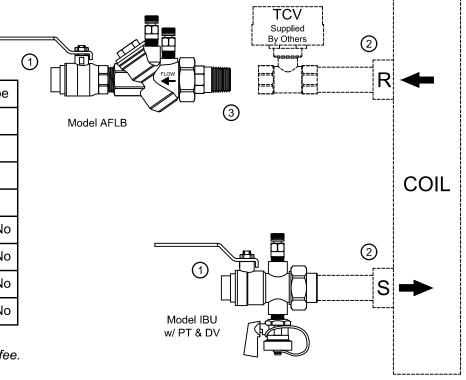


Automatic Balancing Kit - ANB Submittal TCV Supplie By Othe

	#	Size	Connect	ion T	уре
Runout	1				
Coil	2				
If w/ TCV	3		MF	PT	
Service	es pro	ovided fo	r additiona	l fee:	
Extended (Comp	onents	Yes		No
Factory M	ounte	ed TCV	Yes		No
Stainless	Stee	el Trim	Yes		No
Bag	N Tag	9	Yes		No

^{* 3/8&}quot; Coil Size available in SWT ONLY.

^{**} ProPress fittings supplied for additional fee.



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.

QUANTITY	GPM	TAGGI	NG INFORMATION	
JOB NAME		REPRESENTAT	IVE	
ENGINEER		REF/PO#		DATE
CONTRACT	OR	SUBMITTED BY		DATE



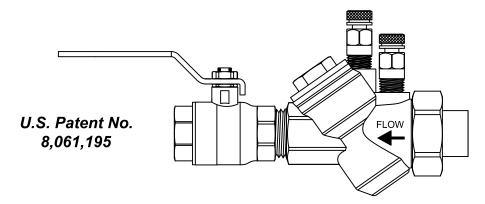
AFLB Series Specifications

Automatic Pressure Independent Flow Limiter w/ Ball Valve

A: AFLB - 1/2" - 1" High

B: AFLB - 1" High - 11/2" 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.

		STA	ADA	RD N	ИАТЕ	RIAL	SPE	CIFI	CATI	ONS							ST	AND	ARD	OPE	RATI	NG S	SPEC	IFICA	OITA	NS	
Bod O-F	•			_	3rass	AST	M B2	283-0	6 or (Cast E	3rass	AST	M B7	'63-0	8A	Co	ontrol	Ran	ge:				2 psi	- 60+	- psi		
	Piece, Packing Nut	i	EPDM Brass ASTM B124-09, B228-06, or B763-08A										Accuracy:					±5%									
	on Nut		Brass ASTM B455										Max Working Pressure:					600 WOG / CWP									
	w Cartridge		ASTM A582 Type 303 Stainless Steel												erati	•			٥.	40°E	to 25	ı∩∘⊏					
Spr	phragm ing		1		nless	Stee	d												Ū		iatui		40°F to 250°F				
	Port							Core								St	art-U	р Неа	ad Lo	SS:			5 Fee	et of h	H ₂ O		
Ste Ball	Seat, Packing Glar	nd	Bra Chr Tef	ss As ome lon	STM Plate	B124 ed Bra	-09 - ass	283-00 Blow Viny	-Out		f					gi\ res	en v serve	vithoos s the	ut ob right	ligati to m	on o ake o	r wa chang	video rranty ges in ice or	. T desi	he C gn, m	ompa	any
	Valve Size							F	LOV	/ RAT	TES (GPM) *	CON	ITRO	L RA	NGE	2 - 6	0+ P	SID *	*						
	valve Size	Α	В	С	D	Ε	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

^{*} 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.

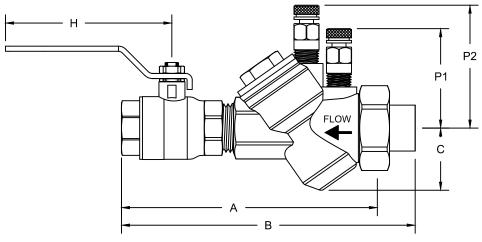
PRODUCT SPECIFICATIONS:

- 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
1½" 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
³⁄4" 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
74 3001	0.0	- M ¾" - F - S	8.3 7.2 7.2	2.5 2.4 2.4	1.7	0.0	2.0	2.0	1.0
³¾" 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
/4 IFI	0.1	- M ³ ⁄ ₄ " - F - S	7.8 7.0 6.8	2.5 2.4 2.4	1.4	3.0	2.0	2.0	1.0
		½" - M	9.5	3.5					
411 014/7	7.0	³¼" - M - S	9.5 8.2	3.5 3.3	4.0			0.5	
1" SWT	7.3	- M 1" - F - S	9.5 8.5 8.5	3.6 3.4 3.3	1.2	5.0	2.0	2.5	2.1
		½" - M	8.7	3.5					
All EDT	0.7	_{3∕4} " - M - S	8.7 7.5	3.5 3.3	4.0			0.5	
1" FPT	6.7	- M 1" - F - S	8.7 7.6 7.6	3.6 3.4 3.3	1.2	5.0	2.0	2.5	2.1

