

WAFER TYPE RATIO CONTROLLER

MODEL: SD-WRC-B, SD-WRC-S



DESCRIPTION

SHIELD pressure Proportioner is for use in fixed systems to introduce designed foam concentrate at a predetermined rate into the fire-water supply, over a varying range of foam solution demands. For example, where a number of discharge outlets may be required to operate individually or simultaneously. There are 5 basic models with capacities from 40 GPM to 2400 GPM and each unit is factory-calibrated to suit proportioning rates of 2% or 3% or 6% of a specified foam concentrate.

Size 2.5" proportioner shall be threaded type and the other sizes are wafer type. The wafer type, designed to be installed between ANSI 150 flanges and are manufactured from high grade corrosion resistant materials. They are simple to install, require no maintenance and their modular construction gives the engineer considerable flexibility in terms of selection of flow rate and positioning within the system.



FEATURES

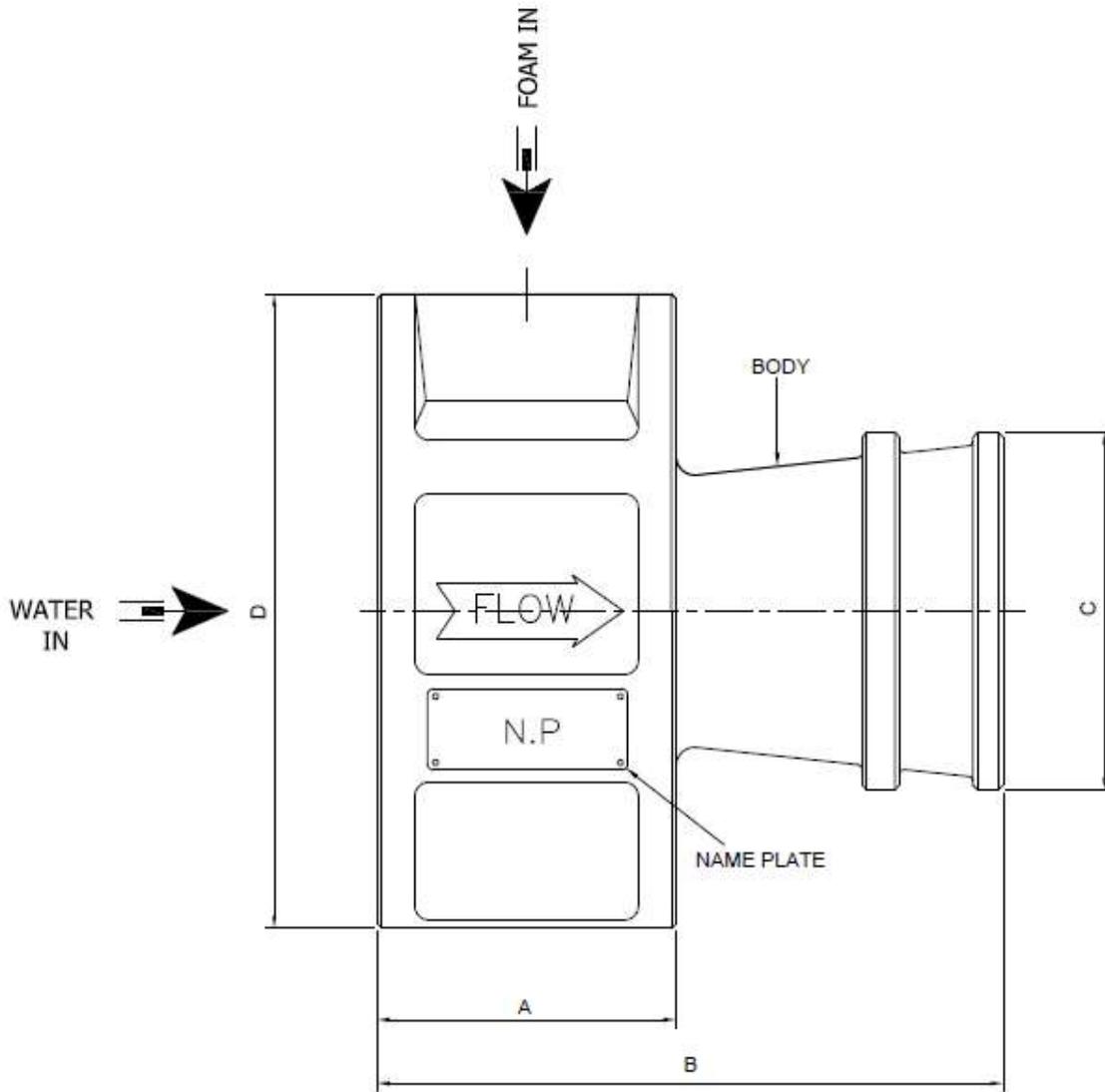
- Corrosion resistant bronze(WRC-B)/ stainless steel construction (WRC-S).
- Custom flow and pressure options available.
- Optional threaded or flanged end connections
- 2.5" WRC shall be threaded, other size are wafer type.

