



# Integral Sterile Access and GMP (ISG)

The ISG combines the functionality of the two most common process fabrications (Sterile Access (SA) and GMP) into one assembly, greatly reducing the deadlegs of conventional SA and GMP fabrications when a purge valve is required.

This is achieved by providing the purge valve integral to the main body design. By simply rotating the assembly, one fabricated block body can provide three process fabrication orientations: Standard Sterile Access Port (SAP) and vertical GMP porting above and below the weir. The result is one integral valve assembly, which reduces contact surfaces and hold up volume, while minimizing dimensional envelope and increasing design flexibility.

### **Typical Applications:**

• Process diversion, steam barrier/block sampling

#### Specifications

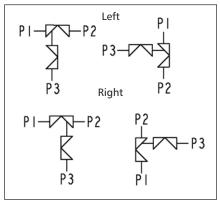
Standard Sizes:

- 0.5" 2" (DN15 50)
- Other sizes available upon request Materials:
- 316L ASTM A479
- DIN 177440, 1.4435
- Other materials available upon request Standard End Connections:
- 14, 16, 18, 20 Gauge OD tubing
- DIN/ISO
- Tri-Clover Tri-Clamp®
- Others available upon request

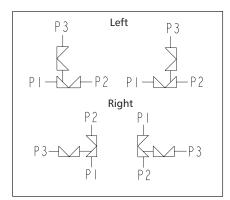




Patent # 6,401,756





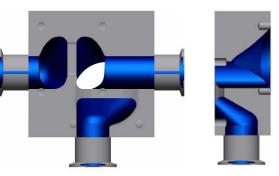


Inverted ISG

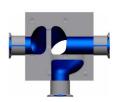
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ISG Flow Path

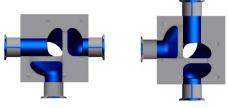


**Valve Orientation** 

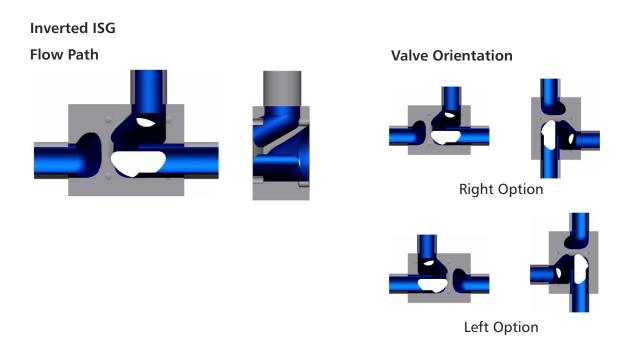




**Right Option** 



Left Option



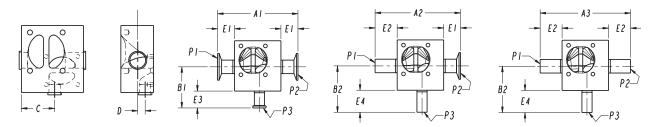
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### **General Dimensions**

