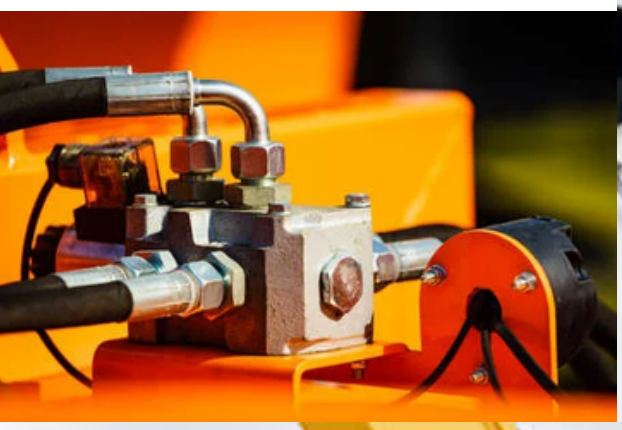


HYDRAULIC VALVES

TRIDENT PRECISION INTERNATIONAL

151, SECTOR-06,IMT MANESAR, GURGAON,HARYANA

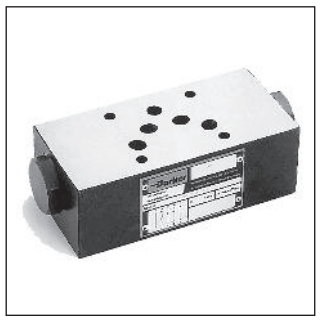
122050

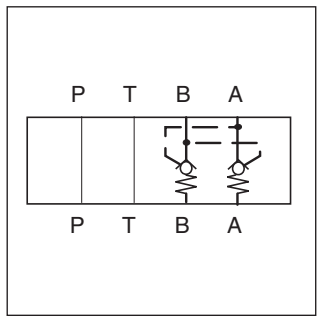
0124-4101151 WWW.TRIDENTPRECISION.IN sales@tridentprecision.in

Characteristics

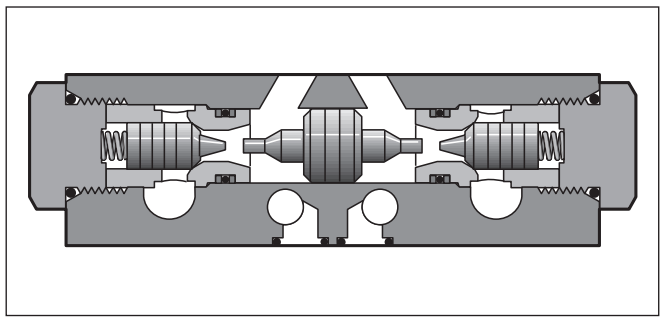
Pilot-Operated Check Valve
Series CPOM

Pilot-operated check valves from the Parker Manapak series CPOM are sandwich plate valves designed for stacking beneath a directional valve with a standardised mounting pattern. 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

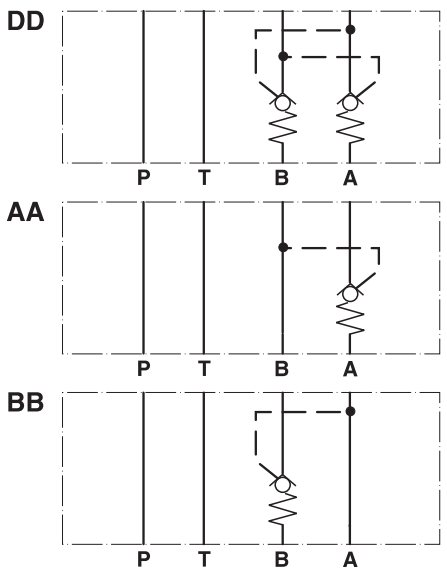
- The valve bodies of the Parker Manapak valve series CPOM are made of steel.
- The valve poppet is precisely guided into the steel sleeve and ensures a good seal on the seat. This metallic sealing configuration is subject to the criteria as a result of metallic line contact and operational wear.
- When the valve poppet is open, the large cross-section allows high flow rates at low differential pressure.
- Different control ratios can be chosen with the NG6 and NG10 valves.