WAFER TYPE RATIO CONTROLLER SIZE & FLOW RATE

RATIO CONTROLLER, MODEL: SD WRC-B AND SD WRC-S, FLOW RATE IN GPM

| Foam Concentrate | Approval | 65NB | 65NB* | 80NB | 80NB* | 100NB | 100NB* | 150NB | 200NB |
|----------------------|----------|---------|--------|---------|---------|----------|---------|----------|-----------|
| AFFF 3% | UL | 53-415 | 20-150 | 231-614 | 125-840 | 460-1585 | 140-712 | 775-2399 | 845-2364 |
| AFFF 6% | UL | 61-410 | -- | 119-817 | 243-618 | 445-1559 | 193-491 | 752-2289 | 859-2315 |
| AR-AFFF 3/3 | UL | 99-300 | -- | 221-623 | -- | 465-1020 | -- | 793-2214 | 1089-2400 |
| AFFF 3% | FM | 55-313 | -- | 237-614 | -- | 455-1200 | -- | 780-2400 | 845-2320 |
| AFFF 6% | FM | 66-220 | -- | 241-619 | -- | 445-1150 | -- | 725-2135 | 890-2305 |
| AR-AFFF 3/3 | FM | 98-348 | -- | 229-616 | -- | 465-1032 | -- | 758-2375 | 853-2311 |
| AR-AFFF 3/6-3% | FM | 93-324 | -- | 232-632 | -- | 455-1026 | -- | 765-2270 | 837-2360 |
| AR-AFFF 3/6-6% | FM | 101-322 | -- | 251-646 | -- | 460-1035 | -- | 775-2260 | 1103-2100 |
| AFFF 1% (NFP1) | UL | 69-357 | -- | 116-315 | -- | -- | -- | -- | -- |
| AR-AFFF 1/3-1% | UL | 56-376 | -- | 131-374 | -- | -- | -- | -- | -- |
| AR-AFFF 1/3-3% | UL | 71-378 | -- | 146-373 | -- | -- | -- | -- | -- |
| FP P3-3% | UL | 71-357 | -- | 96-371 | -- | -- | -- | -- | -- |
| NF HEFC 2% | UL | 40-351 | -- | 125-735 | -- | 172-1128 | -- | -- | -- |
| AR-AFFF 3/3 (NFP) | UL | -- | 38-153 | 228-806 | -- | -- | -- | -- | -- |
| AR-AFFF 3/6-3% (NFP) | UL | -- | -- | 200-704 | -- | -- | -- | -- | -- |
| AR-AFFF 3/6-6% (NFP) | UL | -- | -- | 233-736 | -- | -- | -- | -- | -- |

*These models are available with different orifices.



DIMENSIONAL DATA

| Proportioner Models | Size (mm) | A | B | C | D | Weight |
|---------------------|-----------|---------|----------------|--------|--------|------------------|
| WRC-B & WRC-S | 65 | 60 mm | approx. 130 mm | 64 mm | 120 mm | Approx. 3.9 kg |
| | 80 | 63.5mm | approx. 135 mm | 76 mm | 135 mm | Approx. 4.2 kg |
| | 100 | 64.5 mm | approx. 230 mm | 101 mm | 173 mm | Approx. 7.4 kg |
| | 150 | 84 mm | approx. 305 mm | 154 mm | 219 mm | Approx. 14.65 kg |
| | 200 | 108 mm | approx. 345 mm | 198 mm | 270 mm | Approx. 33.3 kg |

NOTE:

A minimum of five pipe diameter of straight unobstructed pipe is required at upstream and down stream of each ratio controller.