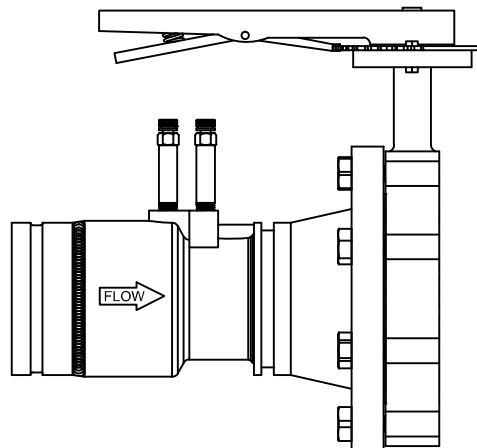




US Industrial Sourcing, L.L.C.

SPECIFICATIONS

Combination Butterfly/Venturi with Groove CBVG Series



PRODUCT DESCRIPTION: The USIS CBVG is a combination butterfly valve and grooved end style venturi. The grooved end carbon steel venturi connects to a standard ANSI Class 150 pound flange, and is combined with a lug type butterfly valve for throttling. The cast iron butterfly valve has a combination infinite/10 position memory stop plate, a one piece disc/shaft, a triple shaft bearing, an aluminum-bronze disc for sizes 2½" - 8", a nickel plated disc for the 10" and 12" sizes, and an EPDM standard liner. The CBVG comes standard with two pressure/temperature ports.

Nominal Line Size	Model #	Lower Flow Range (GPM)	Upper Flow Range (GPM)	Flow Factor (FF)	Weight	STANDARD MATERIAL SPECIFICATIONS	
2 1/2"	CBVG250L	20	140	147	26	Venturi	Steel Casting, Carbon ASTM A216 Grade WCB
	CBVG250H	60	320	319	26	Grooved Adapter	ASTM Schedule 40
3"	CBVG300L	30	220	227	33	Flange	Forged Carbon Steel ASTM A105
	CBVG300H	80	580	578	31	Butterfly Valve	Nodular Cast Iron ASTM A536 60-4-18
4"	CBVG400L	80	600	611	46	Seat	EPDM Rubber
	CBVG400H	140	1000	1029	41	Disc (2½" - 8")	Aluminum-Bronze Sand Casting, ASTM B148 C95800
5"	CBVG500	160	1250	1267	59	Disc (10 & 12")	Nickel Plated Aluminum-Bronze Sand Casting, ASTM B148 C95800
6"	CBVG600	200	1500	1551	78	Shaft	Stainless Steel AISI 410
8"	CBVG800	450	2800	2824	137	O-Ring	EPDM Rubber
10"	CBVG1000	600	4150	4164	236	Bearing	Copper ASTM B45
12"	CBVG1200	950	9700	9670	351	Bearing Bush	PTFE
						Hand Lever	Nodular Cast Iron ASTM A536 60-4-18
						CONNECTIONS:	Inlet - Groove End Outlet - Lug Butterfly Valve
						CALCULATIONS:	D.P. = $(\text{GPM} \times 17.3 / \text{FF})^2$ GPM = $\sqrt{\text{FF} \times 17.3 \times (\text{D.P.})}$

PRODUCT SPECIFICATIONS:

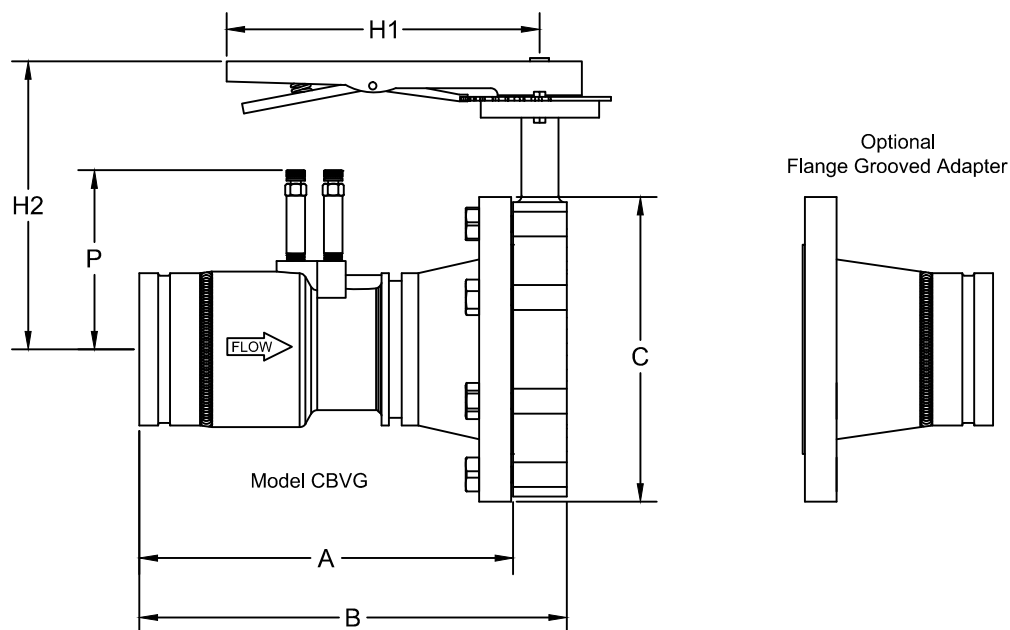
- Butterfly valve is rated at 150 PSIG and is suitable for dead-end service
- Maximum pressure loss 6% of differential pressure
- The carbon steel Venturi accuracy rating: ±1% Between 10" w.c. and 70" w.c. based on Coefficient of Discharge
±3% Between 5" w.c. and 150" w.c.



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DIMENSIONS

Combination Butterfly/Venturi with Groove CBVG Series



SIZE	A	B	C	H1	H2	P	With Optional Flange Grooved Adapter		
							Model	Length	Weight
2 1/2" L & H	9.9	11.7	7.0	10.5	8.1	5.3	FGA250	+ 4.8	+ 13
3" L & H	10.2	12.0	7.5	10.5	8.2	5.5	FGA300	+ 4.8	+ 16
4" L & H	11.2	13.2	9.0	10.5	9.0	6.0	FGA400	+ 5.0	+ 18
5"	11.7	13.8	10.0	10.5	9.4	6.6	FGA500	+ 5.5	+ 24
6"	12.7	14.9	11.0	10.5	10.2	7.2	FGA600	+ 5.5	+ 28
8"	15.6	18.0	13.5	*	*	8.4	FGA800	+ 7.0	+ 48
10"	20.3	22.9	16.0	*	*	8.5	FGA1000	+ 9.0	+ 72
12"	25.5	28.5	19.0	*	*	12.4	FGA1200	+ 9.5	+ 115

* Denotes a gear operated valve.

Note: All dimensions and materials are subject to minor variations. Consult with factory for confirmation of dimensions and material specifications at the time of order.