

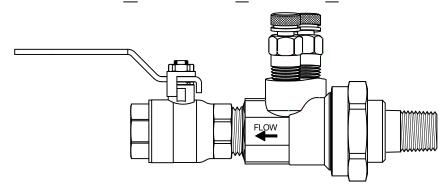
<sup>\*\*</sup> ProPress fittings supplied for additional fee.

**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	TAGGIN	IG INFORMATION	
JOB NAME		REPRESENTATI	VE	
ENGINEER		REF/PO#		DATE
CONTRACT	OR	SUBMITTED BY		DATE



# CBV Series Specifications Combination Ball Valve/Venturi



PRODUCT DESCRIPTION: The CBV flow balancing brass venturi provides highly accurate flow measurement capabilities. The efficient low loss venturi design provides effective flow balancing with minimal system pressure loss. The CBV includes a brass ball valve with memory stop, and a venturi with an integral union. The CBV comes standard with two pressure/temperature ports for instrument readings. The union side incorporates an o-ring for maximum sealing protection. The union connection options include FNPT, MNPT, SWT, and a variety of reductions.

NOTE: If the same size male, female, sweat, or a reducing male tail piece is used, no extra pipe diameter is required.

RECOMMENDED FLOW RANGES (GPM)				PM)	STAN	DARD MATERIAL SPECIFICATIONS
Model	Size	Minimum	@ 100"	@ 200"	Venturi	Cast Brass ASTM B763-08A
CBV050L	1/2"	0.3	1.2	1.8	Ball Valve	Forged Brass ASTM B283-06
CBV050H	1/2"	0.8	2.9	4.2	O-ring Tail Piece	EPDM Brass ASTM B124-09, B228-06, or B763-08A
CBV075UL	3/4"	0.3	1.2	1.8	Union Nut	Brass ASTM B455
CBV075L	3/4"	0.8	2.9	4.2	PT Seal Handle	EPDM Dual Durometer Core Chrome Plated Steel
CBV075H	3/4"	1.8	6.1	8.9	Memory Stop	302 Stainless Steel
CBV100	1"	2.8	9.8	14.3	Stem Ball	Brass ASTM B124-09 - Blow-Out Proof Chrome Plated Brass
CBV125	11⁄4"	4.8	16.4	24.0	Ball Seat	Teflon
CBV150	1½"	7.5	24.4	35.5	Packing Nut Packing Gland	Brass ASTM B124-09, B228-06, or B763-08A Teflon
CBV200	2"	12.0	40.8	69.3	T doking Oland	1611011

#### STANDARD OPERATING SPECIFICATIONS

Maximum Working Pressure: 600 WOG / CWP Maximum Operating Temperature: -22° F to 325° 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.

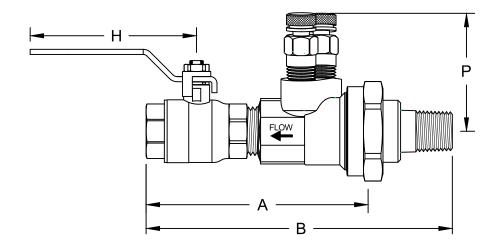
#### PRODUCT SPECIFICATIONS:

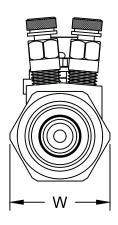
- Devices shall have a 15° regain chamber for optimal pressure regain and minimal permanent pressure drop
- Venturi tube shall be independent of the throttling valve
- Venturi tube shall include proper pipe diameters for optimal accuracy
- Valve shall be designed with memory stop to limit flow once balanced
- The Model CBV shall have an accuracy rating of:
  - •• ±1% between 10" W.C. and 70" W.C.
  - •• ±3% between 5" W.C. and 150" W.C.
  - •• ±5% less than 5" W.C. and over 150" W.C.



