM*HT to achieve smooth opening.



CPOM3



Ordering code

With pre-opening

High performance series

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							Code	Options
2	NG06							omit	without coating
3	NG10							1P	ZnNi coating ¹⁾
Code	Connection							Code	Pressure
AA	only A							omit	Standard
BB	only B							25	2.5 bar
DD	A and B							70	7.0 bar

With pre-opening

High performance series

High performance series

CPOM

Hydraulically operated check valve

4

Size NG16

Poppet style

HT

Pilot ratio 13:1

V

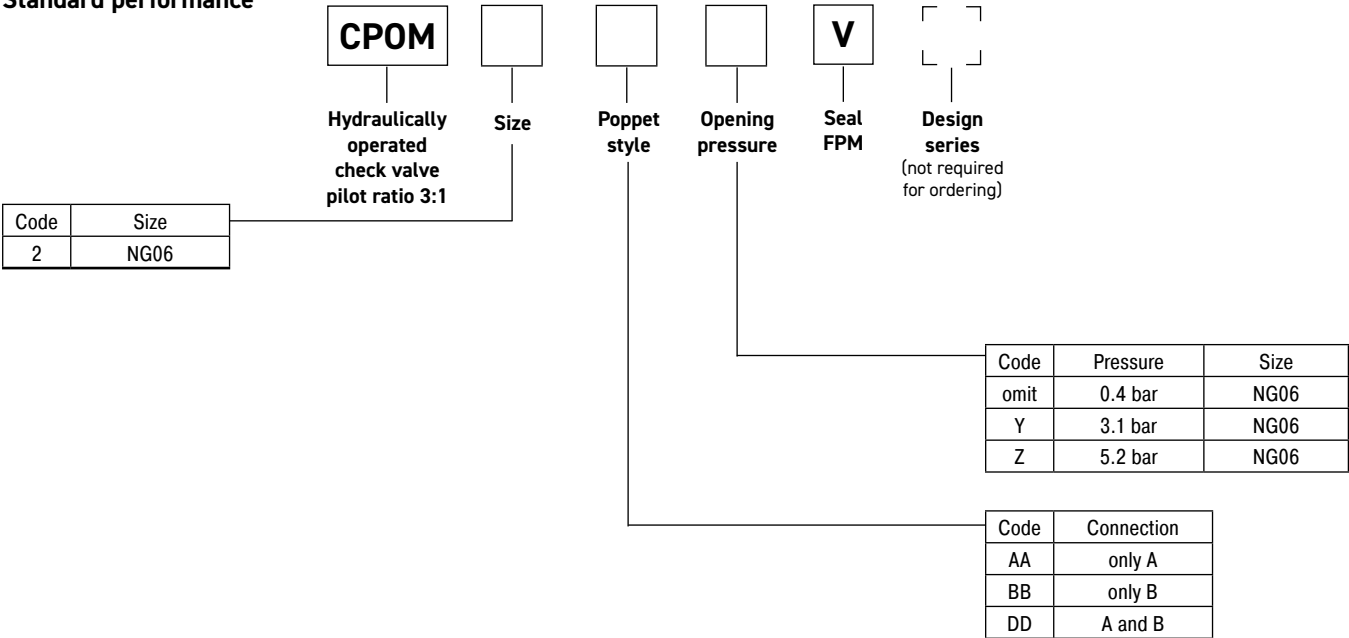
Seal FPM

Design series
(not required for ordering)

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

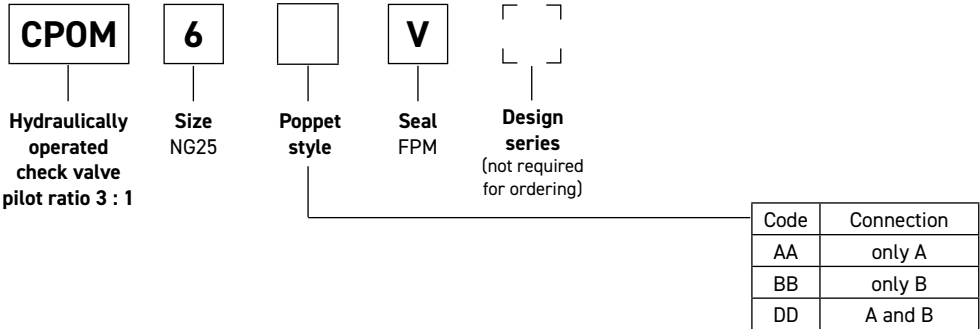
¹⁾ On request.

