

Introduction

This installation guide provides instructions for installation, startup, and adjustment. For further information refer to: www.FISHERregulators.com.

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)	SEP	1

Specifications

Maximum Inlet Pressure⁽¹⁾

104 bar (1500 psig)

Proof Test Pressure

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

Installation



WARNING

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

If the regulator vents fluid or a leak develops in the system, it indicates that service is required. Failure to take the regulator out of service immediately may create a hazardous condition.

Personal injury, equipment damage, or leakage due to escaping fluid or bursting of pressure-containing parts may result if this 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 regulator could result in personal injury and property damage due to escaping fluid. To avoid such injury and damage, install the regulator in a safe location.

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

Clean out all pipelines before installation of the regulator and check to be sure the regulator has not been damaged or has collected foreign material during shipping. For NPT bodies, apply pipe compound to the male pipe threads.

Startup and Adjustment

The Type 112 restrictor controls the regulator's proportional band (droop) and speed of response. The restrictor can be used to fine tune the regulator for maximum performance by decreasing the restrictor setting for tighter control (increased opening speed, decreased closing speed); or increasing the restrictor setting for maximum stability (decreased opening speed, increased closing speed). A lower setting also provides a narrower proportional band for better accuracy. The START position has the largest flow, is most stable, and easiest for startup, however, using the START position is not necessary. The "0" setting has the smallest (minimum) flow passage; at no point of rotation will the Type 112 restrictor be completely shut off. After initial adjustment, the restrictor does not need to be adjusted for maintenance or startup.

Taking Out of Service (Shutdown)



WARNING

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

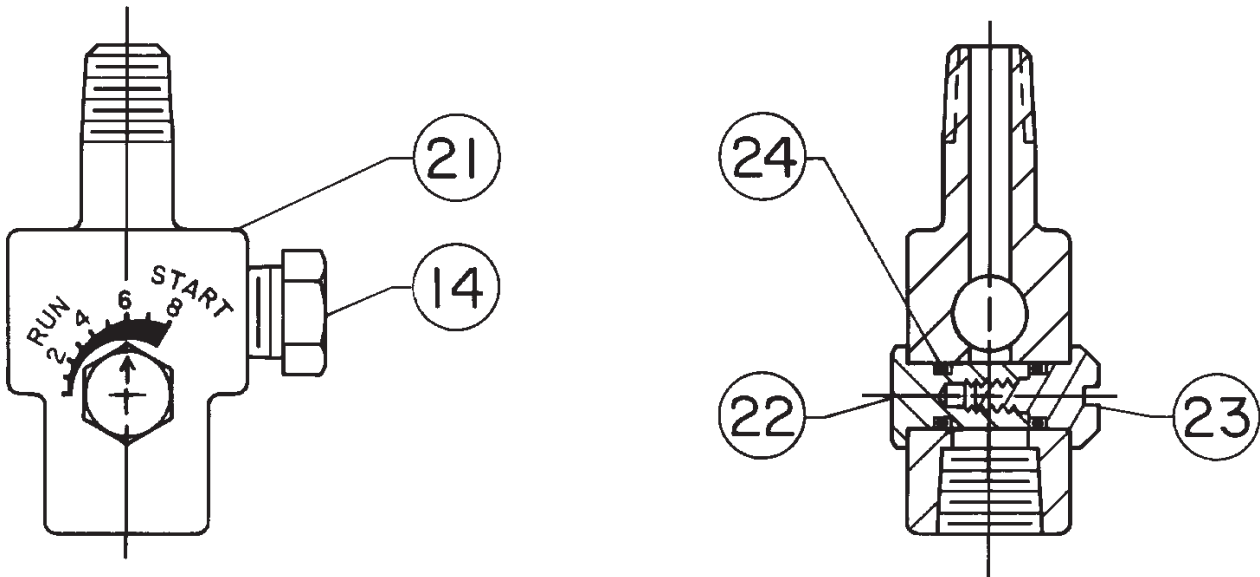


Type 112

Parts List

Key Description

- 14 Pipe Plug
- 21 Restrictor Body
- 22 Groove Valve
- 23 Valve Retainer
- 24 O-ring



20B4393

Figure 1. Type 112 Assembly

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