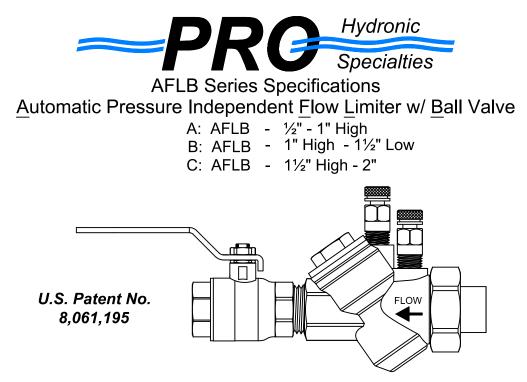


	#	Size	Cor	nnecti	on T	уре			
Runout	1								
Coil	2								
TCV	3			MF	РΤ				
Services provided for additional fee:									
Extended	Comp	oonents		Yes		No			
Factory M	ounte	ed TCV		Yes		No			
Stainless	Stee		Yes		No				
Bag	Ν Τα		Yes		No				

* 3/8" 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	TA	GGING	G INFORMATION		
JOB NAME		REPRESEN	ΙΤΑΤΙνΙ	E		
ENGINEER		REF/PO#		•	DATE	
CONTRACTO	OR	SUBMITTE	D BY		DATE	



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.

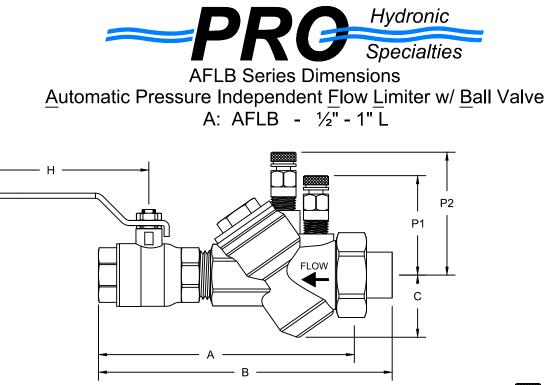
		STA	NDA		/ATE	RIAL	SPE	CIFI	CATI	ONS						STANDARD OPERATING SPECIFICATIONS																	
Body O-Ring			Forged Brass ASTM B283-06 or Cast Brass ASTM B763-08A										Forged Brass ASTM B283-06 or Cast Brass ASTM B763-08A EPDM																2 psi - 60+ psi				
•	e, Packing Nut				STM I	B124	-09, E	3228-	-06, c	or B76	63-08	8A				Ac	cura	cy:				:	±5%										
Union Nu	-					B455										Ma	ax Wo	orking) Pre	ssure	:		600 V	vog	/ CW	P/P							
Flow Cart Diaphrag	0				582 7	Гуре	303 8	Stainl	ess S	Steel						Ma	ax Op	erati	na Te	mne	rature	<u>.</u>	40°F	to 25	50°F								
Spring PT Port			EPDM 302 Stainless Steel EPDM Duel Durameter Corre											art-U		0	•			5 Fee													
Ball Valve Stem Ball Ball Seat, Handle	e , Packing Glan	nd	EPDM Dual Durometer Core Forged Brass ASTM B283-06 Brass ASTM B124-09 - Blow-Out Proof Chrome Plated Brass d Teflon Chrome Plated Steel w/ Vinyl Cover										giv res	/en v	vithou s the	ut ob right	ligati to m	on oi ake c	r wai chang	rranty jes in	/. T desi	assis he C gn, m lity.	ompa	any									
	ve Size							F	LOW	/ RA1	ES (GPM) *	CON	ITRO	L RA	NGE	2 - 6	0+ P	SID *	*												
	ve Size	A B C D E F G H I J K L M N									Ν	0	Ρ	Q	R	S	Т	U	V	w	Χ	Y	Z										
А	1⁄2" - 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										
B 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						
C 1	1½" H - 2"	15	6 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



