

## 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.fisher.com](http://www.fisher.com). For further information, refer to Type Y692 Instruction Manual, D102031X012.

## PED/PE(S)R Categories

This product may be used as a safety accessory with pressure equipment in the following categories. It may also be used outside of these Directives using Sound Engineering Practice (SEP) per table below. For information on the current PED/PE(S)R revision, see Bulletin: [D103053X012](#).

PRODUCT SIZE	CATEGORY	FLUID TYPE
DN 40 and 50 / 1-1/2 and 2 in.	I	1

## Specifications

### Maximum Inlet and Outlet Pressures<sup>(1)</sup>

10.4 bar / 150 psig and 1.0 bar / 15 psig

### Proof Test Pressure

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

### Outlet Pressure Ranges<sup>(1)</sup>

**Light Spring Assembly:** 2 to 7 bar / 1 to 3 in. w.c., 7 to 26 mbar / 3 to 11 in. w.c., 16 to 86 mbar / 6.5 in. w.c. to 1.2 psig, 0.05 to 0.1 bar / 0.7 to 2 psig and 0.07 to 0.2 bar / 1 to 3.2 psig

**Heavy Spring Assembly:** 0.1 to 0.4 bar / 2 to 5.5 psig and 0.3 to 0.5 bar / 4 to 7 psig

### Maximum Operating Outlet Pressure to Avoid Internal Part Damage<sup>(1)</sup>

0.21 bar / 3 psig above outlet pressure setting

### Temperature Capabilities<sup>(1)</sup>

**Nitrile (NBR):** -29 to 82°C / -20 to 180°F

**Fluoroelastomer (FKM):** 5 to 149°C / 40 to 300°F

## 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.**

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. For flanged bodies, use suitable line gaskets and approved piping and bolting practices. Install the 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.

For proper operation, the regulator must be installed with the spring case barrel pointed down.

### Note

**It is important that the regulator be installed so that the vent hole in the spring case is unobstructed at all times. For outdoor installations, the 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 regulator beneath eaves or downspouts, and be sure it is above the probable snow level.**

## Overpressure Protection

The recommended pressure limitations are stamped on the regulator nameplate. Some type of overpressure protection is needed if the actual inlet pressure exceeds the maximum operating outlet pressure rating. Overpressure protection should also be provided if the regulator inlet pressure is greater than the safe working pressure of the downstream equipment.

Regulator operation below the maximum pressure limitations does not preclude the possibility of damage from external sources or debris in the line. The regulator should be inspected for damage after any overpressure condition.

## Startup

The 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.

## Adjustment

To change the outlet pressure, remove the 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 the closing cap or tighten the locknut to maintain the desired setting.

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

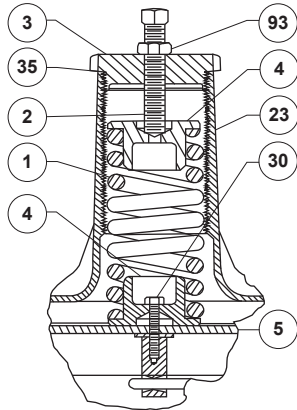
# Type Y692

## Taking Out of Service (Shutdown)



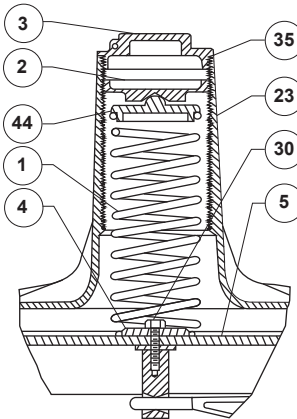
### WARNING

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



34B4832-B

Figure 1. Type Y692 with a Heavy Control Spring Assembly



34B4869-A

Figure 2. Type Y692 with a Light Control Spring Assembly

## Parts List

Key	Description	Key	Description
1	Control Spring	23	Spring Case
2	Adjusting Screw	25	Disk Assembly
3	Closing Cap	27	Orifice
4	Control Spring Seat	28	Body
5	Diaphragm and Plate Assy	29	Pipe Plug
6	Lower Diaphragm Plate	30	Diaphragm Cap Screw
7	Diaphragm Plate Gasket	35	Closing Cap Gasket
8	Pusher Post	44	Upper Spring Seat
9	Lever Assembly	46	Valve Disk Washer
11	Machine Screw	47	Machine Screw
13	Stem	50	Nameplate
14	Cotter Pin	51	Drive Screws (4 required)
16	Body Gasket	56	Vent Assembly
17	Split Ring	71	Bushing
19	Union Nut	74	Pitot Tube
20	Lower Casing	93	Hex Nut
21	Diaphragm Case Cap Screw		

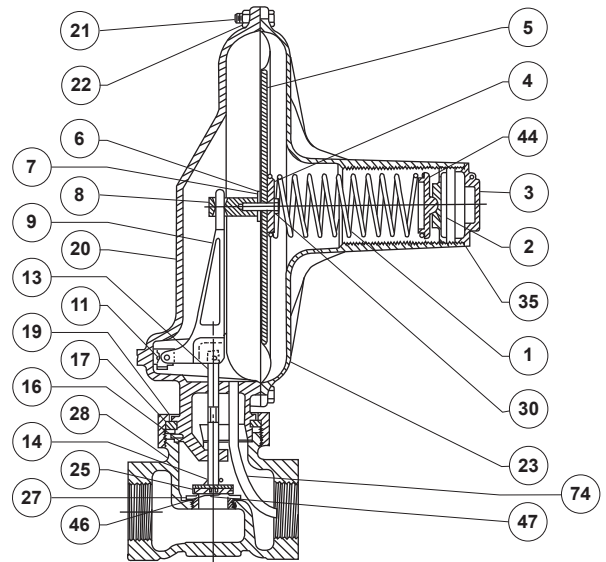


Figure 3. Type Y692 Regulator

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For further information on the current PED/PE(S)R revision see Bulletin: [D103053X012](#) or scan the QR code.

