

**INLINE PROPORTIONERS FOR FIXED FLOWRATE V TYPE**

**OPERATING AND MAINTENANCE HANDBOOK**

**DESCRIPTION**

V-type inline proportioners are simple and inexpensive foam proportioners suitable for foam systems where the water main supply pressure is reasonably high (min 7 bar).

The V type inline proportioners are designed for operating at the specific nominal flowrate (i.e. the V8 inline proportioner works properly at the nominal flowrate of 800 lt/min).

This requires a very accurate hydraulic calculation of the pressure loss in the foam premix distribution lines to the foam makers and following to this a very accurate calculation of the effective flowrate of the related foam makers at the effective premix pressure at the inlet of the foam makers.

The foam compound suctioning inlet of the V type inline proportioners is provided with a shut-off ball valve (or foam compound admixing percentage regulating valve) and with a check valve to avoid the inlet of water in the foam compound tank in case of too high counterpressure in the premix distribution lines.

The threaded connection for the connecting pipe to the foam compound tank is 1"÷1¼" GAS or NPT

**OTHER TECHNICAL DATA**

Foam compound admixing percentage:	3% or 6% for fixed admixing percentage 1%÷6% for admixing percentage regulating valve.
Working pressure:	according to hydraulic calculations. Recommended 7÷10 bar inlet pressure.
Pressure loss in the inline proportioner:	about 30% of the water inlet pressure.
Application:	with atmospheric foam compound storage tanks with topside aspiration.
Max suctioning height:	about 2 mt. from the bottom of the foam compound storage tank.
Material:	- body and valves: brass - diffusor cone: poliammide or brass - flanges: carbon steel
External protection:	painting red RAL 3000
Operating range:	within ± 5% of the nominal flowrate.

## **MAINTENANCE**

### **- after each intervention:**

- flush the inline proportioners with clean water in order to eliminate any foam residual

### **- every six months:**

- check the inline proportioners on their integrity.
- check that the ejector nozzle and the foam compound suctioning orifice are not clogged and if necessary clean them.

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