

THREADED PROPORTIONER HARDWARE



Features

Bronze material construction for performance and durability

Fresh or saltwater compatible

Horizontal or vertical mounted position

Description

SOLBERG® Threaded Proportioners are modified venturi ratio controllers that accurately mix and meter foam concentrate into fire-water streams. Each proportioner consists of the following components: body, inlet nozzle, and metering orifice constructed out of ASTM 85-5-5-5 bronze material. The proportioner is designed with a male NPT threaded inlet and a male threaded outlet in sizes of 2.0" and 2.5", with the flow direction arrow clearly marked. During operation, water flows through the modified venturi to create an area of lower pressure which is directly effected by the water velocity as it flows through the ratio controller.

Application

Typical high-hazard, high-risk applications including flammable liquid storage tanks, loading racks, aircraft hangars, heliports and anywhere flammable liquids are used, stored, processed, or transported.

You can count on SOLBERG Threaded Proportioners to correctly proportion and properly handle the mixing of SOLBERG foam concentrates into a water stream with little pressure loss. SOLBERG Threaded Proportioners are UL listed when used with Solberg foam concentrates and can be used with bladder tank systems and inline balanced pressure proportioning systems.

Specifications

Each SOLBERG Threaded Proportioners body and inlet nozzle is made of bronze with the inlet nozzle and orifice being secured by a stainless retaining ring. The



inlet and outlet of the proportioner body is to be a male NPT with clear markings indicating flow direction and concentrate type. The inlet nozzle is designed with a rounded inlet and a smooth machined finish to ensure minimum stream constriction and maximum velocity. The metering orifice is designed to the proper diameter for the specific foam concentrate type.

Certifications

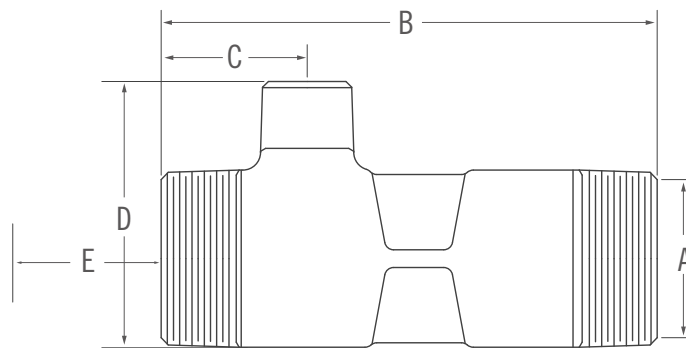
Underwriters Laboratories, Inc. (UL) Listed – Standard 162, FM Approved per Approval Standard 5130 (see FM Approval Guide).

SOLBERG is a member of PERIMETER SOLUTIONS, a global producer of leading fire retardant, gel and foam brands with a singular purpose: revolutionize the course of fire suppression technology with safer, more effective and more sustainable solutions. Together, we are Moving Industries Forward by Redefining Fire Suppression. www.solbergfoam.com

Dimensional Information

| MODEL | APPROXIMATE DIMENSIONS Inches (Millimeters) | | | | |
|-----------|---|------------|-----------|------------|-------------|
| | A | B | C | D | E* |
| 2.0" SRCW | 2.38 (60) | 7.00 (178) | 2.06 (52) | 3.75 (95) | 10.00 (254) |
| 2.5" SRCW | 2.88 (73) | 7.00 (178) | 2.06 (52) | 4.13 (105) | 13.00 (330) |

*Minimum straight pipe lengths required upstream and downstream of proportioner.



Flow Range

| MODEL | CONFIGURATION | CONCENTRATE INLET | UL LISTED - NOMINAL FLOW | | | | |
|-----------|---------------|-------------------|------------------------------|-----------------------------|--------------------------|-----------------------------------|---------------------------|
| | | | RE-HEALING RF3, 3% gpm (lpm) | ARCTIC 1% SP AFFF gpm (lpm) | ARCTIC 3% AFFF gpm (lpm) | ARCTIC 3% MIL-SPEC AFFF gpm (lpm) | ARCTIC 3X3% ATC gpm (lpm) |
| 2.0" SRCW | Threaded | 1.0" FNPT | 147-232 (556-878) | 44-131 (167-496) | 42-263 (159-996) | 45-205 (170-776) | 90-166 (341-628) |
| 2.0" SRCW | Threaded | 1.0" FNPT | 60 (227) | | | | |
| 2.5" SRCW | Threaded | 1.0" FNPT | | 86-282 (326-1067) | 119-392 (450-1484) | 114-375 (432-1420) | 120-369 (454-1397) |

