Introduction

This installation guide provides instructions for installation, startup, and adjustment. To receive a copy of the instruction manual, contact your local Fisher Sales Office or Sales Representative or view a copy at www.FISHERregulators.com. For further information refer to:

H Series Instruction Manual, form MCK-1089, D450014T012.

P.E.D. Categories

This product may be used as a safety accessory with pressure equipment in the following Pressure Equipment Directive 97/23/EC categories. It may also be used outside of the Pressure Equipment Directive using sound engineering practice (SEP) per table below.

PRODUCT SIZE	CATEGORIES	FLUID TYPE
DN 6 (1/4-inch) NPT	SEP	1

Specifications

Inlet Connection Size

DN 6 (1/4-inch) NPT

Maximum Allowable Relief (Inlet) Pressure(1)

29 bar (420 psig)

Fixed Relief Pressures(1)

FIXED RELIEF PRESSURE (2)		RELIEF PRESSURE PLUS BUILDUP	
bar	psig	bar	psig
2,4	35	4,1	60
4,1	60	5,9	85
8,3	120	10	145
10	150	12	180
12	175	14	210
14	200	17	240
16	225	19	270
19	275	23	330
24	350	29	420

Proof Test Pressure

All Pressure Retaining Components have been proof tested per Directive 97/23/EC - Annex 1, Section 7.4

Temperature Capabilities(1)

-29 to 71°C (-20 to 160°F)

1. The pressure/temperature limits in this installation guide and any applicable standard or code limitation should not be exceeded.

2. This is the initial leak point, the point at which the relief valve begins to discharge.

Installation

WARNING

Only qualified personnel should install or service a relief valve. Relief valves should be installed, operated, and maintained in accordance with international and applicable codes and regulations, and Fisher instructions.

If using a relief valve and/or backpressure regulator on a hazardous or flamable fluid service, personal injury and property damage could occur due to fire or explosion of vented fluid that may have accumulated. To prevent such injury or damage, provide piping or tubing to vent the fluid to a safe, well-ventilated area or containment vessel. Also, when venting a hazardous fluid, the piping or tubing should be located far enough away from any buildings or windows so to not create a further hazard, and the vent opening should be protected against anything that could clog it.

Personal injury, equipment damage, or leakage due to escaping fluid or bursting of pressure-containing parts may result if this relief valve and/or backpressure regulator is overpressured or is installed where service conditions could exceed the limits given in the Specifications section, or where conditions exceed any ratings of the adjacent piping or piping connections.

To avoid such injury or damage, provide pressure-relieving or pressure-limiting devices (as required by the appropriate code, regulation, or standard) to prevent service conditions from exceeding limits.

Additionally, physical damage to the relief valve and/or backpressure regulator could result in personal injury and property damage due to escaping fluid. To avoid such injury and damage, install the relief valve and/or backpressure regulator in a safe location.

A person should NEVER stand directly over or in front of, or look directly into a relief valve when the tank is pressurized. The relief valve could suddenly "pop" open blowing gas, dirt, and other debris into the person's face and eyes.

Any valve that has fully opened "popped" should be tested to see if it is within the allowable start-to-discharge pressure setting. If it is not within the correct range, it must be replaced. Relief valve start-to-discharge and reseat pressures may be lower if the valve has fully opened "popped."

Clean out all pipelines before installation of the relief valve and/or backpressure regulator and check to be sure the relief valve and/or backpressure regulator has not been damaged or has collected foreign material during shipping. For NPT bodies, apply pipe compound to the male pipe threads. For flanged bodies, use suitable line gaskets and approved piping and bolting practices. Install the relief valve and/or backpressure regulator in any position desired, unless otherwise specified, but be sure flow through the body is in the direction indicated by the arrow on the body.

Note

It is important that the relief valve and/or backpressure regulator be installed so that the vent hole in the spring case is unobstructed at all times. For outdoor installations, the relief valve and/or backpressure regulator should be located away from vehicular traffic and positioned so that water, ice, and other foreign materials cannot enter the spring case through the vent. Avoid placing the relief valve and/or backpressure regulator beneath eaves or downspouts, and be sure it is above the probable snow level.

Overpressure

Maximum inlet pressures depend upon body materials and temperatures. Refer to the nameplate for the maximum inlet pressure of the valve. The valve should be inspected for damage after any overpressure condition. **Fisher relief valves and/or backpressure regulators are NOT ASME safety relief valves.**

Startup

The relief valve and/or backpressure regulator is factory set at approximately the midpoint of the spring range or the pressure requested, so an initial adjustment may be required to give the desired results. With proper installation completed and relief valves properly adjusted, slowly open the upstream and downstream shutoff valves (if applicable).

Adjustment

To change the outlet pressure, remove closing cap or loosen the locknut and turn the adjusting screw clockwise to increase outlet pressure or counterclockwise to decrease pressure. Monitor the outlet pressure with a test gauge during the adjustment. Replace closing cap or tighten the locknut to maintain the desired setting.

Taking Out of Service (Shutdown)

WARNING

To avoid personal injury resulting from sudden release of pressure, isolate the relief/ backpressure regulator from all pressure before attempting disassembly.

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