

Mark 695 Series

Piloted Tank Blanketing Regulator 2"

The 2" Mark 695 is an internally piloted tank blanketing regulator.

- Elastomer seals in the form of o-rings are used throughout and are offered as Buna-N, EPDM, and Viton as standard.
- Preformed Jorlon is used for the diaphragm for maximum sensitivity to minute pressure changes inside the tank.
- The outlet ranges are 0.7-5.4 wc and 4-18 wc.
- Operating inlet pressures are determined by set point.
- An inlet filter w/dripwell is standard to prevent clogging of the bleed orifices in the upper and lower pilot cages.

OPTIONAL FEATURES

- Adaptable for inline and angle body service
- Purge system and outlet gauges available
- FNPT threaded and flanged end connections available



SPECIFICATIONS

Sizes: 2" NPS (DN 50)

End Connections:

- 2" Threaded Ends – FNPT in an Angled or Straight Thru format
- Flanged – ANSI, DIN JIS
- Others - Socket Weld or Butt Weld

Body Materials

- Carbon Steel (WCB)
- 316L Stainless Steel (CF3M)

Trim Materials

- All wetted parts - Stainless Steel, 316/316L

Body Seals: Buna-N, EDPM, Viton & PTFE Gasket

Soft Seat: BUNA-N, EDPM, VITON to match body seals

Diaphragm: Pre-Formed Jorlon

Shut Off: Class VI (ANSI/FCI 70-3-2016)

Weight: 43 lbs (NPT) (19.5kg)

Flow Capacity: Cv (Kv): 10 (8,6), 19 (16,3), 28 (24,1), 48 (41,3)

Sizing Instructions: Determine required blanketing capacity per API 2000. Use JVCV to size valve.

Maximum Allowable Inlet Pressure: 200 psig max inlet @ 100°F (13,8 bar @ 38°C)

Maximum Operating Inlet Pressure: 200 psig max inlet @ 100°F (13,8 bar @ 38°C)

Set Pressures:

- 0.7 – 5.4 wc (1,74 mb - 13,4 mb)
- 4 – 18 wc (9,96 mb - 44,84 mb)

Maximum Outlet Pressure: 25 psig (1,7 bar)

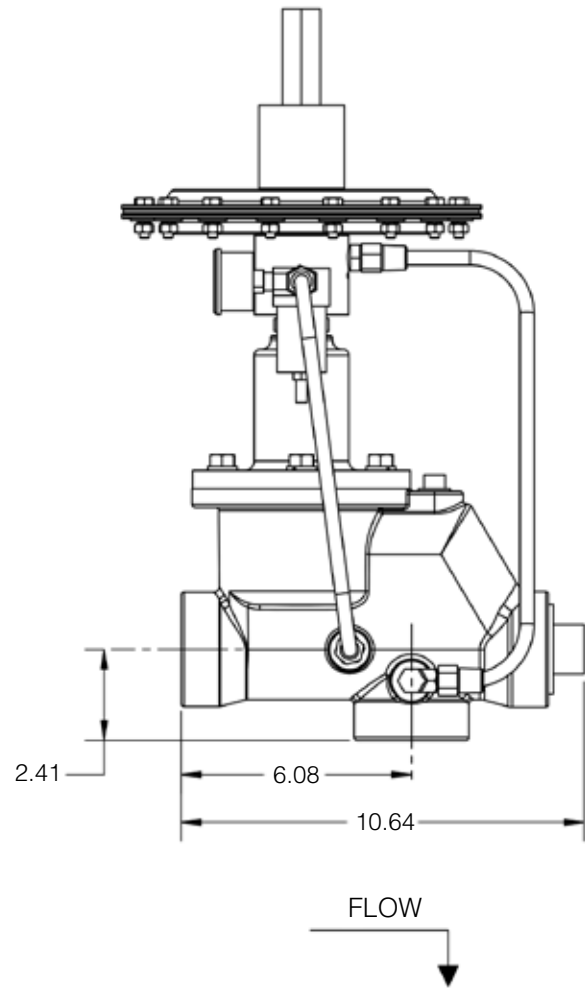
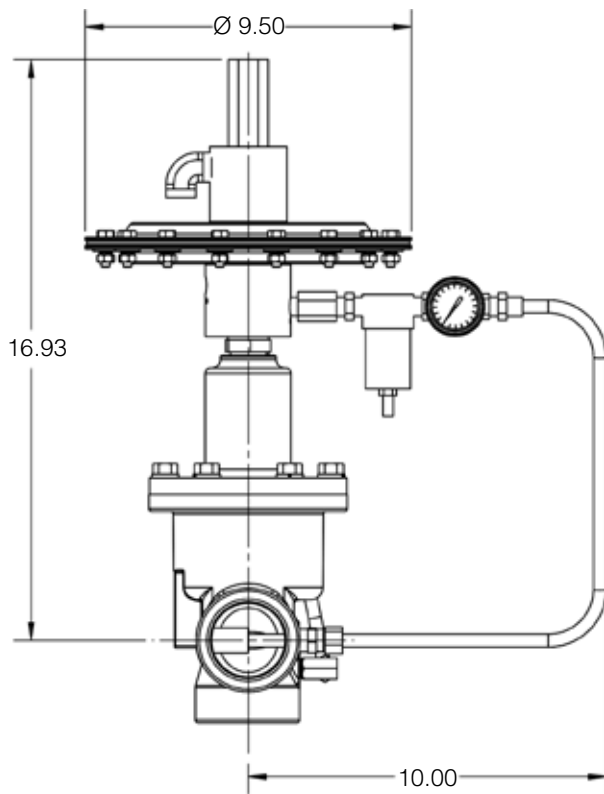
Pressure @ Maximum Operating Temperature: 200 psi max inlet @ 250°F (13,8 bar @ 121°C)