Without pre-opening
Standard performance



7

Without pre-opening

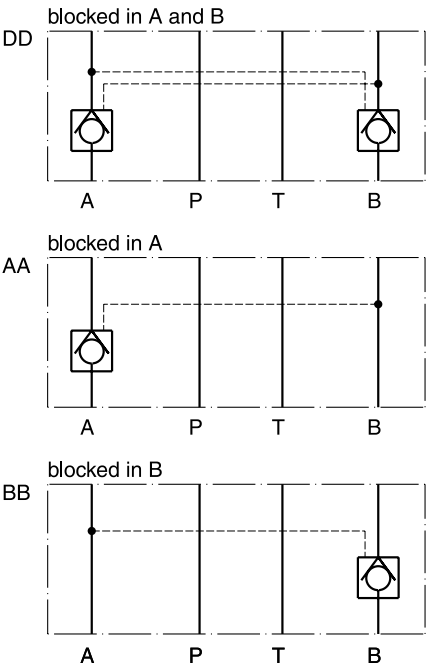


Technical data

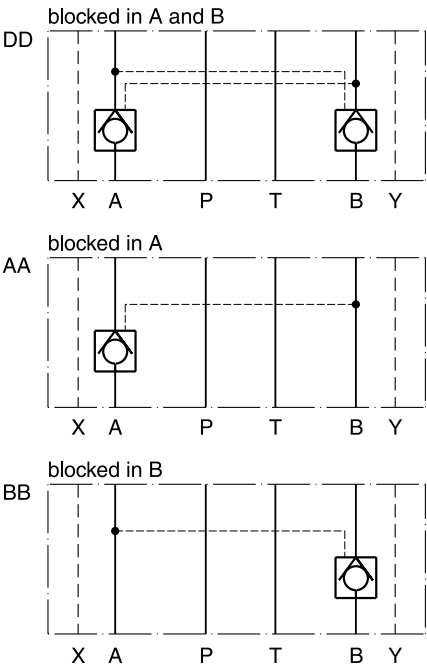
General					
Series		CPOM2	CPOM3	CPOM4	CPOM6
Nominal size		NG06	NG10	NG16	NG25
Mounting interface		ISO 4401			
Ambient temperature	[°C]	-20...+70			
MTTF _D value	[years]	150			
Weight	[kg]	1.2 (HT) / 1.8	3.1	7.65	9.5
Hydraulic					
Max. operating pressure	[bar]	350	350	350	210
Standard opening pressure	[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	20...400			
	recommended	30...80			
Filtration		ISO 4406; 18/16/13			

Schematics

CPOM2 / CPOM3

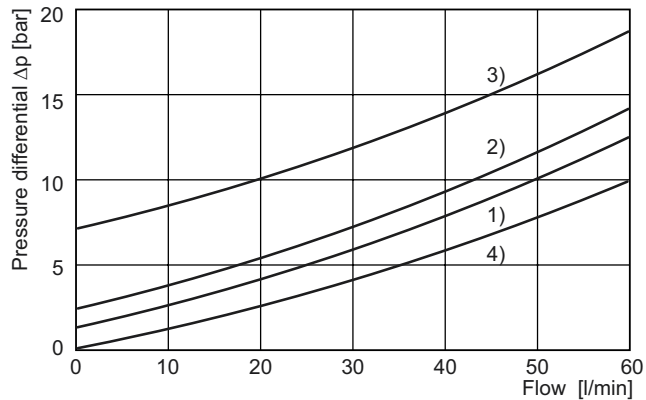


CPOM4 / CPOM6



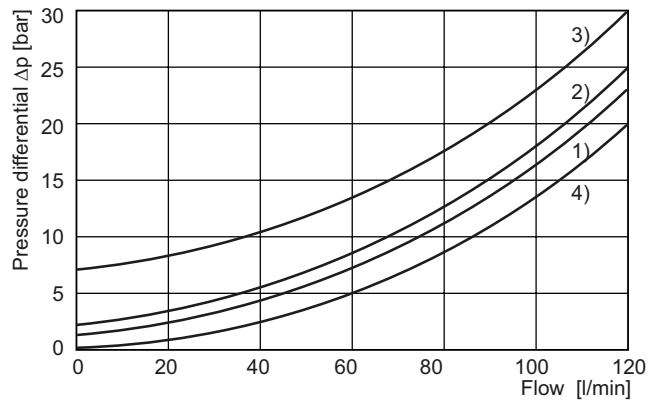
$\Delta p/Q$ performance curves

CPOM2 (type HT)