Characteristics

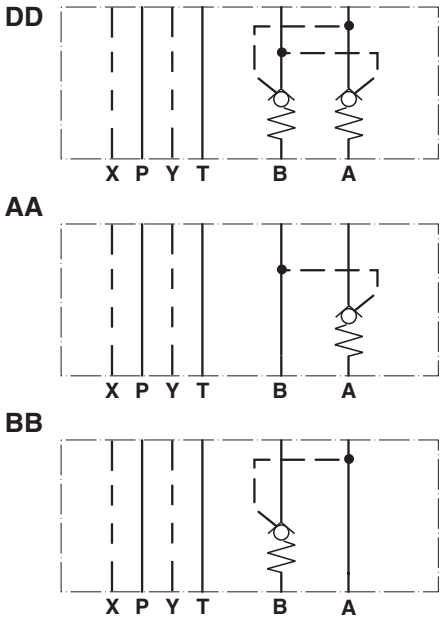
Port size	DIN	NG6	NG10	NG16	NG25
Mounting pattern		ISO 4401			
Series		**CPOM2**	**CPOM3**	**CPOM4**	**CPOM6**
Working pressure		350 bar	350 bar	350 bar	210 bar
Opening pressure		1.0 bar	0.8 bar	0.5 bar	0.4 bar
Control ratio		1 : 3 or 1 : 7	1 : 3 or 1 : 6.5	1 : 2.4	1 : 3
Weight [kg]		1.8	4.0	7.4	9.5

7

CPOM2 / CPOM3



CPOM4 / CPOM6



CPOM.PMD CM

Parker Hannifin GmbH & Co. KG
Hydraulic Controls Division
Kaarst, Germany

Without pre-opening

CPOM				V	
Hydraulically operated check valve pilot ratio 3 : 1	Size	Poppet style	Cracking pressure	Seal FPM	Design series

Code	Size
2	**NG6**
3	**NG10**
6	NG25

Code	Pressure	Size
omit	1.0 bar	2, 3, 6
25	2.5 bar	2 and 3
50	5.0 bar	
70	7.0 bar	2

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

With pre-opening

CPOM			HT	V	
Hydraulically operated check valve	Size	Poppet style	Pilot ratio	Seal FPM	Design series

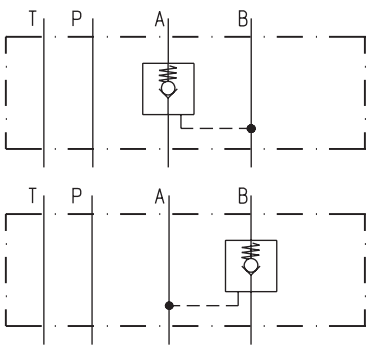
Code	Size
2	**NG6**
3	**NG10**
4	NG16

Code	Size	ratio
HT	2	7 : 1
	3	6.5 : 1
	4	13 : 1

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

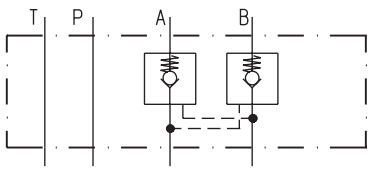
Bold letters =
Short-term availability

Switch code

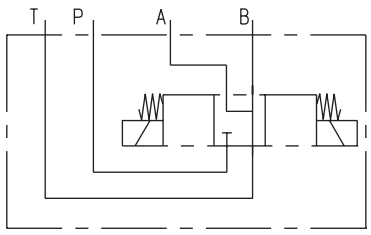


"A"

"B"



"C"