### **CBV Series Dimensions**

### Combination Ball Valve/Venturi





	0.	/	Α			107	
Model	Size	FPT	SWT	Н	Р	W	Cv **
CBV050L	1/2	4.5	4.8	3.7	2.1	1.6	1.1
CBV050H	1/2	4.5	4.8	3.7	2.1	1.6	3.8
CBV075UL*	3/4	4.7	5.2	3.8	2.1	1.6	1.1
CBV075L	3/4	4.7	5.2	3.8	2.1	1.8	2.3
CBV075H	3/4	4.7	5.2	3.8	2.1	1.8	8.0
CBV100	1	5.1	5.7	5.0	2.2	2.1	13.4
CBV125	1¼	5.8	6.5	5.0	2.4	2.8	25
CBV150	1½	7.0	8.0	6.3	2.7	3.1	31
CBV200	2	7.6	8.7	6.2	3.0	3.8	87

Note: Dimensions listed 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.

<sup>\*\*</sup> Cv = Estimated with Union connection same as inlet, no reductions.

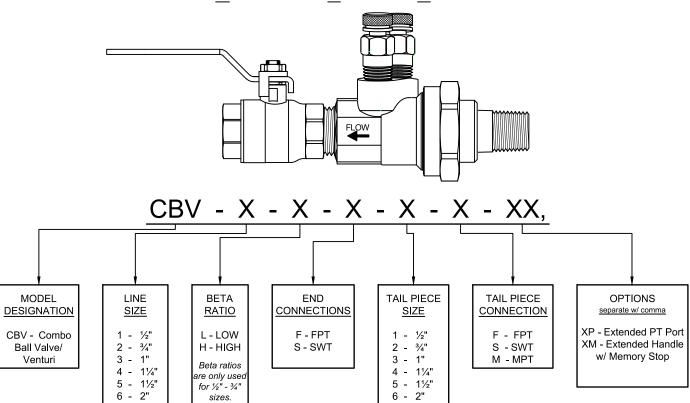
1/2" SWT	Size	Tail Piece	В	Weight	Size	Tail Piece	В	Weight
- S   5.5   1.3   - S   5.1   1.3    - M   6.7   1.8   - S   6.0   1.7   - M   6.8   1.8   - S   6.0   1.7   - M   6.8   1.8   - S   6.0   1.7   - M   6.8   1.8   - S   6.0   1.7   - S   6.7   2.5   - S   6.0   2.5   - S   6.0   - S   7.0   3.7   - S   7.0   3.7   - S   7.0   3.7   - S   7.0   3.7		- M	6.2	1.4			6.0	1.4
1/4" SWT	½" SWT	½" - F		1.3	½" FPT	½" - F	5.1	1.3
3/4" SWT         1/2" - F         6.3         1.8         - S         6.0         1.7         - S         5.5         1.7           - M         6.8         1.8         3/4" - F         6.0         1.7         - M         6.5         1.8           3/4" - F         6.0         1.7         - M         6.5         1.8         3/4" - F         5.5         1.7           1" SWT         1" - M         7.7         2.7         7         1" - F         5.5         1.7           1" SWT         - M         7.7         2.7         7         1" - M         7.1         2.7           1" - F         6.7         2.5         - S         6.0         2.5         - S         6.0         2.5           1" - F         6.7         2.5         - S         6.0         2.5         - S         6.0         2.5           1" - M         8.3         4.0         1" - F         6.0         2.5         3.9         3/4" - M         7.5         3.9         3/4" - M         7.7         4.0         1/4" - F         6.7         3.8         - S         7.0         3.7         3/4" - M         7.7         4.1         1/4" - F         6.7         3.8		- S	5.5	1.3		- S	5.1	1.3
**SWT		- M				- M	6.5	1.8
3/4" SWT       - M       6.8       1.8       3/4" FPT       - M       6.5       1.8         3/4" - F       6.0       1.7       - S       6.0       1.7       - S       5.5       1.8         4/4" - F       6.0       1.7       - S       5.5       1.8       3/4" - F       5.5       1.8         1" SWT       1/2" - M       7.7       2.7       1" FPT       1" FPT       1" - M       7.1       2.7         1" - F       6.7       2.5       - S       6.0       2.5       - S       6.0       2.5         - S       6.7       2.5       - S       6.0       2.5       - S       6.0       2.5         - S       6.7       2.5       - S       6.0       2.5       - S       6.0       2.5         - S       6.7       2.5       - S       6.0       2.5       - S       6.0       2.5         - S       6.7       3.8       4.0       1/4" - F       7.5       3.9       3/4" - M       7.7       4.1         - W       - F       7.5       3.9       - S       7.5       3.7       - S       7.0       3.7         1/2" SWT       1/2" - M								
1" SWT    1" SWT   1"	3/" C\A/T	- S			3/." EDT	- S	5.5	1.7
- S   6.0   1.7   - S   5.5   1.7      Y2" - M   7.7   2.7     Y2" - M   7.1   2.7     Y2" - M   7.1   2.7     Y4" - M   7.0   2.5     S   6.0   2.5     S   7.5   3.9     S   7.5   3.7     S   7.5   3.7     S   7.0   3.7     S	/4 SVVI				/4 FFT			
