

# PPV Series

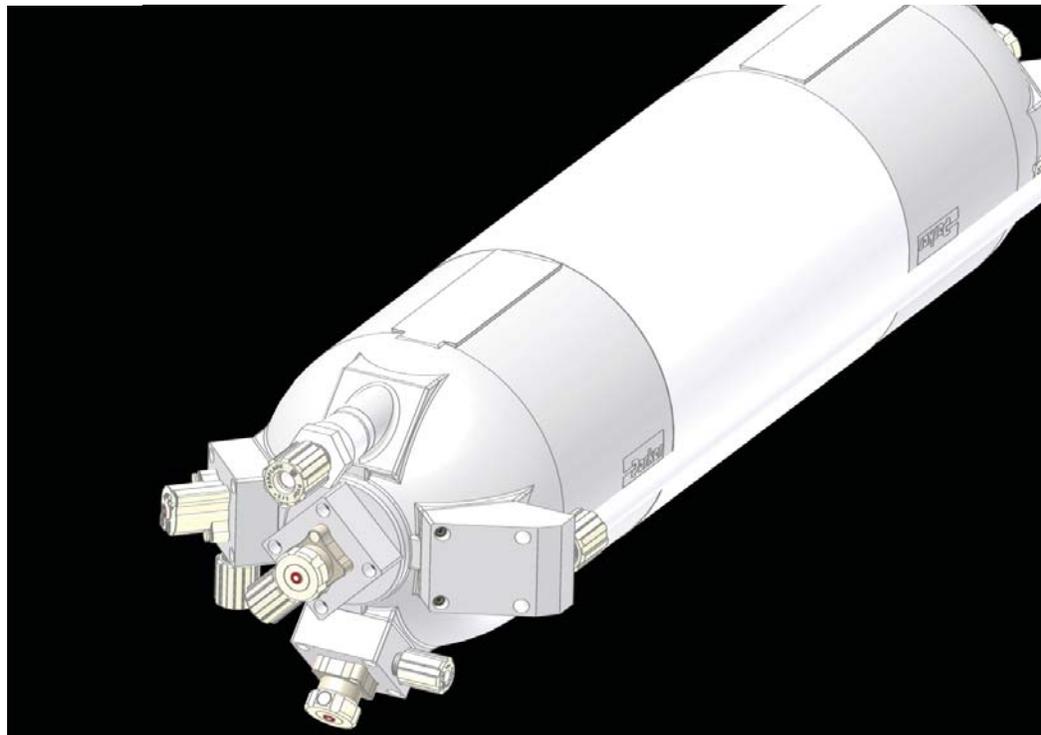
6" Diameter PFA Custom Pressure Vessels  
Patent Pending

aerospace  
climate control  
electromechanical  
filtration  
fluid & gas handling  
hydraulics  
pneumatics  
process control  
sealing & shielding

## Custom is Now Standard:

The Partek PFA Pressure Vessels are modular in design allowing for high levels of customization for chemical delivery systems. Our unique design provides 10 interface connection points plus 4 flat side pads for level sensing and vessel stabilizing.

Interface connection points can have fittings or valves attached directly or simply be used as a support base for the vessel. This design allows customers to adapt to their system requirements, reduce total part count, eliminate potential leak points, and minimize inventories.



## Contact Information:

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## Product Features:

- Developed for use in dispensing chemical delivery systems utilizing vacuum/pressurization techniques.
- 10 interface points allow valves and fittings to be connected directly to the vessel which reduces space and eliminates leak points.
- Modular design with standard components provides easy customization, shorter deliveries, minimizes inventories, reduced part count and improves system efficiency.
- 4 side interface points for level sensors and vessel stabilizing which enhances overall vessel functionality.
- Automated weld assembly process ensures high integrity fusible joints and weld uniformity.

ENGINEERING YOUR SUCCESS.

# PPV Series

## 6" Diameter PFA Custom Pressure Vessels

### Materials of Construction

Wetted Materials	PFA, Modified PTFE, PTFE
Non-Wetted Materials	PFA, PVDF, Viton, PVDF Coated SS Spring, Natural Polypro
Pipe Outside Diameter	6.60 inches (167.64 mm)
Pipe Wall Thickness	0.32 inches (8.13 mm)
Interface Points	14 maximum with 5 on top, 5 on bottom, and 4 on sides
Valve Types	20 Series Manual and Pneumatic Valves
Port Connections	Dip Tube, Parbond, Parflare and Pillar Fittings

### Pressure Ranges

Maximum Pressure	80 PSIG (5.5 bar) at 68°F (20°C), 48 PSIG (3.3 bar) at 158°F (70°C)
Maximum Vacuum	25" HG (980 mbar) at 68°F (20°C)
Proof Pressure	120 PSIG (8.3 bar) at 77°F (25°C)
Valve Actuation Pressure	70 - 120 PSIG (4.8 - 8.3 bar)

