

Pilot operated check valves from the Parker Manapak 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

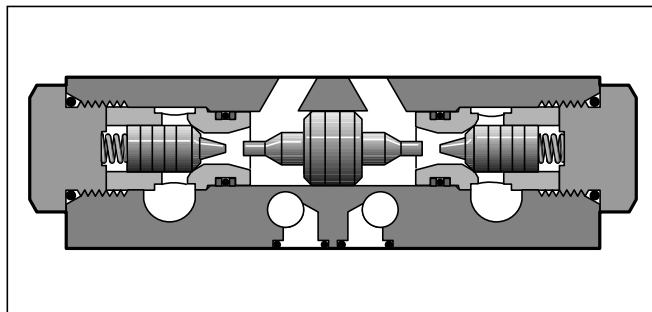
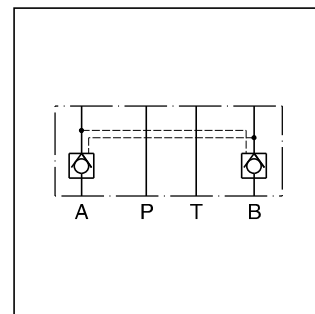
The check valves open when flowing to the consumer side, where the opposing check valve is hydraulically-mechanically pilot operated simultaneously by a control spool, and thus the return flow is enabled from other consumer sides.

Features

- The valve bodies of the Parker 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.
- 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.
- Pre-opening for CPOM*HT to achieve smooth opening.



CPOM3



Ordering code

Without pre-opening

Code	Size
2	NG06
3	NG10
6	NG25

CPOM
Hydraulically operated check valve
pilot ratio 3 : 1

Size

Poppet style

Opening pressure

Seal FPM

Design series
(not required for ordering)

Code	Pressure	Size
omit	1.0 bar	NG06/10/25
25	2.5 bar	NG06
50	5.0 bar	NG06
70	7.0 bar	NG06

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

With pre-opening

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

CPOM
Hydraulically operated check valve

Size NG16

Poppet style

Pilot ratio 13:1

Seal FPM

Design series
(not required for ordering)

**Bold letters =
Short-term availability**

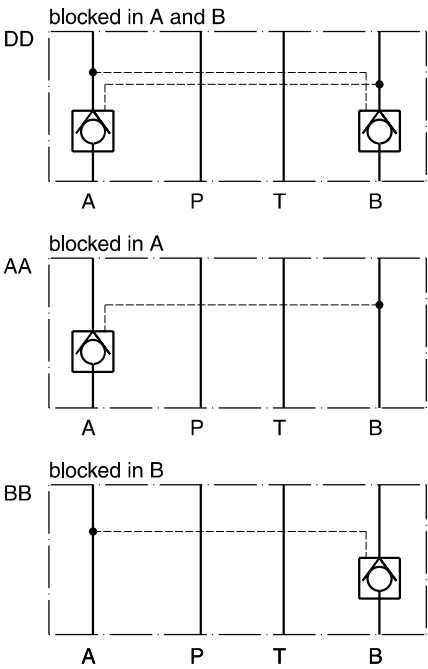
CPOM UK.INDD CM 03.06.13

Technical data

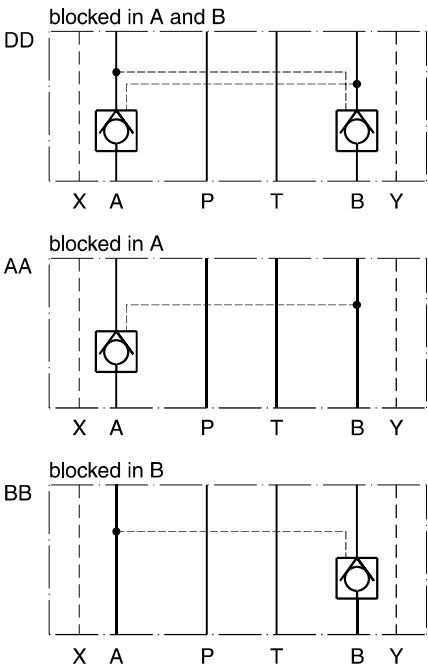
General						
Series			CPOM2	CPOM3	CPOM4	CPOM6
Nominal size			NG06	NG10	NG16	NG25
Mounting interface			ISO 4401			
Ambient temperature [°C]			-20...+50			
MTTF _D value [years]			150			
Weight [kg]			1.8	4.0	7.65	9.5
Hydraulic						
Max. operating pressure [bar]			350	350	350	210
Opening pressure [bar]			1.0	0.8	2.0	0.4
Opening ratio			1 : 3	1 : 3	1 : 13	1 : 3
Leakage			on request			
Fluid			Hydraulic oil according to DIN 51524...51525			
Fluid temperature [°C]			-20...+80			
Viscosity	permitted	[cSt] / [mm²/s]	10...650			
	recommended	[cSt] / [mm²/s]	30			
Filtration			ISO 4406 (1999); 18/16/13			