| MODEL | CONFIGURATION | CONCENTRATE INLET | FM APPROVED - NOMINAL FLOW | |
|-----------|---------------|-------------------|------------------------------|---------------------------|
| | | | RE-HEALING RF3, 3% gpm (lpm) | ARCTIC 3x3% ATC gpm (lpm) |
| 2.0" SRCW | Threaded | 1.0" FNPT | 143-248 (541-939) | 89-233 (337-882) |

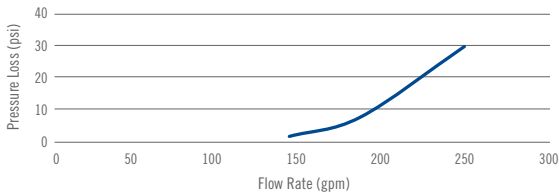




Pressure Loss Curves
NOMINAL FLOW RATES

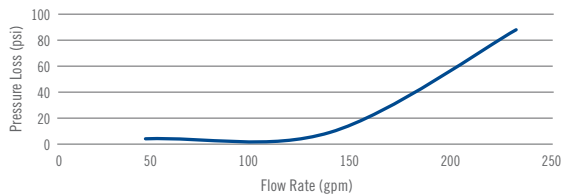
UL LISTED
RE-HEALING RF3, 3% FOAM CONCENTRATE

2 Inch Ratio Controller

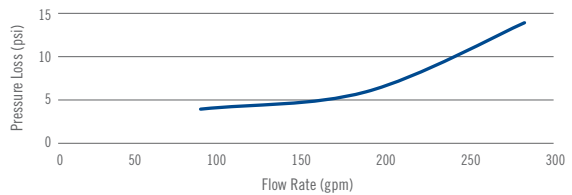


UL LISTED
ARCTIC™ 1% SP FOAM CONCENTRATE

2 Inch Ratio Controller

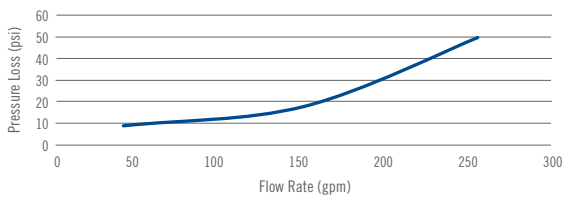


2.5 Inch Ratio Controller



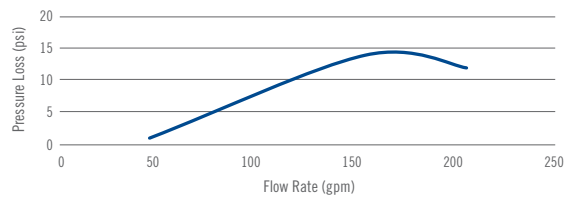
UL LISTED
ARCTIC™ 3% AFFF FOAM CONCENTRATE