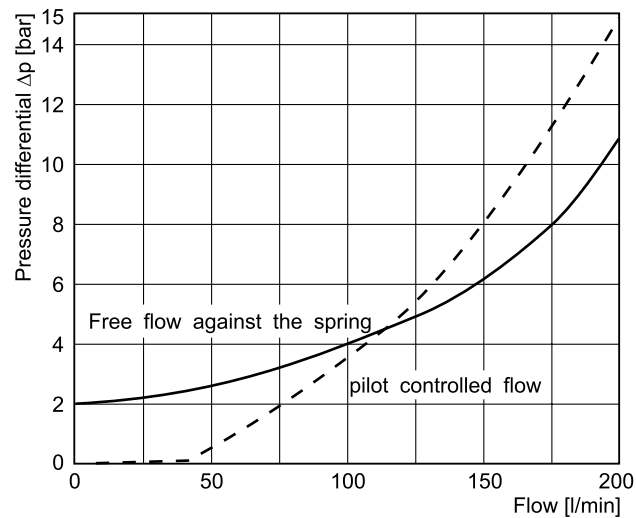
- 1) 1.5 bar
 2) 2.5 bar
 3) 7.0 bar
- 4)

CPOM3 (type HT)

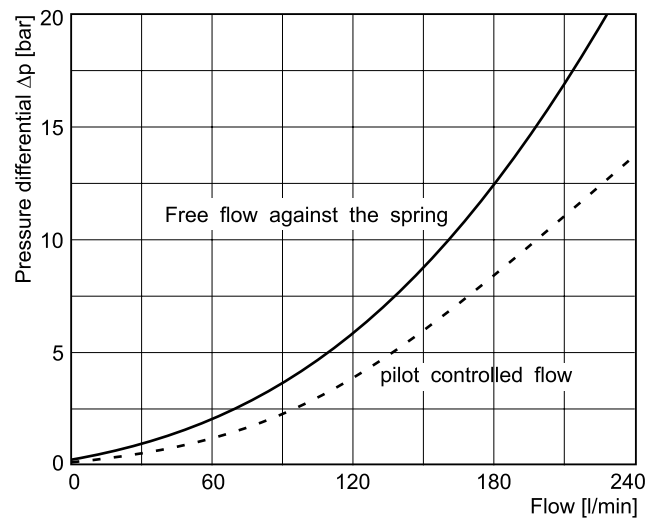


- 1) 1.5 bar
 2) 2.5 bar
 3) 7.0 bar
- 4)

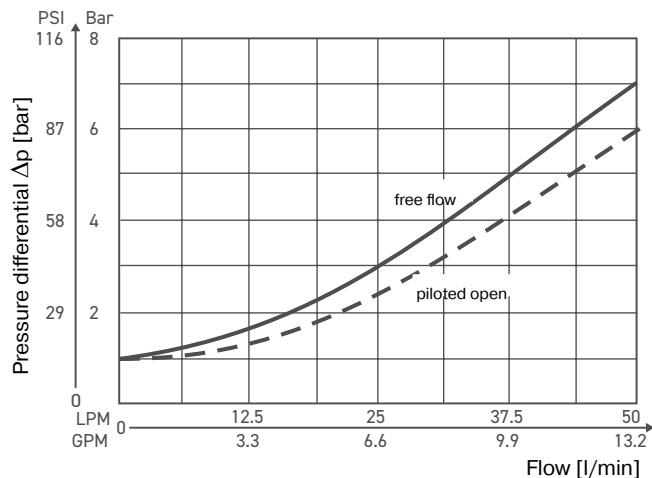
CPOM4 (type HT)



