

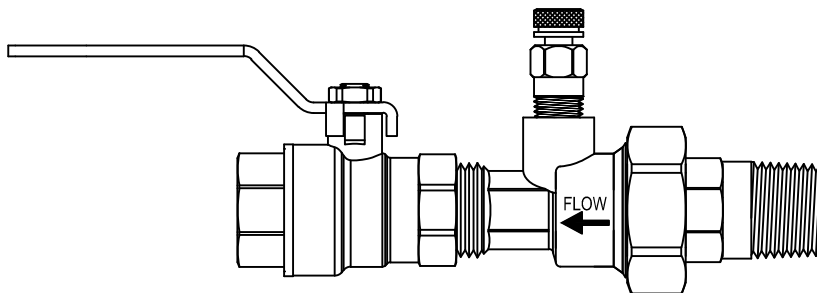
US Industrial Sourcing, L.L.C.

www.usinso.com

SPECIFICATIONS

CBV - Series (Combination Ball Valve/Venturi)

Revision 2 - 11/2009



Product Description: The flow balancing brass venturi provides highly accurate flow measurement capabilities rated at 600 PSIG @ 250°F. Efficient low loss venturi design provides effective flow balancing with minimal system pressure loss. The CBV includes 600 WOG standard port ball valve with memory stop, venturi with integral union on the inlet side with fixed NFPT or SWT on the run-out side. 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 NPTM, NPTF, and SWT.

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

Model	Size	Weight	Recommended Flow Ranges (GPM)		
			Minimum	@ 100"	@ 200"
CBV050L	1/2	1.23	0.3	1.1	1.5
CBV050H	1/2	1.23	0.9	3.0	4.2
CBV075L	3/4	1.50	0.9	3.0	4.2
CBV075H	3/4	1.50	1.8	6.0	8.5
CBV100	1	2.45	2.8	9.5	14.0
CBV125	1 1/4	3.50	5.4	17.0	24.0
CBV150	1 1/2	4.81	9.0	26.0	36.0
CBV200	2	7.25	16.0	46.0	66.0

Weights are in pounds and will vary according to options and tail piece selection.

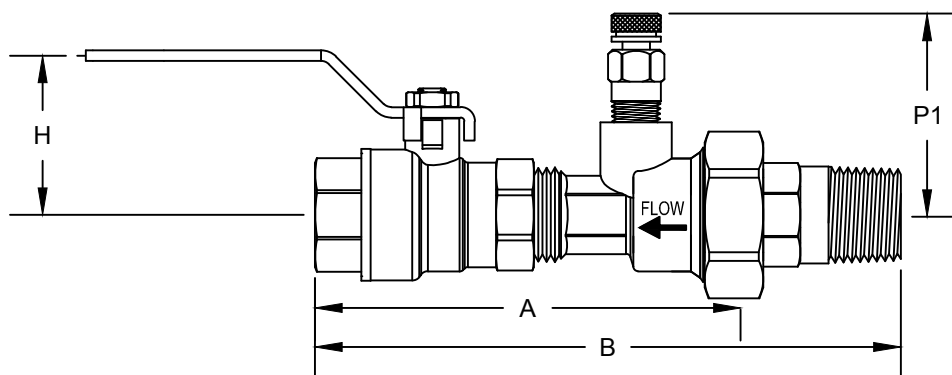
MATERIAL SPECIFICATION	
Venturi	Forged Brass ASTM B283-06
Ball Valve	Forged Brass ASTM B283-06
O-Ring	EPDM
Tail Piece	Forged Brass ASTM B283-06
PT Seal	EDPM Dual Durometer Core
Handle	Chrome Plated Steel
Stem	Brass - Explosion Proof
Ball	Chrome Plated Brass - Standard Port
Ball Seat	Teflon

PRODUCT SPECIFICATIONS:

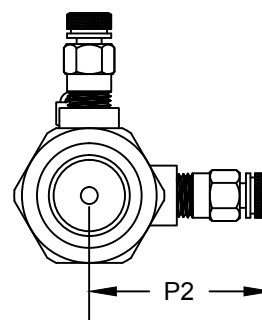
- 15° regain chamber for optimal pressure regain and minimal permanent pressure drop
- Independent Venturi tube designed for optimal accuracy (pipe diameters included)
- Valve designed with memory stop to limit flow once balanced

DIMENSIONS - CBV SERIES

US Industrial Sourcing, L.L.C.



