ØRiFiS





Features

Choice of four foam chamber sizes for various foam solution flow rate requirement Hinged inspection hatch with captive bolt securement for ease of inspection an maintenance. Choice of carbon steel or 304 stainless steel with corrosion resistanr (CR) epoxy finish. TEFLON* vapor seal allows unrestricted flow of expanded foam. Convenient vapor seal replacement without removal of retaining bolts. UL listed.

Application

ORIFIS foam chabers are air-aspirating foam discharge devices that are used to protect various types of flammable liquid storage tanks including open top floating roof tanks and cone roof tanks with or without internal floaters. Additional application include most type of open tanks where flammable liquid products are involved.

Foam chabers are defined by NFPA 11 as Type 2 discharge outlets for delivering foam to the surface of a flammable liquid. They are commonly used with bladder tanks, balanced pressure pump proportionining systems, line proportioners, or foam trucks. These foam chambers can be used with ORİFİS low-expansion foam agents that are determined to be suitable for the flammable liquid being protected.

Description

The ORİFİS foam chambers consist of a foam expansion chabers and an integral foam maker with a stainless steel screened air inlet. Each chamber includes an orifice plate, two inlet gaskets, vapor seal assembly, cover gasket, and an outlet gasket. The required deflector (split or shallow) an optional mounting pad assembly are sold separately.

A removable orifice plate located at the flanged inlet to the foam maker is sized to deliver the required flow rate of foam solution at a specified inlet pressure. A frangible TEFLON vapor seal is burts upon entry of foam solution allowing an unrestricted flow of expanded foam into the chambers bodey. Foam the chamber body, the foam flows through the foam deflector which disperses the foam into the storage tank.

The chamber vapor seal is accessible for inspection and service through a hinged inspection hatch thet is secured with captive bolts. The hatch also contains a lifting handle that is designed to support the weight of the foam chamber.

Flow Range

The flow rate af the foam chamber is determined by the orifice size and the inlet pressure. The flow ranges listed in the follwing table are based on 40psi (2.76 bar) using the smallest orifice for the minimum flow an 100psi (6.9 bar) using the largest orifice for the maximum flow.

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Typical Flow Range	F
49 gpm to 151 gpm (185 Lpm to 572 Lpm)	7
94 gpm to 279 gpm (356 Lpm to 1,056 Lpm)	1
183 gpm to 610 gpm (693 Lpm to 2,309 Lpm)	2
350 gpm to 980 gpm (1,325 Lpm to 3,709 Lpm)	5
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FOAM CHAMBER

K-Factor Range 7.8 to 15.1

14.9 to 27.9

28.9 to 61.0

55.3 to 98.0

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