

# 500 Series

## UHP Stainless Steel Bellows Valve Manual & Pneumatic

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

### Value Proposition:

Parker Hannifin Corporation's Veriflo Division presents the 500 Series Manual & Pneumatic Operated Bellows Valves.

These valves are designed with the industry's leading straight-through full flow. This allows for maximum gas transfer through the main and lateral lines inside the fabrication facility.



### Contact Information:

Parker Hannifin Corporation  
**Veriflo Division**  
250 Canal Blvd  
Richmond, California 94804

phone 510 235 9590  
fax 510 232 7396  
veriflo.sales@parker.com

www.parker.com/veriflo  
Mobile App: m.parker.com/veriflo

### Product Features:

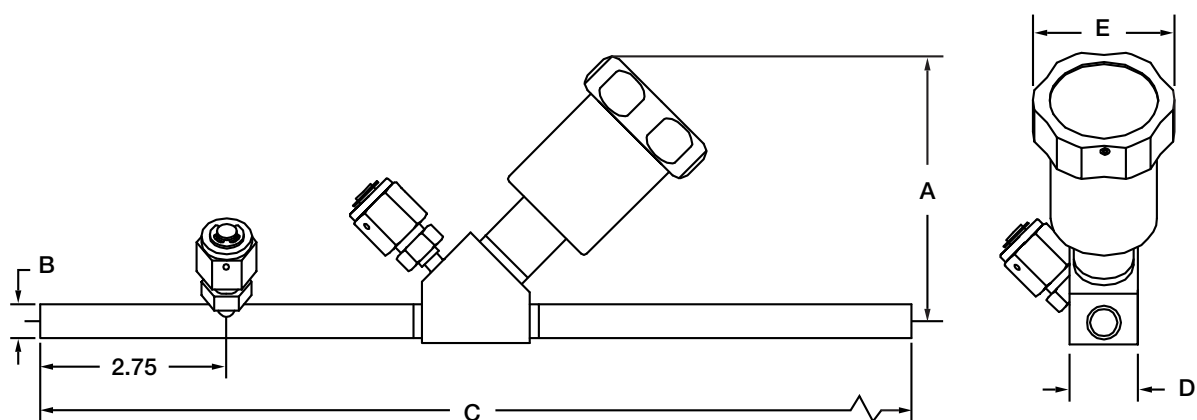
- Standard surface finish of 10 micro inch Ra
- Standard full internal electroplish
- Fully functional from vacuum to 250 psig
- AOP version available in 1/2" size
- Serialized and heat code traceable
- Vericlean™, Veriflo's low sulfur high purity 316L Stainless Steel enhances electropolishing, welding, and corrosion resistance
- 100% Helium leak tested
- Optimum purge port location



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# 500 Series

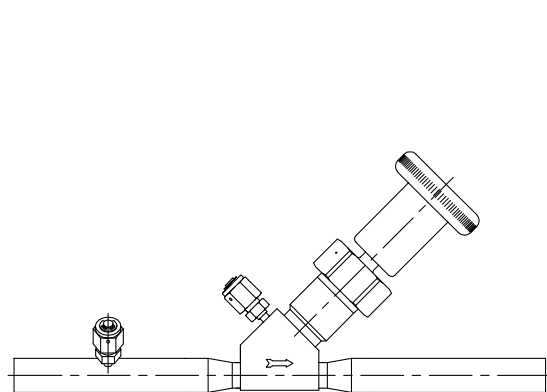
## Dimensional Drawings



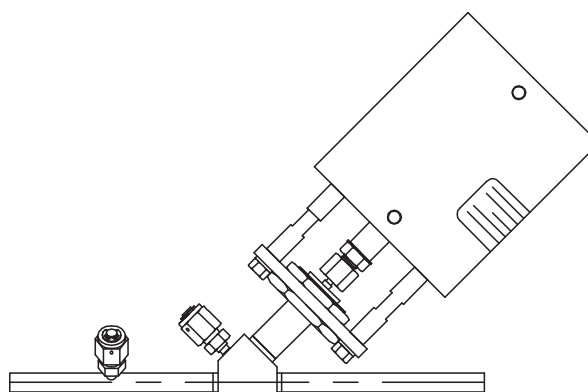
(Manual) Part Number	A (open/close)	B (size X wall)	C	D	E	Straight or Tube Exp.
UHP504**-*	4.3/3.9	0.50 X 0.049	12.8	1.00	2.1	Straight
UHP506**-*	7.2/6.5	0.75 X 0.065	13.5	1.65	3.0	Straight
UHP506**08-*	7.2/6.5	1.00 X 0.065	16.5	1.65	3.0	Tube Exp.