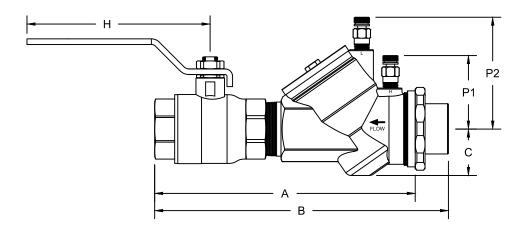
BALL VALVE SIZE AND TYPE	А	TAIL PIECE	В	WEIGHT (lbs)	С	Н	P1	P2	W
1⁄2" SWT	5.7	- M 1⁄2" - F - S	7.3 6.4 6.4	1.8 1.8 1.7	1.3	3.7	2.3	2.8	1.7
½" FPT	5.4	- M 1⁄2" - F - S	7.0 6.0 6.0	1.8 1.8 1.7	1.3	3.7	2.3	2.8	1.7
³⁄₄" SWT	6.6	- M ½" - F - S	8.1 7.3 7.3	2.4 2.4 2.4	1.4	3.8	2.0	2.6	1.8
		- M ¾" - F - S	8.3 7.2 7.2	2.5 2.4 2.4					
3/" 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	1.4	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	7.5	- M 1" - F - S	9.5 8.5 8.5	3.6 3.4 3.3	1.2	5.0	2.0	2.0	2.1
1" FPT	67	¹ / ₂ " - M ³ / ₄ " - M - S	8.7 8.7 7.5	3.5 3.5 3.3	1.2	5.0	2.0	2.5	2.1
	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



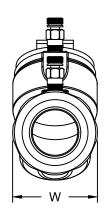
Note: Dimensions listed above do not include ProPress or any other special fittings or adapters. All dimensions, weights, and materials are subject to minor variations. Consult with factory for confirmation of dimensions and material specifications. Sweat size listed is nominal and will differ from the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



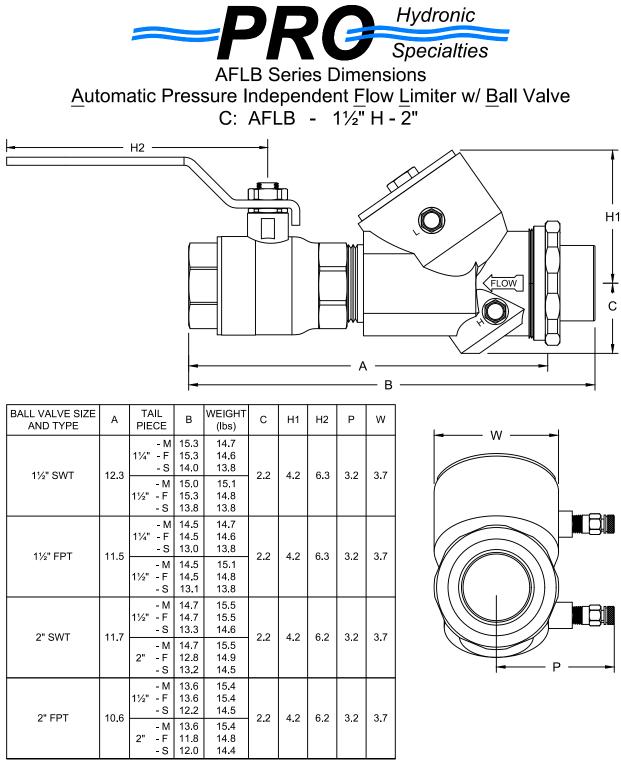
AFLB Series Dimensions <u>A</u>utomatic Pressure Independent <u>F</u>low <u>L</u>imiter w/ <u>B</u>all Valve B: AFLB - 1" H - 1½" L