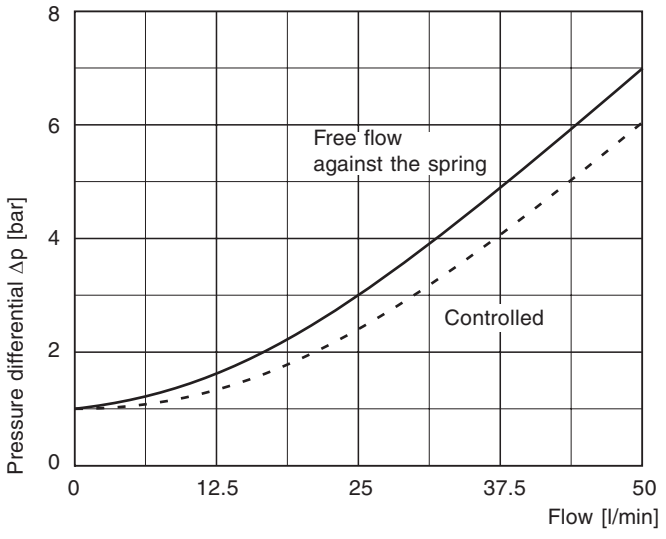


CPOM.PMD CM

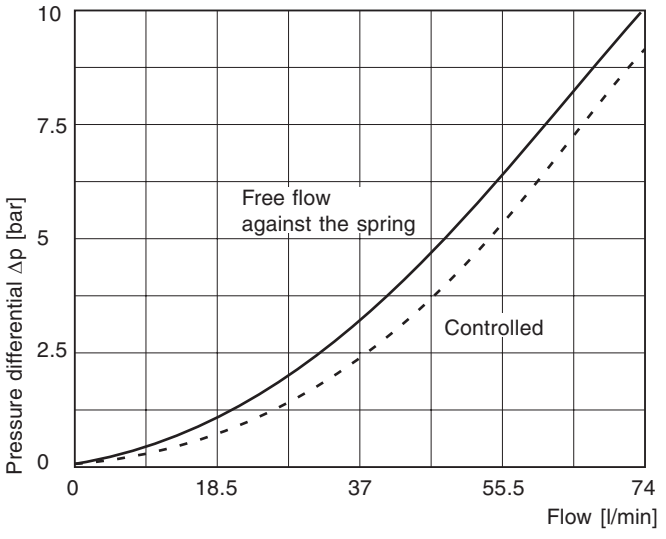
Parker Hannifin GmbH & Co. KG
Hydraulic Controls Division
Kaarst, Germany

Δp/Q performance curves

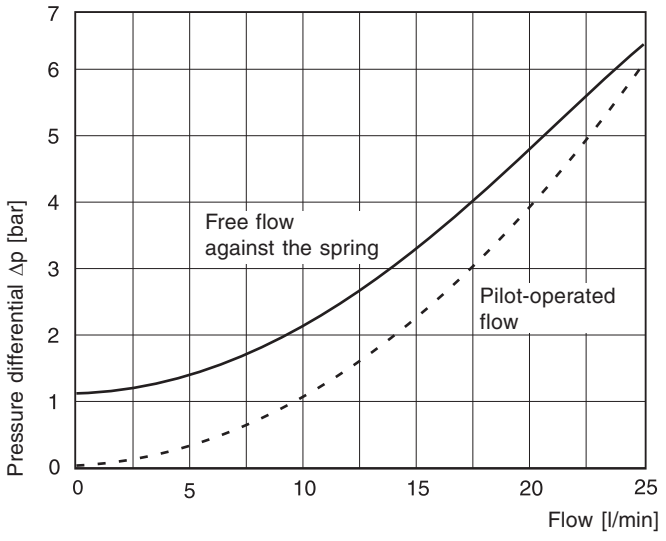
CPOM2



CPOM3



CPOM2 (type HT)



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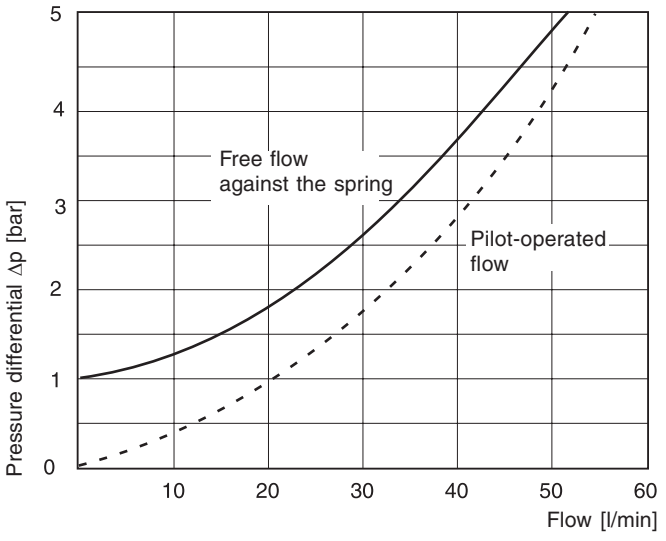
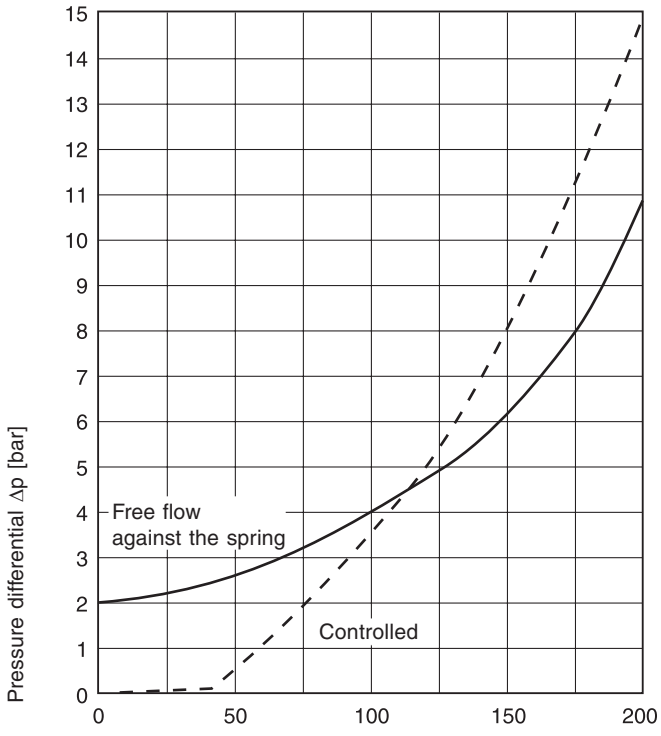


