Engineering Specification

Job Name _____

Job Location _____

Engineer _____

Approval _____

Contractor _____

Approval _____

Contractor's P.O. No. _____

Representative _____

Flood Sensor

For Relief Valve Discharge Line

The relief valve flood sensor is intended for use with temperature and pressure as well as pressure only relief valves mounted to boilers or hot water heaters. The sensor can be installed directly into the relief valve outlet or in the discharge line consisting of copper tubing from the relief valve to the sensor. At any installation point, the sensor must be installed at a 45 degree angle.

The sensor detects flowing discharge from the relief valve and energizes a relay signaling flood detection.

NOTICE

An add-on connection kit is required to activate the flood sensor. When installed without the connection kit, the flood sensor is a passive component that does not communicate with any other device. (For more information download IS-FS-ReliefValve-BMS at watts.com.)

Features

- Easy-to-install flood sensor for detection of flowing discharge from a boiler or hot water heater
- Temperature range from -40°F to 250°F
- NPT end connections
- Available in six sizes to accommodate relief valve outlet diameters ¾ to 2½ inches
- Flood alerts feature activated with add-on connection kit, available for BMS

NOTICE

Use of the flood sensor does not replace the need to comply with all required instructions, codes, and regulations related to installation, operation, and maintenance of this product, including the need to provide proper drainage in the event of a discharge.

Watts is not responsible for the failure of alerts due to connectivity issues, power outages, or improper installation.

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Inquire with governing authorities for local installation requirements.

Specification

The sensor shall consist of a polypropylene copolymer resin adapter body, UNS C10200 or UNS C12200 copper band, and rubber-compounded O-ring. The sensor shall be installed directly into the relief valve outlet at a 45 degree angle or in the discharge line at a 45 degree angle to detect flowing discharge. When installed in the discharge line, the line shall consist of copper tubing minimally from the valve outlet to the sensor. Sensor sizes shall accommodate relief valve outlet sizes from ¾ to 2½ inches.

Materials

Adapter	Polypropylene copolymer resin
Crimp ring	UNS C10200 or UNS C12200 copper
O-ring	Rubber compound (Nitrile, 70 CRF, NP 70F, N67088F)

Temperature Range

-40°F to 250°F

Fittings

Male NPT end connection

Dimensions – Weights

Call customer service if you need assistance with technical details.

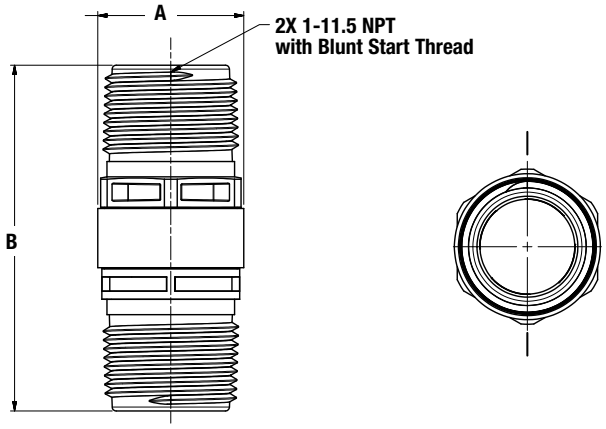
SIZE	DIAMETER		LENGTH		WEIGHT	
NPT	A		B			
in.	*in.*	*mm*	*in.*	*mm*	*lb*	*g*
¾	1 3/16	29.8	3 1/8	79.8	0.07	30
1	1 7/16	36.3	3 3/8	86.1	0.12	54
1¼	1 7/8	47.6	3 7/16	87.4	0.19	81
1½	2 3/16	54.9	3 9/16	91.2	0.26	114
2	2½	63.5	3 11/16	94.0	0.29	129
2½	3 1/8	79.4	4 11/16	119.1	0.50	216

Limitations

- Requires steady flow for detection of discharge.
- Does not detect steam releases or dripping discharges.
- Requires connection of device to fittings by hand.

NOTICE

Flow is not restricted by sensor installation.



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