1" SWT    1" SWT   1" - M								
1" SWT    34" - M		- S				- S		1.7
1" SWT		½" - M	7.7	2.7		½" - M	7.1	2.7
1" - F							7.1	
- S   6.7   2.5   - S   6.0   2.5      1/4" SWT	1" SWT				1" FPT			
1¼" SWT     ½" - M     8.1     3.9       1¼" SWT     1" - M     8.3     4.0       1" - M     8.5     4.2       1¼" - F     7.5     3.9       - S     7.5     3.8       - S     7.0     3.7       3" - M     9.7     5.6       1" - M     10.7     6.1       1½" - M     10.7     6.2       - M     10.5     6.0       1½" - F     9.1     5.6       - S     9.1     5.6       1½" - F     8.2     5.6       1½" - M     10.5     8.6       1½" - M     10.5     8.8       2" - F     8.7     8.1								
1¼" SWT     3¼" - M     8.3     4.0       1¼" - M     8.3     4.1       - M     8.5     4.2       1¼" - F     7.5     3.9       - S     7.5     3.7       3¼" - M     9.7     5.6       1" - M     10.7     6.1       1½" - M     10.7     6.2       - M     10.5     6.0       1½" - F     9.1     5.6       1½" - F     8.2     5.6       1½" - F     8.2     5.6       1½" - F     9.1     5.6       1½" - F     8.2     5.6       1½" - F     8.2     5.6       1½" - M     10.5     8.9       1½" - M     10.5     8.6       1½" - M     10.5     8.6       1½" - M     10.5     8.6       1½" - M     10.5     8.8       2" - F     8.7     8.1								
11/4" SWT								
11/4" SWT				4.0	1¼" FPT			4.0
- M	11/4" SWT	1" - M	8.3	4.1		1" - M	7.7	4.1
- S   7.5   3.7   - S   7.0   3.7      1½" SWT   - M   9.7   5.6     1" - M   10.7   6.1     1½" - F   9.1   5.6     - S   9.1   5.6     - S   9.1   5.6     1½" - F   8.2   5.6     1½" - M   11.7   8.9     1½" - M   11.7   8.9     1½" - M   11.7   8.9     1½" - M   11.7   9.0     2" - F   9.8   8.3     2" - F   8.7   8.1	'/" "							
1½" SWT     34" - M     9.7     5.6       1" - M     10.7     6.1       1¼" - M     10.7     6.2       - M     10.5     6.0       1½" - F     9.1     5.8       - S     9.1     5.6       1" - M     11.7     9.3       1½" - F     8.2     5.7       - S     8.2     5.6       1" - M     11.7     9.3       1½" - M     11.5     8.9       1½" - M     10.5     8.6       1½" - M     10.5     8.6       1½" - M     10.5     8.6       1½" - M     10.5     8.7       - M     10.5     8.8       2" - F     9.8     8.3								
1" - M 10.7 6.1 1¼" - M 10.7 6.2 - M 10.5 6.0 1½" - F 9.1 5.8 - S 9.1 5.6 1" - M 9.5 6.0 1½" - F 8.2 5.7 - S 8.2 5.6 1" - M 11.7 9.3 1¼" - M 11.7 8.9 1½" - M 10.5 8.6 1½" - M 10.5 8.6				3.7		- S	7.0	
1½" SWT    1½" - M		3/4" - M	9.7	5.6			9.3	5.7
1½" SWT		1" - M	10.7	6.1		1" - M	9.5	6.0
2" SWT   10.5   6.0   11/2" - F   9.1   5.8   11/2" - F   8.2   5.6   5.6   11/2" - F   8.2   5.6   5.6   11/2" - M   10.5   9.1   11/4" - M   10.5   8.6   11/2" - M   11.7   8.9   11/2" - M   11.7   8.9   2" FPT   2" FPT   2" FPT   2" FPT   3.7   8.8   2" - F   8.7   8.1   8.8   2" - F   8.7   8.1   8.1   8.0   2" - F   8.7   8.0   2" - F   8.2   5.6   2.0	11/2" SVA/T	1¼" - M	10.7	6.2	11/2" EDT	1¼" - M	9.5	6.1
2" SWT    - S	172 0001			6.0	1/2 11 1		9.5	6.0
2" SWT      1" - M								
2" SWT     1¼" - M		- S	9.1	5.6			8.2	5.6
2" SWT			11.7				10.5	9.1
- M 11.7 9.0 2" - F 9.8 8.3 2" - F 8.7 8.1	2" SWT						10.5	8.6
- M   11.7   9.0   - M   10.5   8.8   2" - F   8.7   8.1		1½" - M	11.7	8.9	2" FPT	1½" - M	10.5	8.7
			11.7				10.5	8.8
- S   10.1   8.0   - S   9.0   7.8			9.8	8.3			8.7	8.1
		- S	10.1	8.0		- S	9.0	7.8