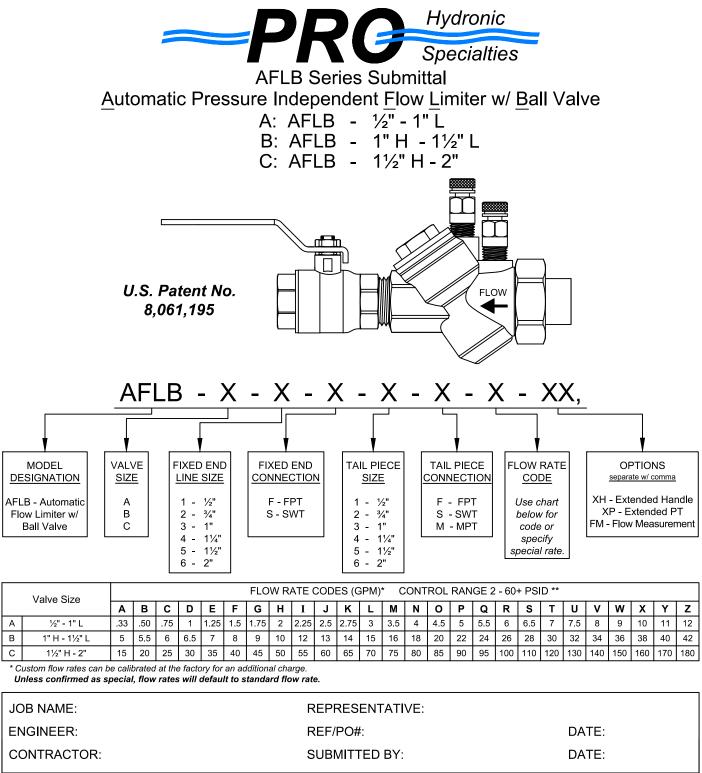
BALL VALVE SIZE AND TYPE	А	TAIL PIECE	В	WEIGHT (lbs)	С	Н	P1	P2	w
1" SWT	8.6	- M 1" - F - S	10.6 9.5 9.5	5.3 5.2 5.1	1.4	5.0	2.3	2.6	3.9
1" FPT	8.0	- M 1" - F - S	10.0 8.8 9.0	5.3 5.2 5.1	1.4	5.0	2.3	2.6	3.9
1¼" SWT	9.1	- M 1" - F - S	11.0 11.1 10.5	6.2 6.3 5.9	1.4	5.0	2,3	2.6	3.9
174 SWI	9.1	- M 1¼" - F - S	11.1 10.1 10.2	6.3 6.0 5.9	1.4	5.0	2.3	2.0	5.9
1¼" 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 FF1	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
	0.4	- M 1¼" - F - S	11.9 11.9 10.9	6.5 6.6 5.9		<u> </u>	0.5	2.4	2.0
1½" SWT	9.4	- M 1½" - F - S	11.9 10.6 10.6	6.4 6.1 5.9	1.4	6.3	2.5	3.4	3.2
	0.0	- M 1¼" - F - S	11.0 11.0 10.0	6.4 6.5 5.8			0.5	2.4	2.0
1½" FPT	9.0	- M 1½" - F - S	11.0 9.7 9.7	6.3 6.0 5.8	1.4	6.3	2.5	3.4	3.2



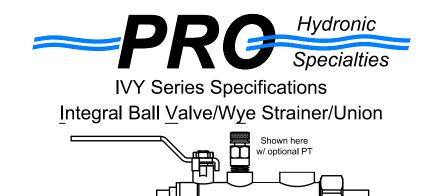
Note: Dimensions listed above do not include ProPress or any other special fittings or adapters. All dimensions, weights, and materials are subject to minor variations. Consult with factory for confirmation of dimensions and material specifications. Sweat size listed is nominal and will differ from the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



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.



PART # (See table above)	TAGGING/JOB INFORMATION	GPM	QUANTITY



PRODUCT DESCRIPTION: The IVY is an integral ball valve, wye-strainer and union. The IVY uses a full-port ball valve for positive shut-off and offers two (2) predrilled ¼" taps for accessories to be installed. A ¼" standard port and by-pass tap are provided at the forward 12:00 position. The bypass port comes tapped and plugged for 2-way control valve configurations. The bypass port remains open on 3-way control valve configurations to install a bypass valve. (See IVY Series Dimensions page for bypass valve sizes.) An additional side port is available for factory drilling and tapping a ¼" port. 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.

Shown here w/ optional Drain Valve

	STANDARD MATERIAL SPECIFICATIONS	PORT LOCATIONS
Body O-Ring Tail Piece Union Nut PT Seal Handle Stem Ball Ball Seat Packing Gland Packing Nut	Forged Brass ASTM B283-06, or cast Brass ASTM B763-08A EPDM Brass ASTM B124-09, B228-06, or B763-08a Brass ASTM B455 EPDM Dual Durometer Core Chrome Plated Steel Brass ASTM B124-09 - Blow-Out Proof Crome Plated Brass - Full Port Teflon Teflon Brass ASTM B124-09, B228-06, or B763-08a	Side Port (Optional) S B Standard (Optional)
Maxin	num Working Pressure: 600 WOG / CWP num Operating Temperature: -22° F to 325° F	Drain

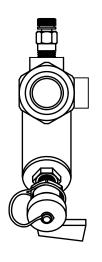
Specification information is provided to assist and is given without obligation or warranty. The Company reserves the right to make changes in design, materials, and/or specifications without notice or liability.

