FLR-30-FP/FLR-90-FP Rim Seal Foam Pourer

Features

- Air-aspirated foam maker
- Continuous K factors from 1.2 to 16.1
- Operating pressures from 30 psi to 150 psi (2.1 bar to 10.3 bar)
- Assembly includes UL Listed FLR Foam Maker
- Provides wind protection allowing all foam to be applied in the sealing area
- Gentle foam application
- Shipped complete and ready for field installations
- Carbon steel body coated with a corrosion resistant epoxy paint system and stainless steel piping
- Inlet and outlet screened to prevent bird entry
- No welding required for mounting

Application

ANSUL® FLR-30-FP and FLR-90-FP Rim Seal Foam Pourers are air-aspirating foam discharge devices that are designed to protect floating roof, flammable liquid storage tanks. Specifically, the protected storage tanks must be open-top construction with either double-deck or pontoon-type floating roofs.

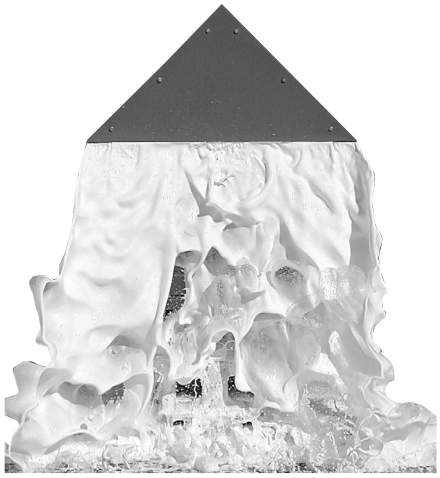
Rim seal foam pourers are used with various types of proportioning systems such as bladder tanks, balanced pressure pump proportioning systems, or line proportioners. The foam pourers can be used with appropriate ANSUL low-expansion foam agents.

Description

The rim seal foam pourer is designed to discharge fully aspirated foam directly to the annular seal area of the open top floating roof storage tanks for fire or vapor suppression. Fully aspirated foam provides the most effective performance for all types of foam concentrates.

The rim seal foam pourer is designed utilizing the UL Listed FLR-30 or FLR-90 Foam Makers. The rim pourer design provides protection from the wind, allowing the aspirated foam to gently discharge onto the protected area of the floating roof tank. Gentle application minimizes submergence and agitation, increasing the effectiveness of the foam blanket. This design allows a uniform and cohesive foam flow.

The FLR-30-FP and FLR-90-FP Rim Seal Foam Pourers are both classified as Type II discharge devices in accordance with NFPA 11, “Standard for Low-, Medium-, and High-Expansion Foam.”



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The cover of the unit, opposite of the foam solution inlet, is designed for removal to allow for internal inspection. The unit can be mounted on the top flange of the fuel storage tank utilizing the mounting holes located in the base of the rim seal foam pourer or by the use of clamps.

A screened air inlet, conforming to the cylindrical body, allows uniform air distribution into the foam solution stream to generate expanded foam. This design also helps prevent damage and inhibits the entrance of foreign materials.

A removable orifice plate at the threaded inlet is sized to deliver foam solution over a range of flow rates depending on the inlet pressure. The acceptable operating pressure range is 30 psi to 150 psi (2.1 bar to 10.3 bar).

A stainless steel foam solution strainer (on FLR-30-FP only) is provided at the foam maker inlet. The strainer is secured by a snap retaining ring to allow removal for inspection and cleaning.

Note: The converted metric values in this document are provided for dimensional reference only and do not reflect an actual measurement.

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Specifications

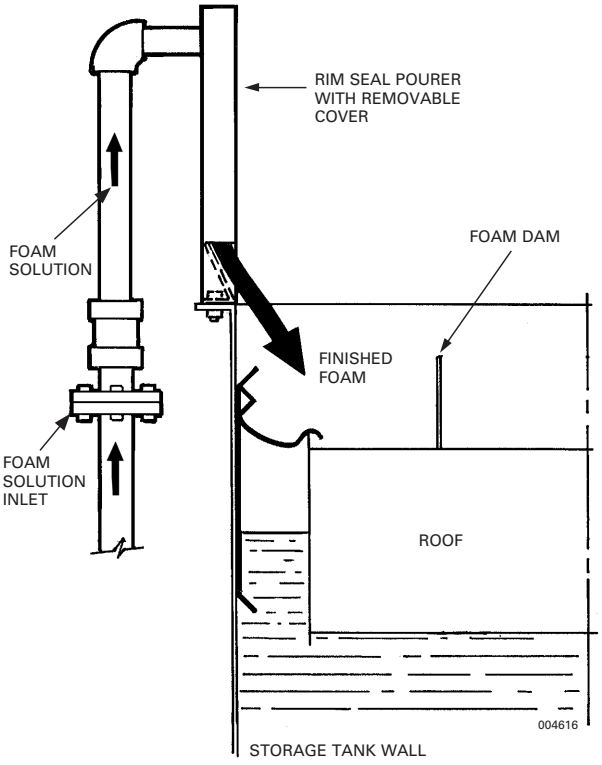
The foam pourers shall be finished in epoxy paint with zinc-rich primer over abrasive blasted steel. The inlet shall have a flat-face 2.5 in. steel flange, and the orifice plate shall be made of field-replaceable machined brass. The fasteners shall be constructed of stainless steel as well as the inlet and outlet screens; the screen prevents birds from entering the foam pourer. The operating pressure shall range from 30 psi to 150 psi (2.1 bar to 10.3 bar), and the continuous K factors shall be from 1.2 to 16.1.

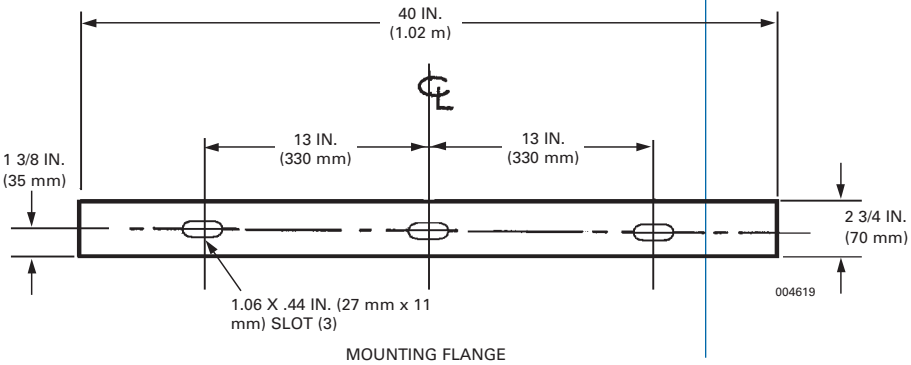
Flow Range

The orifice size and inlet pressure determines the flow rate of the rim seal foam pourer. The flow ranges listed in the following table are based on 30 psi (2.1 bar) using the smallest orifice for the minimum flow, and 150 psi (10.3 bar) using the largest orifice for the maximum flow.

Model	Flow Range	K-Factor Range
FLR-30-FP	6.7 gpm to 79.6 gpm (25.4 Lpm to 301 Lpm)	1.2 to 6.5
FLR-90-FP	31.1 gpm to 197.7 gpm (118 Lpm to 748 Lpm)	5.6 to 16.1

To determine flow rates for specific applications and proper orifice sizing, consult Johnson Controls Technical Services.





Ordering Information

Part No.	Description	Approximate Shipping Weight lb	(kg)
428170*	FLR-30-FP	110	(49.9)
428171*	FLR-90-FP	120	(54.4)

***Note**: Required inlet flow and pressure must be provided at time of order.