

#### Automatic Balancing 2-Way Kit - A2BH Submittal Model AFLB Model HSS 3 Model AU (3) Connection Type Size w/ PT & AV Runout 1 Hoses are sized same as RUNOUT. 2 Coil Hose Length **End Connection TCV** 3 MPT Return / Services provided for additional fee: COIL Supply **Extended Components** Yes No If the union end connection is selected, PROHS will select the appropriate **Factory Mounted TCV** Yes No tailpiece for coil connection. Stainless Steel Trim Yes No 2 **Factory Mounted Hoses** Yes No Model HSS Bag N Tag No Yes Model IBU w/ PT & DV

PRODUCT DESCRIPTION: The Automatic Balancing Valve Kit is a packaged and partially preassembled grouping of components required to complete installation of a terminal unit. Temperature control valves, piping, and coils are supplied "by others". Mounting and testing of the customer supplied TCV is available at an additional charge.

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QUANTITY	GPM	TAG	GING INFORMA	TION		
JOB NAME		REPRESENTA	ATIVE			
ENGINEER		REF/PO#	•		DATE	
CONTRACT	OR	SUBMITTED E	ЗҮ		DATE	

<sup>\* 3/8&</sup>quot; Coil Size available in SWT ONLY.

<sup>\*\*</sup> ProPress fittings supplied for additional fee.



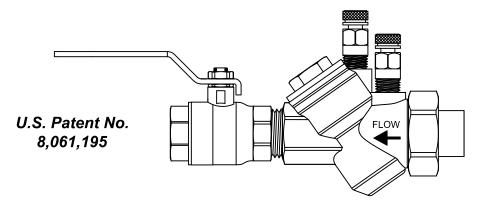
### **AFLB Series Specifications**

## Automatic Pressure Independent Flow Limiter w/ Ball Valve

A: AFLB - ½" - 1" High

B: AFLB - 1" High - 1½" Low

C: AFLB - 11/2" High - 2"



PRODUCT DESCRIPTION: The AFLB is an Automatic Pressure Independent Flow Limiting device, male ended by union with a brass ball valve attached, rated at 600 WOG / CWP @ 250° F. The AFLB is supplied with a stainless steel flow limiting cartridge that can be removed for cartridge exchange, if necessary. The AFLB comes standard with two pressure/temperature ports and a hanging identification tag. The ball valve end, or run-out side, is available in FNPT or SWT. The union side connections available include MNPT, FNPT, SWT, and a variety of reductions.

		STANDARD MATERIAL SPECIFICATIONS								STANDARD OPERATING SPECIFICATIONS																	
Bod O-R	•		For	_	3rass	AST	M B2	83-0	6 or (	Cast E	Brass	AST	M B7	'63-0	8A	Control Range:					2 psi	- 60+	- psi				
	Piece, Packing Nut		1		STM	B124	-09, I	3228	-06, c	or B76	33-08	3A				Ac	cura	су:					±5%				
	on Nut					B455										Ма	ax Wo	orking	a Pre	ssure	e:		600 \	NOG	/ CW	Ρ	
	v Cartridge		AS'		582	Гуре	303 9	Stainl	ess S	Steel								•			ratur	٥.	40°F	to 25	:∩°E		
Spri	ohragm ing		1		nless	Stee	.I												Ū		iaiui						
	Port							Core								St	art-U	р Неа	ad Lo	SS:			5 Fee	et of I	H <sub>2</sub> O		
Ster Ball	Seat, Packing Glar	nd	EPDM Dual Durometer Core Forged Brass ASTM B283-06 Brass ASTM B124-09 - Blow-Out Proof Chrome Plated Brass Teflon Chrome Plated Steel w/ Vinyl Cover									gi\ res	en v serve	withou s the	ut ob right	ligati to m	on o ake o	r wa chang	rranty	/. T desi	assisi he C gn, m lity	ompa	any				
	Valve Size							F	LOV	√ RA	TES (	GPM	) *	CON	ITRO	L RA	NGE	2 - 6	0+ P	SID *	*						
	valve Size	Α	A									N	0	Р	Q	R	S	Т	U	٧	W	Х	Υ	Z			
Α	½" - 1" L	.33	33 .50 .75 1 1.25 1.5 1.75 2 2.25 2.5 2.75 3 3.5 4								4	4.5	5	5.5	6	6.5	7	7.5	8	9	10	11	12				
В	1" H - 1½" L	5	5.5	6	6.5	7	8	9	10	12	13	14	15	16	18	20	22	24	26	28	30	32	34	36	38	40	42
С	1½" H - 2"	15	20 25 30 35 40 45 50 55 60 65 70 75 80 85								85	90	95	100	110	120	130	140	150	160	170	180					

<sup>\*</sup> Custom flow rates can be calibrated at the factory for an additional charge.

Unless confirmed as special, flow rates will default to standard flow rate.