CPOM6



CPOM2



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

Dimensions

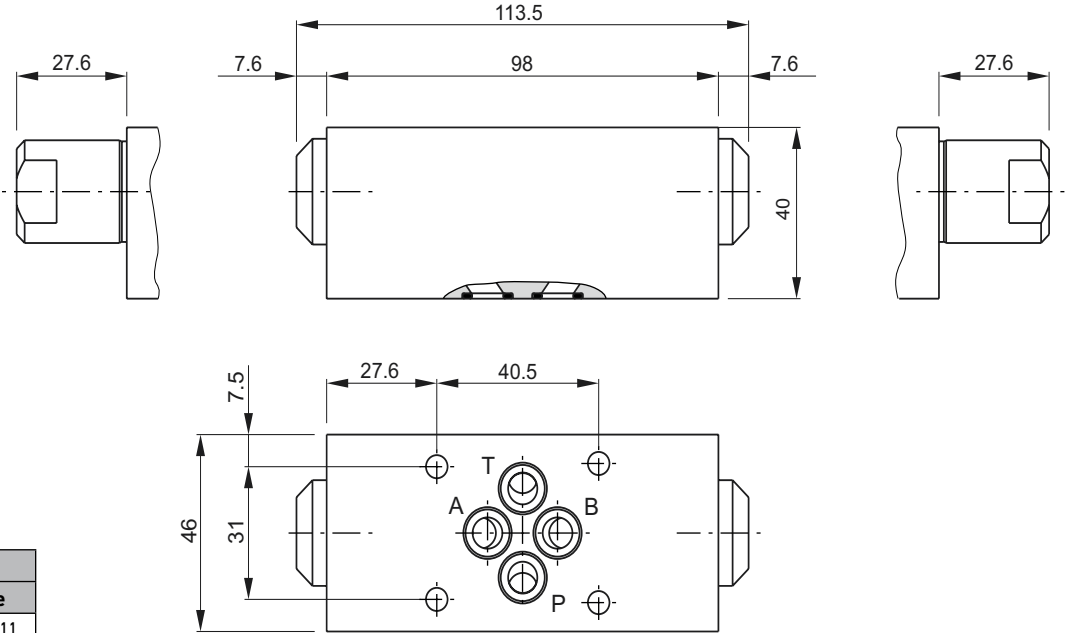
Pilot Operated Check Valve
Series CPOM

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

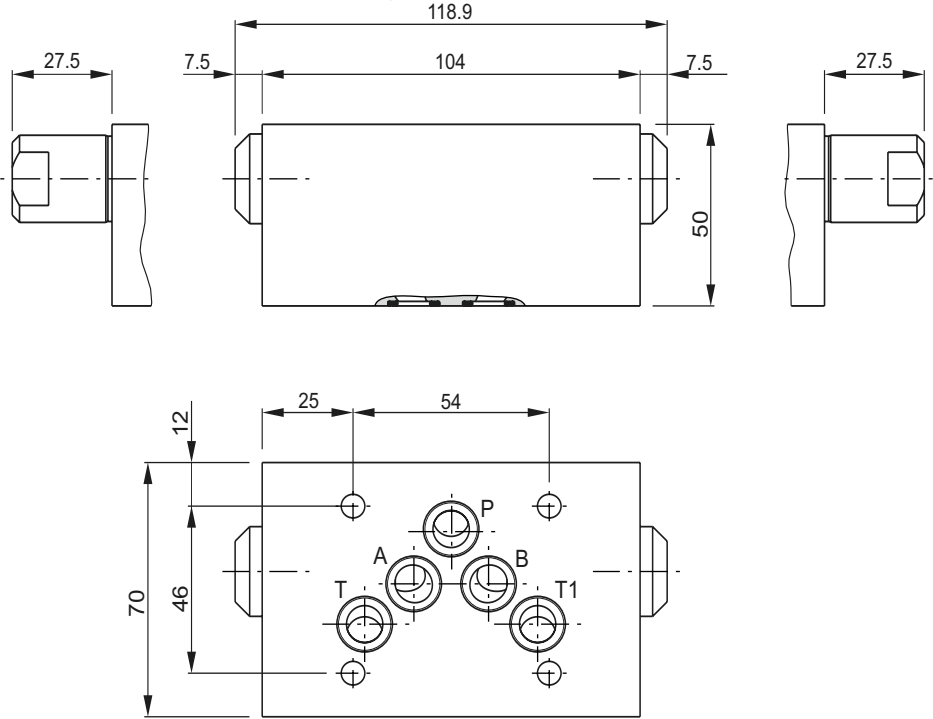
CPOM3 (type HT)