Schematics

CPOM2 / CPOM3

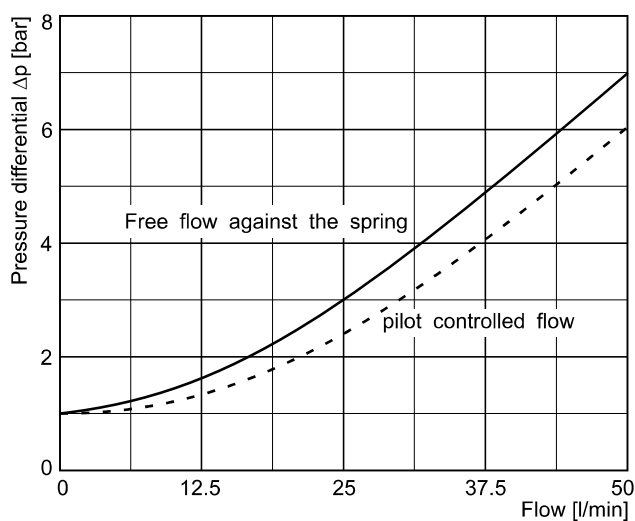


CPOM4 / CPOM6

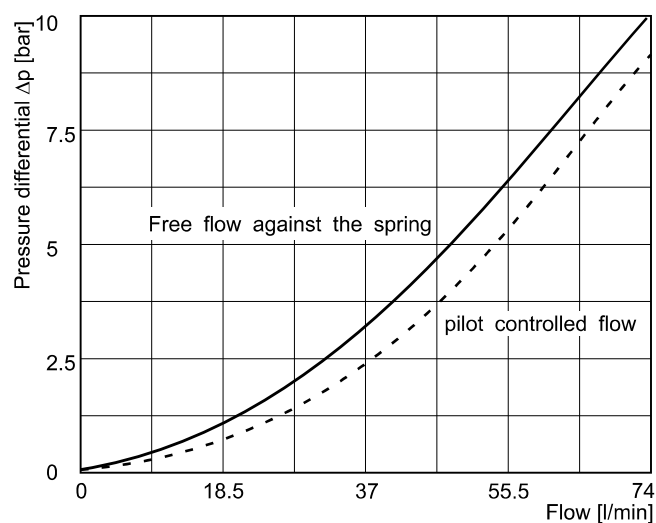


$\Delta p/Q$ performance curves

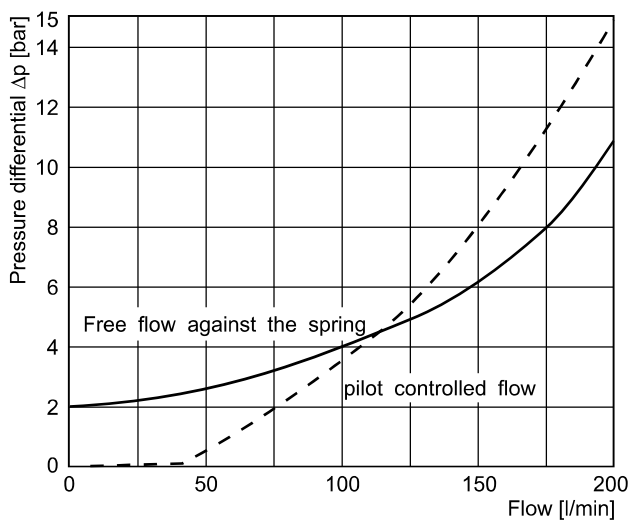
CPOM2



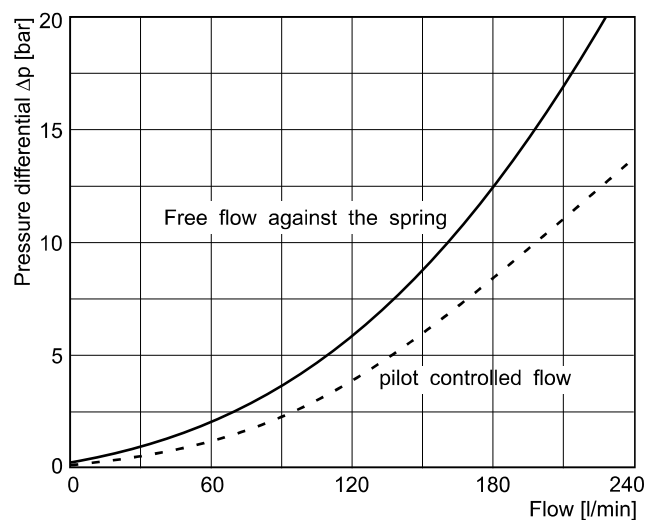
CPOM3



CPOM4 (type HT)

