

October 2015

Types P551 and P551A External Closing Spring Retrofit Kits for the Type N550/N551 ESV



WARNING

Failure to follow these instructions or to properly install and maintain this equipment could result in an explosion and/or fire causing property damage and personal injury or death.

Fisher® equipment must be installed, operated and maintained in accordance with federal, state and local codes and Fisher instructions. The installation in most states must also comply with NFPA No. 58 or ANSI K61.1 standards.

Only personnel trained in the proper procedures, codes, standards and regulations of the applicable industries should install and service this equipment.



CAUTION

Possible hand and finger pinch points between closing Type N550/N551 handle and latch block. Adding a Retrofit Kit causes the handle to close quickly and with extreme force. Keep hands and fingers away from handle as it closes.

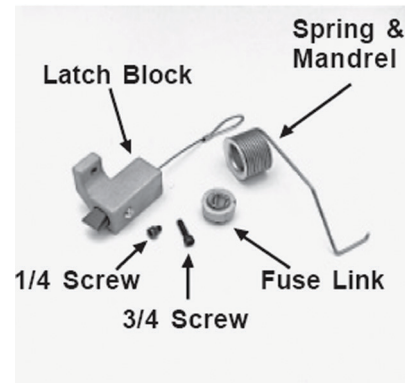


Figure 1. Type P551 Parts Kit
See pages 2-4 for installation steps.

Introduction

Scope of the Manual

This Instruction Manual covers installation of the Types P551 and P551A External Closing Spring Retrofit for the Type N550/N551 Emergency Shutoff Valve (ESV).

Description

The P551 KIT, FIGURE 1, is designed to aid the closure of the Type N550/N551 ESV. The Type P551A KIT, FIGURE 2, is designed to aid the closure of the Type N550/N551 equipped with a Type P327A Remote Pneumatic Release Air Cylinder.

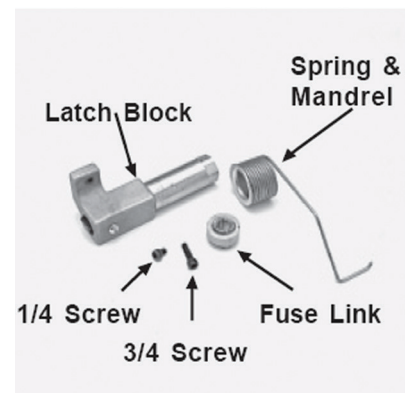


Figure 2. Type P551A Parts Kit
See pages 5-7 for installation steps.

Types P551 and P551A

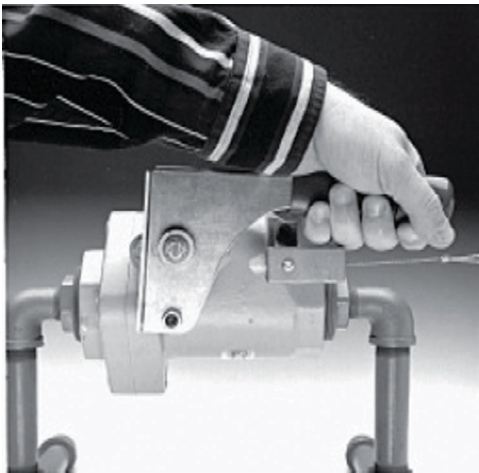
Note

If the Retrofit Kit installation is the only repair then it is not necessary to close off an upstream valve and remove pressure from both the inlet and outlet of the Type N550/N551 Emergency Shutoff Valve (ESV). If additional repairs are to be made on the Type N550/N551, then the valve must be isolated and all pressure removed before making those repairs.

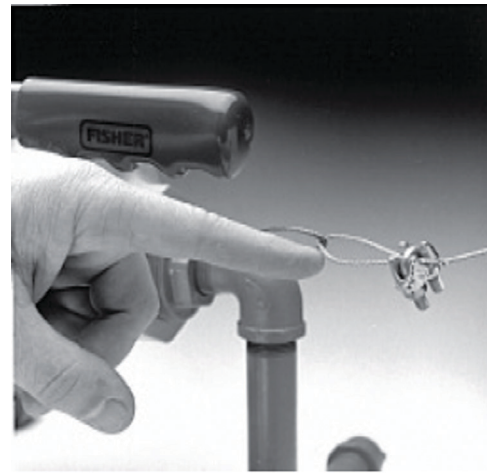
CAUTION

The Type N550/N551 valve handle must be in the closed position (handle parallel to pipe) before removing the cap screw.

