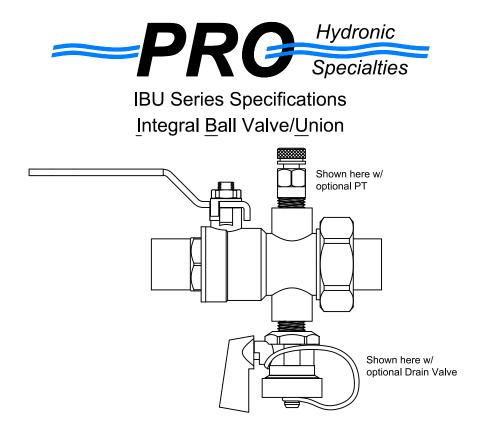


PRODUCT DESCRIPTION: The Manual Balancing Valve Kit is a packaged and partially preassembled grouping of components required to complete installation of a terminal unit. Temperature control valves, piping, and coils are supplied "by others". Mounting and testing of the customer supplied TCV is available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

QUANTITY	GPM	TA	GGING INFORM	ATION		
JOB NAME		REPRESEN	TATIVE			
ENGINEER		REF/PO#	1		DATE	
CONTRACTO	DR	SUBMITTED) BY		DATE	

PRO Hydronic Specialties, L.L.C. www.prohydronicspecialties.com

Form Number: SUBB3BB-PRO Revision 6 - 6/2021



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) ¼" 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 in design, materials, and/or specifications without notice or liability.							

PRODUCT SPECIFICATIONS:

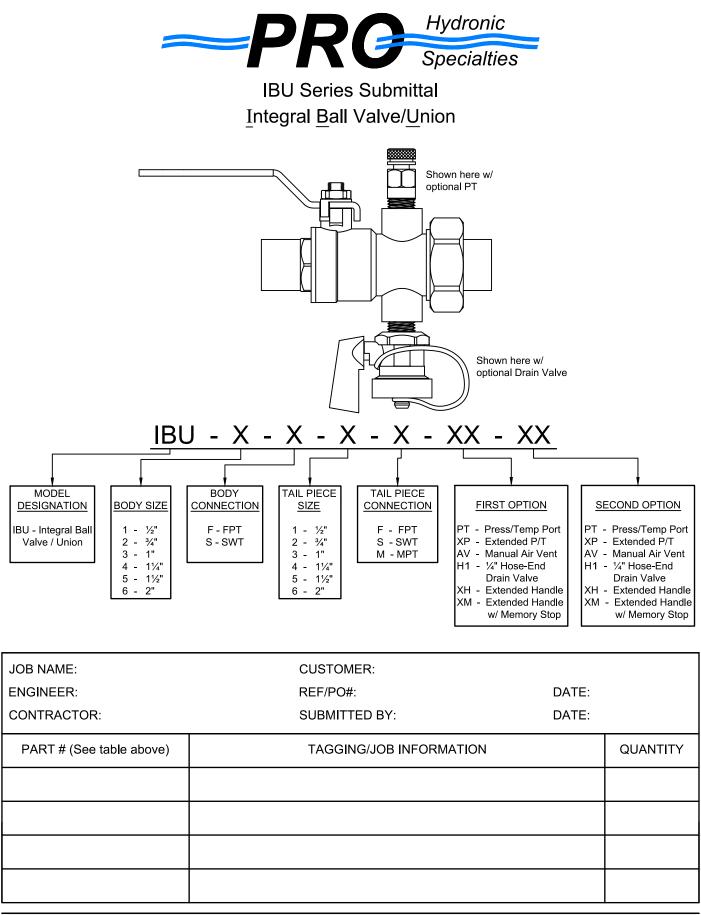
- Devices shall have a full port isolation valve to provide unrestricted flow
- Devices shall be designed to accept a memory stop
- Devices shall have a union end which allows for quick and convenient connection