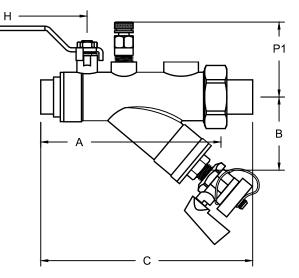
PRODUCT SPECIFICATIONS:

- Device shall have a full port isolation valve
- Device shall have a 20 mesh accessible strainer sleeve(0standard) or a 40 mesh accessible strainer sleeve (optional)
- 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



IVY Series Dimensions Integral Ball Valve/Wye Strainer/Union





		-											
Size	Weight	с	Tail Piece	Size	** Cv	* R	P1	н	в	А	Bypass Size	Size	Model
1⁄2" FPT	1.8 1.8	6.0 5.1	- M ½" - F	1⁄2" SWT	8	11:1	2.0	4.1	2.3	4.4	1/2	1/2	IVY1-SWT
	1.8	5.1	- S		9	8:1	2.1	3.8	2.2	5.4	1/2	3⁄4	IVY2-SWT
	2.2	7.0	- M ½" - F		20	11:1	2.3	3.9	2.7	6.1	1/2	1	IVY3-SWT
	2.3 2.2	6.3 6.1	י∕₂ - F - S	3∕4" SWT	23	9:1	2.7	3.8	3.2	7.0	3⁄4"	1 1/4"	IVY4-SWT
	2.3	7.0	- M	74 3001	44	13 : 1	3.0	6.3	3.2	8.6	3⁄4"	1 ½"	IVY5-SWT
	2.2 2.2	6.1 6.2	¾" - F - S		46	9:1	3.1	6.5	3.5	9.2	1"	2	IVY6-SWT
	3.2	8.1	½" −M		7	11:1	2.0	4.1	2.3	4.2	1⁄2	1/2	IVY1-FPT
	3.7 3.4	8.1 7.0	³∕₄" - M - S		8	8:1	2.1	3.8	2.2	4.9	1/2	3⁄4	IVY2-FPT
_ 1" FPT	3.5	8.1	- M	1" SWT	19	11:1	2.3	3.9	2.7	5.4	1/2	1	IVY3-FPT
	3.1 3.0	7.1 7.1	1" - F		21	9:1	2.7	3.8	3.2	6.3	3⁄4"	1 1/4"	IVY4-FPT
+	<u>3.0</u> 5.0	9.0	<u>-S</u> ¾"-M		45	13 : 1	3.0	6.3	3.2	7.5	3⁄4"	1 ½"	IVY5-FPT
1	5.0	9.0	1" - M		47	9:1	3.1	6.5	3.5	8.1	1"	2"	IVY6-FPT
1	10	1 0 0	' C										