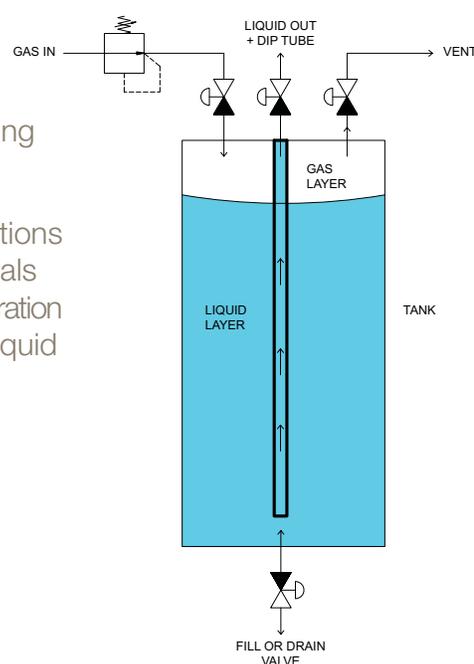
### Temperature Ranges

Ambient Temperature	59° - 77°F (15° - 25°C)
Media Temperature	59° - 158°F (15° - 70°C)

### How It Works

Pure gas is applied to the cylinder to push the liquid through the system. The pressurized cylinder performs like a pump. This type of liquid dispense has the following advantages:

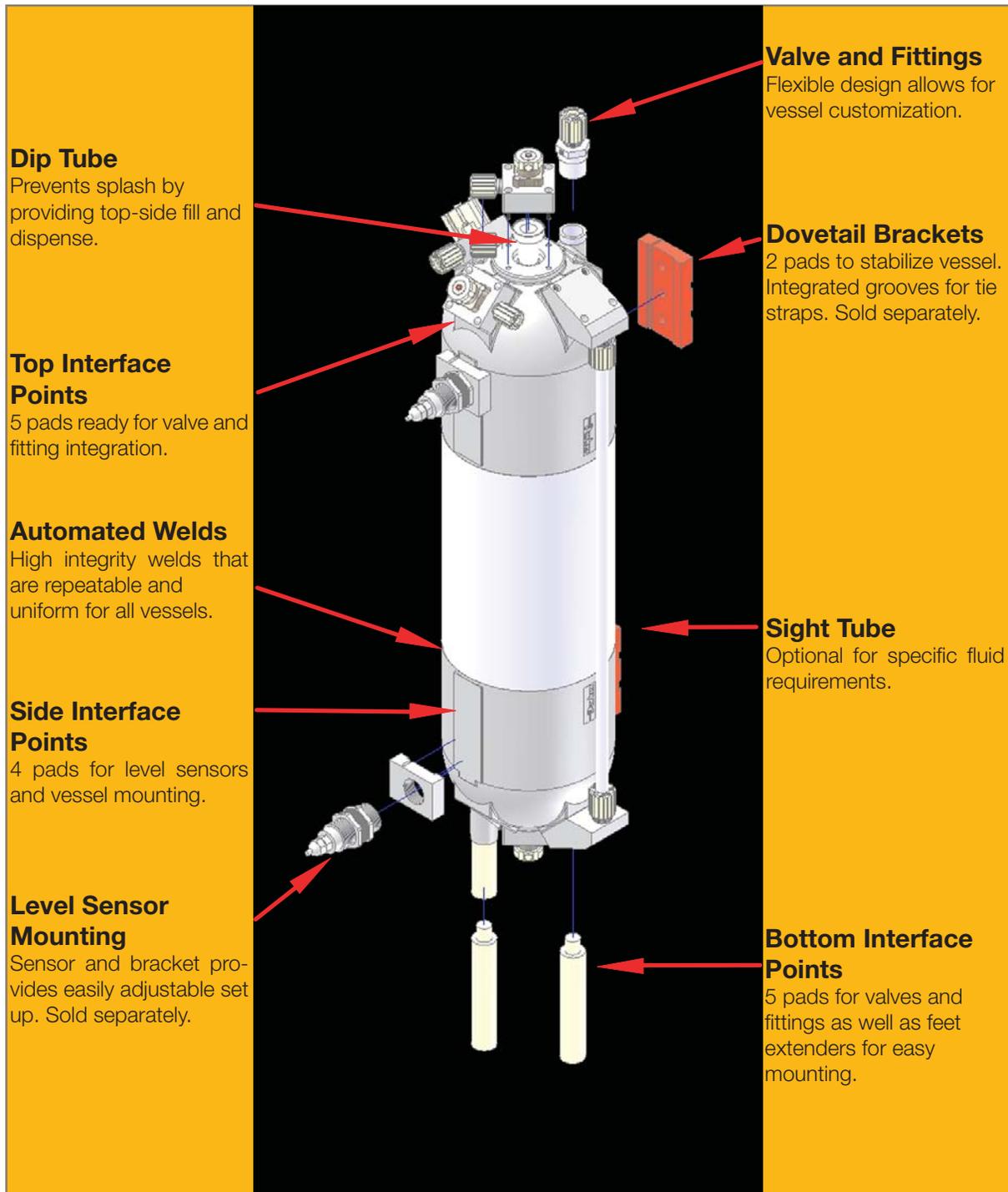
- No pulsation
- Stable pressurized liquid dispensing
- No chemical shearing
- Good for slurry delivery
- No electrical connections needed near chemicals
- Reduced particle generation
- No moving parts in liquid
- Long term durability