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MODEL	SIZE	A	TAIL PIECE	В	Lbs	с	Н	P1	* Cv		MODEL	SIZE	A	TAIL PIECE	В
	1⁄2" - SWT	3.5	- M 1⁄2" - F - S	5.1 4.2 4.2	1.2 1.2 1.1									¹ ⁄₂" - M ³ ⁄₄" - M 1" - M	7.0 7.0 7.0
IBU1	½" - FPT	3.2	- M 1⁄2" - F	4.7 3.8	1.2 1.2	2.5	3.8	2.0	19			1¼" - SWT	5.2	- M 1¼" - F	7.0
			- S - M	3.8 5.3	1.1						IBU4			- S 1⁄2" - M	6.2 6.2
	¾" - SWT	3.8	½" - F - S - M	4.9 4.5 5.5	1.6 1.4 1.5							1¼" - FPT	4.5	3⁄4" - M 1" - M - M	6.5 6.5 6.5
IBU2			¾" - F - S	4.6 4.6	1.5 1.4	2.7	3.8	2.2	35					1¼" - F - S	5.6 5.7
			- M ½" - F - S	4.4	1.5 1.6	2.1	0.0		00					³ ⁄4" - M 1" - M 1¹⁄4" - M	7.5 8.0 8.1
	¾" - FPT	3.3	- S - M 3⁄4" - F	4.1 5.0 4.1	1.4 1.6 1.5							1½" - SWT	5.8	- M 1½" - F	8.1
			- S 1⁄2" - M	4.1 6.5	1.4 2.1						IBU5			- S 3⁄4" - M	7.0 7.1
	1" - SWT	4.1	³ ∕4" − M	6.5 5.2	2.1 1.9							1½" - FPT	5.2	1" - M 1¼" - M	7.5 7.5 7.5
			- M 1" - F - S	6.5 5.3 5.4	2.2 2.0 1.9									- M 1½" - F - S	6.5
IBU3			-0 1⁄2" - M 3⁄4" - M	5.7 5.7	2.1	2.7	5.0	2.2	49					1" - M 1¼" - M	10. 10.(
	1" - FPT	3.7	M	4.5 5.7	1.9 2.2							2" - SWT	7.1	<u>1½" - M</u> - M 2" - F	10.0
Note: D) inc o in - i	liet- :'	1" - F - S	4.6 4.7	2.0 1.9			o#			IBU6			2" - F - S 1" - M	8.2 8.5 8.9
NOLE: D	imensions	แรเยน	uu not li	iciuae	FIOP	เธรร 0	ı any	omer	specia	al	1	1		41/8 NA	0.0

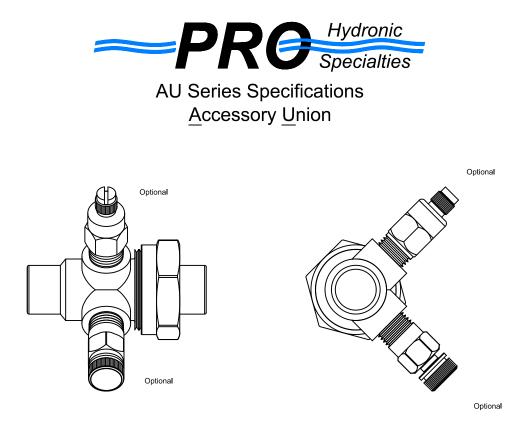
Note: Dimensions listed do not include ProPress or any other special fittings or adapters. All dimensions and materials are subject to minor variations. Consult with factory for confirmation of dimensions and material specifications at the time of order. Sweat size listed is nominal and will differ from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

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

MODEL	SIZE	А	TAIL PIECE	В	Lbs	с	Н	P1	* Cv			
			¹⁄₂" - M	7.0	3.6							
			³⁄4" - M	7.0	3.8							
	1¼" - SWT	52	1" - M	7.0	3.8							
	174 - 3001	5.2	– M	7.0	3.9							
			11¼" - F	6.0	3.6							
IBU4			- S	6.2	3.4	3.2	4.6	2.5	102			
			½" - M	6.2	3.2	0						
			³⁄₄" - M	6.5	3.3							
	1¼" - FPT	4.5	1" - M	6.5	3.4							
	174 111	4.0	- M	6.5	3.4				266			
			1¼" - F	5.6	3.1				102			
			- S	5.7	3.0							
			³ ∕₄" − M	7.5	4.6							
			1" - M	8.0	4.9							
	1½" - SWT	5.8	<u>1¼" - M</u> - M	8.1	5.0							
			- M 1½" - F	8.1 7.0	4.9 4.6				266			
			- S	7.0	4.0							
IBU5				7.0	4.4	3.5	5.5	2.7				
			<u> %4</u> - M 1" - M	7.1	4.4							
			1 - M 1¼" - M	7.5	4.8							
	1½" - FPT	5.2	- M	7.5	4.0							
			11½" - F	6.5	4.4				266			
			- S	6.3	4.2							
			1" - M	10.1	8.0							
			11⁄4" - M	10.0	7.7							
			11/2" - M	10.0	7.7							
	2" - SWT	7.1	- M	10.0	7.7							
			2" - F	8.2	71							
IBU6			S	8.5	6.7							
			1" - M	8.9	7.8	3.5	6.3	3.0	297			
			11⁄4" - M	8.9	7.4							
			11⁄2" - M	8.9	7.4							
	2" - FPT	6.0	- M	8.9	7.4				266			
			2" - F	7.0	6.8							
			- s	7.2	6.4							



PRO Hydronic Specialties, L.L.C. www.prohydronicspecialties.com



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.