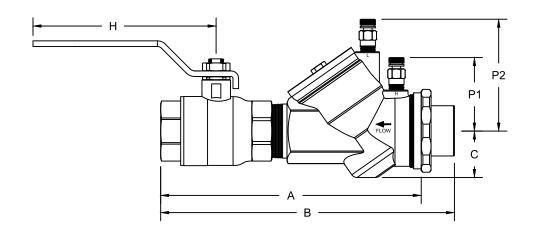


Note: Dimensions listed above do not include ProPress or any other special fittings or adapters. All dimensions, weights, and materials are subject to minor variations. Consult with factory for confirmation of dimensions and material specifications. Sweat size listed is nominal and will differ from the 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	Α	TAIL PIECE	В	WEIGHT (lbs)	С	Н	P1	P2	w
1" SWT	8.6	- M 1" - 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	- M 1" - 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	- M 1" - 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	- M 1¼" - F - S	11.1 10.1 10.2	6.3 6.0 5.9	<u>.</u>	3.0	2.0	2.0	3.9
11/4" FPT	8.3	- M 1" - F - S	10.3 9.3 9.6	6.2 6.0 5.9	1.4	5.0	2.3	2.6	3.9
1/4 1 5 1	0.3	- M 1¼" - F - S	10.3 9.0 9.5	6.3 5.8 5.9	1.4	5.0	2.3	2.0	3.9
1½" SWT	9.4	- M 1¼" - 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	- M 1½" - F - S	11.9 10.6 10.6	6.4 6.1 5.9	1.4	0.3	2.0	3.4	3.2
1½" FPT	9.0	- M 1¼" - F - S	11.0 11.0 10.0	6.4 6.5 5.8	1.4	6.3	2.5	3.4	3.2
172 FF1	9.0	- M 1½" - F - S	11.0 9.7 9.7	6.3 6.0 5.8	1.4	0.3	2.0	3.4	3.2

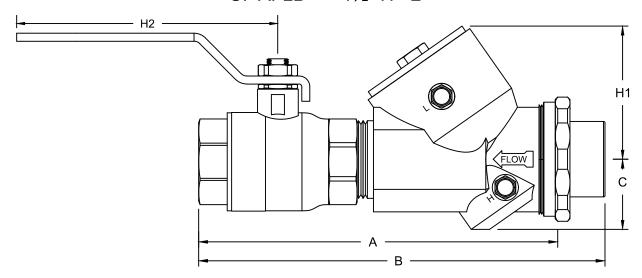


Note: Dimensions listed above do not include ProPress or any other special fittings or adapters. All dimensions, weights, and materials are subject to minor variations. Consult with factory for confirmation of dimensions and material specifications. Sweat size listed is nominal and will differ from the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

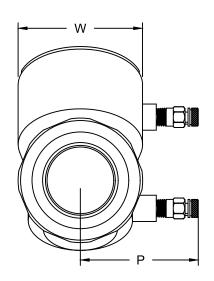


AFLB Series Dimensions

<u>A</u>utomatic Pressure Independent <u>Flow Limiter w/ B</u>all Valve 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
1/2 SW1	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	7.2	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	4.2	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
	10.0	- M 2" - F - S	13.6 11.8 12.0	15.4 14.8 14.4	2. 2	7.2	0.2	0.2	J.,



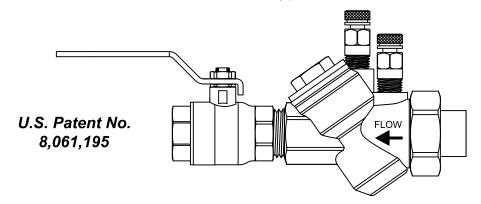
Note: Dimensions listed above do not include ProPress or any other special fittings or adapters. All dimensions, weights, and materials are subject to minor variations. Consult with factory for confirmation of dimensions and material specifications. Sweat size listed is nominal and will differ from the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

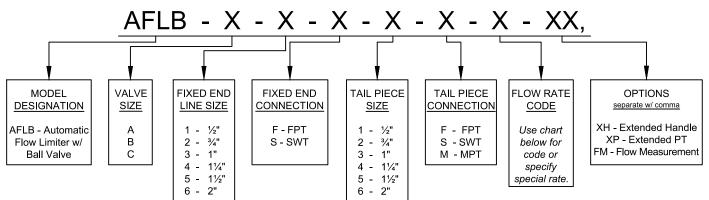


AFLB Series Submittal

Automatic Pressure Independent Flow Limiter w/ Ball Valve

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





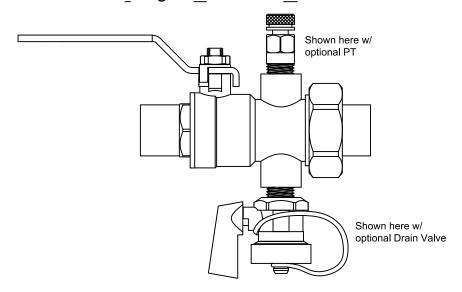
	Valve Size		FLOW RATE CODES (GPM)* CONTROL RANGE 2 - 60+ PSID **																								
	valve Size	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Υ	Z
7	½" - 1" L	.33	.50	.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	9	10	11	12
Е	1" H - 1½" L	5	5.5	6	6.5	7	8	9	10	12	13	14	15	16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

