



## THREADED PROPORTIONER

# HARDWARE

### **Features**

***Bronze construction for performance and durability***

***Fresh and salt water compatible***

***Horizontal or vertical mounting***

### **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 from ASTM 85-5-5-5 bronze. The proportioner is designed with a male NPT threaded inlet and a male threaded outlet in sizes of DN50 (2") and DN65 (2.5"), with the flow direction arrow clearly marked. During operation, the velocity of the water as it flows through the modified venturi creates an area of lower pressure.

### **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 Proportioner's body and inlet nozzle is made of bronze and the inlet nozzle and orifice are secured by a stainless steel retaining ring. The inlet and outlet of the proportioner body have a male NPT thread 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 correct diameter for the specific foam concentrate type.

### **Certifications**

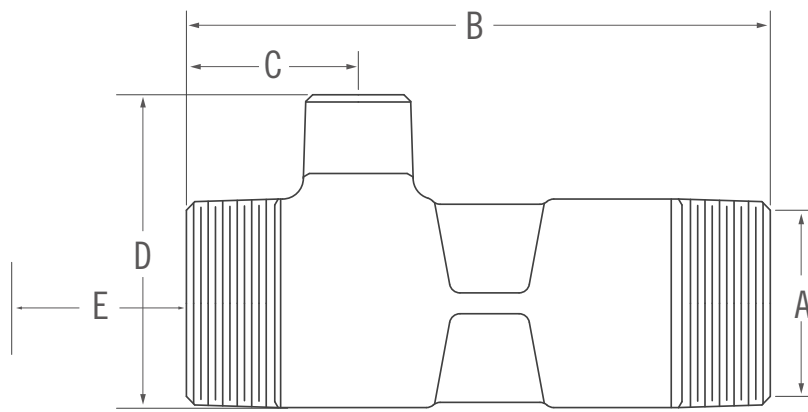
Underwriters Laboratories, Inc. (UL) Listed – Standard 162, FM Approved per Approval Standard 5130 (see FM Approval Guide).

*Solberg is a member of THE AMEREX GROUP, an alliance of independent companies 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](http://www.solbergfoam.com)*

### Dimensions

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

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



### Flow Range

#### UL LISTED – NOMINAL FLOW

MODEL	CONFIGURATION	CONCENTRATE INLET	RE-HEALING RF3, 3% l/min (gpm)	ARCTIC 1% SP AFFF l/min (gpm)	ARCTIC 3% AFFF l/min (gpm)	ARCTIC 3% MIL-SPEC AFFF l/min (gpm)	ARCTIC 3x3% ATC l/min (gpm)
2.0" SRCW	Threaded	1.0" NPT female	556 - 878 (147 - 232)	167 - 496 (44 - 131)	159 - 996 (42 - 263)	170 - 776 (45 - 205)	341 - 628 (90 - 166)
2.0" SRCW	Threaded	1.0" NPT female	227 (60)				
2.5" SRCW	Threaded	1.0" NPT female		326 - 1067 (86 - 282)	450 - 1484 (119 - 392)	432 - 1420 (114 - 375)	454 - 1397 (120 - 369)

#### FM APPROVED – NOMINAL FLOW

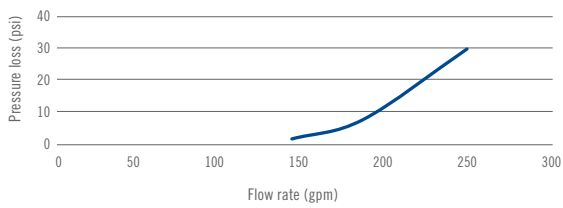
MODEL	CONFIGURATION	CONCENTRATE INLET	RE-HEALING RF3, 3% l/min (gpm)	ARCTIC 3x3% ATC l/min (gpm)
2.0" SRCW	Threaded	1.0" NPT female	541 - 939 (143 - 248)	337 - 882 (89 - 233)

*Pressure Loss Curves*

**NOMINAL FLOW RATES**

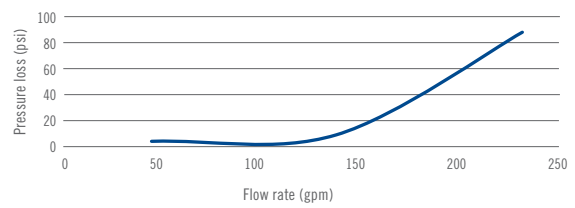
**UL LISTED  
RE-HEALING™ RF3, 3% FOAM CONCENTRATE**