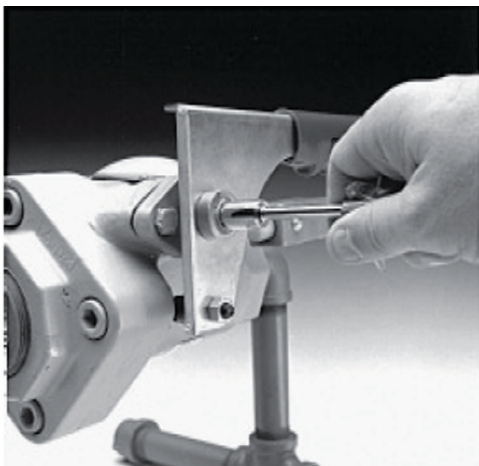
TYPE P551 INSTALLATION INSTRUCTIONS HOW TO INSTALL A TYPE P551 RETROFIT KIT ON A TYPE N550/N551 MANUAL ACTUATOR WITH REMOTE CABLE RELEASE.



Step 1
Close the Type N550/N551 valve.



Step 2
Disconnect remote cable.

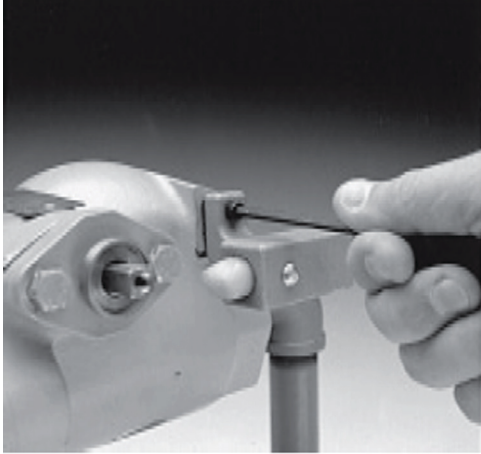


Step 3
Remove handle bolt and handle.
Save these two parts.

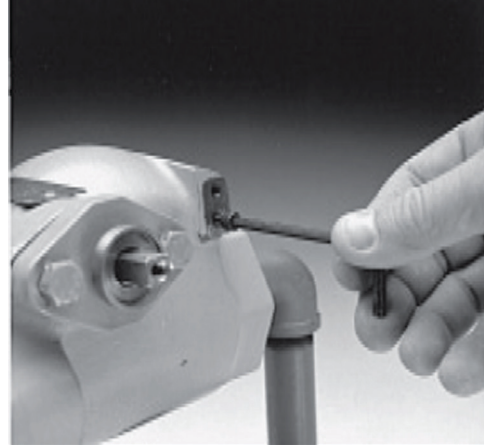


Step 4
Discard the fuse link.

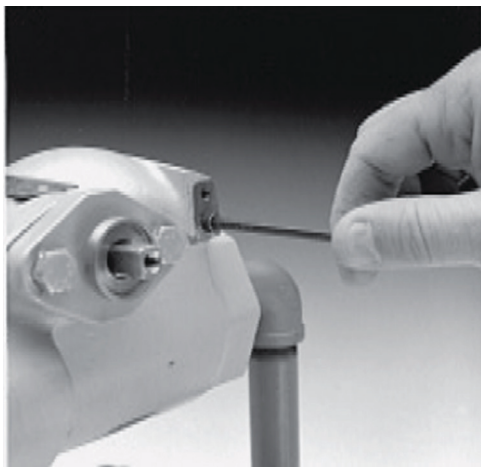
Types P551 and P551A



Step 5
Remove latch bolt(s). Older valves will have 2 bolts.
Discard the bolt(s) and latch block.



Step 6
Use a 5/32 Allen head wrench to screw 1/4 in. / 6.35 mm long bolt into bottom hole.



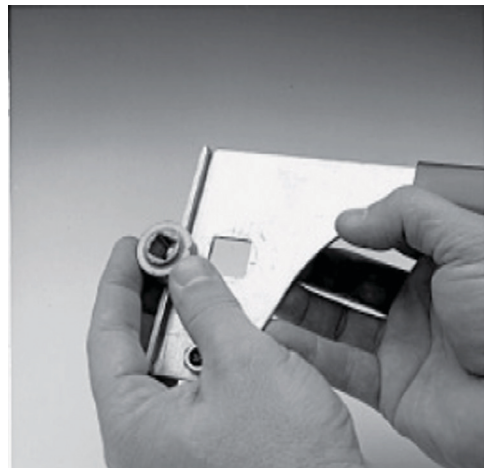
Step 7
Tighten until bolt head seats firmly on body.



Step 8
Place latch block on body with lower blind hole over bolt in body.