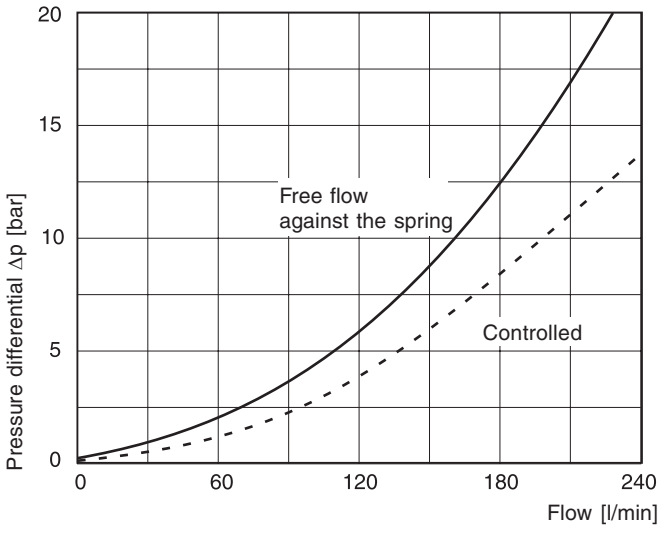
7

Δp/Q performance curves

CPOM4 (type HT)



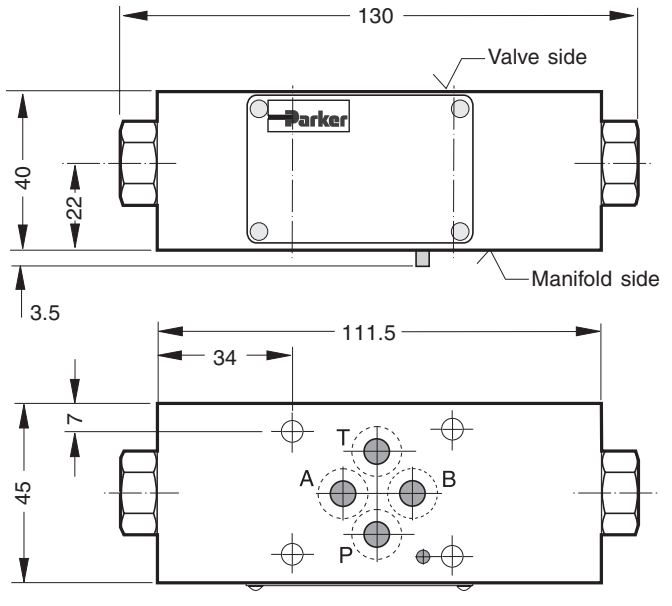
CPOM6



CPOM2

Note:

The O-rings for sealing the connecting surface of the manifold side are included. The O-rings and positioning pins are always mounted on the manifold side.

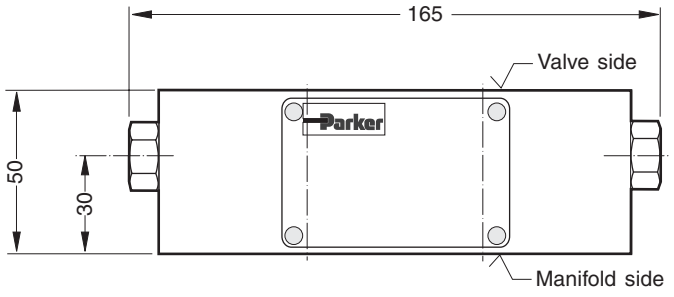


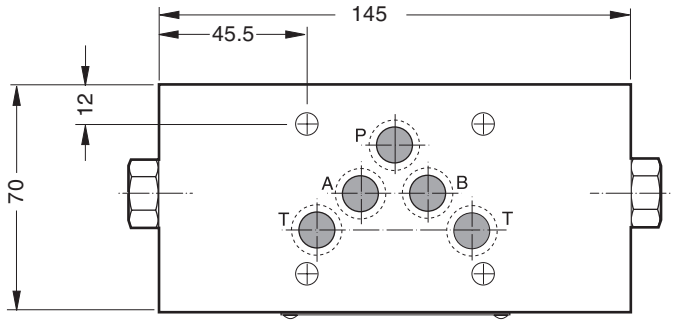
Seal kit CPOM2		
Control ratio	Seal	Order code
HT	V	SK-CPOM2-V-11

CPOM3

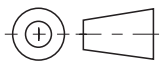
Note:

The O-rings for sealing the connecting surface of the manifold side are included. The O-rings and positioning pins are always mounted on the manifold side.





