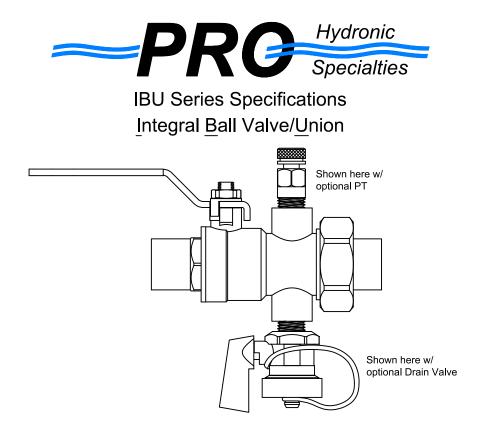


**PRODUCT DESCRIPTION:** The Manual Balancing Valve Kit is a packaged and partially preassembled grouping of components required to complete installation of a terminal unit. Temperature control valves, piping, and coils are supplied "by others". Mounting and testing of the customer supplied TCV is available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

QUANTITY	GPM	TA	AGGINO	G INFORMATION		
JOB NAME		REPRESE	VITATIV	E		
ENGINEER		REF/PO#		- 1	DATE	
CONTRACTO	DR	SUBMITTE	D BY		DATE	

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



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.

STAN	IDARD 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	STANDARD 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:

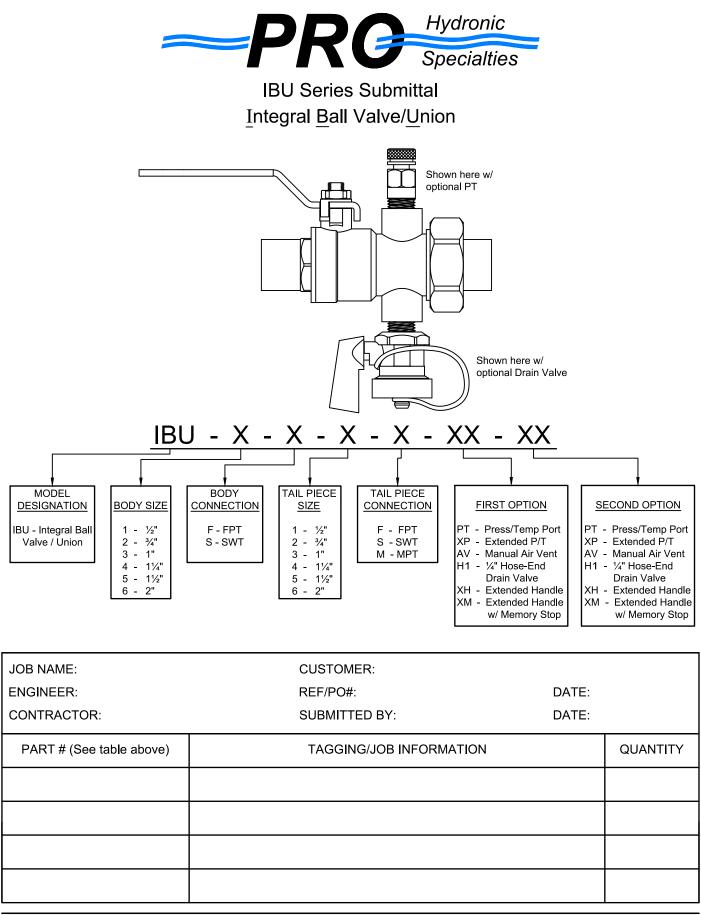
- Devices shall have a full port isolation valve to provide unrestricted flow
- Devices shall be designed to accept a memory stop
- Devices shall have a union end which allows for quick and convenient connection

												Нус	droi	nic	
												Spe	cia	lties	
IBU Series Dimensions															
	Integral <u>B</u> all Valve/ <u>U</u> nion														
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									╡┎	± Tn)				I	। P1
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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									<sup>1</sup> ⁄₂" - M <sup>3</sup> ⁄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 1⁄2" - F - S	4.4	1.5 1.6	2.1	0.0		00					<sup>3</sup> ⁄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
		4.1	- S 1⁄2" - M	4.1 6.5	1.4 2.1						IBU5			- S 3⁄4" - M	7.0 7.1
	1" - SWT		<sup>3</sup> ∕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							0.2	- 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		4.6	2.5	102
			³⁄4" - M	7.0	3.8	3.2			
	1¼" - SWT	5.2	1" - M	7.0	3.8				
			– M	7.0	3.9				
			11¼" - F	6.0	3.6				
IBU4			- S	6.2	3.4				
			½" - M	6.2	3.2				
			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				
			1¼" - F	5.6	3.1				
			- S	5.7	3.0				
	1½" - SWT	5.8	<sup>3</sup> ∕₄" − M	7.5	4.6	3.5	5.5	2.7	
			1" - M	8.0	4.9				266
			<u>1¼" - M</u> - M	8.1	5.0				
			- M 1½" - F	8.1 7.0	4.9 4.6				
			- S	7.0	4.0				
IBU5				7.0	4.4				
	1½" - FPT	5.2	<u> %4</u> - M 1" - M	7.1	4.4				
			1 - M 1¼" - M	7.5	4.8				
			- M	7.5	4.0				
			11½" - F	6.5	4.4				
			- S	6.3	4.2				
			1" - M	10.1	8.0				
	2" - SWT	7.1	11⁄4" - M	10.0	7.7		6.3	3.0	
			11/2" - M	10.0	7.7	3.5			
			- M	10.0	7.7				
IBU6			2" - F	8.2	71				
			S	8.5	6.7				
	2" - FPT	6.0	1" - M	8.9	7.8				297
			11⁄4" - M	8.9	7.4				
			11⁄2" - M	8.9	7.4				
			- M	8.9	7.4				
			2" - F	7.0	6.8				
			- s	7.2	6.4				



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