700 Series

UHP Stainless Steel Bulk Facility Valve
High Flow Bellows

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

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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www.parker.com/veriflo
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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 Cv
- Optimum purge port locations at seals
- Maximum operating pressure 375 psig (250 psig 1” size)
- Sizes up to 6” available
- AOP available in 1”, 1-1/2” and 2” sizes

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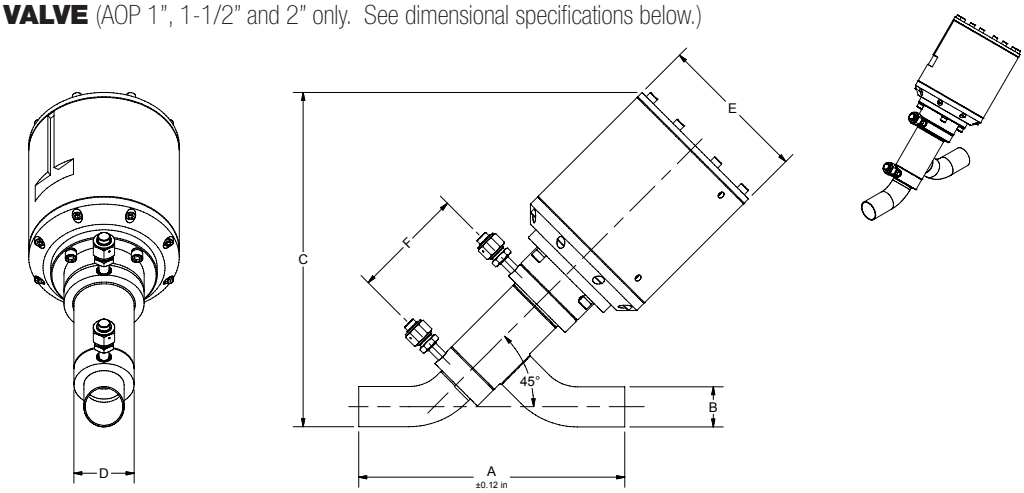
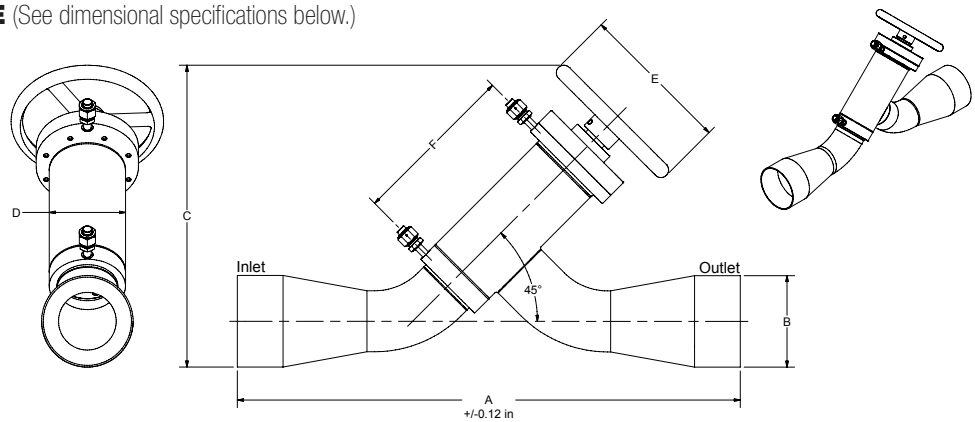
700 Series

Dimensional Drawing

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



6” VALVE (See dimensional specifications below.)



DIMENSION TABLE									
Part (Manual)	**Size Body**	**C_V**	**A (inch)**	**B (inch)**	**C (inch)**	**D (inch)**	**E (inch)**	**F (inch)**	**Weight (lbs)**
UHP0706	1”	19 (b)	8.49	1.00	7.2	1.50	4.00	3.93	3.2
UHP0708	1.5”	41 (a)	10.00	1.50	7.9	2.00	5.00	3.86	5.0
UHP0712	2”	86 (a)	13.26	2.00	10.6	3.00	6.00	5.59	11.5
UHP0716	3”	206 (b)	16.00	3.00	13.7	4.00	8.00	7.21	23.0
UHP0724-32	4”	317 (b)	20.00	4.00	18.8	5.00	10.00	10.94	36.0
UHP0724-48	4”	294 (b)	32.98	6.00	19.8	5.00	10.00	10.94	40.4

DIMENSION TABLE									
Part (AOP)	**Size Body**	**C_V**	**A (inch)**	**B (inch)**	**C (inch)**	**D (inch)**	**E (inch)**	**F (inch)**	**Weight (lbs)**
UHP0706-A	1”	19 (b)	8.49	1.00	13.7	1.50	6.00	3.93	20.7
UHP0708-A	1.5”	39 (a)	10.00	1.50	16.4	2.00	6.00	3.86	31.0
UHP0708-F	1.5”	41 (a)	10.00	1.50	13.2	2.00	5.99	3.86	19.0
UHP0712-B	2”	82 (a)	13.26	2.00	14.1	3.00	6.99	5.59	25.0
UHP0712-F	2”	86 (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

700 Series

Ordering Information

Build a 700 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 quote from the factory.

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

Finished Order: **UHP0712C1161610ASK**

1 Basic Series

0706 = 1" *1/4" purge port size*
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

Note: Purge Valves ordered separately:
*1", 1-1/2": 830LSFSFM (54019556)**
*2", 3", 4" & 6: 855LSFS8FM (54019557)**
** 830LSFSFM limited to 300 psig max, 855LSFS8FM limited to 250 psig max. If high pressure purge valves are required, please contact the factory.*

3 Operation

Manual Actuation
1 = Blue

Pneumatic Actuation
A = Normally Closed - *0706 and 0708 Only.*
B = Double Actuation - *0712 Only.*
F = Normally Open - *0708 and 0712 Only.*

Consult Factory for additional Handle Colors

4 Port Size

0808 = 1" - *0706 Only.*
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

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

700 Series

Specifications

Materials of Construction	
Wetted	
Body	316L Stainless Steel
Tube Ends	316L Stainless Steel
Seat Holder	
0706	316 Stainless Steel
0708, 0712, 0716, 0724	316L Stainless Steel
Bellows Adapter	316L Stainless Steel
Bellows	
0706	316L Stainless Steel
0708, 0712, 0716, 0724	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	10 micro inch Ra
Weight	See Dimension Tables

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

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.

C - Rated for external leak test at 110% (275 psig), valve in open position for 0706 only.

Functional Performance	
Design Pressure	
Proof	
0706	375 psig (25.86 barg)
0708, 0712, 0716, 0724	562.5 psig (38.78 barg)
Burst	
0706	750 psig (51.71 barg)
0708, 0712, 0716, 0724	1,125 psig (77.57 barg)
Installation	*See note A*
Flow Capacity	See Dimensional Table
Leak Rate	Inboard Test Method
Internal	
Rated	1 X 10^{-10} scc/sec He
Std Production	1 X 10^{-9} scc/sec He
External *(See notes B & C)*	1 X 10^{-10} scc/sec He
Operating Conditions	
Maximum Pressure	
0706	250 psig (17.24 barg)
0708, 0712, 0716, 0724	375 psig (25.86 barg)
Minimum Pressure	Vacuum
AOP Actuation Pressure	100 psig (6.9 barg, nominal)
AOP Air Inlet	1/8 - 27 NPT
Temperature	
Maximum	140°F (60°C)
Minimum	-40°F (-40°C)

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