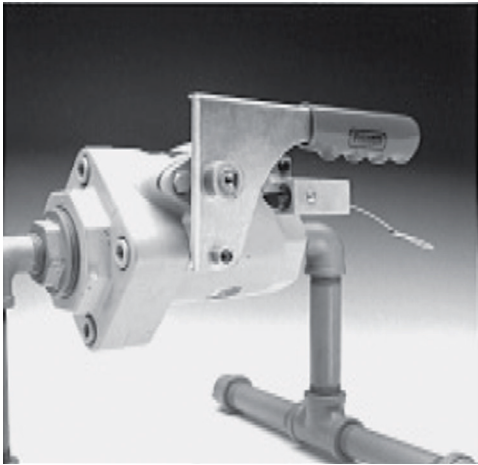


Step 9
Install 3/4 in. / 19.1 mm long bolt through second hole and firmly tighten with 5/32 Allen head wrench.



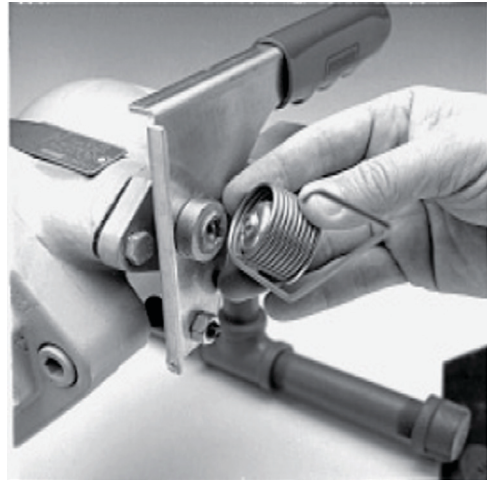
Step 10
Place square end of new fuse link into handle.

Types P551 and P551A



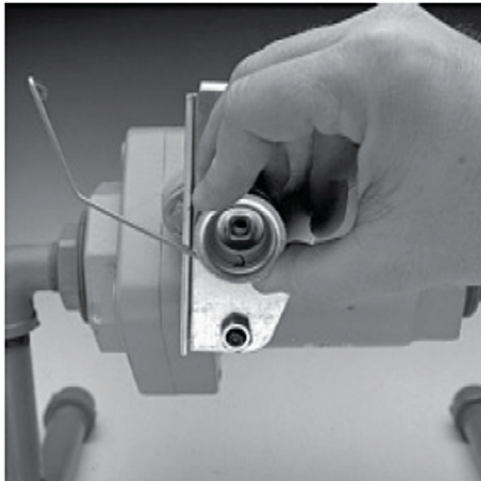
Step 11

Place handle and fuse link over valve shaft. **HANDLE MUST POINT TOWARDS LATCH BLOCK, NOT UP.**



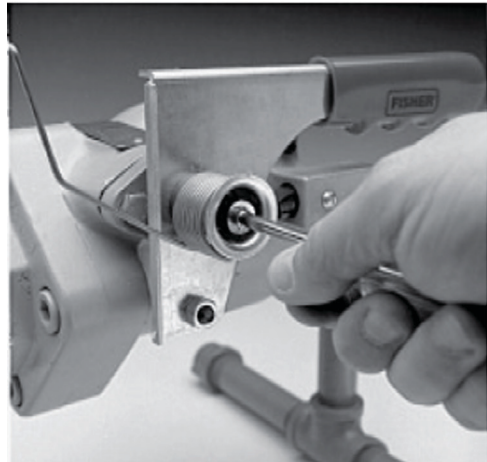
Step 12

Install spring mandrel and torque spring so that the square end of the spring mandrel fits in the square hole in the fuse link.



