

Dry All

Full Range of HVAC&R Line Products



Fusible Plugs

Introduction

A fusible plug is a safety device used in vessels, boilers, compressors and other pressurized systems to prevent pressure from building up to dangerous levels. It is normally a threaded type structure made up of bronze or brass with a tapered hole completely drilled through its length. It behaves as a safety valve when high pressures are reached in a closed vessel.

Key Features

- Pressure Relief Mechanism
- Temperature sensitivity
- Low melting point alloy
- Simple design
- Fail-safe operation

Advantages

Simple and reliable safety mechanism

Fusible plugs have straightforward design with no moving parts, making them highly reliable. Their operation is based on the melting of a fusible alloy, which is a simple and effective mechanism.

Requires no external power source or complex controls

Fusible plugs are simple to mount as it does not require any external power source, sensors and control boards to operate. It is 100% mechanically operated device.

Immediate pressure relief

When the fusible alloy melts, the plug immediately releases pressure, preventing dangerous pressure build up and preventing explosions in vessels.

Temperature Activated

Fusible plugs are operated by temperature as well as pressure, making them particularly effective in systems where overheating is a concern.

Minimal Maintenance

Regular maintenance and replacement of fusible plugs is must, contributing to low maintenance requirement. The plug in good condition helps maintain the system safety.

Fail-Safe Design

Fusible plugs are designed to fail in a safe manner, avoids the sudden failure and causing harm or destruction.

Applications

- Refrigeration systems
- Gas cylinders
- Hydraulic systems
- Air compressors

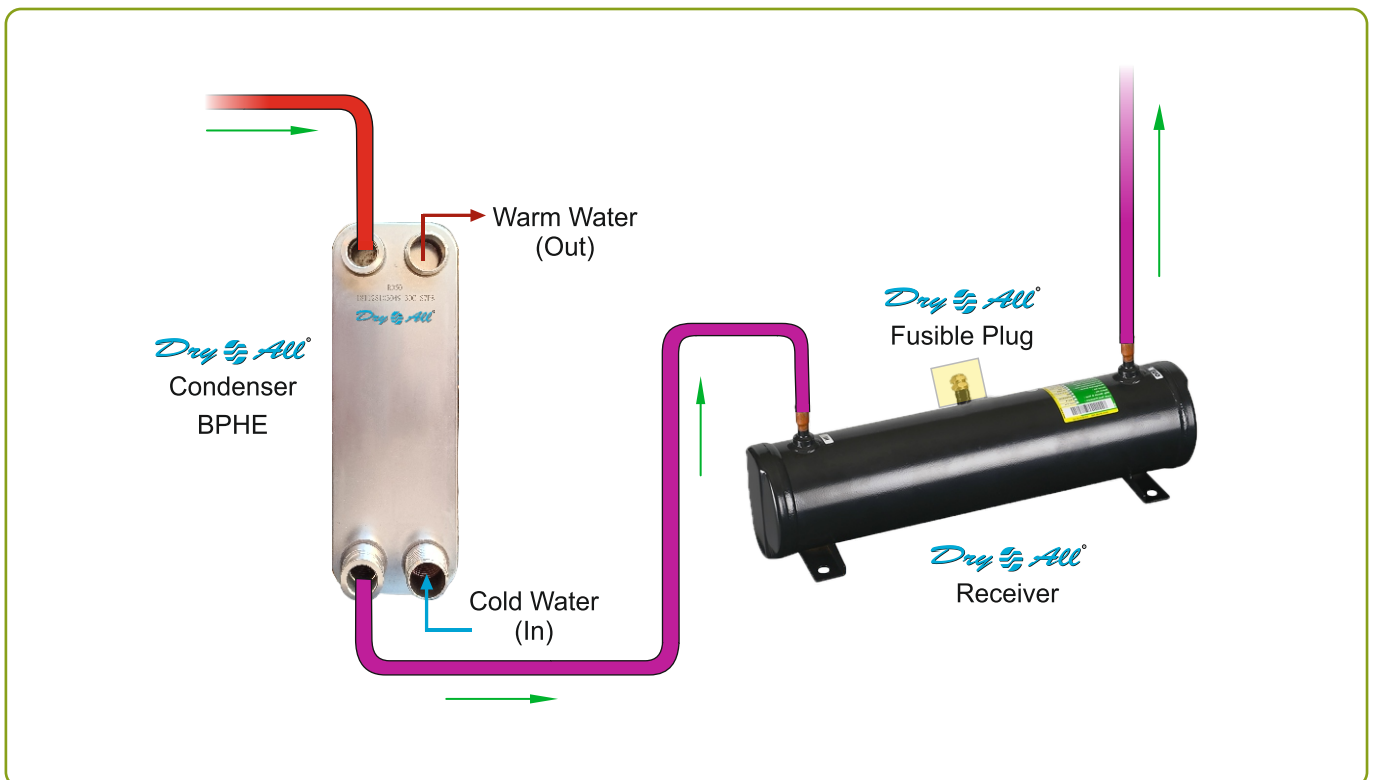
Working Principle

The fusible plug is a safety device which can be used for various applications to avoid over pressure tragedy's. The fusible plug is based on its ability to melt a predetermined pressure, hence providing a safety release for pressure.

Under normal operating conditions the fusible plug remains complete, the fusible alloy core is solid, hence the plug effectively seals the system, maintaining the desired pressure and temperature inside the system.

When the temperature inside the system increases, the fusible alloy inside the plug melts at predetermined temperature which is considered unsafe to the system. Once the fusible alloy melts it creates opening in the plug, and this opening allows the pressurized fluid to escape from the system. The release of pressure reduces the pressure within the system. This prevents the failure due to over pressure or over heating.

Product installed in Refrigeration System



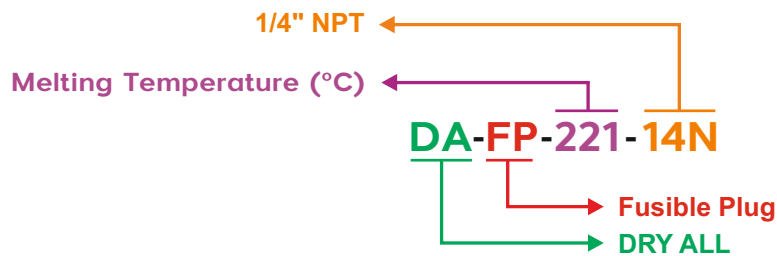
Fusible Plugs

Dimensional Drawings



Sr. No	Model No.	Melting Temperature (°C)	Connection Type & Size (A)	Dimensions (mm)		
				B	ØC	D
1	DA-FP-221-14N	221	1/4" NPT	25	Ø5	12
2	DA-FP-221-38N	221	3/8" NPT	33	Ø5	16.4
3	DA-FP-221-12N	221	1/2" NPT	36	Ø5	20
4	DA-FP-110-14N	110	1/4" NPT	25	Ø5	12
5	DA-FP-110-38N	110	3/8" NPT	33	Ø5	16.4
6	DA-FP-110-12N	110	1/2" NPT	36	Ø5	20

Nomenclature



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Dry All

Full Range of HVAC&R Line Products

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