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

** Cv = Estimated with Union Connection same as inlet, no reductions.

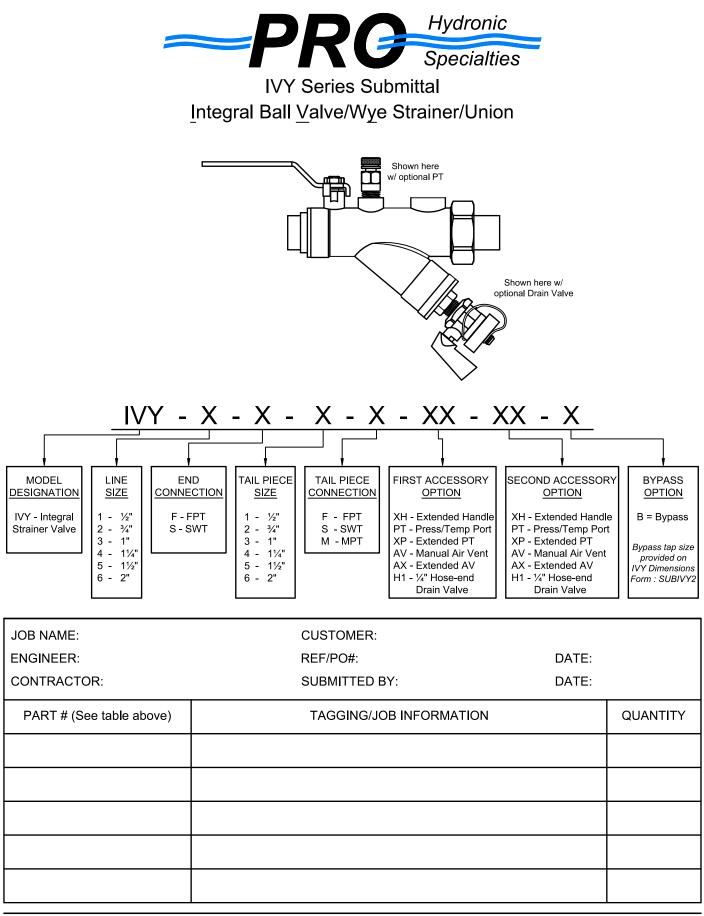
1⁄2" SWT	1⁄2"	- M - F - S	6.0 5.1 5.1	1.8 1.8 1.8	1⁄2" FPT	1⁄2"	- M - F - S	6.5 4.8 4.8	1.8 1.8 1.8
	1⁄2"	- M - F - S	7.0 6.3 6.1	2.2 2.3 2.2		1⁄2"	- M - F - S	6.5 6.0 5.7	2.5 2.5 2.1
¾" SWT	3⁄4"	- M - F - S	7.0 6.1 6.2	2.3 2.2 2.2	¾" FPT	3⁄4"	- M - F - S	6.5 5.7 5.7	2.3 2.2 2.2
	1⁄2"	- M	8.1	3.2		1⁄2"	- M	7.2	3.2
1" SWT	3⁄4"	- M - S	8.1 7.0	3.7 3.4	1" FPT	3⁄4"	- M - S	7.2 6.1	3.2 3.0
1 3001	1"	- M - F	8.1 7.1	3.5 3.1		1"	- M - F	7.2 6.2	3.3 3.1
	3⁄4"	- S	7 <u>.</u> 1 9.0	3.0 5.0		3⁄4"	- S	6.2 8.2	3.1 5.0
4 ¹ /1 0 M/T	74 1"	- M - M - S	9.0 9.0 8.2	5.0 5.0 4.6	4 1/1 507	74 1"	- M - M - S	8.2 7.7	5.0 5.1 4.7
1 ¼" SWT	1 1⁄4"	- M - F - S	9.0 8.0 8.1	5.1 4.8 4.7	1 ¼" FPT	1 1⁄4"	- M - F - S	8.2 7.3 7.5	5.1 4.8 4.7
	1"	- M	11.0	7.6		1"	- M	10.1	7.4
4 1/1 OM/T	1 1⁄4"	- M - S	11.0 10.0	7.7 7.1		1 1⁄4"	- M - S	10.0 9.0	7.6 7.0
1 ½" SWT	1 ½"	- M - F - S	11.0 9.8 9.7	7.6 7.3 7.1	1 ½" FPT	1½"	- M - F - S	10.1 9.0 8.8	7.4 7.2 7.0
	1 1⁄4"	- M	12.2	10.0		11/4"	- M	11.1	9.7
2" SWT	1 ½"	- M - S	12.2 11.0	8.6 9.0	2" FPT	1 ½"	- M - S	11.1 9.7	9.7 8.8
	2"	- M - F - S	12.2 10.5 10.7	10.0 9.4 9.0		2"	- M - F - S	11.1 9.2 9.5	9.8 9.1 8.8

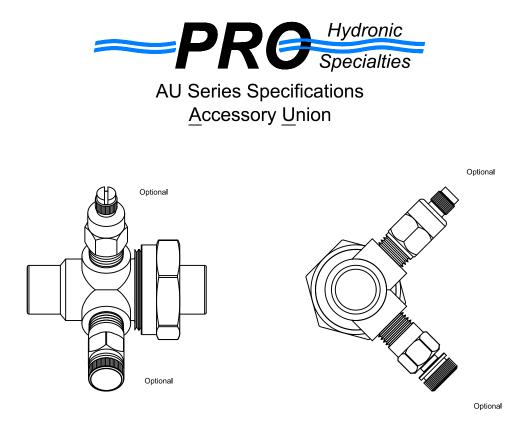
Tail Piece

С

Weight

Note: Sweat size listed is nominal and will differ from the actual, measurable size.





Product Description: The AU brass accessory union provides for component isolation. Port section contains two ¼" 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 ¼" 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.