Note: Sweat size listed is nominal and will differ from the actual, measurable size. Not all available tailpiece connections are listed, please consult with factory for additional information.

<sup>\*</sup> CBV075UL Tailpiece size is 1/2"



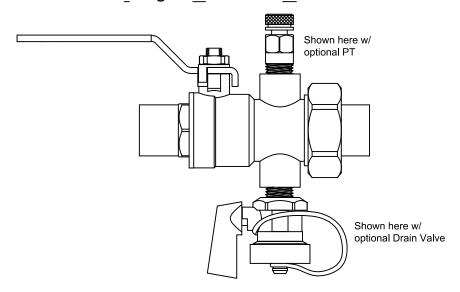
# CBV Series Submittal Combination Ball Valve/Venturi



JOB NAME: ENGINEER: CONTRACTOR:	REPRESENTATIVE: REF/PO#: SUBMITTED BY:	DATE: 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.

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	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				

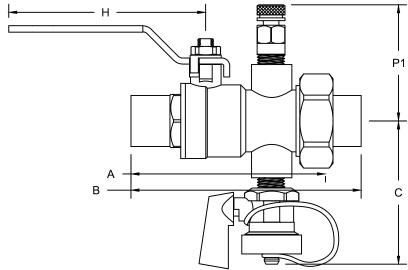
#### PRODUCT SPECIFICATIONS:

- 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	3.3	- M ½" - F - S	4.8 4.4 4.1	1.5 1.6 1.4	2.7	3.6	2.2	50				
	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	1" - SWT   4.1	- M 1" - F	6.5 5.3 5.4	2.2 2.0								
IBU3	1" - FPT	1" - FPT	1" - FPT	1" - FPT		I -	- 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	1" - FPT	" - FPT   3.7	- FPT 3.7 - M 5.7 2.2 1" - F 4.6 2.0 - S 4.7 1.9					

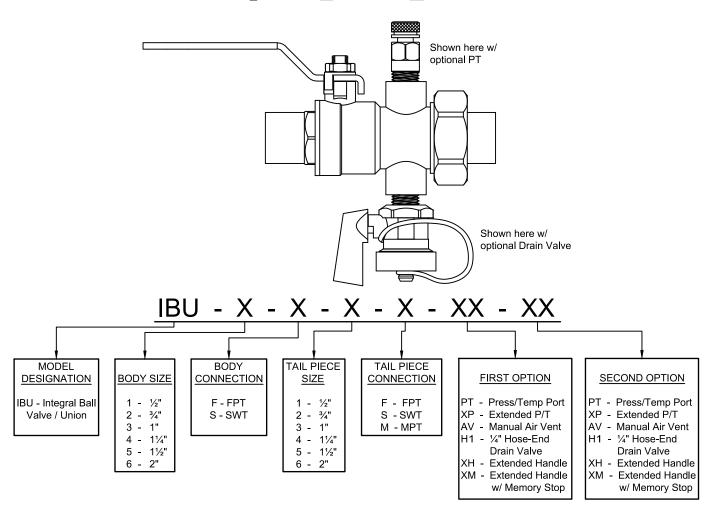
Note: Dimensions listed do not include ProPress or any other special fittings or adapters. All dimensions and materials are subject to minor variations. Consult with factory for confirmation of dimensions and material specifications at the time of order. Sweat size listed is nominal and will differ from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