VALVE SIZE	<b>DIMENSIONS</b> NOTE: ALL DIMENSIONS IN BRACKETS [] ARE MILLIMETERS												
(MAIN x PURGE)	AI	A2	A 3	BI	B2	C	D	ΕI	E 2	E 3	E 4		
1/2"BT x 1/2"BT	3.25	4.25	5.25	1.67	2.67	1.05	0.09	0.625	1.63	0.625	1.63		
	[82.6]	[108.0]	[ 33.4]	[42.4]	[67.8]	[26.7]	[2.29]	[15.9]	[41.3]	[15.9]	[41.3]		
1/2"PF x 1/2"BT	3.53	4.53	5.53	1.67	2.67	1.32	0.12	0.625	1.63	0.625	1.63		
	[89.7]	[  5. ]	[ 40.5]	[42.4]	[67.8]	[33.5]	[3.1]	[15.9]	[41.3]	[15.9]	[41.3]		
1/2"PF x 1/2"PF	3.85	4.85	5.85	1.94	2.94	1.32	0.19	0.625	1.63	0.625	.63		
	[97.8]	[123.2]	[ 48.6]	[49.3]	[74.7]	[33.5]	[4.8]	[15.9]	[41.3]	[15.9]	[4 .3]		
3/4" x 1/2"BT	3.70	4.70	5.70	1.85	2.85	.54	0.31	0.625	.63	0.625	.63		
	[94.0]	[  9.4]	[ 44.8]	[47.0]	[72.4]	[39.1]	[7.9]	[15.9]	[4 .3]	[15.9]	[4 .3]		
3/4" x 1/2"PF	4.07	5.07	6.07	2.07	3.07	.54	0.40	0.625	1.63	0.625	.63		
	[103.4]	[128.8]	[ 54.2]	[52.6]	[78.0]	[39.1]	[10.2]	[15.9]	[41.3]	[15.9]	[4 .3]		
3/4" x 3/4"	4.57	5.57	6.57	2.28	3.28	1.66	0.22	0.625	1.63	0.625	.63		
	[  6. ]	[ 4 .5]	[166.9]	[57.9]	[83.3]	[42.2]	[5.6]	[15.9]	[41.3]	[15.9]	[4 .3]		
" x  /2"BT	5.25	5.63	6.00	1.96	2.96	1.70	0.47	1.25	1.63	0.625	.63		
	[ 33.4]	[ 43.0]	[ 52.4]	[49.8]	[75.2]	[43.2]	[  .9]	[31.8]	[41.3]	[15.9]	[4 .3]		
1" x 1/2"PF	5.50	5.87	6.25	2.19	3.19	1.71	0.56	1.25	1.63	0.625	1.63		
	[ 39.7]	[ 49. ]	[158.8]	[55.6]	[81.0]	[43.4]	[14.2]	[31.8]	[41.3]	[15.9]	[41.3]		
1" x 3/4"	5.93 [150.6]	6.30 [160.0]	6.68 [169.7]	2.41 [61.2]	3.41 [86.6]	1.84 [46.7]	0.41 [10.4]	1.25 [31.8]	1.63 [41.3]	0.625	1.63 [41.3]		
" x  "	6.41 [162.8]	6.79 [172.5]	7.16 [181.9]	3.24 [82.3]	3.61 [91.7]	1.96 [49.8]	0.02	1.25 [31.8]	1.63 [41.3]	1.25 [31.8]	1.63 [41.3]		
1-1/2" x 1/2"BT	6.13	6.50	6.88	2.19	3.19	2.19	0.66	1.25	1.63	0.625	1.63		
	[155.7]	[165.1]	[ 74.8]	[55.6]	[81.0]	[55.6]	[16.8]	[31.8]	[41.3]	[15.9]	[41.3]		
1-1/2" x 1/2"PF	6.13	6.50	6.88	2.44	3.44	2.19	0.81	1.25	1.63	0.625	1.63		
	[155.7]	[ 65. ]	[ 74.8]	[62.0]	[87.4]	[55.6]	[20.6]	[31.8]	[41.3]	[15.9]	[41.3]		
1-1/2" x 3/4"	6.47	6.84	7.22	2.69	3.69	2.31	0.72	1.25	1.63	0.625	.63		
	[ 64.3]	[173.7]	[183.4]	[68.3]	[93.7]	[58.7]	[18.3]	[31.8]	[41.3]	[15.9]	[4 .3]		
1-1/2" x  "	6.86	7.23	7.61	3.46	3.84	2.44	0.32	1.25	.63	1.25	.63		
	[ 74.2]	[183.6]	[193.3]	[87.9]	[97.5]	[62.0]	[8.1]	[31.8]	[4 .3]	[31.8]	[4 .3]		
1-1/2" x 1-1/2"	7.75	8.13	8.50	3.94	4.31	2.69	0.10	1.25	1.63	1.25	.63		
	[196.9]	[206.5]	[215.9]	[ 00. ]	[109.5]	[68.3]	[2.5]	[31.8]	[41.3]	[31.8]	[4 .3]		
2" x 1/2"BT	6.75	7.38	8.00	2.56	3.56	2.50	0.85	1.25	1.88	0.625	.63		
	[171.5]	[187.5]	[203.2]	[65.0]	[90.4]	[63.5]	[21.6]	[31.8]	[47.6]	[15.9]	[4 .3]		
2" x 1/2"PF	6.75	7.38	8.00	2.69	3.69	2.50	0.97	1.25	1.88	0.625	.63		
	[171.5]	[187.5]	[203.2]	[68.3]	[93.7]	[63.5]	[24.6]	[31.8]	[47.6]	[15.9]	[4 .3]		
2" x 3/4"	6.78	7.41	8.03	2.87	3.87	2.63	0.91	1.25	1.88	0.625	.63		
	[172.2]	[188.2]	[204.0]	[72.9]	[98.3]	[66.8]	[23.1]	[31.8]	[47.6]	[15.9]	[4 .3]		
2" x  "	7.19	7.81	8.44	3.71	4.09	2.75	0.57	1.25	1.88	1.25	.63		
	[182.6]	[198.4]	[2 4.4]	[94.2]	[03.9]	[69.9]	[14.5]	[31.8]	[47.6]	[31.8]	[4 .3]		
2" x I-1/2"	8.07	8.69	9.32	4.19	4.56	3.00	0.44	1.25	1.88	1.25	1.63		
	[205.0]	[220.7]	[236.7]	[106.4]	[  5.8]	[76.2]	[  .2]	[31.8]	[47.6]	[31.8]	[41.3]		
2" x 2"	8.81	9.44	10.06	4.50	5.12	3.25	0.13	1.25	1.88	1.25	1.88		
	[223.8]	[239.8]	[255.5]	[  4.3]	[130.0]	[82.6]	[3.3]	[31.8]	[47.6]	[31.8]	[47.6]		

