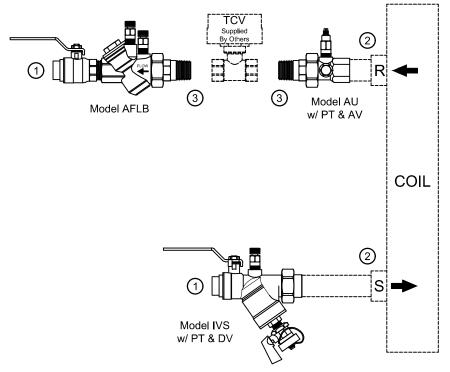


	#	Size	Connect	ion Type			
Runout	1						
Coil	2						
TCV	3		MI	PT			
Service	es pro	ovided fo	r additiona	l fee:			
Extended (	Comp	onents	Yes	No No			
Factory M	ounte	ed TCV	Yes	No			
Stainless	Stee	el Trim	Yes N				
Bag	N Taç	9	Yes No				



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



**PRODUCT DESCRIPTION:** The Automatic Balancing 2-way 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	TAGG	ING INFORMATION	
JOB NAME		REPRESENTA <sup>*</sup>	ΓΙVE	
ENGINEER		REF/PO#		DATE
CONTRACT	OR	SUBMITTED BY	(	DATE



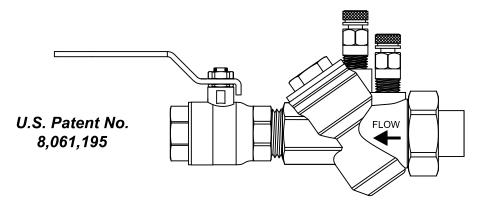
### **AFLB Series Specifications**

### 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	Co	ontrol	Ran	ge:				2 psi	- 60+	- psi		
	Piece, Packing Nut		1		STM	B124	-09, I	3228	-06, c	or B76	30-8	8A				Ad	cura	су:					±5%				
	on Nut		Brass ASTM B455									Ma	ax Wo	orkino	a Pre	ssure	e:		600 \	NOG	/ CW	Ρ					
	v Cartridge		ASTM A582 Type 303 Stainless Steel									Max Operating Temperature: 40°F to 250°F															
Spri	ohragm ing		EPDM 302 Stainless Steel																								
	Port					urom		Core								Start-Up Head Loss: 5 Feet of H <sub>2</sub> O											
Ster Ball	Seat, Packing Glar	nd	Bra Chr Tef	ss As ome lon	STM   Plate	AST B124 d Bra	-09 - ass	Blow	-Out	Proo ⁄er	f					giv re:	ven 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	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	3.5 4 4.5 5 5.5 6 6.5 7 7.5 8 9 10 11 1:						12						
В	1" H - 1½" L	5	5.5	6	6.5	7	8	9	10	12	13	14	15	16	16   18   20   22   24   26   28   30   32   34   36   38   40					42							
С	1½" H - 2"	15	20										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.

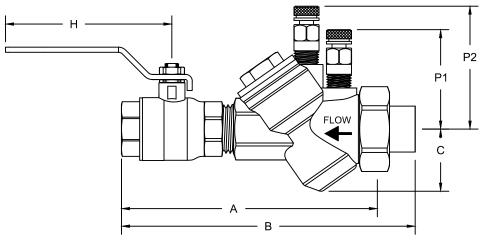
#### PRODUCT SPECIFICATIONS:

- 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	

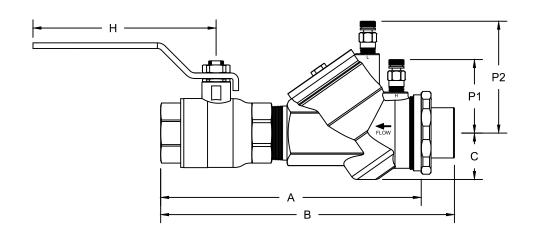


Note: Dimensions listed above do not include ProPress or any other special fittings or adapters. All dimensions, weights, and materials are subject to minor variations. Consult with factory for confirmation of dimensions and material specifications. Sweat size listed is nominal and will differ from the 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	1.4	5.0	2.3	2.6	3.9	
1/4 11 1	0.5	11⁄4"	- M - 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	11⁄4"	- M - F - S	11.9 11.9 10.9	6.5 6.6 5.9		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	

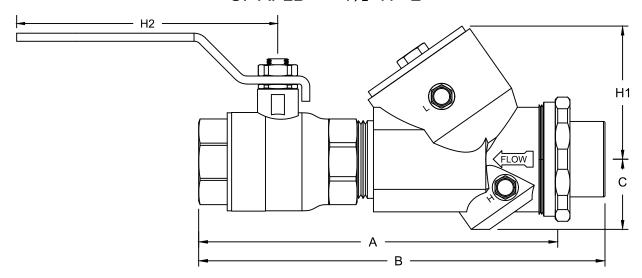


Note: Dimensions listed above do not include ProPress or any other special fittings or adapters. All dimensions, weights, and materials are subject to minor variations. Consult with factory for confirmation of dimensions and material specifications. Sweat size listed is nominal and will differ from the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

