

Fenwal Phoenix

Nitrogen Orifice Fitting

P/N: 93-194129-XXX

F-93-106

FENWAL®

FEATURES

- Custom Engineered
- Factory Drilled
- Multiple Orifice Sizes Available to Fit Specific Applications
- UL Listed
- FM Approved

DESCRIPTION

The nitrogen orifice fitting is a custom-engineered and factory drilled orifice that regulates the flow of the nitrogen into the agent cylinder. The orifice fitting ensures that the proper design pressure is regulated so that the appropriate amount of FM-200 is discharged into each hazard. The size of the regulating orifice is chosen by the Fenwal Phoenix series computer calculation software. The software determines the size based on the input parameters of the specific system, along with the engineered discharge nozzles (see Table 1).

INSTALLATION

Prior to installation, visually inspect fitting to ensure that the orifice hole is not clogged or obstructed in any way. In addition, it is recommended to check the part number located on the fitting and ensure that it corresponds to the part number that is referenced in the calculations.

MAINTENANCE

MONTHLY:

Inspect the fitting for cracks, corrosion, grime, etc. Ensure that the orifice fitting is tightly secured to the diffuser and connected to the agent cylinder. If any defects are found during the monthly inspection, immediately contact a Fenwal Distributor to service the system.

SPECIFICATIONS

MATERIALS:

Body: Brass
Approx. Weight: 1 lb. (0.45 kg)



ORDERING INFORMATION

93-194129-XXX

The drill code is provided by Phoenix Flow Calculation Software. See Table 1.

Table 1. Nitrogen Orifice Fitting Part Numbers

Part Number	Diameter	Area
93-194129-107	0.107	0.0089
93-194129-111	0.111	0.0097
93-194129-116	0.116	0.0106
93-194129-120	0.120	0.0113
93-194129-129	0.129	0.0130
93-194129-136	0.136	0.0145
93-194129-144	0.144	0.0163
93-194129-156	0.156	0.0192
93-194129-170	0.170	0.0226
93-194129-182	0.182	0.0260
93-194129-199	0.199	0.0311
93-194129-213	0.213	0.0356
93-194129-234	0.234	0.0432
93-194129-261	0.261	0.0535
93-194129-281	0.281	0.0621
93-194129-316	0.316	0.0784
93-194129-348	0.348	0.0951
93-194129-391	0.391	0.1198
93-194129-438	0.438	0.1503
93-194129-484	0.484	0.1843

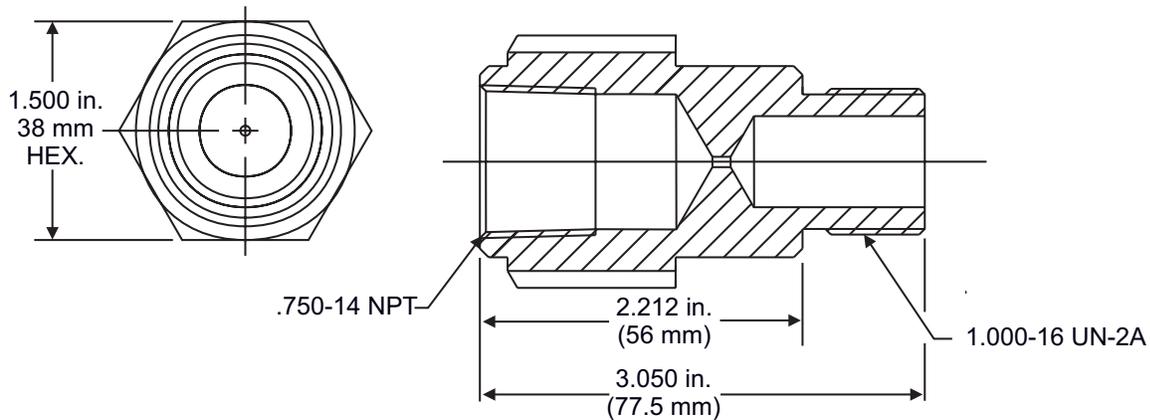


Figure 1. Nitrogen Orifice Fitting



FENWAL
Protection Systems

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These instructions do not purport to cover all the details or variations in the equipment described, nor do they provide for every possible contingency to be met in connection with installation, operation and maintenance. All specifications subject to change without notice. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to KIDDE-FENWAL, INC., Ashland, MA 01721.