High performance series

Pressure code 70

Standard and pressure code 25

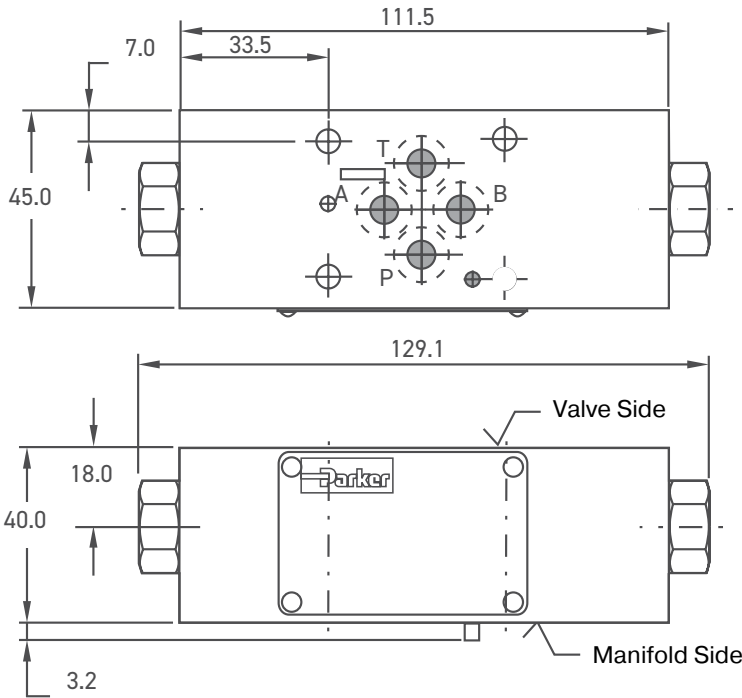
Pressure code 70



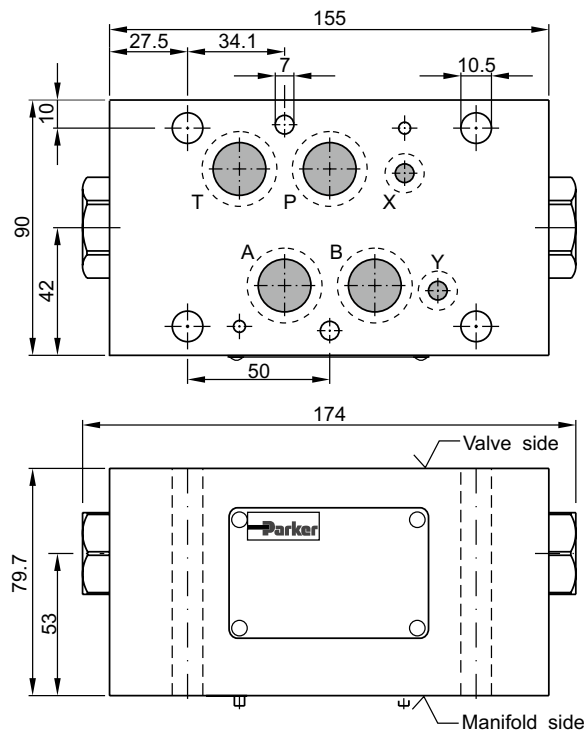
Seal kit CPOM3	
Seal	Order code
V	SK-CPOM3-V-11



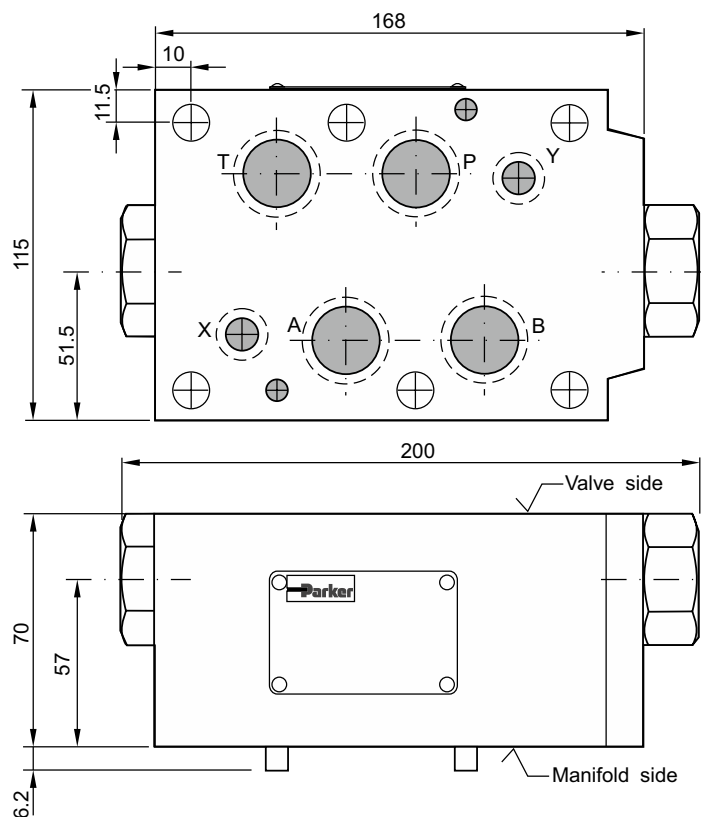
CPOM2
Standard performance



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

CPOM4

Seal kit CPOM4	
Seal	Order code
V	SK-CPOM4HTV

CPOM6

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

