

600 Series (CvMax)

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 600 Series Bellows Valves. These valves are manufactured specifically for Ultra High Purity Gas Systems.

Parker Bellows Valves are designed with the industry's leading straight-through full flow. There are no restricted paths or bends that would reduce flow and generate particulate. These features provide the highest gas flow with minimal pressure drop.



Contact Information:

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Product Features:

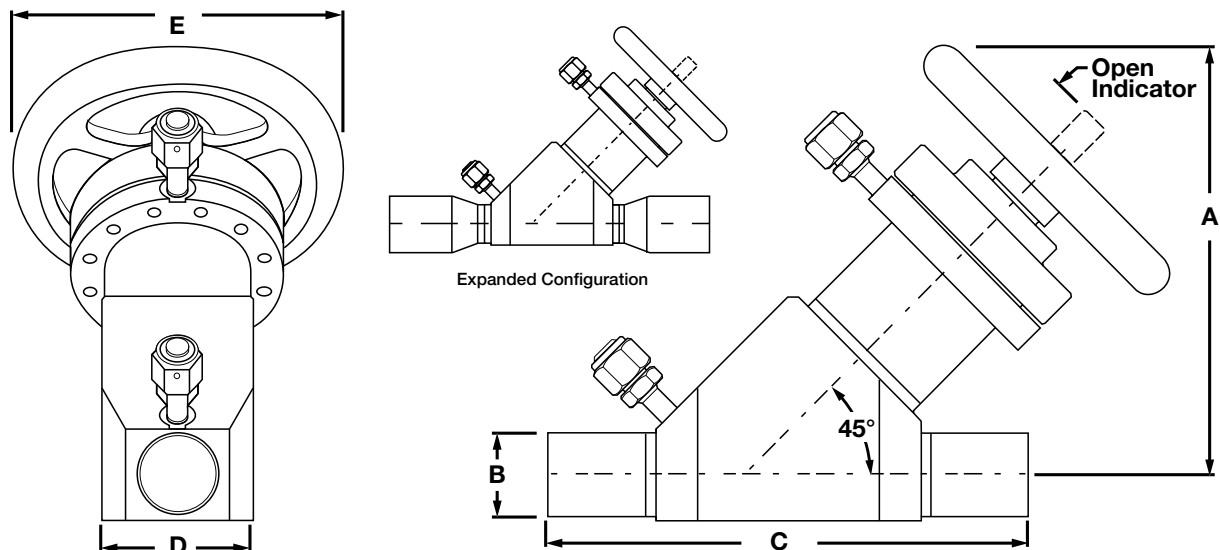
- Standard surface finish of 10 micro inch Ra
- Fully functional from vacuum to 375 psig
- Serialized and heat code traceable
- 100% Helium leak tested
- Optimum purge port locations
- Standard full internal electropolish
- Inconel 625[®] bellows for increased pressure, ultra high purity and maximum cycle life in a small envelope
- Vericlean[™], Veriflo's low sulfur high purity 316L Stainless Steel enhances electropolishing, welding, and corrosion resistance



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600 Series

Dimensional Drawings



Part Number	C _v	X _t	Body Tube		Straight Expanded	A (Height)		B (Tube O.D.)		B (Tube Wall)		C (Length)		D (Body Width)		E (Handle Dia.)	
			inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
UHP0608**0808**AS*	35	.236	1.00	25.4	St	5.7	144	1.00	25.4	0.065	1.65	10.1	257	2.00	51	3.75	95
UHP0608**1212**AS*	28	.319	1.00	25.4	Ex	5.7	144	1.50	38.1	0.065	1.65	12.1	308	2.00	51	3.75	95
UHP0612**1212**AS*	81	.241	1.50	38.1	St	8.0	203	1.50	34.1	0.065	1.65	16.11	409	3.12	74	6.00	152
UHP0612**1616**AS*	91	.183	1.50	38.1	Ex	8.0	203	2.00	50.8	0.065	1.65	16.11	409	3.12	79	6.00	152
UHP0616**1616**AS*	178	.193	2.00	50.8	St	10.3	261	2.00	50.8	0.065	1.65	13.9	353	3.67	93	8.00	203
UHP0616**2424**AS*	134	.225	2.00	50.8	Ex	14.0	356	3.00	76.2	0.065	1.65	17.1	435	3.67	93	8.00	203

Note: C_v and X_t calculated per SEMI Flow Coefficient Standard Test Method.

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Ordering Information

Build a 600 Series valve by replacing the numbered symbols with an option from the corresponding tables below.

Color Explanations: Black = Standard Lead Time Configurations
Blue = Extended Lead Time Configurations

For an explanation of Ordering options please reference literature 25000275 at www.parker.com/veriflo

Sample: **UHP 06 08 C 1 0808 10 A S K**
Finished Order: **UHP0608C1080810ASK**

1 Configuration
UHP = Straight Valve

2 Basic Series
06 = 600 Series

3 Body Size
08 = 1"
12 = 1-1/2"
16 = 2"

4 Purge Port
A = None
B = Upstream
C = Up & Downstream
D = Downstream
J = Purge Valves Up & Downstream

5 Actuation
Manual (handle color)
1 = Blue
Pneumatic
A = Fail Close Actuation
B = Double Acting Actuation
Consult Factory for additional Handle Colors

6 Inlet/Outlet Tube Size & Type
"08" Body Style
0808 = 1" Tube Stub
1212 = 1-1/2" Expanded Tube Stub
"12" Body Style
1212 = 1-1/2" Tube Stub
1616 = 2" Expanded Tube Stub
"16" Body Style
1616 = 2" Tube Stub
2424 = 3" Expanded Tube Stub

7 Internal Surface Finish
10 = 10 Ra

8 Generation
A = First Generation

9 Purge Port Type
S = Standard Male Face Seal Fitting

10 Seat Seal Materials
K = PCTFE
V = Vespel®

Additional configurations available upon request.

600 Series

Specifications

Materials of Construction	
Wetted	
Body	VeriClean™ 316L Stainless Steel
Tube Ends	316L Stainless Steel
Stem	VeriClean™ 316L Stainless Steel
Seat Retainer	VeriClean™ 316L Stainless Steel
Bellows Adapter	316L Stainless Steel
Bellows	Inconel 625®
Seat Options	PCTFE (std) or Vespel®
Bonnet Gasket	Nickel
Non-wetted	
Pneumatic	
Actuator Housing	Aluminum
Bonnet	Aluminum
Guide	Brass
Manual	
Handle	Aluminum
Bonnet	Aluminum
Guide	Brass
Driver	Bronze

Functional Performance	
Flow Capacity	See Table
Leak Rate	Inboard Test Method
Internal	$\leq 1 \times 10^{-10}$ scc/sec He
External	$\leq 1 \times 10^{-10}$ scc/sec He
Surface Finish	10 micro inch Ra
Operating Conditions	
Maximum Pressure	375 psig (25.9 barg)
Minimum Pressure	Vacuum
Maximum Temperature	
Closed	140°F (60°C)
Open	150°F (66°C)

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Vespel® is a registered trademark of DuPont Performance Elastomers L.L.C.
VeriClean™ is a trademark of Parker Hannifin Corporation

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

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