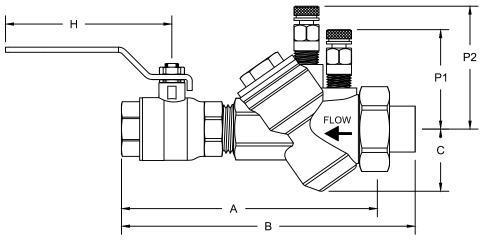
#### PRODUCT SPECIFICATIONS:

- The Automatic Flow Limiter with Ball Valve (AFLB) shall have flow measurement capability
- The AFLB shall have a static orifice to control flow
- The AFLB Cartridge shall be permanently marked with the letter that corresponds to the factory preset GPM
- All flow cartridge wear surfaces shall be stainless steel
- The AFLB shall have a 2 PSID start up rating
- The AFLB Cartridge shall have a large operational differential range
- The AFLB Cartridge shall provide continual flow at differential pressures above design limits
- The AFLB Cartridge shall be removable for cleaning or exchange if required



### **AFLB Series Dimensions**

# <u>Automatic Pressure Independent Flow Limiter w/ Ball Valve</u> A: AFLB - ½" - 1" L



BALL VALVE SIZE AND TYPE	Α	TAIL PIECE	В	WEIGHT (lbs)	С	Н	P1	P2	w
½" SWT	5.7	- M ½" - F - S	7.3 6.4 6.4	1.8 1.8 1.7	1.3	3.7	2.3	2.8	1.7
½" FPT	5.4	- M ½" - F - S	7.0 6.0 6.0	1.8 1.8 1.7	1.3	3.7	2.3	2.8	1.7
¾" SWT	6.6	- M ½" - F - S	8.1 7.3 7.3	2.4 2.4 2.4	1.4	3.8	2.0	2.6	1.8
/4 GW1	0.0	- M <sup>3</sup> ⁄ <sub>4</sub> " - F - S	8.3 7.2 7.2	2.5 2.4 2.4	1.4	5.0	2.0	2.0	1.0
34" FPT	6.1	- M ½" - F - S	7.5 7.2 6.8	2.4 2.5 2.4	1.4	3.8	2.0	2.6	1.8
74 11 1	0.1	- M ¾" - F - S	7.8 7.0 6.8	2.5 2.4 2.4		0.0	2.0	2.0	1.0
1" SWT	7.3	1/2" - M 3/4" - M - S	9.5 9.5 8.2	3.5 3.5 3.3	1,2	5.0	2.0	2,5	2.1
1 3001	7.3	- M 1" - F - S	9.5 8.5 8.5	3.6 3.4 3.3	1.2	3.0	2.0	2.0	2.1
1" FPT	6.7	½" - M ¾" - M - S	8.7 8.7 7.5	3.5 3.5 3.3	1,2	5.0	2.0	2.5	2.1
	0.7	- M 1" - F - S	8.7 7.6 7.6	3.6 3.4 3.3	1.2	0.0	2.0	2.0	

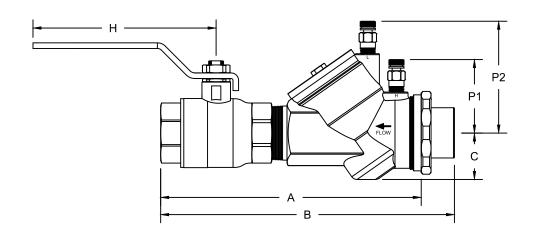


Note: Dimensions listed above do not include ProPress or any other special fittings or adapters. All dimensions, weights, and materials are subject to minor variations. Consult with factory for confirmation of dimensions and material specifications. Sweat size listed is nominal and will differ from the actual, measurable size.



### **AFLB Series Dimensions**

# <u>A</u>utomatic Pressure Independent <u>Flow Limiter w/ B</u>all Valve B: AFLB - 1" H - 1½" L



BALL VALVE SIZE AND TYPE	А	T <i>A</i> PIE	AIL CE	В	WEIGHT (lbs)	С	Н	P1	P2	W
1" SWT	8.6	1"	- M - F - S	10.6 9.5 9.5	5.3 5.2 5.1	1.4	5.0	2.3	2.6	3.9
1" FPT	8.0	1"	- M - F - S	10.0 8.8 9.0	5.3 5.2 5.1	1.4	5.0	2.3	2.6	3.9
11/4" SWT	9.1	1"	- M - F - S	11.0 11.1 10.5	6.2 6.3 5.9	1.4	5.0	2.3	2.6	3.9
1/4 3001	9.1	11⁄4"	- M - F - S	11.1 10.1 10.2	6.3 6.0 5.9	1.4	3.0	2.3	2.0	3.9
11/4" FPT	8.3	1"	- M - F - S	10.3 9.3 9.6	6.2 6.0 5.9	1 <u>.</u> 4	5.0	2.3	2.6	3.9
1/4 11 1	0.3	11⁄4"	- M - F - S	10.3 9.0 9.5	6.3 5.8 5.9	1.4	3.0	2.3	2.0	3.9
1½" SWT	9.4	11⁄4"	- M - F - S	11.9 11.9 10.9	6.5 6.6 5.9	1.4	6.3	2.5	3.4	3,2
1/2 3001	9.4	1½"	- M - F - S	11.9 10.6 10.6	6.4 6.1 5.9	1.4	0.3	2.5	3.4	3.2
41/11 FDT	0.0	11⁄4"	- M - F - S	11.0 11.0 10.0	6.4 6.5 5.8	1.4	6.2	2.5	2.4	2.2
1½" FPT	9.0	1½"	- M - F - S	11.0 9.7 9.7	6.3 6.0 5.8	1.4	6.3	2.5	3.4	3.2