2 Inch Ratio Controller

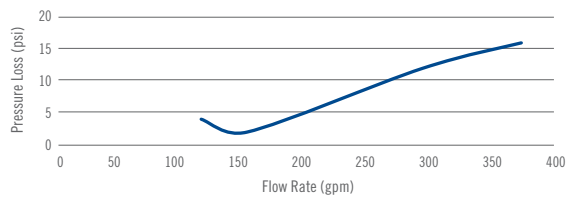


UL LISTED
ARCTIC™ 3% MIL-SPEC FOAM CONCENTRATE

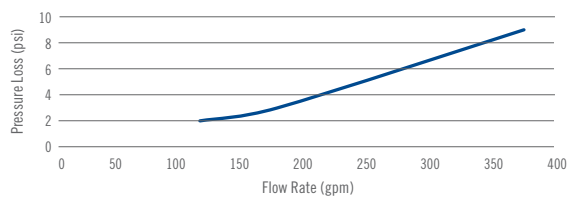
2 Inch Ratio Controller



2.5 Inch Ratio Controller



2.5 Inch Ratio Controller



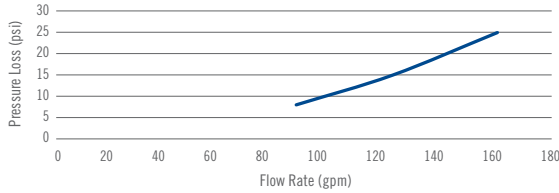
Pressure Loss Curves

NOMINAL FLOW RATES

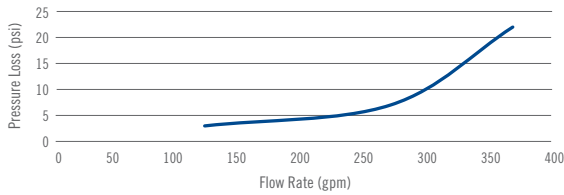
UL LISTED

ARCTIC™ 3X3% ATC™ FOAM CONCENTRATE

2 Inch Ratio Controller



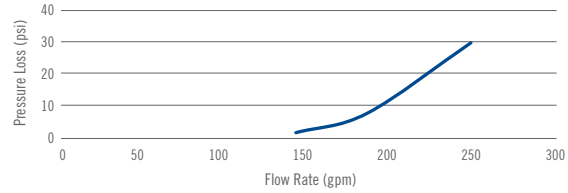
2.5 Inch Ratio Controller



FM APPROVED

RE-HEALING RF3, 3% FOAM CONCENTRATE

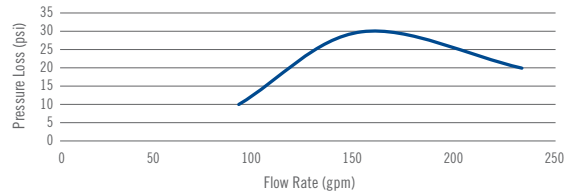
2 Inch Ratio Controller



FM APPROVED

ARCTIC™ 3X3% ATC™ FOAM CONCENTRATE

2 Inch Ratio Controller



Ordering Information

THREADED PROPORTIONER

PART NO. DESCRIPTION

APPROXIMATE SHIPPING WEIGHT

lb kg

| PART NO. | DESCRIPTION | lb | kg |
|----------|--|----|----|
| 30002 | Ratio Controller - Threaded, 2.0" (51 mm), RE-HEALING RF3, 3% | 5 | 2 |
| 30003 | Ratio Controller - Threaded, 2.0" (51 mm), RE-HEALING RF6, 6% | 5 | 2 |
| 30004 | Ratio Controller - Threaded, 2.0" (51 mm), ARCTIC 1% SP AFFF | 5 | 2 |
| 30005 | Ratio Controller - Threaded, 2.0" (51 mm), ARCTIC 3% AFFF | 5 | 2 |
| 30008 | Ratio Controller - Threaded, 2.0" (51 mm), ARCTIC 3% MIL-SPEC AFFF | 5 | 2 |
| 30006 | Ratio Controller - Threaded, 2.0" (51 mm), ARCTIC 3x3% ATC | 5 | 2 |
| 30031 | Ratio Controller - Threaded, 2.5" (63 mm), RE-HEALING RF3, 3% | 6 | 3 |
| 30032 | Ratio Controller - Threaded, 2.5" (63 mm), RE-HEALING RF6, 6% | 6 | 3 |
| 30033 | Ratio Controller - Threaded, 2.5" (63 mm), ARCTIC 1% SP AFFF | 6 | 3 |
| 30034 | Ratio Controller - Threaded, 2.5" (63 mm), ARCTIC 3% AFFF | 6 | 3 |
| 30037 | Ratio Controller - Threaded, 2.5" (63 mm), ARCTIC 3% MIL-SPEC AFFF | 6 | 3 |
| 30035 | Ratio Controller - Threaded, 2.5" (63 mm), ARCTIC 3x3% ATC | 6 | 3 |



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