

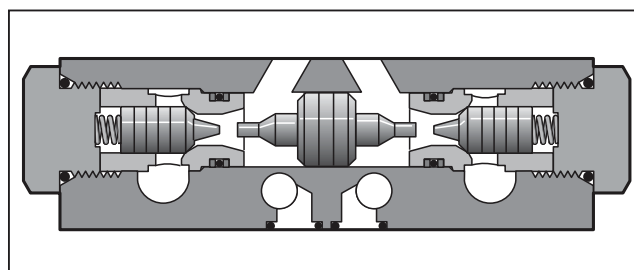
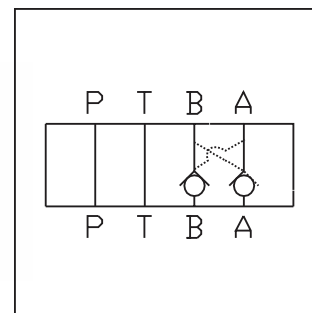
## General Description

Series CPOM double pilot operated check valves block leakage from the actuator ports to tank when the directional valve is in the center position.

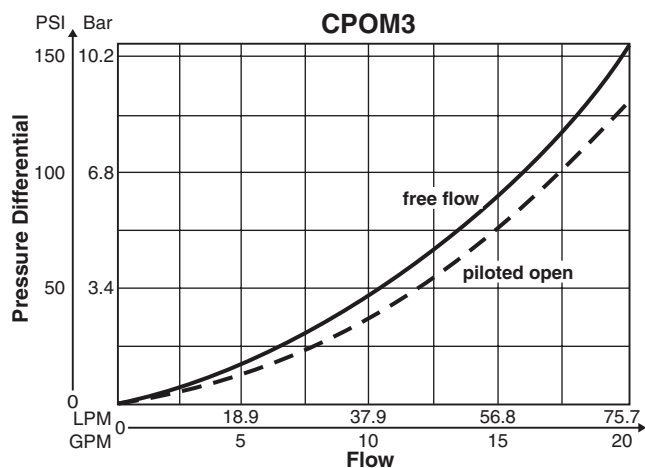
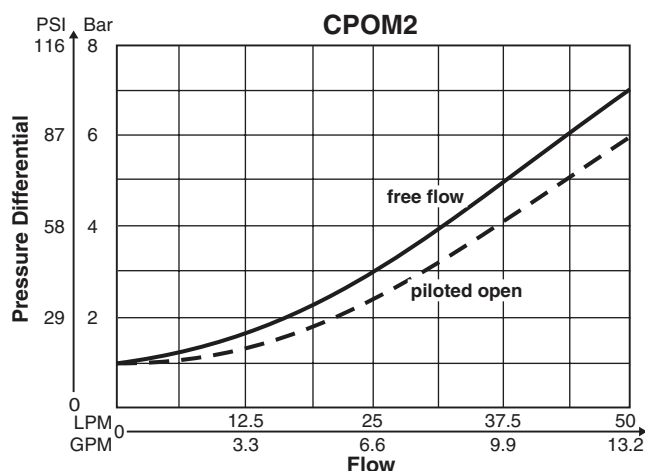
**NOTE:** For max. response and shut off, a directional valve with both cylinder ports drained to tank in the center position is recommended for use with sandwich double pilot operated check valves.

## Features

- Parker CPOM sandwich style, p.o. check valves can be provided in either single or double configurations.
- The p.o. checks may be positioned in 'A' port or 'B' port; or both 'A' and 'B' ports.
- Valve bodies are manufactured from steel providing extra strength and durability for longer life. Internal hardened steel components also provide longer life.
- Positive shut-off is provided by a hardened poppet and cage assembly.
- Large internal flow paths allow high flow at low pressure drop.

