Manual Balancing Valves
2”-16” Steel venturi with butterfly Valve
AF AG

The AccuSetter uses a low-loss venturi to obtain a measurement accuracy of 3% F. S. The butterfly has a 2" extended neck above the flange for insulation. The valve handle has an infinite-position memory stop for sizes 2" to 6" and a gear operator on 8" to 16" sizes. The total pressure drop added to the pump head seldom exceeds one foot. The exact drop can be calculated using the formula on Form F199. Flow measurement can be obtained with a differential pressure meter reading across the venturi taps. The GPM can be calculated using the formula on Form F199. (See “Flow Measurement Test Kits,” form F011 for the differential pressure meter kits.) The design flow can be obtained by adjusting the valve operator until the desired GPM is reached. The set handle position is maintained by using the memory stop.

Key features

> **Low Loss Venturi**
  Measure with 3% accuracy

> **Infinite Position**
  Fine adjustment

> **Memory Stop**
  2" - 8"

Technical description

**Application:**
Hydronic Balancing

**Functions:**
Balancing, measurement, shut-off

**Dimensions:**
2" - 6", 8", 10", 12", 14", 16"

**Accuracy:**
±3% F.S.

**Design:**
Low loss piezo-ring throat

**Pressure class:**
240 psig at 250° F (1655 kPa at 120° C)

**Material:**
Venturi Body: Steel ASTM - A120
Instrument Valve: Extended SuperSeal P/T
Test Ports
Butterfly Valve Body: Ductile Iron, full-lug type body, ANSI Class 125/150
Seat & Gasket: EPDM
Stem: Stainless Steel
Bearings: Nylon
Disc: Stainless Steel
(If Al-Bronze is required please consult factory)
Model Information

Model AF
Model AF AccuSetter includes a flanged venturi with a lug butterfly valve attached to the downstream side. Extended Pressure/Temperature Ports are standard.

- Field installation requires one 150# mating flange. Cap screws are included to mate the butterfly and the customer-supplied flange.

Model AG
Model AG AccuSetter includes a grooved venturi on the entry with a lug butterfly valve mounted on the downstream exit end. The Model FG is also available as an option on all sizes. Extended Pressure/Temperature Ports are standard.

- Field installation requires one standard grooved coupling for the upstream attachment.

Supplemental Installation Instructions

See Venturi & AccuSetter Valves Installation, Operation & Maintenance (F033) for more information

Articles

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## Articles

### Dimensions

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### Notes

(*) denotes L (low flow) or H (high flow) must be specified.
All weights and dimensions given are in pounds and inches and are subject to change.
Venturi products made from fabricated materials may vary ±1/16 inch per component.

## Model Order Designation

![Model AG Diagram]

- **Model Size**: 100mm AG Shown
- **Flow Range**: Low Flow Range Shown
- **Option w/ Locations**: Metal ID Tag Shown

**AG0400L** - MI

- **L** = Low Range Range
- **H** = High Range Range

### Options Available

- **AV** Manual Air Vent
- **C2** 1/2" Accessory Port
- **C3** 3/4" Accessory Port
- **C4** 1/4" Accessory Port
- **CPT** Capillary Port/Tee
- **HN** Hose End Drain
- **PI** Plastic ID Tag
- **MI** Metal ID Tag

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