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700 Series
Bulk Facility Valve

Ultra High Purity, High Flow Bellows Valves

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

Customer Value Proposition:

The Ultra High Purity (UHP) 700 Series high flow valve offers high purity and high flow for UHP gas distribution systems. The unique design reduces valve weight and, as a result, lowers installation costs.

All Parker UHP bellows valves use a full flow bore that positions the bellows assembly out of the flow path when the valve is open.

Contact Information:

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Product Features:

- Inconel 625 bellows for increased pressure, ultra high purity and maximum cycle life in a small envelope
- Lower weight reduces gas distribution system installation costs
- Optimized stroke for higher C_V
- Optimum purge port locations at seals
- Maximum operating pressure 375 psig
- Sizes up to 6” and available with metric end connections
- AOP available in 1-1/2” and 2” sizes

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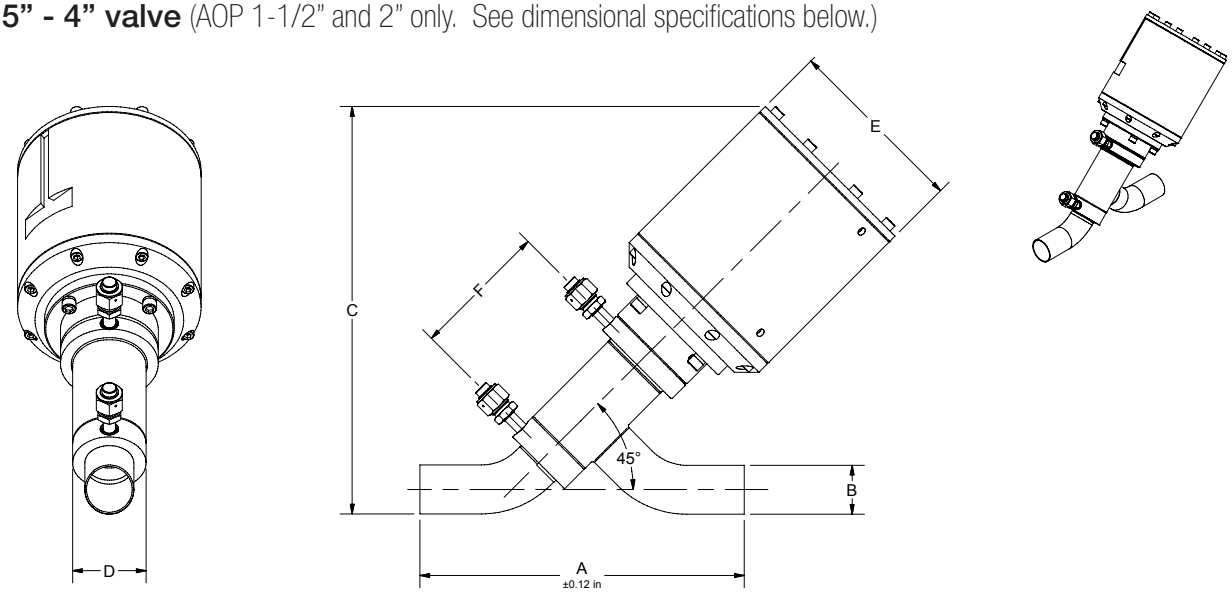
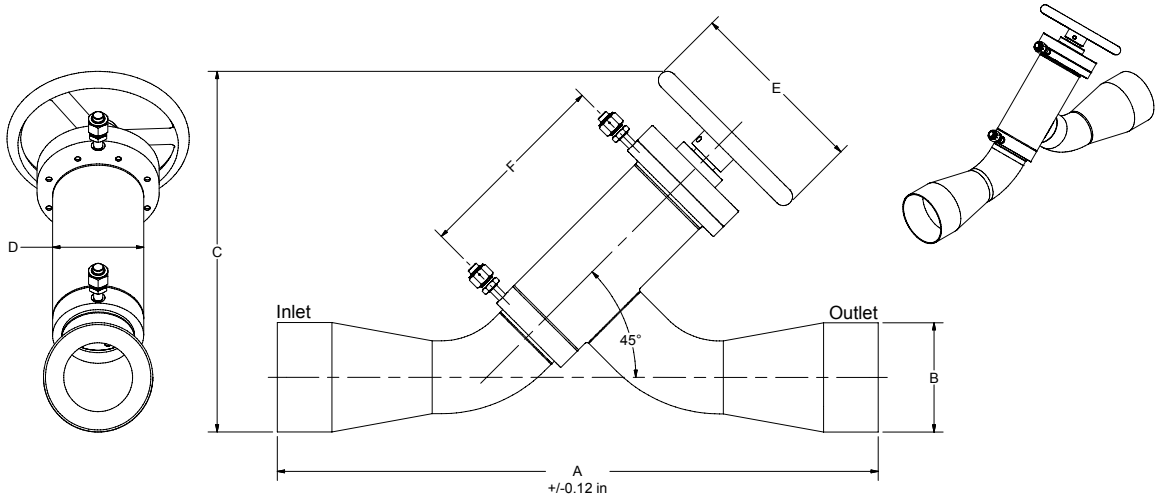
Dimensional Drawing

1.5” - 4” valve (AOP 1-1/2” and 2” only. See dimensional specifications below.)



