



SIGHT FLOW CONNECTION, 1" AND 2" NPT SIZES

MODEL F1321

DESCRIPTION

Sight Flow Connections are designed for use in fire protection systems as a means for visibly checking that water is flowing and filling the pipe at that point.

They are usually installed in main drain lines and inspector's test pipes, when it is not possible to terminate the discharge outlet where the water flow can be readily observed. They are also used in diesel engine fire pump installations to indicate the flow of cooling water to the engine.

The Model F1321 Sight Flow Connection is rated for 175 psi pressure service and is available in 1 and 2 inch NPT sizes.

APPROVALS AND STANDARDS

Model F1321 Sight Flow Connections are listed by Underwriters Laboratories Inc. They are approved by Factory Mutual Research Corporation and by the New York City Board of Standards and Appeals under Calendar Number 236-79-SA.

WARNING

The Model F1321 Sight Flow Connection must be installed and maintained in compliance with this document as well as with the applicable standards of the National Fire Protection Association in addition to the standards of any other authorities having jurisdiction. Failure to do so may impair the integrity of this device.

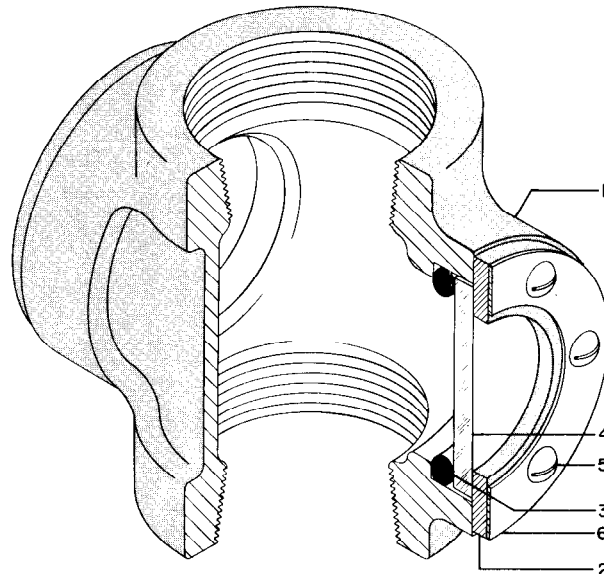
The owner is responsible for maintaining his fire protection system and devices in proper operating condition. The installing contractor or manufacturer should be contacted relative to any questions.

Sight Flow Connections provide a cursory means for verifying full appearing water flow in an inspector's test pipe. They do not indicate that the sprinkler system or drain line is free of obstructions.

DESIGN (Figure A)

The Body (1) of a Model F1321 Connection is made from a 125 lb. cast iron cross per ANSI B16.4. The viewing Windows (4) are a clear acrylic, the Covers (2) are mild steel and the O-Rings (3) are Buna-N.

- 1— Body
- 2— Cover (2 req'd)
- 3— O-Ring (2 req'd)
- 4— Window (2 req'd)
- 5— Round Head Machine Screw, brass or plated steel, No. 8-32 x 3/8" for 1" size (8 req'd) No. 8-32 x 1/2" for 2" size (12 req'd)
- 6— Identification Plate



DIM.	DIMENSIONS IN INCHES AND (MM)	
	PIPE SIZE	
	1" NPT (25)	2" NPT (50)
A	3.25 (82.6)	5.00 (127.0)
B	2.00 (50.8)	3.31 (84.1)
C	3.00 (76.2)	4.50 (114.3)
TAKE-OUT	1.88 (47.8)	3.12 (79.2)

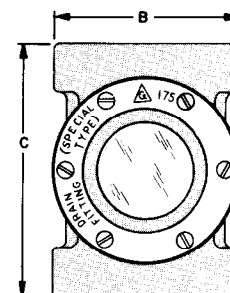
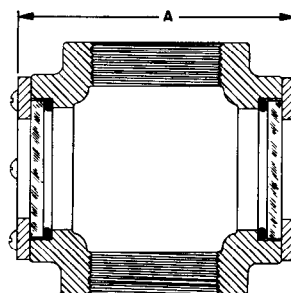


FIGURE A
MODEL F1321 SIGHT FLOW CONNECTION

INSTALLATION

Sight Flow Connections may be installed in vertical or horizontal piping for flow in either direction. When finally positioned, one of the Windows must not be obstructed from straight-on viewing.

CARE AND MAINTENANCE

The Model F1321 Sight Flow Connection does not require any regular scheduled maintenance.

If there is leakage around a Window, proceed as follows:

1. Tighten the Machine Screws. If leakage persists, shut off flow to the F1321 by closing the inspector's test valve and:

2. Remove the Machine Screws, Cover, Window and O-Ring on the leaking side.
3. Clean all scale, rust and debris from the inside sealing surfaces of the connection.
4. Clean the Window with a soft lint-free cloth.
5. Place a new O-Ring in the machined recess, and then reinstall the Window, Cover and Machine Screws. Tighten the screws securely.

NOTE: Used O-Rings should not be installed with replacement Windows.



SIGHT FLOW CONNECTION, MODEL F1321

WARRANTY

Seller warrants for a period of one year from the date of shipment (warranty period) that the products furnished hereunder will be free from defects in material and workmanship.

For further details on Warranty, see Price List.

ORDERING PROCEDURE

Order as Required:

1" (25 mm) Model F1321 Sight Flow Connection,
PSN 52-069-1-006

2" (50 mm) Model F1321 Sight Flow Connection,
PSN 52-069-1-009

To Order Replacement Parts Specify:
(description) for use with (size) Model F1321 Sight Flow Connection, PSN (specify).

1" (25 mm) Model F1321
Cover PSN 92-069-1-011
O-Ring PSN 62-578-1-216
Window PSN 92-069-1-013

2" (50 mm) Model F1321
Cover PSN 92-069-1-002
O-Ring PSN 62-578-1-330
Window PSN 92-069-1-004

Machine Screws (Item 5 in Figure A) are not available for replacement. They are a common hardware item and should be obtained locally.

CONVERSION FACTORS

Following is a list of factors for converting English units of measurement referenced herein to equivalent SI (International System) units. Items marked with an asterisk are not recognized SI units; however, are included since they are commonly used in many countries.

1 inch	=	25.400 mm
1 psi	=	6.895 kPa
	=	0.0689 bar*
	=	0.0703 kg/cm ² *