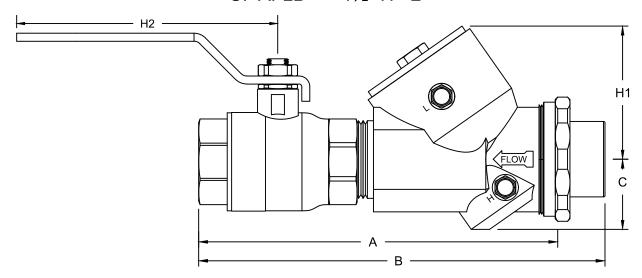


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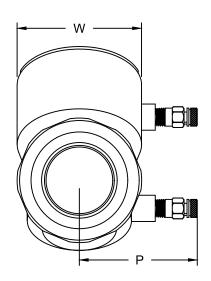


### **AFLB Series Dimensions**

# <u>A</u>utomatic Pressure Independent <u>Flow Limiter w/ B</u>all Valve C: AFLB - 1½" H - 2"



BALL VALVE SIZE AND TYPE	А	TAIL PIECE	В	WEIGHT (lbs)	С	H1	H2	Р	W
1½" SWT	12.3	- M 1¼" - F - S	15.3 15.3 14.0	14.7 14.6 13.8	2.2	4.2	6.3	3.2	3.7
172 SWI	12.3	- M 1½" - F - S	15.0 15.3 13.8	15.1 14.8 13.8	2.2	4.2	0.3	3.2	3.7
1½" FPT	11.5	- M 1¼" - F - S	14.5 14.5 13.0	14.7 14.6 13.8	2.2	4.2	6.3	3.2	3.7
1/2 11 1	11.5	- M 1½" - F - S	14.5 14.5 13.1	15.1 14.8 13.8	2.2	4.2	0.5	5.2	5.7
2" SWT	11.7	- M 1½" - F - S	14.7 14.7 13.3	15.5 15.5 14.6	2,2	4,2	6,2	3.2	3.7
2 3001	11.7	- M 2" - F - S	14.7 12.8 13.2	15.5 14.9 14.5	2.2	7.2	0.2	5.2	5.7
2" FPT	10,6	- M 1½" - F - S	13.6 13.6 12.2	15.4 15.4 14.5	2.2	4.2	6,2	3.2	3.7
2 111	10.0	- M 2" - F - S	13.6 11.8 12.0	15.4 14.8 14.4	<b>2.</b> 2	7.2	0.2	0.2	J.,



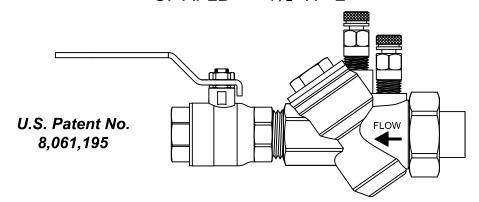
Note: Dimensions listed above do not include ProPress or any other special fittings or adapters. All dimensions, weights, and materials are subject to minor variations. Consult with factory for confirmation of dimensions and material specifications. Sweat size listed is nominal and will differ from the actual, measurable size.

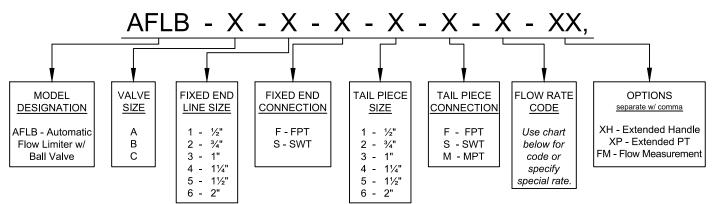


### **AFLB Series Submittal**

## Automatic Pressure Independent Flow Limiter w/ Ball Valve

A: AFLB - ½" - 1" L B: AFLB - 1" H - 1½" L C: AFLB - 1½" H - 2"