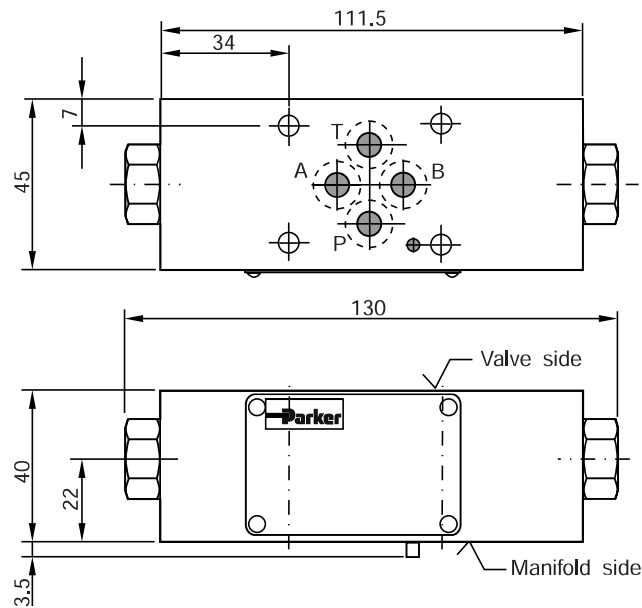


CPOM6



All characteristic curves measured with HLP46 at 50 °C.

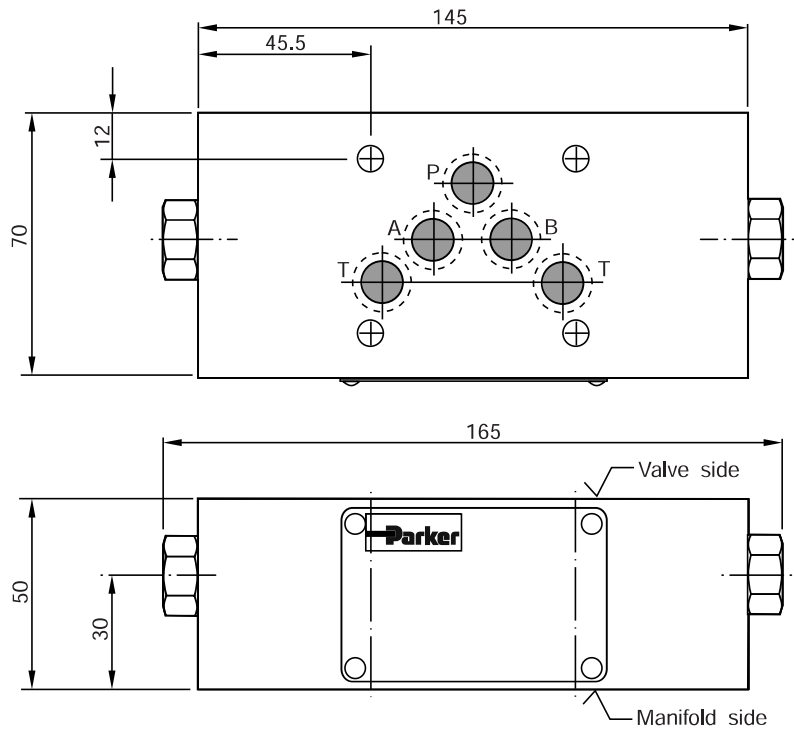
CPOM2



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

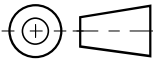
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CPOM3