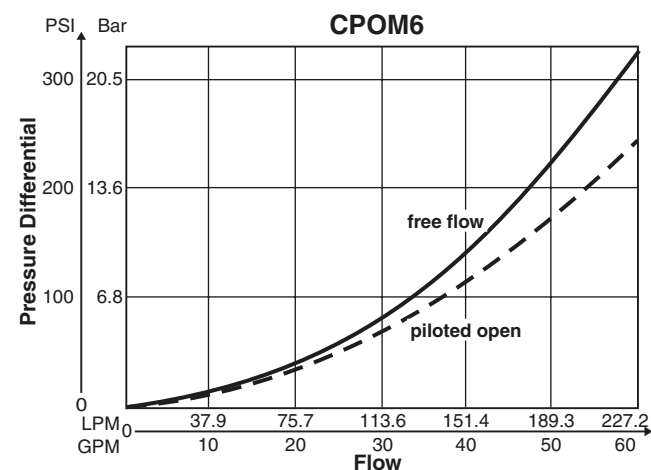


## Performance Curves



## Specifications

	CPOM2	CPOM3	CPOM6
<b>Mounting Pattern</b>	NFPA D03, CETOP 3, NG 6	NFPA D05, CETOP 5, NG 10	NFPA D08, CETOP 8, NG 25
<b>Maximum Pressure</b>	345 Bar (5000 PSI)	345 Bar (5000 PSI)	205 Bar (3000 PSI)
<b>Maximum Flow</b>	53 LPM (14 GPM) @ 21 Bar (305 PSI) Pressure Drop	76 LPM (20 GPM) @ 11 Bar (155 PSI) Pressure Drop	227 LPM (60 GPM) @ 24 Bar (350 PSI) Pressure Drop
<b>Cracking Pressure</b>	1.0 Bar (15 PSI)	0.3 Bar (5 PSI)	0.4 Bar (6 PSI)
<b>Pilot Ratio</b>	3:1	3:1	3:1
<b>Leakage</b>	5 DPM	5 DPM	5 DPM



Curves were generated using 100 SSU hydraulic oil. For any other viscosity, pressure drop will change as per chart.

### Viscosity Correction Factor

Viscosity (SSU)	75	150	200	250	300	350	400
Percentage of ΔP (Approx.)	93	111	119	126	132	137	141

**CPOM**

Pilot  
Operated  
Check Valve

Size

Poppet  
Style

Cracking  
Pressure

Seal

Design  
Series

NOTE:  
Not required  
when ordering.

Code	Description
<b>2</b>	<b>NFPA D03 Subplate Mounting</b>
<b>3</b>	<b>NFPA D05 Subplate Mounting</b>
<b>6</b>	<b>NFPA D08 Subplate Mounting</b>

Code	Description
<b>DD</b>	<b>Double Poppet A and B Ports</b>
<b>AA</b>	<b>A Port Only</b>
<b>BB</b>	<b>B Port Only</b>

Code	Type
<b>Omit**</b>	<b>5 PSI</b>
<b>Y*</b>	<b>45 PSI</b>
<b>Z*</b>	<b>75 PSI</b>

\* Available in size 2 only.

\*\* 15 PSI on CPOM2

Code	Type
<b>N</b>	<b>Nitrile</b>
<b>V</b>	<b>Fluorocarbon</b>

**Bold: Designates Tier I products and options.**

**Non-Bold: Designates Tier II products and options. These products will have longer lead times.**

#### Bolt Kits

Size "2"				Size "3"			
No. of Sandwich	Sandwich & Valve Combination	Bolt Kit	Bolt Length mm (in)	No. of Sandwich	Sandwich & Valve Combination	D3W-30 D3DW & D31*W*	Bolt Length mm (in)
1	Sandwich & D1	BK243	73.2 (2.88)	1	Sandwich & D3	BK141	88.9 (3.50)
2	Sandwich & D1	BK225	111.3 (4.38)	2	Sandwich & D3	BK142	139.7 (5.50)
3	Sandwich & D1	BK244	152.4 (6.00)	3	Sandwich & D3	BK143	190.5 (7.50)
4	Sandwich & D1	BK245	190.5 (7.50)	* D31VW with internal pilot and internal drain only.			
Size "6"							
No. of Sandwich	Sandwich & Valve Combination	Bolt Kit	Bolt Length mm (in)	Unit W			
1	Sandwich & D6	BK121	133.4 (5.25)	CPOM			
2	Sandwich & D6	BK122	203.2 (8.00)	CPOM			
3	Sandwich & D6	BK123	273.1 (10.75)	CPOM			
4	Sandwich & D6	BK124	342.9 (13.5)				

\* D31VW with internal pilot and internal drain only.

#### Unit Weight:

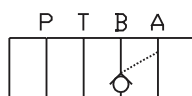
CPOM2D	0.8 kg (1.7 lbs.)
CPOM3D	4.4 kg (9.6 lbs.)
CPOM6D	9.5 kg (21.0 lbs.)

Bolt Kits must be ordered separately.