IBU4    11/4" - SWT												
IBU4    11/4" - SWT	MODEL	SIZE	Α		В	Lbs	С	Н	P1	* Cv		
IBU4    11/4" - SWT					7.0	3.6						
IBU4    11/4" - FPT				3⁄4" - M	7.0	3.8	1					
IBU4    11/4" - FPT		41/1 0\4/1	- 0	1" - M	7.0	3.8						
IBU4		174" - 5001	5.2	- M	7.0	3.9						
11/4" - FPT				11¼" - F	6.0	3.6						
11/4" - FPT	IRHA						32	46	25	102		
11/4" - FPT	1004			½" - M	6.2	3.2	5.2	7.0	2.5	102		
11/4" - FPT				¾" - M	6.5	3.3						
11/2" - SWT		41/" EDT	1 5		6.5							
BU5   1½" - SWT   5.8   1½" - M   7.5   4.6   1" - M   8.0   4.9   1½" - F   7.0   4.6   - S   7.0   4.4   1½" - F   7.0   4.6   - S   7.0   4.4   1½" - M   7.5   4.8   1½" - F   6.5   4.4   - S   6.3   4.2		174 - FPT	4.5									
IBU5  IBU5    1½" - SWT				1¼" - F	5.6							
IBU5  IBU5    1½" - SWT   5.8   1" - M   8.0   4.9   1½" - M   8.1   5.0   1½" - F   7.0   4.6   - S   7.0   4.4   11" - M   7.5   4.8   11½" - F   6.5   4.4   - S   6.3   4.2      2" - SWT   7.1   1½" - M   10.0   7.7   1½" - M   10.0   7.7   2" - F   8.2   7.1   - S   8.5   6.7   2.97      BU6   2" - FPT   6.0   1½" - M   8.9   7.4   1½" - M   1.0   1   1   1   1   1   1   1   1   1					5.7	3.0						
IBU5  IBU5    1½" - SWT				3⁄4" - M	7.5	4.6						
IBU5    1½" - SWI						1" - M	8.0	4.9		1		
IBU5    11/2" - F   7.0   4.6		41/1 0\4/1	۱ ـ ۸	1¼" - M	8.1	5.0	2.5	<i></i>	2.7	266		
IBU5   -S   7.0   4.4   3.5   5.5   2.7   266		11/2" - SVVI	5.8	- M	8.1	4.9						
IBU5    1½" - FPT   5.2     34" - M   7.1   4.4     4.8     11" - M   7.5   4.8     11½" - FPT   5.2     11½" - F   6.5   4.4     - S   6.3   4.2				1½" - F	7.0	4.6						
1½" - FPT   5.2   1½" - M   7.5   4.8   1½" - M   7.5   4.8   1½" - F   6.5   4.4   1½" - F   6.5   4.4   1½" - M   10.0   7.7   1½" - M   10.0   7.7   2" - F   8.2   7.1   - S   8.5   6.7   2" - F   7.0   6.8   1½" - M   8.9   7.4   1½" - M   8.9   7.4   1½" - M   8.9   7.4   2" - F   7.0   6.8   1.5	IDIIE			- S	7.0	4.4						
11/2" - FPT	IB05					3⁄4" - M	7.1	4.4	3.5	5.5	2.7	266
172 - FFT   3.2				1" - M	7.5	4.8						
172 - FFT   3.2				11⁄4" - M	7.5	4.8	1					
BU6   -S   6.3   4.2		1½" - FPT	5.2	- M	7.5	4.7	1					
BU6   2" - FPT     10.1   8.0     11/4" - M   10.0   7.7     11/2" - M   10.0   7.7     11/2" - M   10.0   7.7     11/2" - M   10.0   7.7     2" - F   8.2   7.1     - S   8.5   6.7     7.8     11/4" - M   8.9   7.8     11/4" - M   8.9   7.4   11/2" - M   8.9   7.4   11/2" - M   8.9   7.4   11/2" - M   8.9   7.4   2" - F   7.0   6.8     1.0   1.				1½" - F	6.5	4.4						
2" - SWT   7.1				- S	6.3	4.2						
2" - SWT   7.1				1" - M	10.1	8.0						
IBU6    2" - SWI   7.1				1¼" - M	10.0	7.7	1					
IBU6    2" - FPT   6.0   10.0   7.7   2" - F   8.2   7.1   - S   8.5   6.7   7.8   8.9   7.8   11½" - M   8.9   7.4   11½" - M   8.9   7.4   2" - F   7.0   6.8     6.8     6.3   3.0   297		OII O.4.7-		1½" - M	10.0	7.7	1					
IBU6  - S 8.5 6.7  1" - M 8.9 7.8  1¼" - M 8.9 7.4  1½" - M 8.9 7.4  - M 8.9 7.4  - M 8.9 7.4  2" - FPT 6.0  2" - F 7.0 6.8		2" - SW I	7.1	- M	10.0	7.7	1					
2" - FPT 6.0 1" - M 8.9 7.8 11½" - M 8.9 7.4 11½" - M 8.9 7.4 11½" - M 8.9 7.4 2" - F 7.0 6.8 2" 5 6.3 3.0 297				2" - F	8.2	7.1						
2" - FPT 6.0 17-10 8.9 7.4 11/2" - M 8.9 7.4	IBU6			- s	8.5	6.7	ا م د		١ , ,	007		
2" - FPT 6.0 11/4" - M 8.9 7.4 11/2" - M 8.9 7.4 - M 8.9 7.4				1" - M	8.9	7.8	3.5	6.3	3.0	297		
2" - FPT 6.0 1½" - M 8.9 7.4 - M 8.9 7.4 2" - F 7.0 6.8					8.9	7.4						
2 - FPT   6.0		O"		1½" - M	8.9	7.4						
		Z" - FP1	6.0		8.9	7.4						
				2" - F	7.0	6.8						
				- S	7.2	6.4						

