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GP-TECH®

High Performance

HIGH FLOW BELLOWS VALVE

UBY SERIES

- High purity gas distribution system control
- High flow with compact design
- Purge connections and purge valves are integrated in valve body
- Ba grade wetted surfaces to 20 Ra Max.(Optional electropolished 10 Ra max surface finish available)
- Available in pneumatic

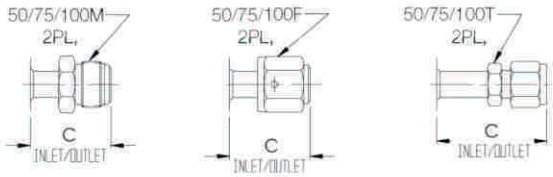
MATERIAL OF CONSTRUCTION

MATERIAL OF CONSTR UCTION	Wetted Areas	CF3M,316L Stainless Steel,316,PCTFE, Vespel,Nickel
	Non-Wetted Areas	304,316L Stainless Steel
MAXIMUM OPERATING PRESSURE	UBY Series	Vacuum- 375 psig(25.8 bar)
	UBYA Series (Pneumatic)	Vacuum-250psig(0-17.2bar) ,900-100psig for actuator(6.2-6.9bar)
Maximum Operating Temperature	PCTFE Seat/Vespel® Seat	-22°F(-30°C) to 180°F(82°C)/302°F(150°C)

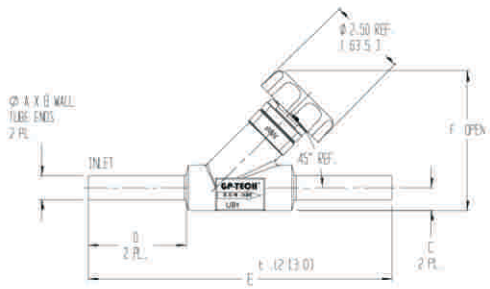
Technical Data

Optional Valve End Connections
Available On UBY 3/4" Body Sizes(1/2",3/4",1")

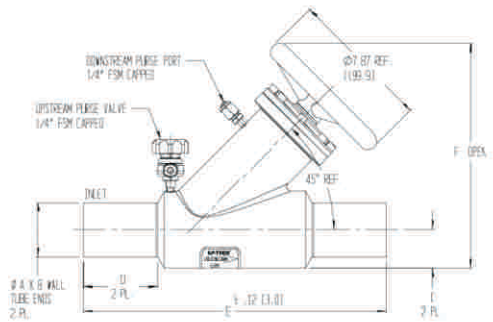
Size	Dimension"C"		
	M	F	T
1/2"	1.54(39.1MM)	1.54(39.1MM)	2.10(53.3MM)
3/4"	2.04(51.8MM)	2.04(51.8MM)	2.03(51.6MM)
1"	2.36(59.9MM)	2.36(59.9MM)	2.49(63.2MM)



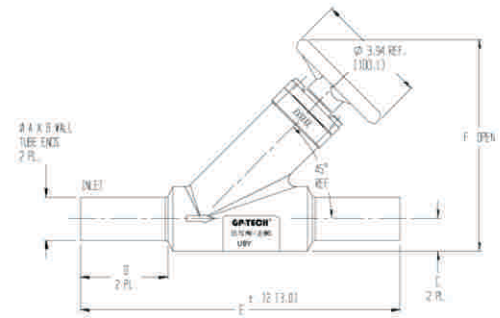
Body (1/2",3/4",1",15A,20A,25A)



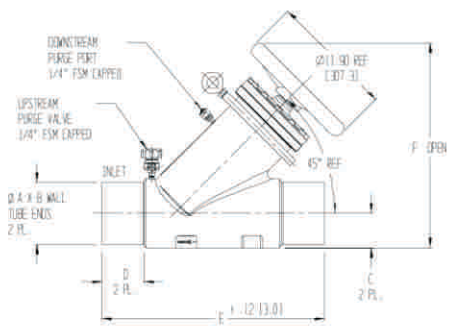
Body (3",4",65A,80A,100A)



Body(1.5",2",32A,40A)



Body (6",8",125A,150A,200A,250A)



Units:mm

* All tolerances are ±0. 06 in. (±1. 52mm) unless otherwise stated.
* Specifications are subject to change without notice.

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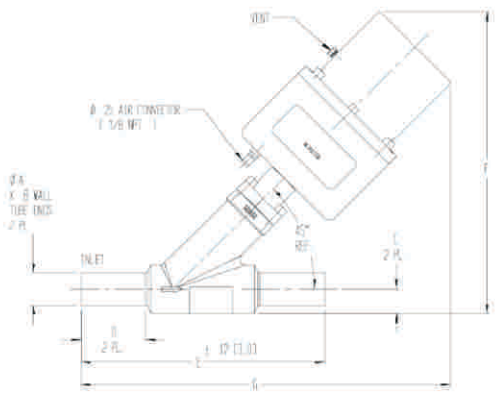
UBY SERIES