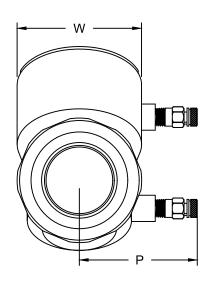


### **AFLB Series Dimensions**

# <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
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	1.2	0.3	0.2	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.	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" FPT	10.6	- 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.,



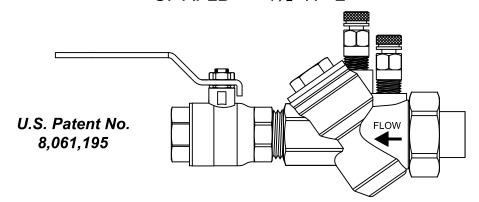
Note: Dimensions listed above do not include ProPress or any other special fittings or adapters. All dimensions, weights, and materials are subject to minor variations. Consult with factory for confirmation of dimensions and material specifications. Sweat size listed is nominal and will differ from the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

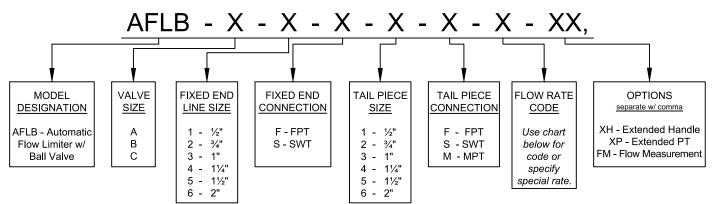


### **AFLB Series Submittal**

### Automatic Pressure Independent Flow Limiter w/ Ball Valve

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





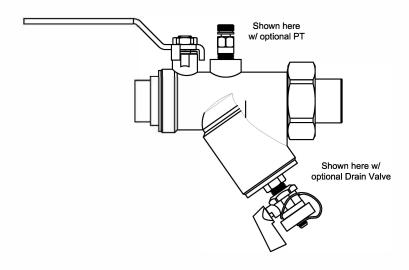
	Valve Size		FLOW RATE CODES (GPM)* CONTROL RANGE 2 - 60+ PSID **																								
	valve Size	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Υ	Z
Α	½" - 1" L	.33	.50	.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	9	10	11	12
В	1" H - 1½" L	5	5.5	6	6.5	7	8	9	10	12	13	14	15	16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



# IVS Series Specifications Integral Ball Valve/Wye Strainer/Union



PRODUCT DESCRIPTION: The IVS is an integral ball valve, wye-strainer and union. The IVS uses a full-port ball valve for positive shut-off and offers two (2) predrilled ¼" taps for accessories to be installed. The strainer has a 20-mesh stainless steel screen to aid in debris removal. The strainer cap has a ¼" tap for a hose-end drain valve. The ball valve has a PTFE packing gland, brass packing nut, and blow-out proof double o-ring stem seal. The fixed end connections may be FNPT or SWT. The union side connections Include MNPT, FNPT, SWT, and a variety of reductions.

Specification information is provided to assist and is given without obligation or warranty. The Company reserves the right to make changes in design, materials, and/or specifications without notice or liability.

#### PRODUCT SPECIFICATIONS:

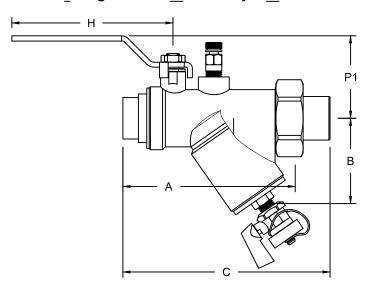
- Device shall have a full port isolation valve
- Device shall have a 20 mesh accessible strainer sleeve
- Device shall have a blow down for debris removal
- Device shall have a functional by-pass
- The strainer screen shall have a minimum 8:1 ratio of total area against the internal pipe diameter

Form Number: SUBIVS-PRO 1

Revision 3 - 10/2020



# IVS Series Dimensions Integral Ball Valve/Wye Strainer/Union



Model	Size	Α	В	Ι	P1	* R
IVS1-SWT	1/2"	4.0	2.0	4.2	2.0	21:1
IVS2-SWT	3/4"	4.6	2.3	4.2	2.2	11:1
IVS3-SWT	1"	5.8	2.7	4.2	2.3	11:1
IVS1-FPT	1/2"	3.7	2.0	4.2	2.0	21:1
IVS2-FPT	3/4"	4.1	2.3	4.2	2.2	11:1
IVS3-FPT	1"	5.0	2.7	4.2	2.3	11:1