#### Schematics



AA Option

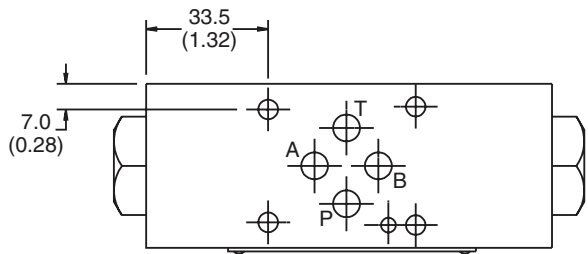


BB Option

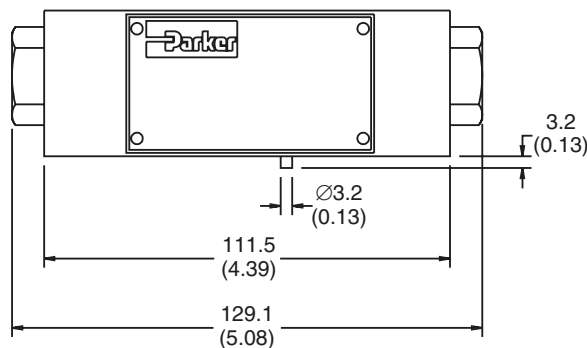


DD Option

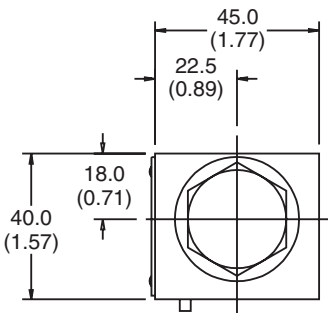
Inch equivalents for millimeter dimensions are shown in (\*\*)



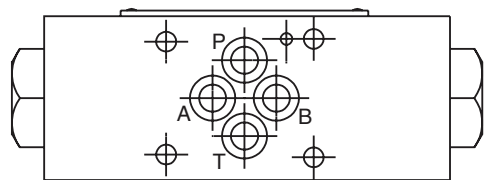
**Top View**



**Face View**



**End View**

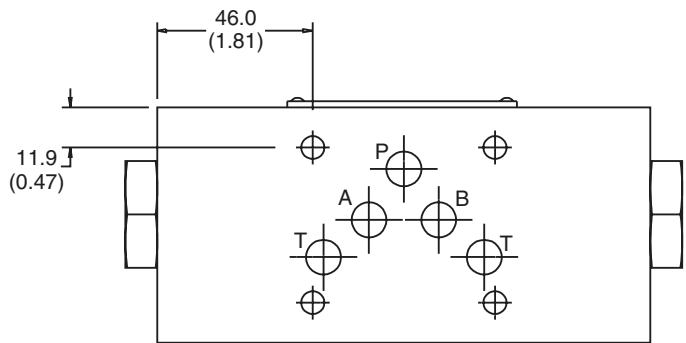


**Bottom View**

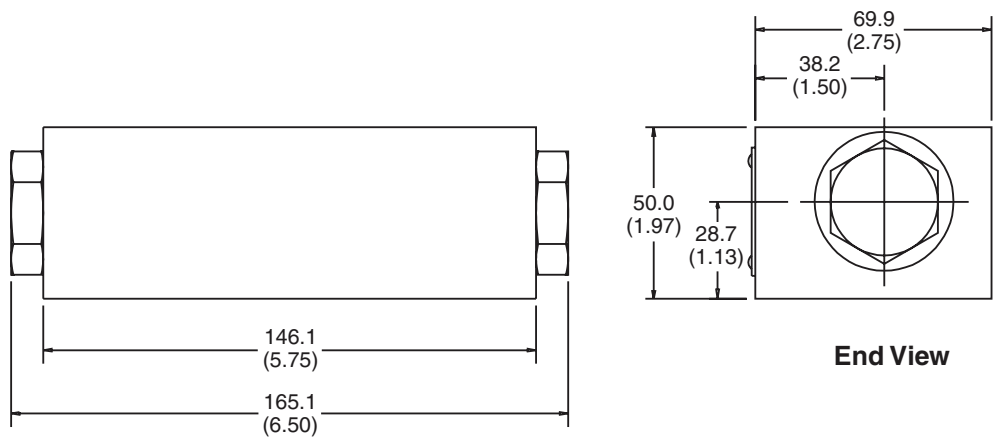


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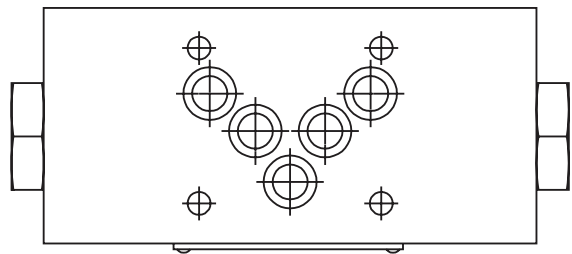
**B**



