



## MSL/EI

### Displacement liquid foam proportioning unit for variable flowrate MSL/EI type

- with vertical tank in welded carbon steel, capacity 450 lt to 12.000 lt, with manhole, dimensioned according the European Standard 97/23/CE “PED” for working pressure 10 bar, design pressure 12 bar and test pressure 18 bar, with internal Hypalon membrane, with internal distribution and stabilizing pipes in stainless steel, with tank pressure indicator, safety valve and metallic plate with technical data of the unit,
- complete of all necessary accessories for the proper operation of the unit,
- level indication with ball valves along the side of the tank, (optionally level indication with flowmeter on the water inlet line to the tank),
- foam proportioning pipe for variable flowrate in welded carbon steel, DN flanged ANSI 150 lbs R.F. (alternative DIN PN 16),
- connecting line and valves between proportioner and tank (water inlet line ) in carbon steel,
- connecting line and valves between tank and proportioner (foam compound outlet line) in stainless steel AISI 304, with internal Venturi nozzle in stainless steel for flowrate  $Q = 200 \div 19.200$  lt/min., with pressure gauges on the proportioning pipe for visualization of the pressure upstream and downstream the Venturi nozzle, with foam compound admixing percentage regulating valve  $0 \div 6\%$ ,
- external protective painting: sandblasting SA 2,5,
  - n.1 epoxy rich primer coat d.f.t.=60 $\mu$ ,
  - n.2 final epoxy enamel coats red RAL 3000, d.f.t. =45 $\mu$  each, total d.f.t. =150 $\mu$
- internally protected execution for aggressive foam compounds, with internal protective painting: sandblasting SA 3,
  - n.1 epoxy rich primer coat d.f.t.=60 $\mu$ ,
  - n.1 final epoxy coat, d.f.t. =40 $\mu$ , total d.f.t. =100 $\mu$

#### Optionally:

- electric refilling pump mounted on the proportioner and complete with connecting piping



### ANSI 150 lbs R.F. flange

| Type            | Code nr.   | Capacity (lt.) | Dia.Foam Proportioning Pipe and Flange | Flowrate (lt/min) | Weight (Kg) | Dwg. nr. |
|-----------------|------------|----------------|----------------------------------------|-------------------|-------------|----------|
| MSL/EI 450/3"   | 0470203410 | 450            | 3"                                     | 200 ÷ 1600        | 400         | 04720318 |
| MSL/EI 0K6/3"   | 0470206410 | 600            | 3"                                     | 200 ÷ 1600        | 450         | 04720408 |
| MSL/EI 1K0/4"   | 0470210510 | 1000           | 4"                                     | 200 ÷ 1600        | 500         | 04720823 |
| MSL/EI 1K5/4"   | 0470215510 | 1500           | 4"                                     | 200 ÷ 1600        | 650         | 04721031 |
| MSL/EI 2K0/6"   | 0470220610 | 2000           | 6"                                     | 400 ÷ 3200        | 800         | 04721218 |
| MSL/EI 2K5/6"   | 0470225610 | 2500           | 6"                                     | 400 ÷ 3200        | 900         | 04721421 |
| MSL/EI 3K0/8"   | 0470230710 | 3000           | 8"                                     | 800 ÷ 6400        | 950         | 04721624 |
| MSL/EI 4K0/8"   | 0470240710 | 4000           | 8"                                     | 800 ÷ 6400        | 1300        | 04722022 |
| MSL/EI 5K0/10"  | 0470250810 | 5000           | 10"                                    | 1200 ÷ 9600       | 1700        | 04722408 |
| MSL/EI 6K0/10"  | 0470260810 | 6000           | 10"                                    | 1200 ÷ 9600       | 1900        | 04722826 |
| MSL/EI 7K0/12"  | 0470270910 | 7000           | 12"                                    | 1600 ÷ 12800      | 2300        | 04723209 |
| MSL/EI 10K0/14" | 0470291110 | 10000          | 14"                                    | 2400 ÷ 19200      | 3000        | 04724405 |
| MSL/EI 12K0/14" | 0470293110 | 12000          | 14"                                    | 2400 ÷ 19200      | 3800        | 04725204 |

### DIN PN 16 flange

| Type            | Code nr.   | Capacity (lt.) | Dia.Foam Proportioning Pipe and Flange | Flowrate (lt/min) | Weight (Kg) | Dwg. nr. |
|-----------------|------------|----------------|----------------------------------------|-------------------|-------------|----------|
| MSL/EI 450/3"   | 0470203420 | 450            | DN 80                                  | 200 ÷ 1600        | 400         | 04720319 |
| MSL/EI 0K6/3"   | 0470206420 | 600            | DN 80                                  | 200 ÷ 1600        | 450         | 04720407 |
| MSL/EI 1K0/4"   | 0470210520 | 1000           | DN 100                                 | 200 ÷ 1600        | 500         | 04720807 |
| MSL/EI 1K5/4"   | 0470215520 | 1500           | DN 100                                 | 200 ÷ 1600        | 650         | 04721032 |
| MSL/EI 2K0/6"   | 0470220620 | 2000           | DN 150                                 | 400 ÷ 3200        | 800         | 04721217 |
| MSL/EI 2K5/6"   | 0470225620 | 2500           | DN 150                                 | 400 ÷ 3200        | 900         | 04721423 |
| MSL/EI 3K0/8"   | 0470230720 | 3000           | DN 200                                 | 800 ÷ 6400        | 950         | 04721625 |
| MSL/EI 4K0/8"   | 0470240720 | 4000           | DN 200                                 | 800 ÷ 6400        | 1300        | 04722024 |
| MSL/EI 5K0/10"  | 0470250820 | 5000           | DN 250                                 | 1200 ÷ 9600       | 1700        | 04722407 |
| MSL/EI 6K0/10"  | 0470260820 | 6000           | DN 250                                 | 1200 ÷ 9600       | 1900        | 04722827 |
| MSL/EI 7K0/12"  | 0470270920 | 7000           | DN 300                                 | 1600 ÷ 12800      | 2300        | 04723208 |
| MSL/EI 10K0/14" | 0470291120 | 10000          | DN 350                                 | 2400 ÷ 19200      | 3000        | 04724406 |
| MSL/EI 12K0/14" | 0470293120 | 12000          | DN 350                                 | 2400 ÷ 19200      | 3800        | 04725205 |