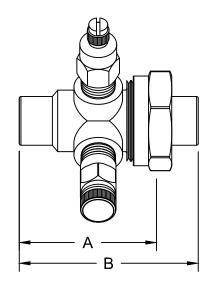
STANDARD MATERIAL SPECIFICATIONS								
Accessory Union O-Ring Tail Piece	Forged Brass ASTM B283-06 EPDM Brass ASTM B124-09, B228-06, or B763-08A							
Specification information is provided to assist and is given without obligation or warranty. The Company reserves the right to make changes in design,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

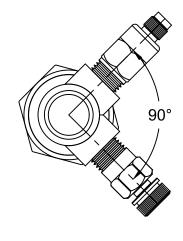
PRODUCT SPECIFICATIONS:

- 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



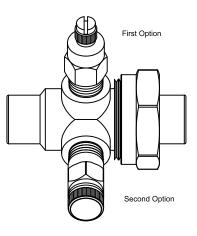


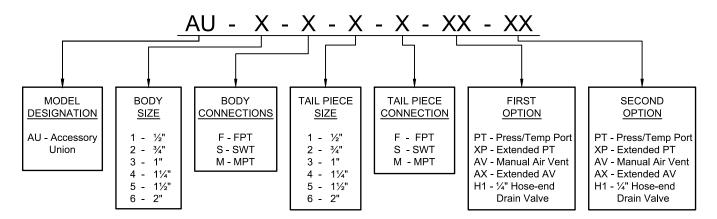
MODEL	SIZE	А		LENGTH "B" / WEIGHT OF PRO-AU AND TAIL PIECE CONNECTION										
			½" M	lbs	½" S	lbs	1∕₂" F	lbs						
AU1M AU1S AU1F	1⁄2"	2.7 2.1 2.0	4.2 3.7 3.6	0.6 0.5 0.6	3.3 2.8 2.7	0.6 0.4 0.5	3.3 2.8 2.7	0.6 0.5 0.5						
			¹⁄₂" M	lbs	½" S	lbs	½" F	lbs	³∕₄" M	lbs	³∕₄" S	lbs	³⁄₄" F	lbs
AU2M AU2S AU2F	3⁄4"	2.5 2.1 2.1	4.0 3.7 3.6	0.7 0.6 0.7	3.2 2.9 2.8	0.6 0.5 0.6	3.6 3.3 3.2	0.8 0.6 0.8	4.2 3.8 3.8	0.7 0.6 0.7	3.2 2.9 2.8	0.6 0.5 0.6	3.3 2.9 2.9	0.7 0.6 0.7
			1∕₂" M	lbs	³⁄₄" M	lbs	³∕₄" S	lbs	1" M	lbs	1" S	lbs	1" F	lbs
AU3M AU3S AU3F	1"	2.6 2.4 2.1	4.6 4.5 4.1	1.1 1.0 1.0	4.6 4.5 4.1	1.1 1.0 1.1	3.4 3.3 3.0	0.9 0.7 0.8	4.6 4.5 4.1	1.2 1.0 1.1	3.6 3.5 3.3	0.9 0.8 0.9	3.5 3.4 3.1	1.0 0.8 0.9
			¹⁄₂" M	lbs	³⁄₄" M	lbs	1" M	lbs	1¼" M	lbs	1¼" S	lbs	1¼" F	lbs
AU4M AU4S AU4F	1¼"	3.0 3.0 2.3	4.7 4.7 4.1	1.7 1.5 1.6	5.0 4.9 4.3	1.8 1.7 1.8	5.0 4.9 4.3	1.9 1.7 1.8	5.0 5.0 4.4	1.9 1.8 1.9	4.1 4.1 3.4	1.5 1.4 1.5	4.0 4.0 3.3	1.6 1.5 1.6
			³∕₄" M	lbs	1" M	lbs	1¼" M	lbs	1½" M	lbs	1½" S	lbs	11⁄₂" F	lbs
AU5M AU5S AU5F	1½"	3.0 3.0 2.7	4.9 4.9 4.6	2.3 2.2 2.3	5.5 5.5 5.1	2.6 2.6 2.7	5.5 5.5 5.1	2.7 2.6 2.7	5.5 5.5 5.1	2.5 2.5 2.6	4.2 4.2 3.9	2.1 2.0 2.2	4.3 4.2 3.9	2.3 2.2 2.3
			1" M	lbs	1¼" M	lbs	1½" M	lbs	2" M	lbs	2" S	lbs	2" F	lbs
AU6M AU6S AU6F	2"	3.4 2.8 2.8	6.2 5.8 5.8	4.3 4.0 4.5	6.2 5.8 5.7	4.0 3.6 4.2	6.2 5.8 5.7	4.0 3.6 4.1	6.2 5.8 5.8	4.1 3.7 4.2	4.8 4.2 4.2	3.1 2.7 3.2	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 <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