Type ACE95jr

English - September 2022

Introduction

This installation guide provides instructions for installation,startup and adjustment. To receive a copy of the instruction manual, contact your local Sales Office or view a copy at www.fisher.com. For further information refer to: Type ACE95jr Tank Blanketing Valve Instruction Manual, D102774X012.

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	CATEGORIES	FLUID TYPE
DN 15 to 25 / NPS 1/4 to 1	SEP	1

Specifications

Size and End Connection Style
1/2 NPT
1 x 1/2 NPT
1 NPT
NPS 1/2 / DN 15, CL150 RF
NPS 1 / DN 25, CL150 RF
NPS 1 x 1/2 / DN 25 x 15, CL150 RF
NPS 1 / DN 25, Sanitary Flange

Maximum Operating Inlet Pressure(1)
13.8 bar / 200 psig

Maximum Emergency Outlet (casing) Pressure(1)
1.4 bar / 20 psig

Maximum Operating Control Pressures(1)
0.10 bar / 1.5 psig

Control Pressure Ranges(1)
-12 mbar to 0.10 bar /
-5 in. w.c. to 1.5 psig in six ranges

Proof Test Pressure(1)
All Pressure Retaining Components have been proof tested per Directive

Temperature Capabilities(1)
Nitrile (NBR): -29 to 82°C / -20 to 180°F
Fluorocarbon (FKM): -18 to 100°C / 0 to 212°F
Ethylenepropylene (EPDM-FDA)(2):
-29 to 100°C / -20 to 212°F
Perfluoroelastomer (FFKM):
-29 to 100°C / -20 to 212°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 Emerson Process Management Regulator Technologies, Inc. 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 couldresult 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 external 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.

1. The pressure/temperature limits in this installation guide and any applicable standard or code limitation should not be exceeded.
2. FDA/USP Class VI approved/ADI-free elastomers (wetted parts only).

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 control 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 control pressure, remove the closing cap or loosen the locknut and turn the adjusting screw clockwise to increase control pressure or counterclockwise to decrease pressure. Monitor the control 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)