Maximum Pressure Drop: 200 psig max ΔP (13,8 bar)

| Set Point | Maximum Inlet Pressure (Consult Factory for Higher Inlet Pressures) |
|-------------------------------|--|
| | 2" Size |
| 0.7 - 1.0 wc (1,7 - 2,488 mb) | 100 psig(6,9 barg) |
| 1.05 - 14 wc (2,6 - 34,8 mb) | 150 psig (10,3 barg) |
| 14.1 - 18 wc (35,1 - 44,8 mb) | 200 psig (13,8 barg) |
| Inlet Pressure | |
| Minimum | 25 psig (1,7 barg) |
| Recommended | ≥35 psig (2,41 barg) |

DIMENSIONS

2" MK695



WEIGHTS

| Size | End Connections | Weight lbs (kgs) |
|------|-----------------|---------------------|
| 2" | NPT | 42 (19) |
| | 150# FE | 53 (24) |
| | 300# FE | 57 (26) |

ORDERING SCHEMATIC FOR MK695

| Model No | Size | Body Mat'l | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----------|------|------------|---|---|---|---|---|---|---|---|---|----|----|----|
| | | | | | | | | | | | | | | |

| Model | |
|-------|-----------------------------------|
| 695 | Piloted Tank Blanketing Regulator |

| 5 & 6 | Cv (Kv) |
|-------|-----------------|
| 10 | 10 Cv (8,6 Kv) |
| 19 | 19 Cv (16,3 Kv) |
| 28 | 28 Cv (24,1 Kv) |
| 48 | 48 Cv (41,3 Kv) |

| Size | |
|------|----|
| 200 | 2" |

| 7 & 8 | Range |
|-------|---------------|
| A7 | 0.7-5.4" W.C. |
| A8 | 4-18" W.C. |
| ZZ | Non-Standard |

| Body Material | |
|---------------|------------------------|
| 6L | Stainless Steel (CF3M) |
| CS | Carbon Steel (WCB) |
| ZZ | Non-Standard |

| 9 & 10 | Actuator |
|--------|--------------|
| S1 | Standard |
| ZZ | Non-Standard |

| 1 & 2 | End Connections |
|-------|-----------------------------------|
| PT | NPT |
| F3* | 300# Flanged - angle body version |
| F5* | 150# Flanged - angle body version |
| ZZ | Non-Standard |

| 11 & 12 | Accessory |
|---------|---------------------------------|
| G2 | Outlet Gauge 0 - 6" W.C. |
| IL | In-line Body Option (FNPT only) |
| P1 | Purge System |
| ZZ | Non-Standard |

* Consult Factory for inline version

| 3 & 4 | Trim Material |
|-------|---------------|
| BN | Buna-N / 316 |
| VI | Viton / 316 |
| EP | EPDM / 316 |

CAUTION: The following information is subject to change. Product Numbers and Description should be checked with the Factory for accuracy before Order Entry.

