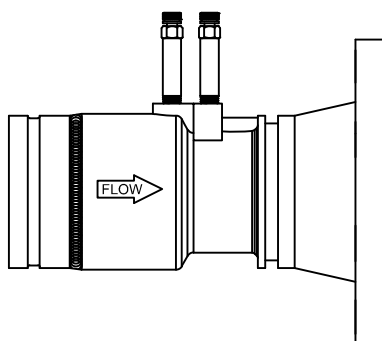




US Industrial Sourcing, L.L.C.

SPECIFICATIONS

Steel Groove Venturi with Flange SGVF Series



PRODUCT DESCRIPTION: The USIS SGVF is a grooved by flange style venturi. The grooved end carbon steel venturi connects to a standard ANSI Class 150 pound flange. The venturi is designed for highly accurate flow measurement with low pressure loss. High and low flow ranges are available in the 2-1/2", 3", and 4" sizes. The SGVF 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" | SGVF250L | 20 | 140 | 147 | 15 | Venturi Grooved Adpater Flange | Steel Casting, Carbon ASTM A216 Grade WCB ASTM Schedule 40 Forged Carbon Steel ASTM A105 |
| | SGVF250H | 60 | 320 | 319 | 15 | | |
| 3" | SGVF300L | 30 | 220 | 227 | 21 | CONNECTIONS: Inlet - Grooved End Outlet - Raised-Face Flange CALCULATIONS: D.P. = (GPM*17.3/FF)² GPM = √FF/17.3*(D.P.) | |
| | SGVF300H | 80 | 580 | 578 | 19 | | |
| 4" | SGVF400L | 80 | 600 | 611 | 29 | | |
| | SGVF400H | 140 | 1000 | 1029 | 24 | | |
| 5" | SGVF500 | 160 | 1250 | 1267 | 37 | | |
| 6" | SGVF600 | 200 | 1500 | 1551 | 48 | | |
| 8" | SGVF800 | 450 | 2800 | 2824 | 83 | | |
| 10" | SGVF1000 | 600 | 4150 | 4164 | 152 | | |
| 12" | SGVF1200 | 950 | 9700 | 9670 | 235 | | |

PRODUCT SPECIFICATIONS:

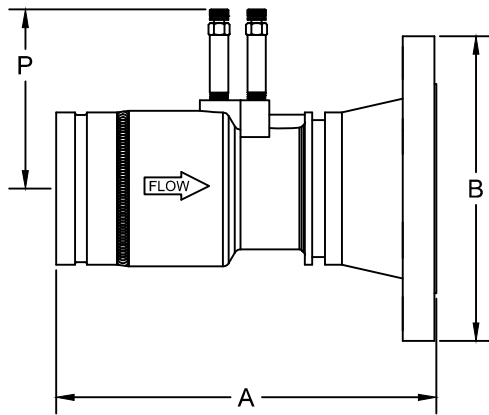
- Raised face flange aids in tight coupling with gasket to provide maximum resistance to leakage
- Maximum pressure loss 6% of differential pressure
- The carbon steel Venturi accuracy rating: $\pm 1\%$ Between 10" w.c. and 70" w.c. based on Coefficient of Discharge
 $\pm 3\%$ Between 5" w.c. and 150" w.c.



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DIMENSIONS

Steel Groove Venturi with Flange SGVF Series



| SIZE | A | B | P |
|------------|------|------|------|
| 2-½" L & H | 9.9 | 7.0 | 5.3 |
| 3" L & H | 10.2 | 7.5 | 5.5 |
| 4" L & H | 11.2 | 9.0 | 6.0 |
| 5" | 11.7 | 10.0 | 6.6 |
| 6" | 12.7 | 11.0 | 7.2 |
| 8" | 15.6 | 13.5 | 8.4 |
| 10" | 20.3 | 16.0 | 8.5 |
| 12" | 25.5 | 19.0 | 12.4 |

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.