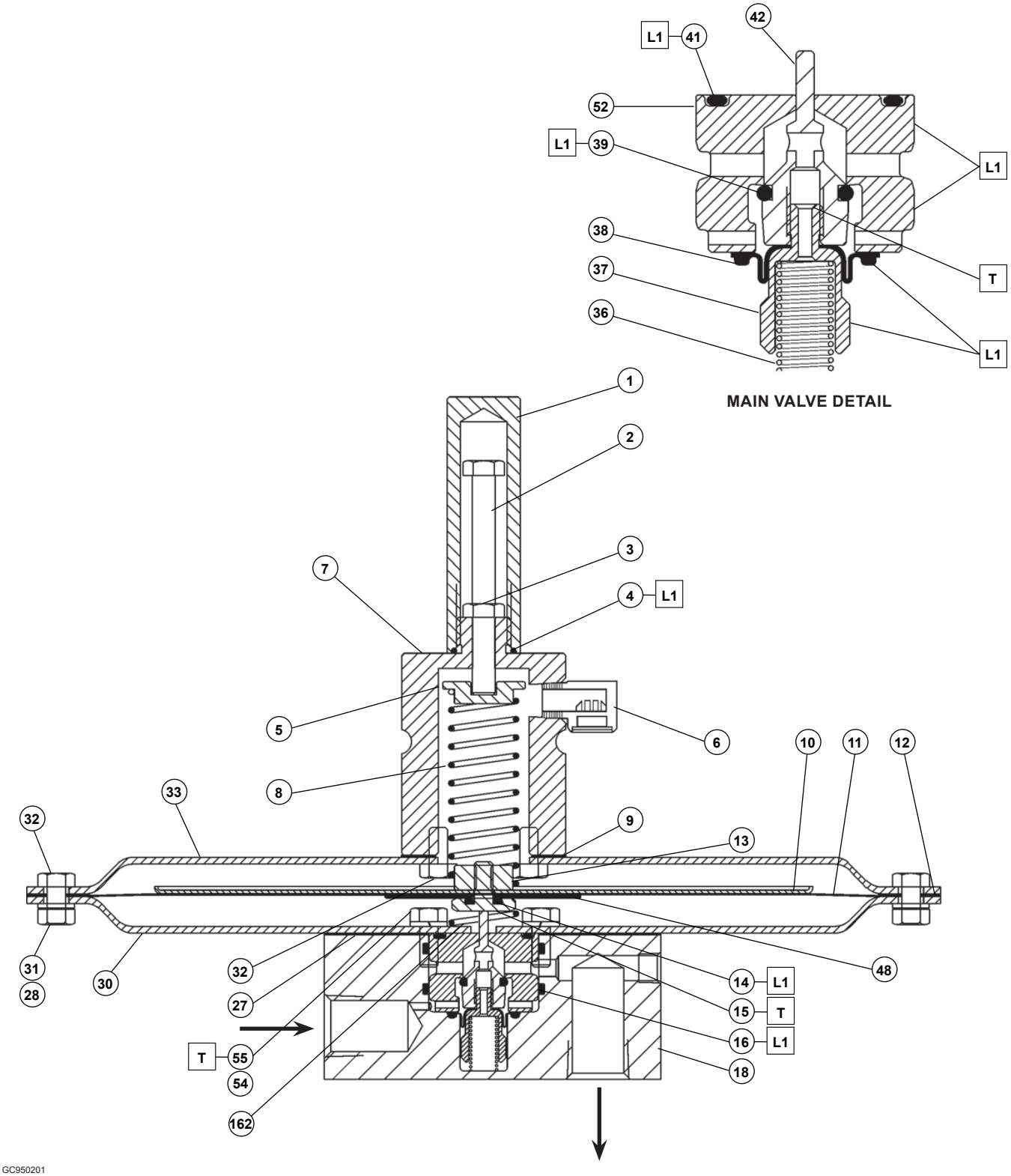
WARNING

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

Parts List

Key	Description
1	Cap
2	Adjusting Screw
3	Lock Nut
4*	O-ring
5	Spring Seat
6	Vent (Type Y602-A12)
7	Spring Case
8	Range Spring
9*	Gasket
10	Diaphragm Plate (upper)
11*	Diaphragm (main)
12*	Gasket (actuator)
13	Diaphragm Retaining Nut
14*	O-ring
15	Diaphragm Bolt
16*	O-ring
18	Body
27*	Gasket (bonnet/actuator)
28	Lock Washer
29	Hex-Head Machine Screw
30	Actuator Case (lower)
31	Hex Nut
33	Actuator Case (upper)
36	Spring (cage)
37	Piston
38*	Rolling Diaphragm
39*	O-ring
41*	O-ring
42	Pilot (poppet)
48	Diaphragm Plate (lower)
52	Cage
162	Lower Range Spring (negative pressure only, used with upper spring, key 8)

*Recommended spare part



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☐ **APPLY LUBRICANT OR SEALANT(1):**
T = THREAD LOCKER
L1 = GENERAL PURPOSE POLYTETRAFLUOROETHYLENE (PTFE) OR LITHIUM GREASE

1. Lubricants must be selected such that they meet the temperature requirements.

Figure 1. *Type ACE95jr Tank Blanketing Valve Assembly*

Type ACE95jr

Webadmin.Regulators@emerson.com
Fisher.com
Facebook.com/EmersonAutomationSolutions
LinkedIn.com/company/emerson-automation-solutions
Twitter.com/emr_automation

Emerson Automation Solutions

Americas
McKinney, Texas 75070 USA
T +1 800 558 5853
+1 972 548 3574

Asia Pacific
Singapore 128461, Singapore
T +65 6777 8211

Europe
Bologna 40013, Italy
T +39 051 419 0611

Middle East and Africa
Dubai, United Arab Emirates
T +971 4 811 8100

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

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