

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:

Type 6365 and 6358 Series Instruction Manual, form 5499, D102692X012.

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
Type 6365 DN 6 (1/4 inch)	SEP	1
Type 6358 DN 6 (1/4 inch)	SEP	

Specifications

Pilot Descriptions

Type 6365: Set pressure range from 35 mbar to 0,14 bar (14-inches w.c. to 2 psig). This pilot has a high gain restriction standard.

Type 6358: Set pressure range from 0, 21 to 8,6 bar (3 to 125 psig) in two ranges. This pilot has a restriction plug.

Type 6358B: Set pressure range from 0,21 to 8,6 bar (3 to 125 psig) in five ranges. This pilot is available with a high, medium, or low gain restriction.

Type 6358EB: Set pressure range of 5,2 to 24,1 bar (75 to 350 psig) in three ranges. This pilot is available with a high or low gain restriction.

Type 6358EBH: Set pressure range of 17,2 to 41,4 bar (250 to 600 psig) in two ranges. This pilot is available with a high or low gain restriction.

Maximum Relief (Inlet) Pressure (Including Buildup)⁽¹⁾

Depends upon maximum inlet pressure for complete relief valve as specified in appropriate main valve Instruction Manual.

Pilot Set Pressure Ranges⁽¹⁾

Type 6365: 35 mbar to 0,14 bar (14-inches w.c. to 2 psig)

Type 6358: 0,21 to 2,8 bar (3 to 40 psig), 0,21 to 8,6 bar (3 to 125 psig)

Type 6358B: 0,34 to 1,24 bar (5 to 18 psig), 0,69 to 2,1 bar (10 to 30 psig), 0,21 to 2,8 bar (3 to 40 psig), 2,8 to 4,1 bar (30 to 60 psig), 0,21 to 8,6 (3 to 125 psig)

Type 6358EB: 5,2 to 9,7 bar (75 to 140 psig), 9,0 to 13,8 bar (130 to 200 psig), 12,4 to 24,2 (180 to 350 psig)

Type 6358EBH: 17,3 to 31,1 bar (250 to 450 psig), 27,6 to 41,4 bar (400 to 600 psig)

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

Proof Test Pressure

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

Temperature Capability⁽¹⁾

-29 to 66°C (-20 to 150°F)

Pressure Connection

DN 6 (1/4 inch) NPT female

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.

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.



Type 6365 and 6358 Series

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.

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.

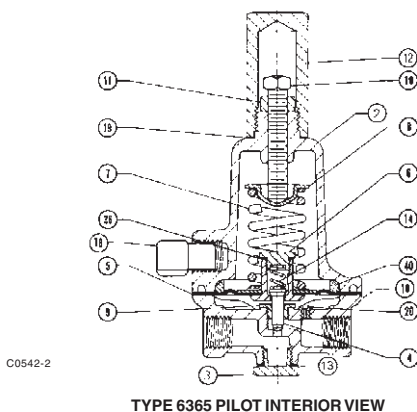


Figure 1. Type 6365 Pilot Assembly

©Fisher Controls International, Inc., 2002; All Rights Reserved

Fisher and Fisher Regulators are marks owned by Fisher Controls International, Inc. The Emerson logo is a trade mark and service mark of Emerson Electric Co. All other marks are the property of their respective owners.

The contents of this publication are presented for informational purposes only, and while every effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. We reserve the right to modify or improve the designs or specifications of such products at any time without notice.

For information, contact Fisher Controls, International:

Within USA (800) 588-5853 – Outside USA (972) 542-0132

Italy – (39) 051-4190-606

Singapore – (65) 770-8320

Mexico – (52) 57-28-0888

Printed in U.S.A.

Parts List

6358 Series Pilots

Key	Description
1	Body
2	Spring Case
3	Body Plug
4	Valve Plug and Stem Ass'y
5	Diaphragm Ass'y
6	Connector Cap
7	Control Spring
8	Spring Seat
9	Stem Guide
10	Adjusting Screw
11	Locknut
12	Closing Cap
13	Body Plug O-ring
14	Valve Spring
16	Type Y602-12 Vent Ass'y
19	Closing Cap Gasket
20	Restriction Plug
20	Restriction
29	Gauge
29	Pipe Plug
36	Connector Cap Gasket
37	Stem O-ring
38	Lower Spring Seat
40	Diaphragm Limiter

Type 6365 Pilot

Key	Description
1	Body Assembly
2	Spring Case
3	Body Plug
4	Plug/Stem Assembly
5	Diaphragm Assembly
6	Connector Cap
7	Control Spring
9	Plug/Stem Guide
10	Adjusting Screw
11	Locknut
12	Closing Cap
13	Body Plug Gasket
14	Plug/Stem Spring
16	Type Y602-12 Vent Ass'y
19	Closing Cap Gasket
20	Restriction
36	Connector Cap Gasket

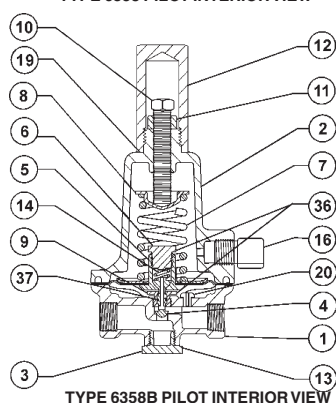
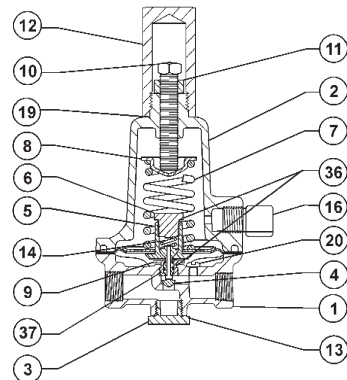


Figure 2. Type 6358 and 6358B Pilots