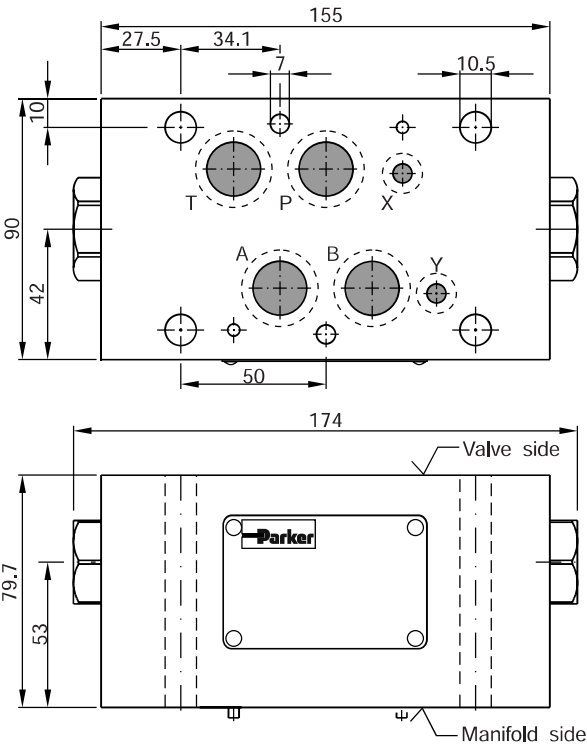


Seal kit CPOM3	
Seal	Order code
V	SK-CPOM3-V-11

Note:
The O-ring plate for sealing the connecting surface of the manifold side is included. The O-ring plate and the positioning pin are always mounted on the manifold side.

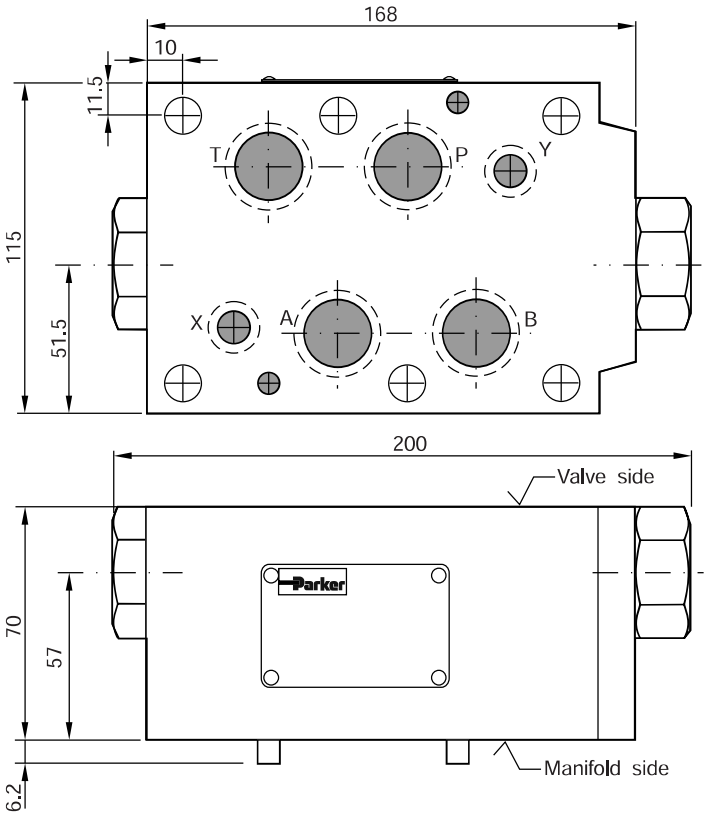


CPOM4



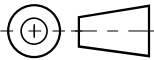
Seal kit CPOM4	
Seal	Order code
V	SK-CPOM4HTV

CPOM6



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

Note:
The O-ring plate for sealing the connecting surface of the manifold side is included. The O-ring plate and the positioning pin are always mounted on the manifold side.



Pilot operated check valves series ZRE are designed for maximum flow rates and long life time.

The valves are typically used in combination with spool type directional control valves to ensure nearly leak free positioning of the actuator.