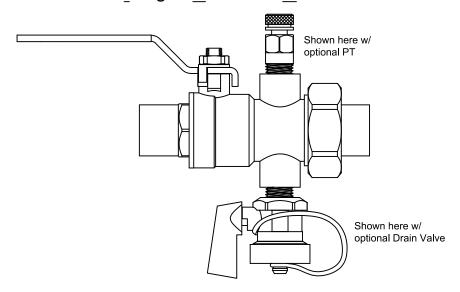
	Valve Size		FLOW RATE CODES (GPM)* CONTROL RANGE 2 - 60+ PSID **																								
	valve Size	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Υ	Z
Α	½" - 1" L	.33	.50	.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	9	10	11	12
В	1" H - 1½" L	5	5.5	6	6.5	7	8	9	10	12	13	14	15	16	18	20	22	24	26	28	30	32	34	36	38	40	42
С	1½" H - 2"	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	110	120	130	140	150	160	170	180

<sup>\*</sup> Custom flow rates can be calibrated at the factory for an additional charge. Unless confirmed as special, flow rates will default to standard flow rate.

JOB NAME:	REPRESENTATIVE:		
ENGINEER:	REF/PO#:	DATE:	
CONTRACTOR:	SUBMITTED BY:	DATE:	
PART # (See table above)	TAGGING/JOB INFORMATION	GPM	QUANTITY



## IBU Series Specifications Integral Ball Valve/Union



PRODUCT DESCRIPTION: The IBU is an integral ball valve and union. The IBU uses a full-port ball valve with a union ended brass body that provides two (2) 1/4" taps for accessories to be installed. All taps are plugged unless otherwise specified. Memory stops are available upon request. Fixed end connections may be SWT or FNPT. Union side connections available include MNPT, FNPT, and SWT, and a variety of reductions.

STANDARD MATERIAL SPECIFICATIONS							
Body O-Ring Tail Piece Union Nut Handle Stem Ball Ball Seat	D-Ring EPDM Fail Piece Brass ASTM B124-09, B228-06, or B763-08A Union Nut Brass ASTM B455 Handle Chrome Plated Steel Brass ASTM B124-09 - Blow-Out Proof Chrome Plated Brass - Full Port						
STANI	DARD OPERATING SPECIFICATIONS						
Maximum Working Pressure: 600 WOG / CWP Maximum Operating Temperature: 250° F							
Specification information is provided to assist and is given without obligation or warranty. The Company reserves the right to make changes							

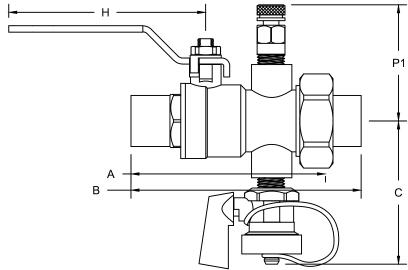
#### PRODUCT SPECIFICATIONS:

- Devices shall have a full port isolation valve to provide unrestricted flow
- Devices shall be designed to accept a memory stop
- Devices shall have a union end which allows for quick and convenient connection

in design, materials, and/or specifications without notice or liability.



# IBU Series Dimensions Integral Ball Valve/Union



MODEL	SIZE	А	TAIL PIECE	В	Lbs	С	Н	P1	* Cv
IBU1	½" - SWT	3.5	- M ½" - F - S	5.1 4.2 4.2	1.2 1.2 1.1	2,5	3,8	2.0	19
IBUT	½" - FPT	3.2	- M ½" - F - S	4.7 3.8 3.8	1.2 1.2 1.1	2.5	3,0	2.0	19
	³⁄4" - SWT	3,8	- M ½" - F - S	5.3 4.9 4.5	1.5 1.6 1.4				
IBU2	74 - 3001	5.0	- M ¾" - F - S	5.5 4.6 4.6	1.5 1.5 1.4	2.7	3.8	2.2	35
IBUZ	3/# EDT	2.2	- M ½" - F - S	4.8 4.4 4.1	1.5 1.6 1.4	2.7	3.6	2.2	33
	34" - FPT	3.3	- M 3⁄4" - F - S	5.0 4.1 4.1	1.6 1.5 1.4				
			½" - M 3/4" - S	6.5 6.5 5.2	2.1 2.1 1.9				
	1" - SWT	4.1	- M 1" - F	6.5 5.3 5.4	2.2 2.0				
IBU3			- S ½" - M 3/4" - S	5.4 5.7 5.7 4.5	1.9 2.1 2.1 1.9	2.7	5.0	2.2	49
	1" - FPT	3.7	- M 1" - F - S	5.7 4.6 4.7	2.2 2.0 1.9				