<sup>\*</sup> Cv = Estimated with union connection same as inlet, no reductions.



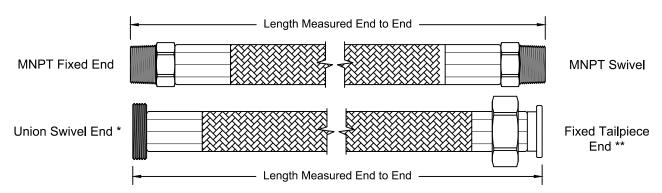
# IBU Series Submittal Integral Ball Valve/Union



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



## HSS Series Specifications Stainless Steel Braided Hose



PRODUCT DESCRIPTION: The Model HSS is a stainless steel braided hose that is abrasion resistant. The HSS has a CPE inner tube with brass end connections and stainless steel ferrules for the  $\frac{1}{2}$ " - 1" hose sizes, and an EPDM inner tube with stainless steel ferrules and plated steel end connections for the  $\frac{1}{4}$ " - 2" hose sizes. The flexible hose eases installation and is designed to withstand high pressures and varying temperatures. The standard end connections are MNPT Fixed x MNPT Swivel for  $\frac{1}{2}$ " to 2", and FNPT Swivel for  $\frac{1}{2}$ " to 2". Other available end connection options are FNPT Swivel, Union Swivel \*, and Fixed Tailpiece\*\* and accessory union connections; available for the  $\frac{1}{2}$ " to 2" hose sizes. The Model HSS is BUY AMERICAN COMPLIANT.

<sup>\*\*</sup> The Fixed Tailpiece hose end connection is designed to connect directly to union ended coil kit components (AFLB, AFLD, AU, CBV, IBU, or IVY). The tailpiece end eliminates multiple connections.

