



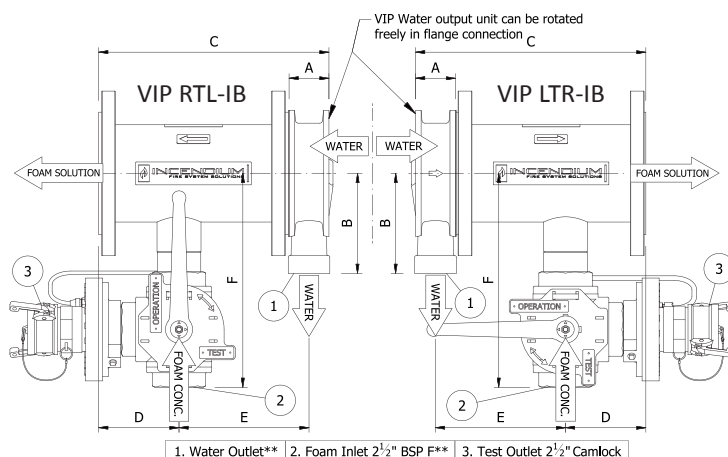
## Viscosity Independent Tank Proportioner

The VIP is a foam proportioner designed for use with bladder tanks, such as the IBT, that induces foam concentrate into the main water line. The VIP can be used in systems where large variations in flow occur.

What separates the VIP from a normal wide range proportioner is that it can, through its patent pending function, accurately induce foam independently of viscosity which has been shown to be an issue with many new types of foam concentrates. As an option, the VIP can also be fitted with a test outlet (TO) which allows for complete testing of a system without introducing any foam into the main water line.

The VIP provides a highly accurate proportioning ratio throughout its entire flow range combined with a low pressure-drop. The VIP is available with proportioning ratios from 1% up to 3% and is suitable for use with any type of foam concentrate.

The VIP is designed for mounting between flanges, DIN or ANSI and can easily be incorporated into existing bladder tank systems. The VIP can be provided in either Right-To-Left or Left-To-Right flow direction with Input-Above or Input-Below.



### DIMENSIONAL DATA

| Model      | Length [mm] |     |     |     |     |     | Connection  |                | Weight [kg] |
|------------|-------------|-----|-----|-----|-----|-----|-------------|----------------|-------------|
|            | A           | B   | C   | D   | E   | F   | Water*      | Water Outlet** |             |
| VIP-TO-150 | 71          | 173 | 399 | 140 | 225 | 370 | DN150 / 6"  | 2" F           | 60          |
| VIP-TO-200 | 93          | 215 | 493 | 151 | 295 | 385 | DN200 / 8"  | 2 1/2" F       | 90          |
| VIP-TO-250 | 102         | 225 | 602 | 192 | 360 | 422 | DN250 / 10" | 3" F           | 110         |

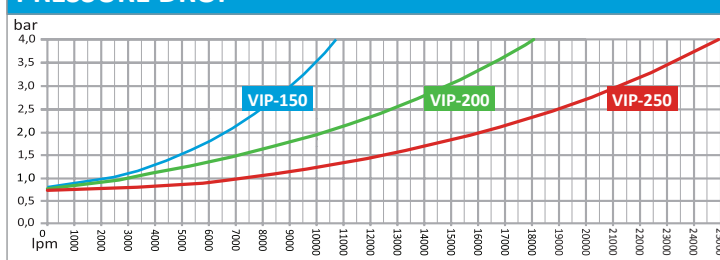
\* Mounted between flanges: DIN PN16 / ANSI 150lbs.

\*\* BSP Female as standard. More connection options available upon request

### PERFORMANCE DATA

| Model   | Flow Range [l/min] | Min. Straight Pipe Length Upstream [mm] | Min. Straight Pipe Length Downstream [mm] |
|---------|--------------------|-----------------------------------------|-------------------------------------------|
| VIP-150 | 100-10000          | 300                                     | 150                                       |
| VIP-200 | 150-18000          | 400                                     | 200                                       |
| VIP-250 | 200-25000          | 500                                     | 250                                       |

### PRESSURE DROP

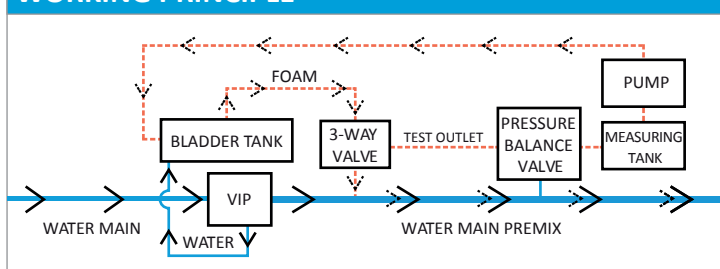


The VIP together with the TO (VIP-TO) allows for reliable testing of mixing ratio without mixing the foam concentrate with water. After the test has been completed, the foam concentrate can be pumped back into the bladder tank.

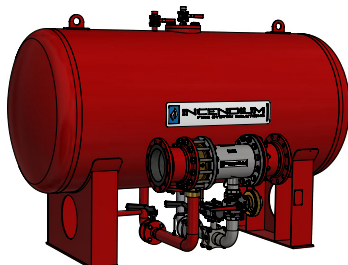
For a demonstration video, please use the link below.