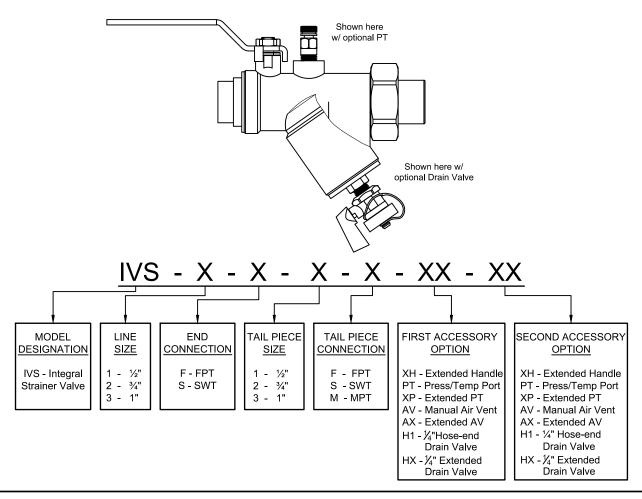
Note: Dimensions above do not include ProPress or any other special fittings or adapters. All dimensions, weights, and materials are subject to minor variations. Consult with factory for confirmation of dimensions, weights, and material specifications.

\* R = Ratio of screen surface area to cross-sectional pipe diameter

Size	Tail I	Piece	С	Weight	Size	Tail I	Piece	С	Weight
		- M	5.5	1.8			- M	5.2	1.6
½" SWT	1/2"	- F	4.6	1.5	½" FPT	1/2"	- F	4.3	1.5
		- S	4.6	1.5			- S	4.3	1.5
		- M	6.1	2.0			- M	5.6	2.1
	1/2"	- F	5.7	2.1		1/2"	- F	5.1	2.2
⅓" SWT		- S	5.2	2.0	¾" FPT		- S	4.7	2.0
74 3W1		- M	6.2	2.1	74 FF1		- M	5.7	2.1
	3/4"	- F	5.3	2.0		¾"	- F	4.8	2.0
		- S	5.5	2.0			- S	4.8	2.0
	1/2"	- M	7.8	3.0		1/2"	- M	7.0	2.9
	3/4"	- M	7.8	3.0		3/4"	- M	7.0	2.9
1" SWT	74	- S	6.6	2.7	1" FPT	74	- S	5.8	2.6
' 3\\'		- M	7.7	3.0	I PPI		- M	7.0	2.9
	1"	- F	6.7	2.8		1"	- F	6.0	2.7
		- S	6.7	2.7			- S	6.0	2.7



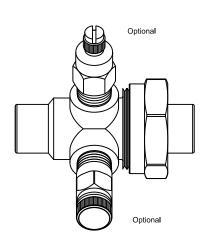
# IVS Series Submittal Integral Ball Valve/Wye Strainer/Union

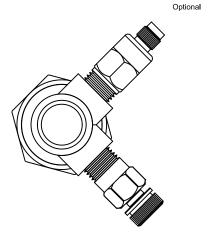


JOB NAME:	CUSTOMER:		
ENGINEER:	REF/PO#:	DATE:	
CONTRACTOR:	SUBMITTED BY:	DATE:	
PART # (See table above)	TAGGING/JOB INFORMATION		QUANTITY



### 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.

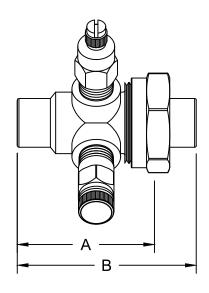
STANDARD MATERIAL SPECIFICATIONS					
Accessory Union O-Ring Tail Piece	Forged Brass ASTM B283-06 EPDM Brass ASTM B124-09, B228-06, or B763-08A				
Specification information is provided to assist and is given without obligation or warranty. The Company reserves the right to make changes in design, materials, and/or specifications without notice or liability.					

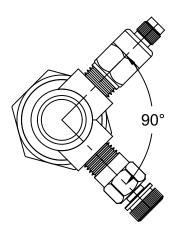
#### PRODUCT SPECIFICATIONS:

- 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



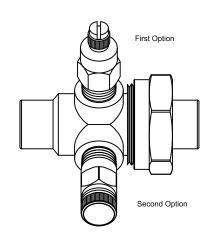


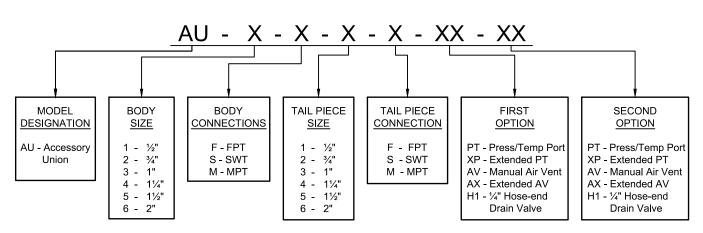
MODEL	SIZE	Α	LENGTH "B" / WEIGHT OF <i>PRO-</i> AU AND TAIL PIECE CONNECTION											
AU1M AU1S AU1F	1/2"	2.7 2.1 2.0	½" M 4.2 3.7 3.6	0.6 0.5 0.6	½" S 3.3 2.8 2.7	0.6 0.4 0.5	½" F 3.3 2.8 2.7	0.6 0.5 0.5						
AU2M AU2S AU2F	3/4"	2.5 2.1 2.1	½" M 4.0 3.7 3.6	0.7 0.6 0.7	½" S 3.2 2.9 2.8	0.6 0.5 0.6	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	lbs 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