6” valve (See dimensional specifications below.)



(Manual) Part	Size Body	C_v	Valve Dimensions						Weight (lbs)
			A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	
UHP0708	1.5”	41.4 (a)	10.00	1.50	7.9	2.00	5.00	3.86	5.0
UHP0712	2”	86.1 (a)	13.26	2.00	10.6	3.00	6.00	5.59	11.5
UHP0716	3”	205.9 (b)	16.00	3.00	13.7	4.00	8.00	7.21	23.0
UHP0724-32	4”	317.2 (b)	20.00	4.00	18.8	5.00	10.00	10.94	36.0
UHP0724-48	4”	293.8 (b)	32.98	6.00	19.8	5.00	10.00	10.94	40.4

(AOP) Part	Size Body	C_v	Valve Dimensions						Weight (lbs)
			A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	
UHP0708-A	1.5”	39.3 (a)	10.00	1.50	16.4	2.00	6.00	3.86	31.0
UHP0708-F	1.5”	41.4 (a)	10.00	1.50	13.2	2.00	5.99	3.86	19.0
UHP0712-B	2”	81.8 (a)	13.26	2.00	14.1	3.00	6.99	5.59	25.0
UHP0712-F	2”	86.1 (a)	13.26	2.00	16.7	3.00	7.50	5.59	36.0

a) Test procedures per ANSI/ISA S75.02-1998 and SEMI F32-0998.
b) C_v values estimated by computational fluid dynamics analysis.

Safety Guide and Installation and Operating Instructions available at
www.parker.com/veriflo

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Ordering Information

Build a 700 Series Bulk Facility Valve by replacing the numbered symbols with an option from the corresponding tables below.

	1	2	3	4	5	6	7	8
Sample:	**UHP**	**0712**	**C**	**1**	**1616**	**10**	**A**	**S**	**K**
Finished Order:	**UHP0712C1161610ASK**								

1 Basic Series

0708 = 1.5" *1/4" purge port size*
0712 = 2" *1/2" purge port size*
0716 = 3" *1/2" purge port size*
0724 = 4" & 6" *1/2" purge port sizes*

2 Purge Port

C = Up & downstream *Standard*
H = Purge Valve Downstream
I = Purge Valve Upstream
J = Purge Valve Upstream & Downstream

Purge valves are face seal connected.

Note: Purge Valves ordered separately:
1-1/2": 830LSFSFM (54019556)
2", 3", 4" & 6: 855LSFS8FM (54019557)

3 Operation

Manual Actuation

1 = Blue *Additional colors available*

Pneumatic Actuation

A = Normally Closed
B = Double Actuation
F = Normally Open

4 Port Size

1212 = 1 1/2" (0708 only)
1616 = 2" (0712 only)
2424 = 3" (0716 only)
3232 = 4" (0724 only)
4848 = 6" (0724 only)

5 Internal Surface Finish

10 = 10 Ra *Standard*
05 = 5 Ra

6 Design Series

A = Standard Design

7 Purge Port Type

S = Standard face seal fitting

8 Seat Material

K = PCTFE

Additional configurations available upon request

High Flow, Value Priced Valve for High Purity Gas Systems

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700 Series Bulk Facility Valve

Specifications

Materials of Construction	
Wetted	
Body	316L Stainless Steel
Tube Ends	316L Stainless Steel
Seat Holder	316L Stainless Steel
Bellows Adapter	316L Stainless Steel
Bellows	Inconel® 625
Seat	PCTFE
Bonnet Gasket	Nickel
Non-wetted	
Handle	Aluminum
Stem	316L or 17-4 Stainless Steel
Driver	Bronze
Guide	Brass
Bonnet	Aluminum
Surface Finish	
Standard Ra	10 micro inches
Optional Ra	5 micro inches
Weight	See Dimensions Table

Functional Performance	
Design Pressure	
Proof	562.5 psig (38.78 barg)
Burst	1,125 psig (77.57 barg)
Installation	*See note A*
Flow Capacity	See Dimensional Table
Leak Rate	Inboard Test Method
Internal	
Rated	1×10^{-10} scc/sec He
Std Production	1×10^{-9} scc/sec He
External *(See note B)*	1×10^{-10} scc/sec He
Operating Pressure	
Maximum	375 psig (25.86 barg)*
Minimum	Vacuum
AOP Actuation	100 psig (6.9 barg, nominal)
AOP Air Inlet	1/8 - 27 NPT
Operating Temperature	
Maximum	140°F (60°C)
Minimum	-40°F (-40°C)

Notes:

A - Valves shall be installed and supported in accordance with ASME B31.3 - 1996, Chapter II, Part 5, Flexibility and Support or equivalent.

B - Rated for external leak test at 110% (412.5 psig), valve in open position.

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

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