	PRODUCT SPECIFICATIONS
Tube	CPE (Chlorinated Polyethylene) for ½" - 1" sizes - SAE J1019
	EPDM (Ethylene Propylene Diene Monomer) for 11/4" - 2" sizes - SAE 20R1-D1
Reinforcement	304L Stainless Steel braid cover meets UL-94 requirements
Ferrules	Type 304L stainless Steel
End Fittings	1/2" - 1" I.D Brass
	11/4" - 2" I.D Steel Plated
End Connections	Fixed MNPT, FNPT, Swivel MNPT, Swivel FNPT (½"-2"), Swivel Union (½" - 2"), Fixed Tailpiece (½"-2")
Temperature	-40°F to 257°F (-40°C to 125°C) NOTE HOSE IS NOT INTENDED FOR STEAM APPLICATIONS.
Ratings	Meets UL-94 Requirements
-	Fire Retardant Material (CPE)
	ormation is provided to assist and is given without obligation or warranty. The Company reserves the anges in design, materials, and/or specifications without notice.

Size	Length	Working PSI	Bend Radius	** Cv
1/2"	12, 18, 24, 30, 36	500	5"	7
3/4"	12, 18, 24, 30, 36	500	7"	20
1"	12, 18, 24, 30, 36	500	10"	43
11/4"	12, 18, 24, 30, 36	200	12"	76
1½"	12, 18, 24, 30, 36	200	15"	130
2"	12, 18, 24, 30, 36	200	20"	280

Length is measured End to End on all hose connection types.

<sup>\*</sup> The Swivel Union comes standard with an EPDM O-ring, tailpiece, and union nut which must be specified at the time of order. The swivel union easily converts line connection types and offers line size reductions. The tailpieces are available in FNPT, MNPT, and Sweat ends.

<sup>\*\*</sup> Cv listed in chart above is for a 24" length hose. The Cv is estimated and can vary according to installation.



## HSS Series Options Stainless Steel Braided Hose

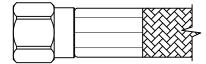
Fixed MNPT

Swivel MNPT



#### Additional End Connections





Male

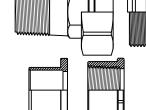
Swivel FJIC
Available in ½"
thru 1"



#### **Swivel Union**

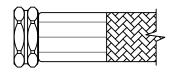
Available in 1/2" thru 1"

The Swivel Union must have the tailpiece connection size and type specified at time of order. Tailpiece options include FPT, SWT, MPT, and a variety of reductions.



Female

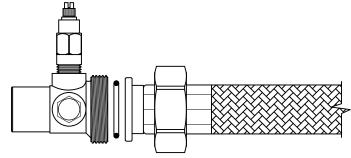
Swivel FNH Available in ½" thru ¾"



#### Fixed Tailpiece

Available in 1/2" thru 2"

The Fixed Tailpiece end connects directly to PRO Hydronic Specialties' union ended products.

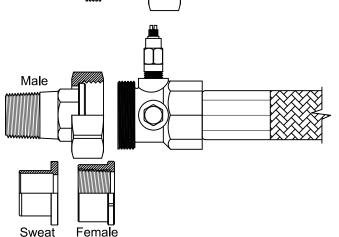


#### **Swivel Accessory Union**

Available in 1/2" thru 2"

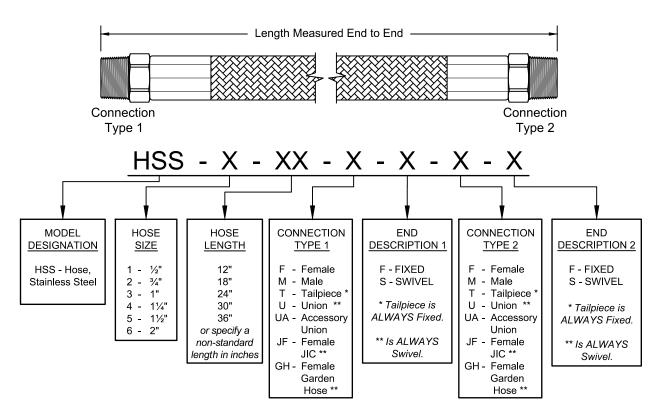
The Swivel Accessory Union must have the tailpiece connection size and type specified at time of order.

Tailpiece options include FPT, SWT, MPT, and a variety of reductions.





## HSS Series Submittal Stainless Steel Braided Hose



#### When ordering, at least one hose end connection must be a swivel.

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