BT = Bio-Tek, PF = Pure-Flo



Please contact Pure-Flo CA at 805-520-7200 for the latest drawing and dimensional information. The above drawing should only be used as a general reference.

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### How to Order an ISG

Integral Sterile Access and GMP valve with a 1.5" wrought stainless steel body, inlets and outlets on the main valve (P1 and P2) are sanitary clamp with a buttweld end, second valve is an end connection option 2, second valve is a .5" Pure-Flo, 25 Ra interior finish, standard exterior finish (Scotch Brite).

#### Figure Number: ISG-1.5-2-.5-SVPF-R-W-6-1-0

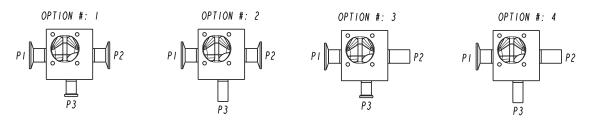
Configuration Example		ISG	1.5	2	.5	SVPF	R	W	6-1-0
	Block Type								
	Valve Size (Main)		1.5						
	Type (.5" only) <sup>1</sup>								
Body	o Outlet Option			2					
e B	က် Second Valve Size				.5				
Valve	Second Valve Type					SVPF			
-	Valve Orientation <sup>2</sup>						R		
	Body Material							W	
	Polish Selections								6-1-0

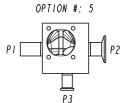
<sup>1</sup> For .5 inch valve, must specify Pure-Flo (PF) or Bio-Tek (BT).

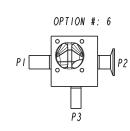
<sup>2</sup> Second valve ported on the left or right side of main valve weir.

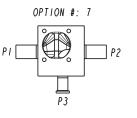
To add topworks, see BBTOP-07. For additional figure numbers, see PFORD.

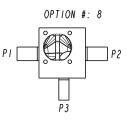
### **End Connection Options**

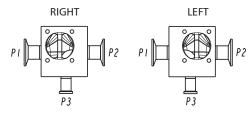












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