<https://vimeo.com/277641987>

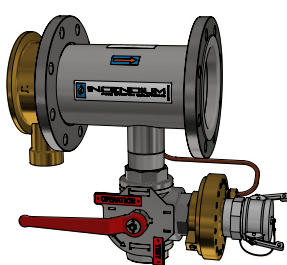
### WORKING PRINCIPLE



IBT-H 2000 pre-piped with VIP-200 LTR-IB



VIP-150 LTR-IB



### Material:

Body: Bronze  
Internals: Stainless Steel (316L)

### Product Features

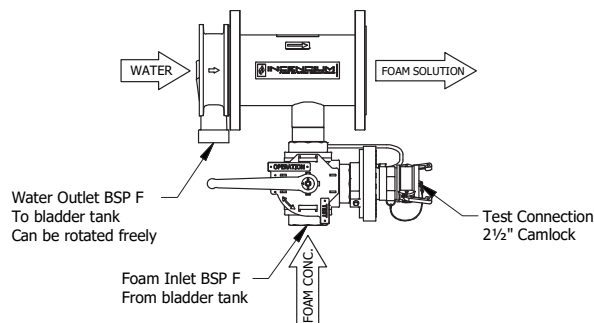
- Patent proportioning and testing function independent of foam concentrate type.
- Accurate mixing over the entire flow range
- Customer specific, fixed proportioning ratio
- Suitable for fluorine free foams, especially high viscosity/non-Newtonian properties
- Low pressure drop
- Wide flow range up to 120:1
- Economic and environmental friendly live foam testing without mixing water and foam concentrate
- Customer specific bladder tank water, foam and test outlet connections available
- Incendium Automatic Foam Valve (IAFV) available as option
- Test Outlet hose available as option
- Designed and tested according to EN 13565-1



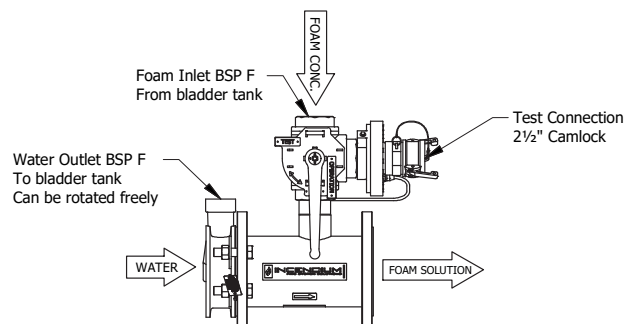
## Option VIP A - B - C - D

**VIP A ( 1:15 )**

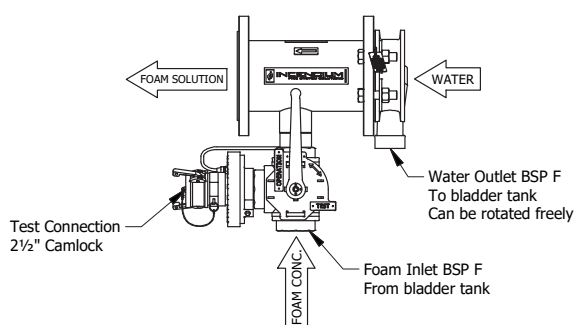
Left To Right (main flow direction), Input Below (foam)

**VIP B ( 1:15 )**

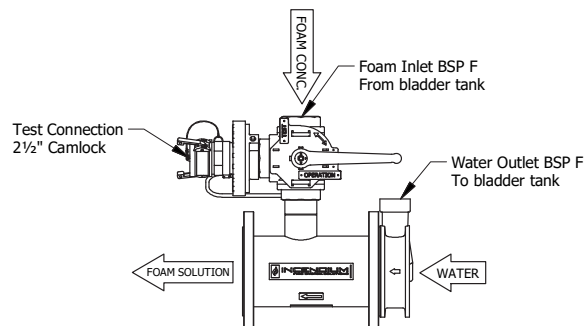
Left To Right (main flow direction), Input Above (foam)

**VIP C ( 1:15 )**

Right To Left (main flow direction), Input Below (foam)

**VIP D ( 1:15 )**

Right To Left (main flow direction), Input Above (foam)



VIP A-B-C-D, the four options that must be specified when placing an order.

## IPPT / VIP Test Unit with Return Pump

Complete test unit for measuring and returning foam concentrate.

VIP is a wide-range proportioner that enables testing of the foam proportioning system without mixing foam concentrate with water. A complete installation can be tested for foam mixing percentage without discharging any foam. The foam concentrate is instead diverted and collected separately from the main flow and can, after the test, be returned to the foam tank. Because of this, regular testing of the system can be done with both environmental and economic benefits.

Includes:

- 200 or 320 liter measuring tank
- Pump 0.25 kW / 230V with 4 m cable
- 3.5 m 2½" test hose
- 3 m 1" return hose

**200 liter****320 liter**

### MATERIALS

|              |                       |
|--------------|-----------------------|
| Tank:        | PE Natural            |
| Hose:        | PVC                   |
| Pump:        | AISI316 / FKM         |
| Connections: | Camlock Aluminum / PP |