^{*} 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	Forged Brass ASTM B283-06 or ASTM B763-08A EPDM Brass ASTM B124-09, B228-06, or B763-08A Brass ASTM B455 Chrome Plated Steel Brass ASTM B124-09 - Blow-Out Proof Chrome Plated Brass - Full Port Teflon							
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								

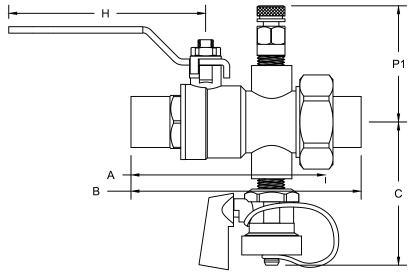
PRODUCT SPECIFICATIONS:

- 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 1/2" - 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				

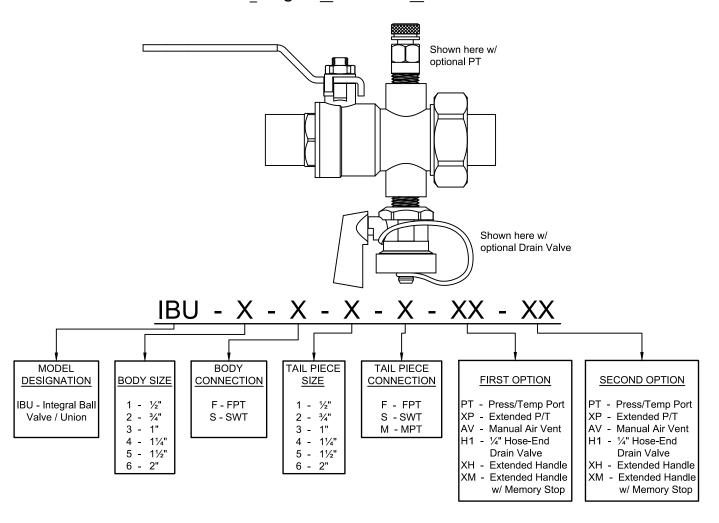
Note: Dimensions listed do not include ProPress or any other special fittings or adapters. All dimensions and materials are subject to minor variations. Consult with factory for confirmation of dimensions and material specifications at the time of order. Sweat size listed is nominal and will differ from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

MODEL	SIZE	Α	TAIL PIECE	В	Lbs	С	Н	P1	* Cv
			½" - M	7.0	3.6				
			3⁄4" - M	7.0	3.8	1			
	41/1 0\4/1	F 0	1" - M	7.0	3.8				
	1¼" - SWT	5.2	-M	7.0	3.9				
			11⁄4" - F	6.0	3.6				
IBU4			- S	6.2	3.4	3.2	4.6	2.5	102
1004			½" - M	6.2	3.2	3.2	4.0	2.5	102
			3⁄4" - M	6.5	3.3				
	1¼" - FPT	4.5	1" - M	6.5	3.4				
	174 - FPT	4.5	- M	6.5	3.4				
			11⁄4" - F	5.6	3.1				
			- S	5.7	3.0				
			3⁄4" - M	7.5	4.6				
			1" - M	8.0	4.9	1			
	41/1 0\4/1	- 0	11⁄4" - M	8.1	5.0	1			
	1½" - SWT	5.8	- M	8.1	4.9	1			
			1½" - F	7.0	4.6				
			- S	7.0	4.4				
IBU5			3⁄4" - M	7.1	4.4	3.5	5.5	2.7	266
			1" - M	7.5	4.8	1			
			11⁄4" - M	7.5	4.8	1			
	1½" - FPT	5.2	- M	7.5	4.7	1			
			1½" - F	6.5	4.4				
			- s	6.3	4.2				
			1" - M	10.1	8.0				
			1¼" - M	10.0	7.7	1			
			1½" - M	10.0	7.7	1			
	2" - SWT	7.1	- M	10.0	7.7	1			
			2" - F	8.2	7.1				
			- s	8.5	6.7				
IBU6			1" - M	8.9	7.8	3.5	6.3	3.0	297
			1¼" - M	8.9	7.4				
	O" EDT	0.0	1½" - M	8.9	7.4				
	2" - FPT	6.0	- M	8.9	7.4				
			2" - F	7.0	6.8				
			- S	7.2	6.4				

^{*} Cv = Estimated with union connection same as inlet, no reductions.



IBU Series Submittal Integral Ball Valve/Union



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