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## Features and Accessories

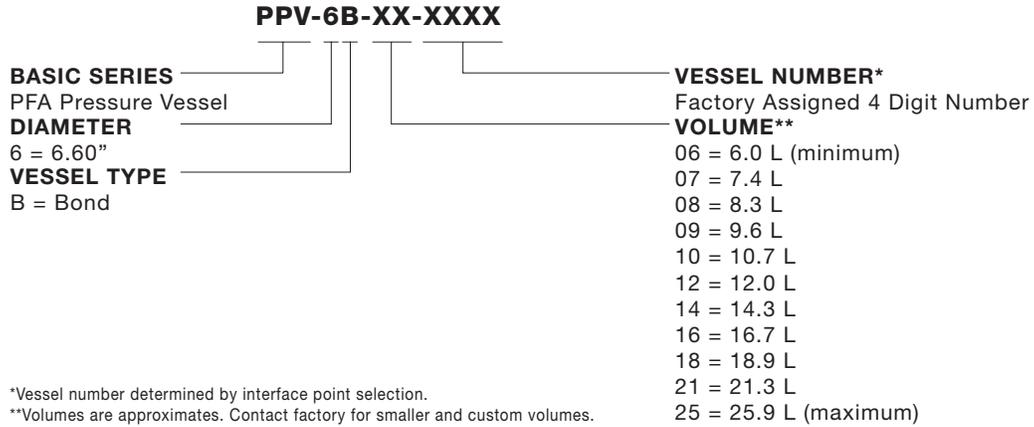


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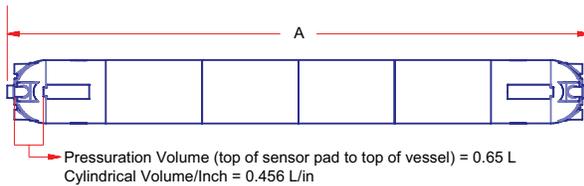
## 6" Diameter PFA Custom Pressure Vessels

### Part Number Matrix

Due to the potential variety of overall configurations, each pressure vessel is handled as a custom assembly. Please contact factory for ordering information.



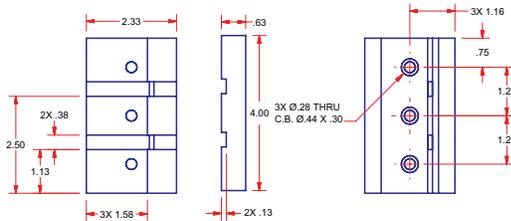
### Reference Vessel Dimensions



Part Number*	Approx. Vol.	Dimension A
PPV-6B-06-XXXX	6.0 L	17.9"
PPV-6B-07-XXXX	7.4 L	20.8"
PPV-6B-08-XXXX	8.3 L	22.9"
PPV-6B-09-XXXX	9.6 L	25.8"
PPV-6B-10-XXXX	10.7 L	28.1"
PPV-6B-12-XXXX	12.0 L	31.0"
PPV-6B-14-XXXX	14.3 L	36.0"
PPV-6B-16-XXXX	16.7 L	41.2"
PPV-6B-18-XXXX	18.9 L	46.2"
PPV-6B-21-XXXX	21.3 L	51.4"
PPV-6B-25-XXXX	25.9 L	62.4"

\*Part number is not complete. Please contact factory for ordering information.

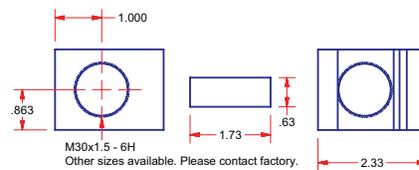
### Vertical Dovetail Bracket



#### Part Number\*\*\*

VDB-6B-1  
\*\*\*Vertical dovetail bracket is only intended to stabilize the vessel. It is not intended to support the weight of the vessel.

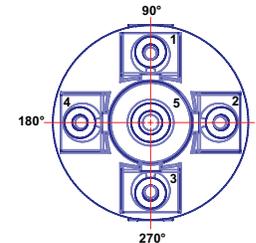
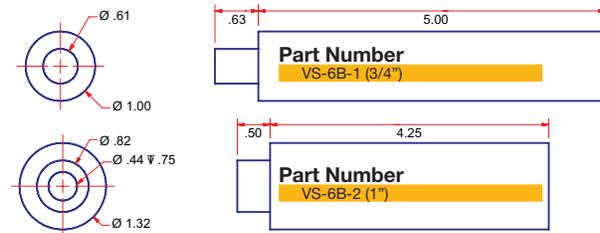
### Sensor Bracket



#### Part Number

VSB-6B-1 (no sensor)  
VSB-6B-1-S1 (w/ Turk PNP Sensor, #BC10-PT30-VP4X2)  
VSB-6B-1-S2 (w/ Turk NPN Sensor, #BC10-PT30-VN4X2)

### Bottom Base Supports



Note:  
VS-6B-1 is for pads #1 - 4.  
VS-6B-2 is for pad #5 only.