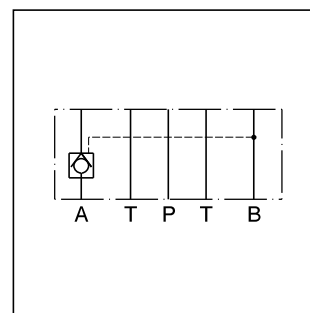
The inlet flow is free while the outlet flow is blocked. Pressure in the inlet line opens the check valve and allows free outlet flow.

Features

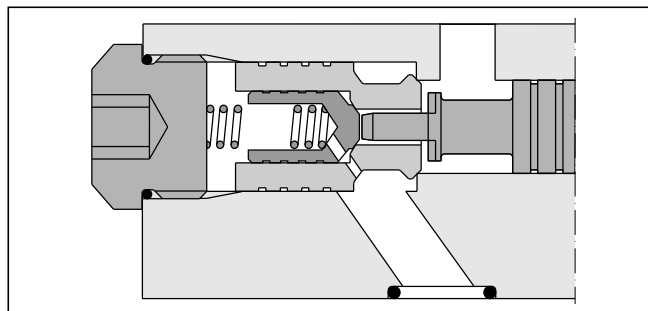
- High flow capacity
- High life time
- Check function in A, B or A + B
- ZRE01 - NG06 (CETOP 03)
- ZRE02 - NG10 (CETOP 05)



ZRE-B01

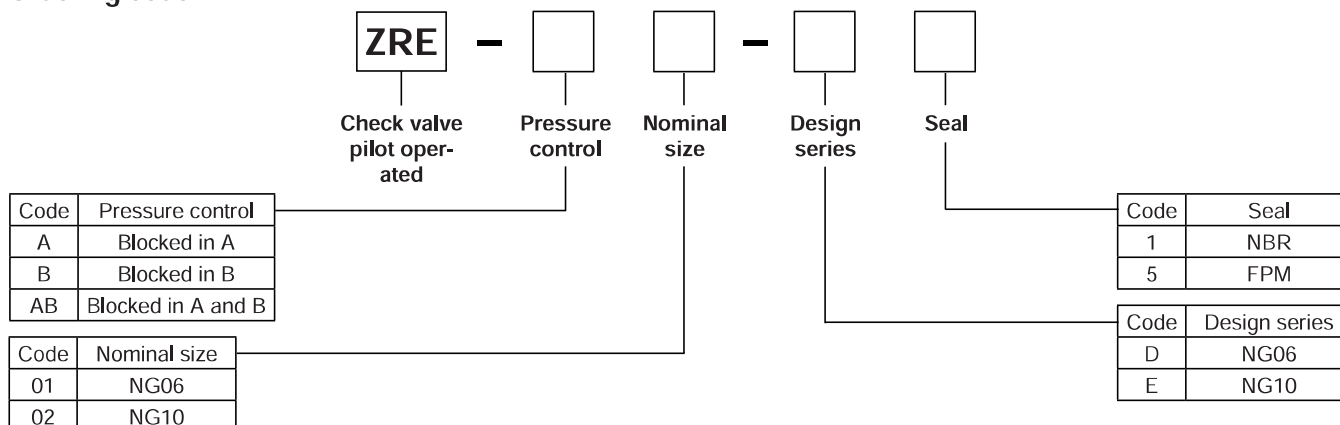


ZRE-A02



ZRE-A02

Ordering code



Ordering code details see end of chapter.

Technical data

General			
Size		NG06	NG10
Mounting interface		DIN 24340 A6 ISO 4401 NFA D03	DIN 24340 A10 ISO 4401 NFA D05
		CETOP RP 121	
Mounting position		unrestricted	
Ambient temperature	[°C]	-20...+50	
MTTF _D value	[years]	150	
Weight	[kg]	1.2	3.1
Hydraulic			
Max. operating pressure	[bar]	up to 350	315
Nominal flow	[l/min]	60	120
Opening ratio (pilot cone / main cone)		1:6	1:6
Opening pressure	[bar]	1.2	2.0
Leakage		on request	
Fluid		Hydraulic oil according to DIN 51524...51525	
Fluid temperature	[°C]	-20...+80	
Viscosity	permitted	[cSt]/[mm²/s] 10...650	
	recommended	[cSt]/[mm²/s] 30	
Filtration		ISO 4406 (1999); 18/16/13	

ZRE UK.INDD CM 21.01.13