Model	Size	A		H	P1	P2	Option XP
		Female	Sweat				
CBV050L	1/2	4.45	4.85	1.30	2.11	2.11	3.28
CBV050H	1/2	4.45	4.85	1.30	2.11	2.11	3.28
CBV075L	3/4	4.65	4.95	1.50	2.14	2.14	3.31
CBV075H	3/4	4.65	4.95	1.50	2.14	2.14	3.31
CBV100	1	5.10	5.38	1.80	2.27	2.27	3.44
CBV125	1 1/4	5.61	5.95	2.05	2.44	2.44	3.61
CBV150	1 1/2	6.91	7.28	2.48	2.75	-	3.92
CBV200	2	7.55	8.05	2.64	2.94	-	4.1



NOTE: All dimensions are in inches and are subject to minor variations.
Dimensions are not to be used for construction.

Tail piece	Size	B	Size	B
1/2" - M - F - S	1/2" SWT	6.41 5.50 5.50	1/2" FPT	6.01 5.10 5.10
3/4" - M - F - S	3/4" SWT	6.71 5.75 5.74	3/4" FPT	6.41 5.45 5.44
1/2" - M - F - S	3/4" SWT	6.95 6.95 5.80	3/4" FPT	6.21 5.75 5.40
1" - M - F - S	1" SWT	7.38 6.28 6.39	1" FPT	7.10 6.00 6.11
1/2" - M 3/4" - M - S	1" SWT	7.15 7.38 7.38	1" FPT	7.10 7.10 5.95
1 1/4" - M - F - S	1 1/4" SWT	7.95 6.95 7.05	1 1/4" FPT	7.61 6.61 6.62
1/2" - M 3/4" - M 1" - M	1 1/4" SWT	7.72 7.95 7.95	1 1/4" FPT	7.38 7.61 7.61
1 1/2" - M - F - S	1 1/2" SWT	9.78 8.83 8.51	1 1/2" FPT	9.41 8.16 8.14
3/4" - M 1" - M 1 1/4" - M	1 1/2" SWT	9.17 9.78 9.78	1 1/2" FPT	8.80 9.41 9.41
2" - M - F - S	2" SWT	11.05 9.21 9.50	2" FPT	10.55 8.71 9.00
1" - M 1 1/4" - M 1 1/2" - M	2" SWT	10.10 11.05 11.05	2" FPT	9.60 10.55 10.55

SUBMITTAL - CBV SERIES

US Industrial Sourcing, L.L.C.

JOB NAME:

CUSTOMER:

ENGINEER:

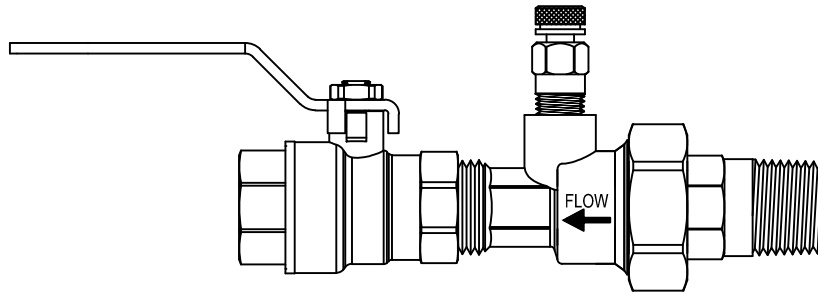
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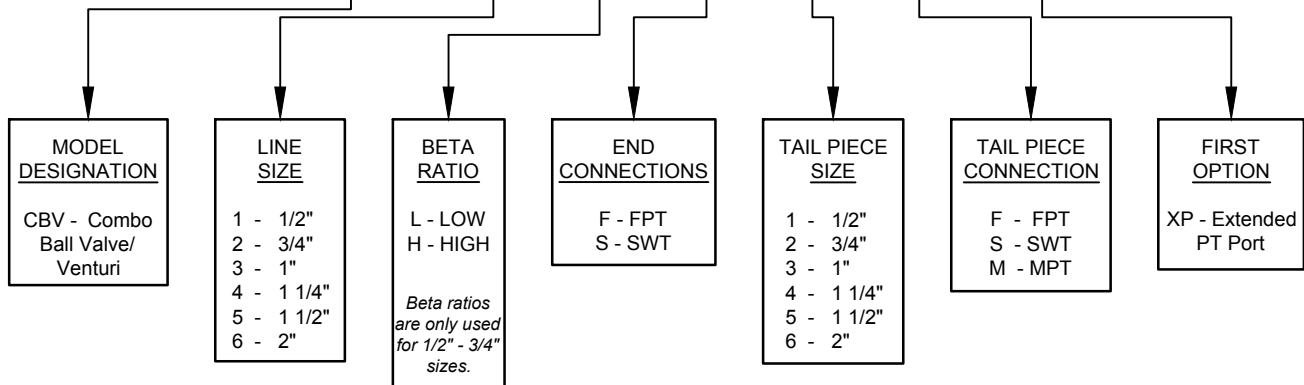
CONTRACTOR:

SUBMITTED BY:

DATE:



CBV - X - X - X - X - X - XX



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