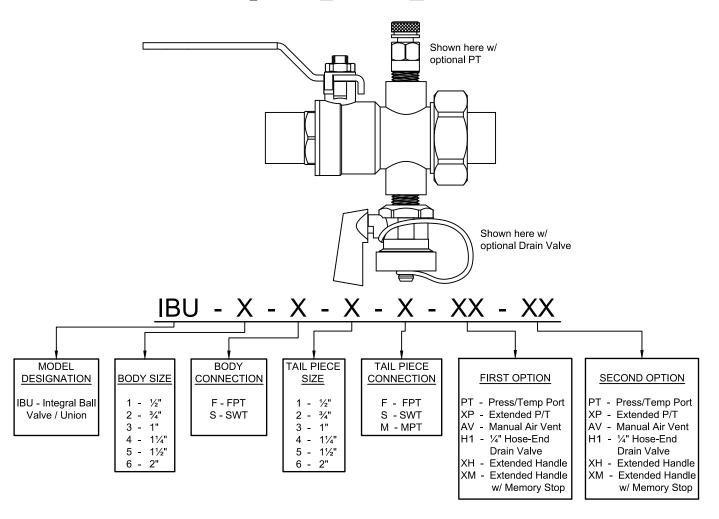
Note: Dimensions listed do not include ProPress or any other special fittings or adapters. All dimensions and materials are subject to minor variations. Consult with factory for confirmation of dimensions and material specifications at the time of order. Sweat size listed is nominal and will differ from the actual, measurable size.

IBU4    11/4" - SWT										
IBU4    11/4" - SWT	MODEL	SIZE	Α		В	Lbs	С	Н	P1	* Cv
IBU4    11/4" - SWT					7.0	3.6				
IBU4    11/4" - FPT				3⁄4" - M	7.0	3.8	1			
IBU4    11/4" - FPT		41/1 0\4/1	- 0	1" - M	7.0	3.8				
IBU4		174" - 5001	5.2	-M	7.0	3.9				
11/4" - FPT				11¼" - F	6.0	3.6				
11/4" - FPT	IRHA						32	46	25	102
11/4" - FPT	1004			½" - M	6.2	3.2	5.2	7.0	2.5	102
11/4" - FPT				¾" - M	6.5	3.3				
11/2" - SWT		41/" EDT	1 5		6.5					
BU5   1½" - SWT   5.8   1½" - M   7.5   4.6   1" - M   8.0   4.9   1½" - F   7.0   4.6   - S   7.0   4.4   1½" - F   7.0   4.6   - S   7.0   4.4   1½" - M   7.5   4.8   1½" - F   6.5   4.4   - S   6.3   4.2		174 - FPT	4.5							
IBU5  IBU5    1½" - SWT				1¼" - F	5.6					
IBU5  IBU5    1½" - SWT   5.8   1" - M   8.0   4.9   1½" - M   8.1   5.0   1½" - F   7.0   4.6   - S   7.0   4.4   11" - M   7.5   4.8   11½" - F   6.5   4.4   - S   6.3   4.2      2" - SWT   7.1   1½" - M   10.0   7.7   1½" - M   10.0   7.7   2" - F   8.2   7.1   - S   8.5   6.7   2.97      BU6   2" - FPT   6.0   1½" - M   8.9   7.4   1½" - M   1.0   1   1   1   1   1   1   1   1   1					5.7	3.0				
IBU5  IBU5    1½" - SWT				3⁄4" - M	7.5	4.6				
IBU5    1½" - SWI				1" - M	8.0	4.9				
IBU5    11/2" - F   7.0   4.6		41/1 0\4/1	F 0	1¼" - M	8.1	5.0				
IBU5   -S   7.0   4.4   3.5   5.5   2.7   266		11/2" - SVVI	5.8	- M	8.1	4.9				
IBU5    1½" - FPT   5.2     34" - M   7.1   4.4     4.8     11" - M   7.5   4.8     11½" - FPT   5.2     11½" - F   6.5   4.4     - S   6.3   4.2       4.2				1½" - F	7.0	4.6				
1½" - FPT   5.2   1½" - M   7.5   4.8   1½" - M   7.5   4.8   1½" - F   6.5   4.4   1½" - F   6.5   4.4   1½" - M   10.0   7.7   1½" - M   10.0   7.7   2" - F   8.2   7.1   - S   8.5   6.7   2" - F   7.0   6.8   1½" - M   8.9   7.4   1½" - M   8.9   7.4   1½" - M   8.9   7.4   2" - F   7.0   6.8   1.5	IDIIE			- S	7.0	4.4	ا ۾ ا			000
11/2" - FPT	IB05			3⁄4" - M	7.1	4.4	3.5	5.5	2.7	266
172 - FFT   3.2				1" - M	7.5	4.8	1			
172 - FFT   3.2				11⁄4" - M	7.5	4.8	1			
BU6   -S   6.3   4.2		1½" - FPT	5.2	- M	7.5	4.7	1			
BU6   2" - FPT     10.1   8.0     11/4" - M   10.0   7.7     11/2" - M   10.0   7.7     11/2" - M   10.0   7.7     11/2" - M   10.0   7.7     2" - F   8.2   7.1     - S   8.5   6.7     7.8     11/4" - M   8.9   7.8     11/4" - M   8.9   7.4   11/2" - M   8.9   7.4   11/2" - M   8.9   7.4   11/2" - M   8.9   7.4   2" - F   7.0   6.8     1.0   1.				1½" - F	6.5	4.4				
2" - SWT   7.1				- S	6.3	4.2				
2" - SWT   7.1				1" - M	10.1	8.0				
IBU6    2" - SWI   7.1				1¼" - M	10.0	7.7	1			
IBU6    2" - FPT   6.0   10.0   7.7   2" - F   8.2   7.1   - S   8.5   6.7   7.8   8.9   7.8   11½" - M   8.9   7.4   11½" - M   8.9   7.4   2" - F   7.0   6.8     6.8     6.3   3.0   297		OII O.4.7-		1½" - M	10.0	7.7	1			
IBU6  - S 8.5 6.7  1" - M 8.9 7.8  1¼" - M 8.9 7.4  1½" - M 8.9 7.4  - M 8.9 7.4  - M 8.9 7.4  2" - FPT 6.0  2" - F 7.0 6.8		2" - SW I	7.1	- M	10.0	7.7	1			
2" - FPT 6.0 1" - M 8.9 7.8 11½" - M 8.9 7.4 11½" - M 8.9 7.4 11½" - M 8.9 7.4 2" - F 7.0 6.8 2" 5 6.3 3.0 297				2" - F	8.2	7.1				
2" - FPT 6.0 17-10 8.9 7.4 11/2" - M 8.9 7.4	IDIIO			- s	8.5	6.7	ا م د		١ , ,	007
2" - FPT 6.0 11/4" - M 8.9 7.4 11/2" - M 8.9 7.4 - M 8.9 7.4	IBOR			1" - M	8.9	7.8	3.5	6.3	3.0	297
2" - FPT 6.0 1½" - M 8.9 7.4 - M 8.9 7.4 2" - F 7.0 6.8					8.9	7.4				
2 - FP1   6.0   - M   8.9   7.4   2" - F   7.0   6.8		O"		1½" - M	8.9	7.4				
		Z" - FP1	6.0		8.9	7.4				
				2" - F	7.0	6.8				
				- S	7.2	6.4				