**Top View**



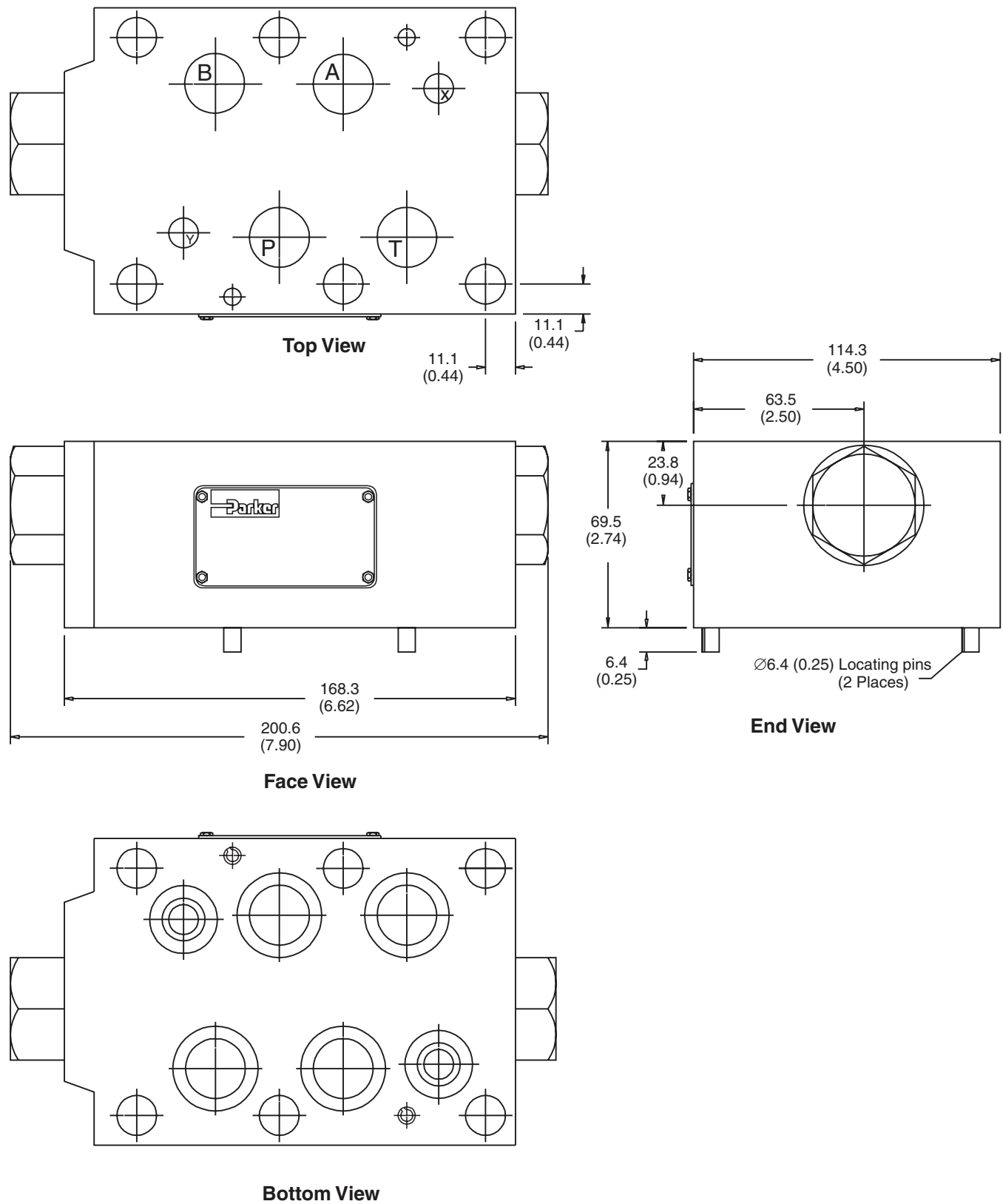
**End View**



**Bottom View**



Inch equivalents for millimeter dimensions are shown in (\*\*)

**B**