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

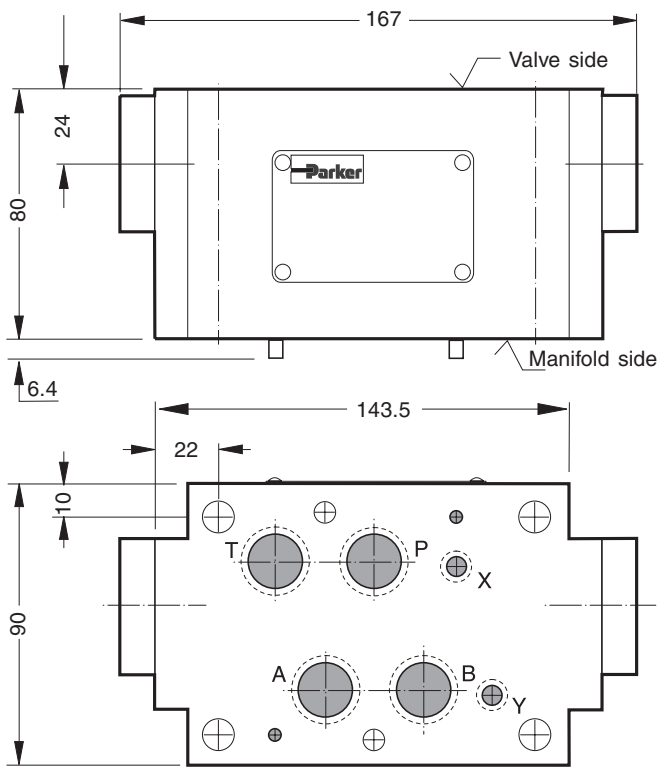


CPOM.PMD CM

CPOM4

Note:

The O-rings for sealing the connecting surface of the manifold side are included. The O-rings and positioning pins are always mounted on the manifold side.

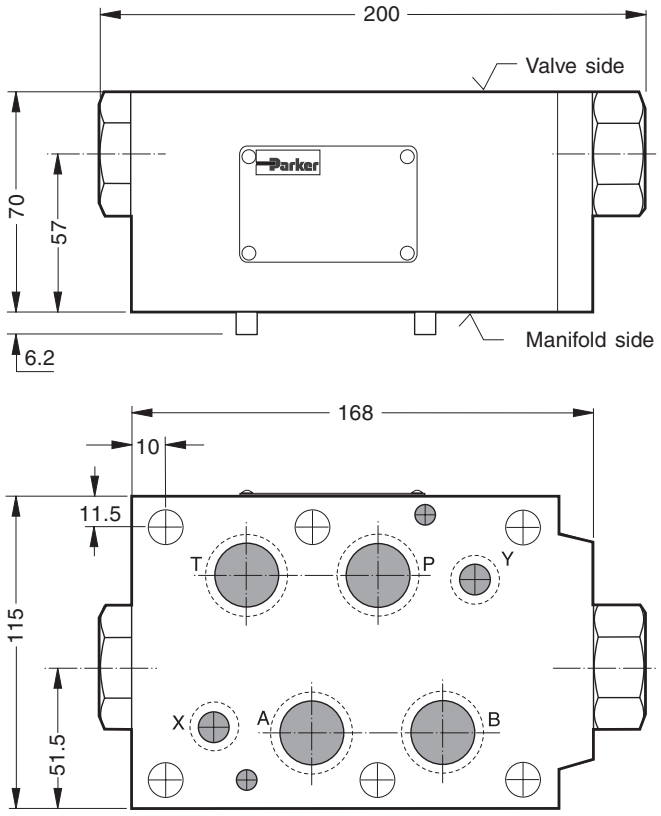


Seal kit CPOM4	
Seal	Order code
V	SK-CPOM4HTV

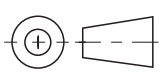
CPOM6

Note:

The O-rings for sealing the connecting surface of the manifold side are included. The O-rings and positioning pins are always mounted on the manifold side.



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



CPOM.PMD CM