<sup>\*</sup> Cv = Estimated with union connection same as inlet, no reductions.



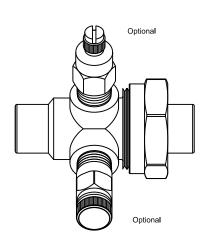
## IBU Series Submittal Integral Ball Valve/Union

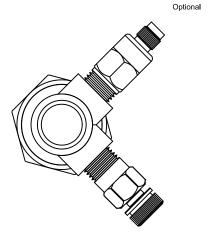


JOB NAME: ENGINEER:	CUSTOMER: REF/PO#:	DATE:	
CONTRACTOR:	SUBMITTED BY:	DATE:	
PART # (See table above)	TAGGING/JOB INFORMATION		QUANTITY



## AU Series Specifications Accessory Union





Optional

Product Description: The AU brass accessory union provides for component isolation. Port section contains two  $\frac{1}{2}$ " ports that come predrilled from the factory and are positioned 90° apart. The union side incorporates an o-ring for maximum sealing protection. Accessory union comes standard with  $\frac{1}{2}$ " plugs installed in the ports. Union side and port side connections available in NPTM, NPTF, and SWT. Rated at 600 WOG @ -22°F to 325°F.

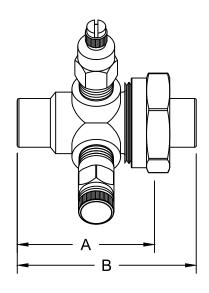
STANDARD MATERIAL SPECIFICATIONS									
Accessory Union O-Ring Tail Piece	D-Ring EPDM Brass ASTM B124-09, B228-06, or B763-08A								
given withou reserves the	information is provided to assist and is it obligation or warranty. The Company right to make changes in design, materials, ications without notice or liability.								

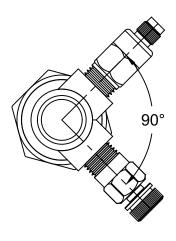
#### PRODUCT SPECIFICATIONS:

- 1/4" ports shall be located 90° distal on a rotational axis
- Integrated ports shall provide functionality for numerous options



