

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:

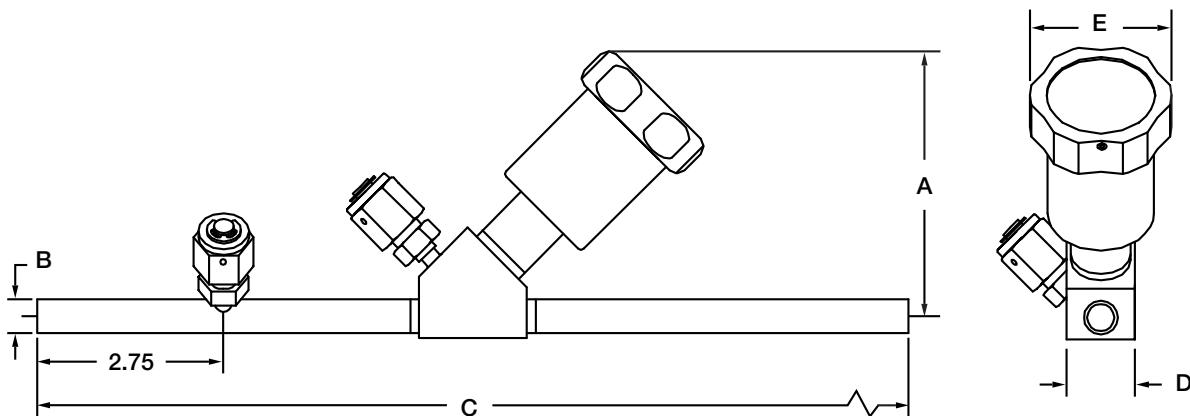
- Standard surface finish of 10 micro inch Ra
- Standard full internal electroplish
- Fully functional from vacuum to 250 psig
- AOP version available in 1/2" size
- Serialized and heat code traceable
- Vericlean™, Veriflo's low sulfur high purity 316L Stainless Steel enhances electropolishing, welding,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



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500 Series

Dimensional Drawings

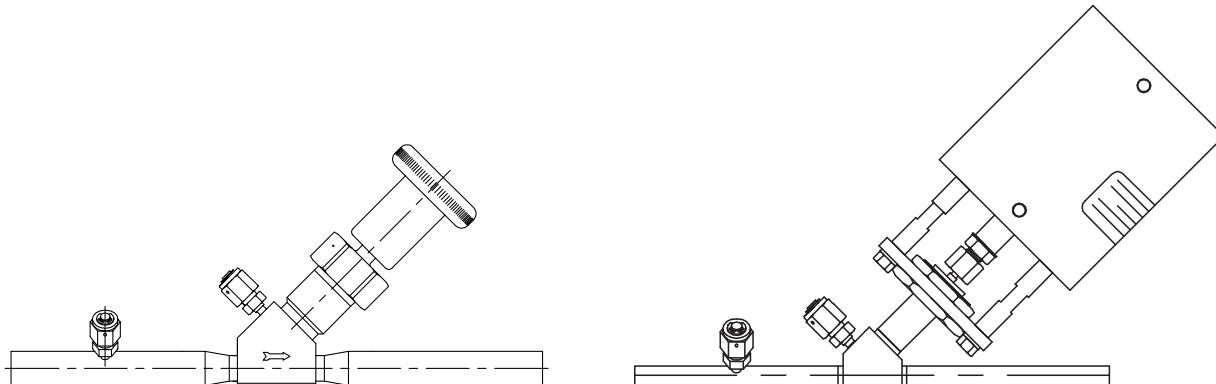


(Manual) Part Number	A (open/close)	B (size X wall)	C	D	E	Straight or Tube Exp.
UHP504**-*	4.3/3.9	0.50 X 0.049	12.8	1.00	2.1	Straight
UHP506**-*	7.2/6.5	0.75 X 0.065	13.5	1.65	3.0	Straight
UHP506**08-*	7.2/6.5	1.00 X 0.065	16.5	1.65	3.0	Tube Exp.

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

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 and lead time from the factory.

Sample:

1
UHP

2
5

3
04

4
C

5
1

6

7
-10

Finished Order: **UHP504C1-10**

1 Configuration
UHP = Straight Valve

2 Basic Series
5 = 500 Series

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

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

5 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

6 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

7 Internal Surface Finish
10 = 10 Ra

Additional configurations available upon request

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Specifications

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

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

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