DIMENSIONS

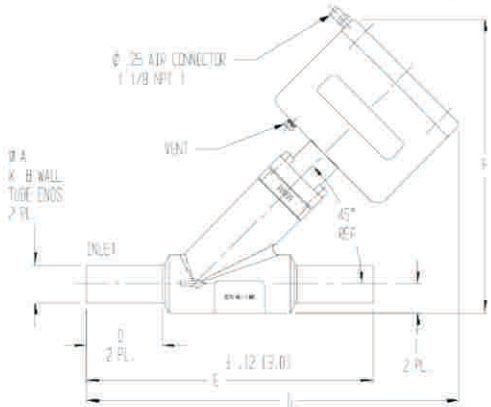
SIZE	A	B	C	D	E	F
UBY 1/2"	Ø.500(12.7mm)	.049(1.2mm)	.710(18.03mm)	4.04(102.6mm)	11.41(289.8mm)	4.14 Open(105.2mm)
UBY 3/4"	Ø.750(19.05mm)	.065(1.65mm)	.710(18.03mm)	3.04(77.2mm)	9.41(239.0mm)	4.14 Open(105.2mm)
UBY 1"	Ø1.000(25.4mm)	.065(1.65mm)	.710(18.03mm)	3.04(77.2mm)	9.41(239.0mm)	4.14 Open(105.2mm)
UBY 15A	Ø.850(21.6mm)	.065(1.65mm)	.710(18.03mm)	3.04(77.2mm)	9.41(239.0mm)	4.14 Open(105.2mm)
UBY 20A	Ø1.070(27.2mm)	.065(1.65mm)	.710(18.03mm)	3.04(77.2mm)	9.41(239.0mm)	4.14 Open(105.2mm)
UBY 25A	Ø1.340(34.0mm)	.065(1.65mm)	.710(18.03mm)	3.04(77.2mm)	9.41(239.0mm)	4.14 Open(105.2mm)
UBY 1.5"	Ø1.500(38.1mm)	.065(1.65mm)	1.13(28.7mm)	3.06(77.7mm)	11.21(284.7mm)	7.32 Open(185.8mm)
UBY 2"	Ø2.000(50.8mm)	.065(1.65mm)	1.13(28.7mm)	3.98(101.1mm)	13.21(335.5mm)	7.32 Open(185.8mm)
UBY 32A	Ø1.680(42.7mm)	.065(1.65mm)	1.13(28.7mm)	2.98(75.7mm)	11.21(284.7mm)	7.32 Open(185.8mm)
UBY 40A	Ø1.910(48.5mm)	.065(1.65mm)	1.13(28.7mm)	3.98(101.1mm)	13.21(335.5mm)	7.32 Open(185.8mm)
UBY 50A	Ø2.380(60.4mm)	.065(1.65mm)	1.13(28.7mm)	4.06(103.1mm)	13.21(335.5mm)	7.32 Open(185.8mm)
UBY 3"	Ø3.000(76.2mm)	.065(1.65mm)	2.13(54.1mm)	4.08(103.6mm)	16.67(423.4mm)	14.46 Open(367.3mm)
UBY 4"	Ø4.000(101.6mm)	.083(2.11mm)	2.13(54.1mm)	4.08(103.6mm)	16.67(423.4mm)	14.46 Open(367.3mm)
UBY 65A	Ø3.004(76.3mm)	.083(2.11mm)	2.13(54.1mm)	4.08(103.6mm)	16.67(423.4mm)	14.46 Open(367.3mm)
UBY 80A	Ø3.508(89.11mm)	.083(2.11mm)	2.13(54.1mm)	4.08(103.6mm)	16.67(423.4mm)	14.46 Open(367.3mm)
UBY 100A	Ø4.500(114.3mm)	.083(2.11mm)	2.13(54.1mm)	4.21(106.9mm)	16.67(423.4mm)	14.46 Open(367.3mm)
UBY 6"	Ø6.000(152.4mm)	.109(2.77mm)	3.30(83.8mm)	4.11(104.4mm)	21.38(543.1mm)	23.51 Open(597.2mm)
UBY 8"	Ø9.000(203.2mm)	.110(2.79mm)	3.30(83.8mm)	9.95(252.7mm)	33.06(839.7mm)	23.51 Open(597.2mm)
UBY 125A	Ø5.504(139.8mm)	.110(2.79mm)	3.30(83.8mm)	4.11(104.4mm)	21.38(543.1mm)	23.51 Open(597.2mm)
UBY 150A	Ø6.504(165.2mm)	.110(2.79mm)	3.30(83.8mm)	4.11(104.4mm)	21.38(543.1mm)	23.51 Open(597.2mm)
UBY 200A	Ø8.516(216.3mm)	.110(2.79mm)	3.30(83.8mm)	9.95(252.7mm)	33.06(839.7mm)	23.51 Open(597.2mm)
UBY 250A	Ø10.530(267.5mm)	.130(4.00mm)	3.30(83.8mm)	9.95(252.7mm)	33.06(839.7mm)	23.51 Open(597.2mm)

PNEUMATIC ACTUATING OPERATION

UBY 1"NC(1"/1.5"/2"/32A/40A/50A)



UBY 1"NO/DA(1"/1.5"/2"/32A/40A/50A)



Options

Pneumatic operating types
Normally open, normally closed, dual acting

Operating pressure
90-100 psig (6.2-6.9 bar)

ORDERING INFORMATION

Sample Order Number		UBY-SM-1/2"-BA-NC-1/4"-M	
Series	UBY	Actuator Configuration	NO=Normal Open NC=Normal Close DA=Dual Acting M=Manual Handle
Material	SM=316L SS Single Melt DM=316L SS Double Melt HC=Hastelloy		
Size	1/2"-250A(See Dimenstions)	Purge Valve Size	1/4"
Surface Finish Level	BA=BA Grade EP=EP Grade	Purge Valve Connection	MM= Male Face Seal FF=Female Face Seal

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