## AU Series Dimensions Accessory Union



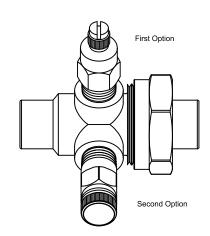


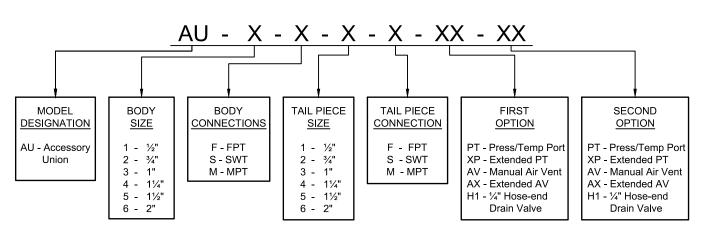
MODEL	SIZE	Α			LENGT	H "B" / W	/EIGHT O	F <i>PRO-</i> A	U AND TA	AIL PIECI	E CONNE	CTION		
AU1M AU1S AU1F	1/2"	2.7 2.1 2.0	½" M 4.2 3.7 3.6	0.6 0.5 0.6	½" S 3.3 2.8 2.7	0.6 0.4 0.5	½" F 3.3 2.8 2.7	0.6 0.5 0.5						
AU2M AU2S AU2F	3/4"	2.5 2.1 2.1	½" M 4.0 3.7 3.6	0.7 0.6 0.7	½" S 3.2 2.9 2.8	0.6 0.5 0.6	½" F 3.6 3.3 3.2	0.8 0.6 0.8	3/4" M 4.2 3.8 3.8	0.7 0.6 0.7	3/4" S 3.2 2.9 2.8	0.6 0.5 0.6	3/4" F 3.3 2.9 2.9	0.7 0.6 0.7
AU3M AU3S AU3F	1"	2.6 2.4 2.1	½" M 4.6 4.5 4.1	1.1 1.0 1.0	3/4" M 4.6 4.5 4.1	1.1 1.0 1.1	3/4" S 3.4 3.3 3.0	0.9 0.7 0.8	1" M 4.6 4.5 4.1	1.2 1.0 1.1	1" S 3.6 3.5 3.3	0.9 0.8 0.9	1" F 3.5 3.4 3.1	1.0 0.8 0.9
AU4M AU4S AU4F	1¼"	3.0 3.0 2.3	½" M 4.7 4.7 4.1	1.7 1.5 1.6	3/4" M 5.0 4.9 4.3	1.8 1.7 1.8	1" M 5.0 4.9 4.3	1.9 1.7 1.8	1¼" M 5.0 5.0 4.4	1.9 1.8 1.9	11/4" S 4.1 4.1 3.4	1.5 1.4 1.5	1¼" F 4.0 4.0 3.3	1.6 1.5 1.6
AU5M AU5S AU5F	1½"	3.0 3.0 2.7	3/4" M 4.9 4.9 4.6	lbs 2.3 2.2 2.3	1" M 5.5 5.5 5.1	lbs 2.6 2.6 2.7	11/4" M 5.5 5.5 5.1	2.7 2.6 2.7	1½" M 5.5 5.5 5.1	2.5 2.5 2.6	1½" S 4.2 4.2 3.9	lbs 2.1 2.0 2.2	1½" F 4.3 4.2 3.9	2.3 2.2 2.3
AU6M AU6S AU6F	2"	3.4 2.8 2.8	1" M 6.2 5.8 5.8	4.3 4.0 4.5	1¼" M 6.2 5.8 5.7	lbs 4.0 3.6 4.2	1½" M 6.2 5.8 5.7	4.0 3.6 4.1	2" M 6.2 5.8 5.8	lbs 4.1 3.7 4.2	2" S 4.8 4.2 4.2	3.1 2.7 3.2	2" F 4.6 4.0 3.9	3.4 3.0 3.5

Note: Dimensions listed above do not include ProPress or any other special fittings or adapters. All dimensions, weights, and materials are subject to minor variations. Consult with factory for confirmation of dimensions, weights, and material specifications. Sweat size listed is nominal and will differ from the actual, measurable size.



## AU Series Submittal Accessory Union

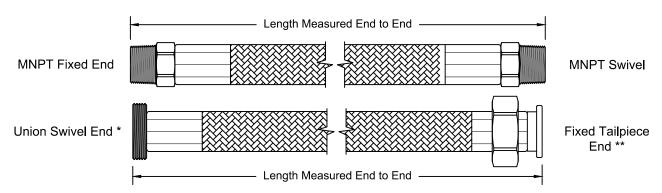




JOB NAME:	REPRESENTATIVE:		
ENGINEER:	REF/PO#:	DATE:	
CONTRACTOR:	SUBMITTED BY:	DATE:	
PART # (See table above)	TAGGING/JOB INFORMATION		QUANTITY



## HSS Series Specifications Stainless Steel Braided Hose



PRODUCT DESCRIPTION: The Model HSS is a stainless steel braided hose that is abrasion resistant. The HSS has a CPE inner tube with brass end connections and stainless steel ferrules for the  $\frac{1}{2}$ " - 1" hose sizes, and an EPDM inner tube with stainless steel ferrules and plated steel end connections for the  $\frac{1}{4}$ " - 2" hose sizes. The flexible hose eases installation and is designed to withstand high pressures and varying temperatures. The standard end connections are MNPT Fixed x MNPT Swivel for  $\frac{1}{2}$ " to 2", and FNPT Swivel for  $\frac{1}{2}$ " to 2". Other available end connection options are FNPT Swivel, Union Swivel \*, and Fixed Tailpiece\*\* and accessory union connections; available for the  $\frac{1}{2}$ " to 2" hose sizes. The Model HSS is BUY AMERICAN COMPLIANT.