**2 Inch Ratio Controller**

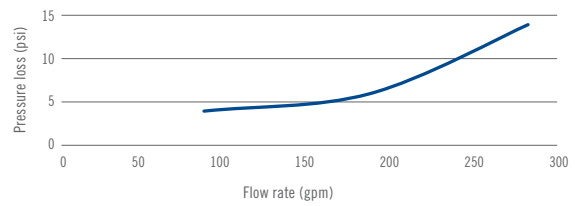


**UL LISTED  
ARCTIC™ 1% SP FOAM CONCENTRATE**

**2 Inch Ratio Controller**

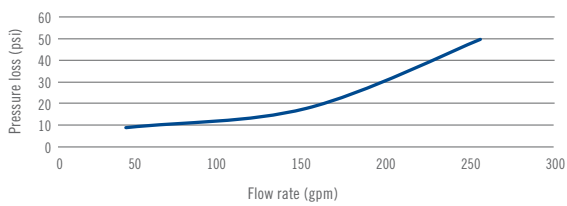


**2.5 Inch Ratio Controller**



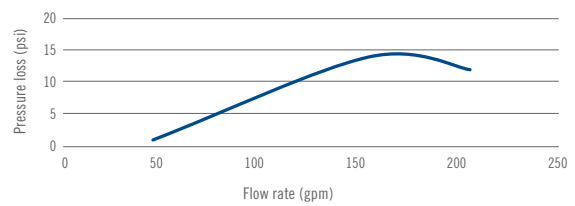
**UL LISTED  
ARCTIC™ 3% AFFF FOAM CONCENTRATE**

**2 Inch Ratio Controller**

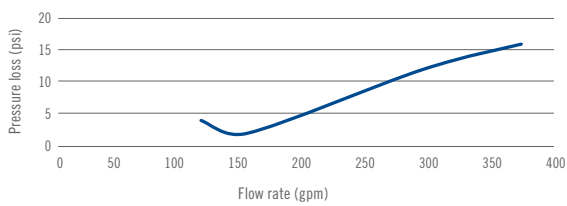


**UL LISTED  
ARCTIC™ 3% MIL-SPEC FOAM CONCENTRATE**

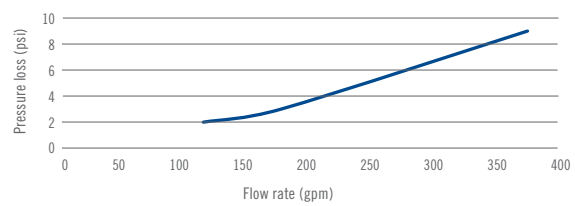
**2 Inch Ratio Controller**



**2.5 Inch Ratio Controller**



**2.5 Inch Ratio Controller**

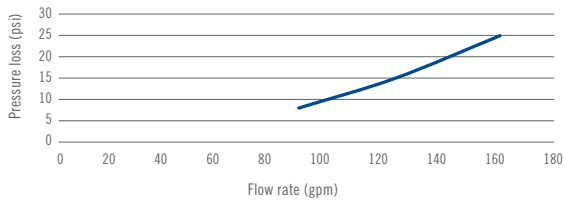


**Pressure Loss Curves**

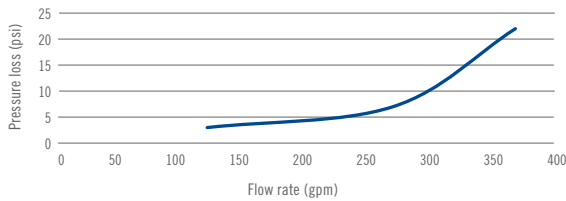
**NOMINAL FLOW RATES**

**UL LISTED**  
**ARCTIC™ 3x3% ATC™ FOAM CONCENTRATE**

**2 Inch Ratio Controller**

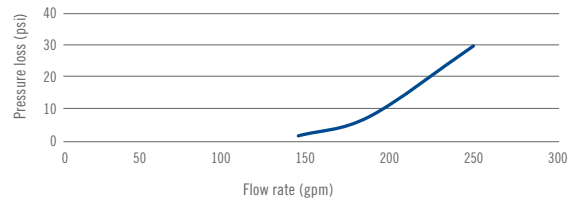


**2.5 Inch Ratio Controller**



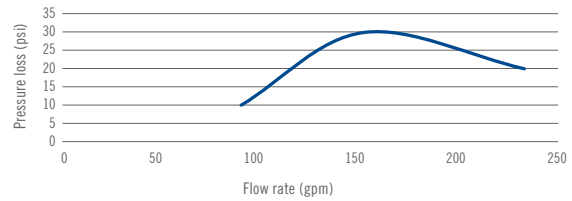
**FM APPROVED**  
**RE-HEALING™ RF3, 3% FOAM CONCENTRATE**

**2 Inch Ratio Controller**



**FM APPROVED**  
**RE-HEALING™ RF3, 3% FOAM CONCENTRATE**

**2 Inch Ratio Controller**



**Ordering Information**

**THREADED PROPORTIONER**

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