Note: Metric tube sizes and wall thickness available upon request.  
Dimensions in inches.

(AOP) Part Number	A	B (size X wall)	C	D	E
UHP504*A-*	10.0	0.50 X 0.049	12.8	1.00	5.0
UHP504*B-*	7.3	0.50 X 0.049	12.8	1.00	4.0
UHP504*F-*	9.0	0.50 X 0.049	12.8	1.00	5.0



**TUBE STUB EXPANDER**



**PNEUMATIC ACTUATION**

Safety Guide and Installation and Operating Instructions available at  
[www.parker.com/veriflo](http://www.parker.com/veriflo)

# 500 Series

## Ordering Information

Build a 500 Series valve by replacing the numbered symbols with an option from the corresponding tables below.


Contact factory for most up to date lead time information.


Blue = Configurations that have selections in blue will require a price quote from the factory.


Sample:  **UHP**  **5**  **04**  **C**  **1**   **-10**


Finished Order: **UHP504C1-10**


 **Configuration**  
UHP = Straight Valve

 **Basic Series**  
5 = 500 Series

 **Body Size**  
04 = 1/2"  
06 = 3/4"

 **Purge Port**  
A = None  
C = Up and Downstream  
D = Downstream

 **Actuation**  
Manual (handle color)  
1 = Blue  
Pneumatic "04" Body Only.  
A = Fail Close Actuation  
B = Double Acting Actuation  
F = Fail Open Actuation  
*Consult Factory for additional Handle Colors*

 **Inlet/Outlet Fitting Size & Type**  
"04" Body Style  
= 1/2" Tube Stub *Standard*  
M4M4 = 1/2" Male Face Seal Fitting  
F4F4 = 1/2" Female Face Seal Fitting  
"06" Body Style  
= 3/4" Tube Stub *Standard*  
08 = 1" Expanded Tube Stub

 **Internal Surface Finish**  
10 = 10 Ra

Additional configurations available upon request

# 500 Series

## Specifications

Materials of Construction		Functional Performance	
<b>Wetted</b>		<b>Flow Capacity</b>	
Body	VeriClean™ 316L Stainless Steel	UHP504	C <sub>V</sub> 4.8
Tube Ends	316L Stainless Steel	UHP506	C <sub>V</sub> 17.4
Stem	316L Stainless Steel	<b>Leak Rate</b>	
Seat Holder	316L Stainless Steel	Inboard Test Method	
Bellows Adapter	316L Stainless Steel	Internal	≤ 1 X 10 <sup>-9</sup> scc/sec He
Bellows	321 Stainless Steel	External	≤ 1 X 10 <sup>-10</sup> scc/sec He
Seat	PCTFE	<b>Surface Finish</b>	
Bonnet Gasket	Nickel	10 micro inch Ra	
<b>Non-wetted</b>		<b>Operating Conditions</b>	
<b>Pneumatic</b>		Maximum Pressure	250 psig (17 barg)
Actuator Housing	Aluminum	Minimum Pressure	Vacuum
Actuator Adapter	303 Stainless Steel	Maximum Temperature	140°F (60°C)
Actuator Plate	Aluminum		
Bonnet	Brass		
Bonnet Adapter	303 Stainless Steel		
Bearing	Bronze		
Set Screw	316 Stainless Steel		
<b>Manual</b>			
Hand Wheel	Aluminum		
Bonnet	Brass		
Bearing	Bronze		

VeriClean™ is a trademark of Parker Hannifin Corporation

For additional information on materials of construction, functional performance and operating conditions, please contact factory.

### OFFER OF SALE:

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Proposition 65 Warning: This product contains chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

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