<sup>\*\*</sup> The Fixed Tailpiece hose end connection is designed to connect directly to union ended coil kit components (AFLB, AFLD, AU, CBV, IBU, or IVY). The tailpiece end eliminates multiple connections.

	PRODUCT SPECIFICATIONS
Tube	CPE (Chlorinated Polyethylene) for ½" - 1" sizes - SAE J1019
	EPDM (Ethylene Propylene Diene Monomer) for 11/4" - 2" sizes - SAE 20R1-D1
Reinforcement	304L Stainless Steel braid cover meets UL-94 requirements
Ferrules	Type 304L stainless Steel
End Fittings	1/2" - 1" I.D Brass
	11/4" - 2" I.D Steel Plated
End Connections	Fixed MNPT, FNPT, Swivel MNPT, Swivel FNPT (½"-2"), Swivel Union (½" - 2"), Fixed Tailpiece (½"-2")
Temperature	-40°F to 257°F (-40°C to 125°C) NOTE HOSE IS NOT INTENDED FOR STEAM APPLICATIONS.
Ratings	Meets UL-94 Requirements
	Fire Retardant Material (CPE)
	ormation is provided to assist and is given without obligation or warranty. The Company reserves the anges in design, materials, and/or specifications without notice.

Size	Length	Working PSI	Bend Radius	** Cv
1/2"	12, 18, 24, 30, 36	500	5"	7
3/4"	12, 18, 24, 30, 36	500	7"	20
1"	12, 18, 24, 30, 36	500	10"	43
11/4"	12, 18, 24, 30, 36	200	12"	76
1½"	12, 18, 24, 30, 36	200	15"	130
2"	12, 18, 24, 30, 36	200	20"	280

Length is measured End to End on all hose connection types.

<sup>\*</sup> The Swivel Union comes standard with an EPDM O-ring, tailpiece, and union nut which must be specified at the time of order. The swivel union easily converts line connection types and offers line size reductions. The tailpieces are available in FNPT, MNPT, and Sweat ends.

<sup>\*\*</sup> Cv listed in chart above is for a 24" length hose. The Cv is estimated and can vary according to installation.



## HSS Series Options Stainless Steel Braided Hose

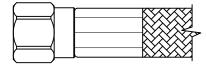
Fixed MNPT

Swivel MNPT



#### Additional End Connections





Male

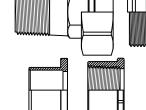
Swivel FJIC
Available in ½"
thru 1"



#### **Swivel Union**

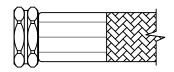
Available in 1/2" thru 1"

The Swivel Union must have the tailpiece connection size and type specified at time of order. Tailpiece options include FPT, SWT, MPT, and a variety of reductions.



Female

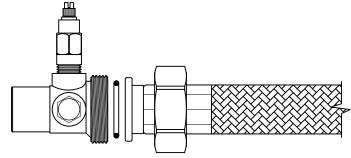
Swivel FNH Available in ½" thru ¾"



## Fixed Tailpiece

Available in 1/2" thru 2"

The Fixed Tailpiece end connects directly to PRO Hydronic Specialties' union ended products.

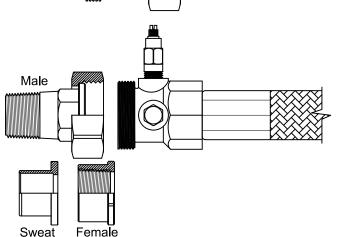


## **Swivel Accessory Union**

Available in 1/2" thru 2"

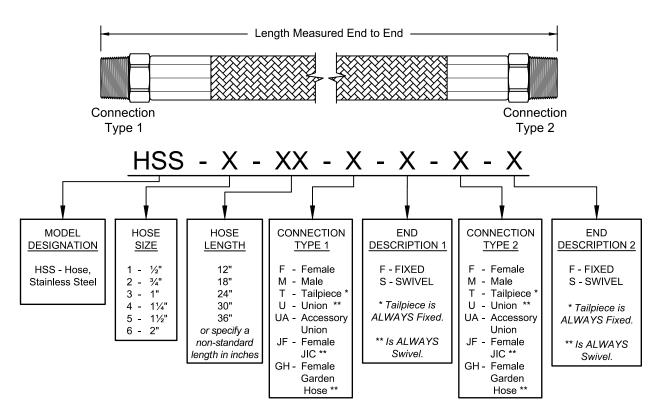
The Swivel Accessory Union must have the tailpiece connection size and type specified at time of order.

Tailpiece options include FPT, SWT, MPT, and a variety of reductions.





## HSS Series Submittal Stainless Steel Braided Hose



#### When ordering, at least one hose end connection must be a swivel.

JOB NAME:	REPRESENTATIVE:	
ENGINEER:	REF/PO#:	DATE:
CONTRACTOR:	SUBMITTED BY:	DATE:
	PART # (See table above)	QUANTITY