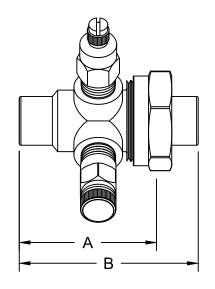
STANDARD MATERIAL SPECIFICATIONS								
Accessory Union O-Ring Tail Piece	O-Ring EPDM Tail Piece Brass ASTM B124-09, B228-06, or B763-08A							
Specification information is provided to assist and is given without obligation or warranty. The Company reserves the right to make changes in design, materials,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

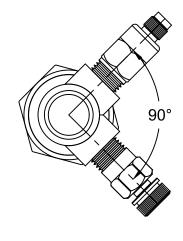
PRODUCT SPECIFICATIONS:

- 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



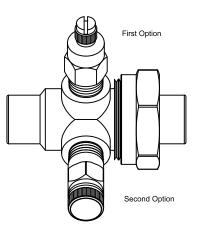


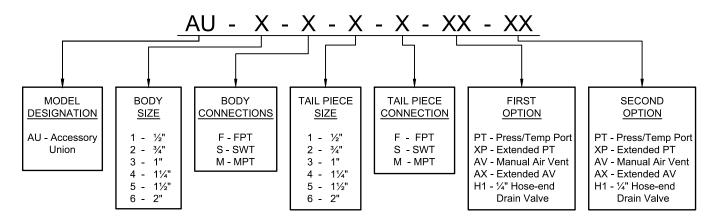
MODEL	SIZE	А			LENGT	"H "B" / W	/EIGHT O	F <i>PR</i> O-A	U AND TA	AIL PIECE	E CONNE	CTION		
AU1M AU1S AU1F	1⁄2"	2.7 2.1 2.0	½" M 4.2 3.7 3.6	lbs 0.6 0.5 0.6	1⁄2" S 3.3 2.8 2.7	lbs 0.6 0.4 0.5	¹ / ₂ " F 3.3 2.8 2.7	lbs 0.6 0.5 0.5						
AU2M AU2S AU2F	3⁄4"	2.5 2.1 2.1	½" M 4.0 3.7 3.6	lbs 0.7 0.6 0.7	1½" S 3.2 2.9 2.8	lbs 0.6 0.5 0.6	1⁄2" F 3.6 3.3 3.2	lbs 0.8 0.6 0.8	³ ⁄4" M 4.2 3.8 3.8	lbs 0.7 0.6 0.7	3⁄4" S 3.2 2.9 2.8	lbs 0.6 0.5 0.6	³ ⁄4" F 3.3 2.9 2.9	lbs 0.7 0.6 0.7
AU3M AU3S AU3F	1"	2.6 2.4 2.1	¹ ⁄2" M 4.6 4.5 4.1	lbs 1.1 1.0 1.0	3⁄4" M 4.6 4.5 4.1	lbs 1.1 1.0 1.1	³ ⁄₄" S 3.4 3.3 3.0	lbs 0.9 0.7 0.8	1" M 4.6 4.5 4.1	lbs 1.2 1.0 1.1	1" S 3.6 3.5 3.3	lbs 0.9 0.8 0.9	1" F 3.5 3.4 3.1	lbs 1.0 0.8 0.9
AU4M AU4S AU4F	1¼"	3.0 3.0 2.3	½" M 4.7 4.7 4.1	lbs 1.7 1.5 1.6	³ ⁄4" M 5.0 4.9 4.3	lbs 1.8 1.7 1.8	1" M 5.0 4.9 4.3	lbs 1.9 1.7 1.8	11¼" M 5.0 5.0 4.4	lbs 1.9 1.8 1.9	1¼" S 4.1 4.1 3.4	lbs 1.5 1.4 1.5	1¼" F 4.0 4.0 3.3	lbs 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	1¼" M 5.5 5.5 5.1	lbs 2.7 2.6 2.7	1½" M 5.5 5.5 5.1	lbs 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	lbs 2.3 2.2 2.3
AU6M		3.4	1" M 6.2	lbs 4,3	1¼" M 6,2	lbs 4.0	1½" M 6,2	lbs 4.0	2" M 6.2	lbs 4.1	2" S 4.8	lbs 3.1	2" F 4.6	lbs 3,4

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 <u>A</u>ccessory <u>U</u>nion





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