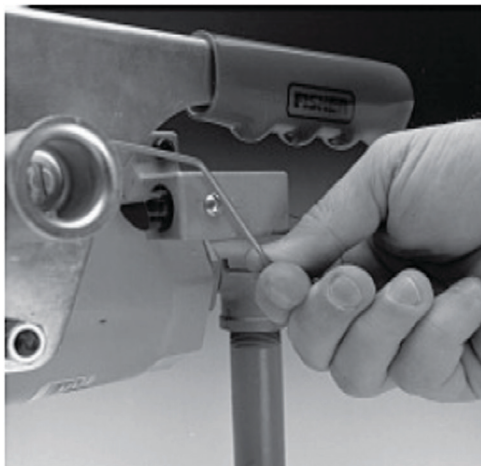
Step 13

IMPORTANT: The side hole holding the short spring end **MUST BE POINTED DOWN.**



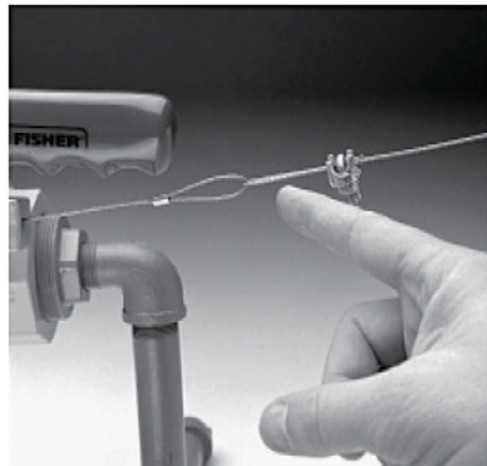
Step 14

Reinstall handle bolt and firmly tighten.



Step 15

Fasten long end of spring under latch block by **ROTATING 180 DEGREES CLOCKWISE.**



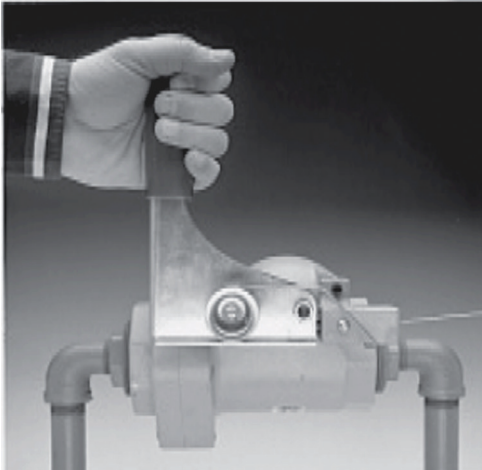
Step 16

Reattach and adjust remote release cable for correct operation.

Types P551 and P551A

CAUTION

Possible hand and finger pinch point between closing Type N550/N551 handle and latch block. Handle closes quickly and with extreme force. Keep hands and fingers away from handle as it closes.



Step 17

Rotate handle counter clockwise to open valve. Valve must stay open. **HANDLE AND VALVE MUST QUICKLY “SNAP” CLOSED** when (a) the remote release cable is pulled and (b) the handle is pushed closed from the open position.

Note

If the Retrofit Kit installation is the only repair then it is not necessary to close off an upstream valve and remove pressure from both the inlet and outlet of the Type N550/N551 Emergency Shutoff Valve (ESV). If additional repairs are to be made on the Type N550/N551, then the valve must be isolated and all pressure removed before making those repairs.

CAUTION

The Type N550/N551 valve handle must be in the closed position (handle parallel to pipe) before removing the cap screw.

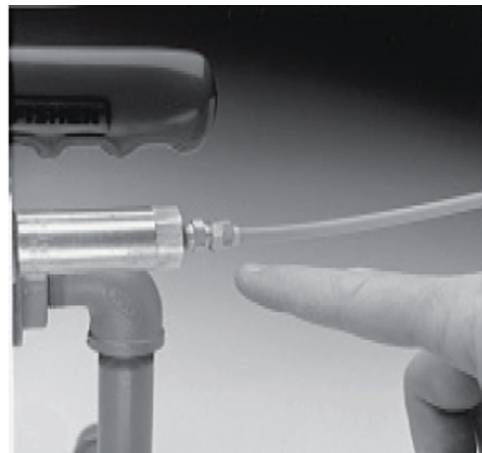
TYPE P551A INSTALLATION INSTRUCTIONS

HOW TO INSTALL A TYPE P551A KIT ON A TYPE N550/N551 WITH REMOTE PNEUMATIC RELEASE TYPE P327A.



Step 1

Close the Type N550/N551 valve.



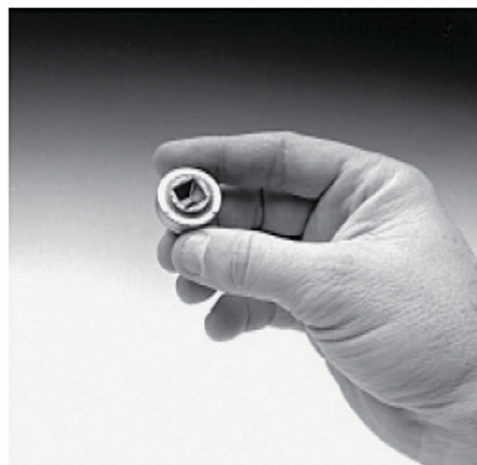
Step 2

Turn off and disconnect the air source from the Type P327A cylinder.

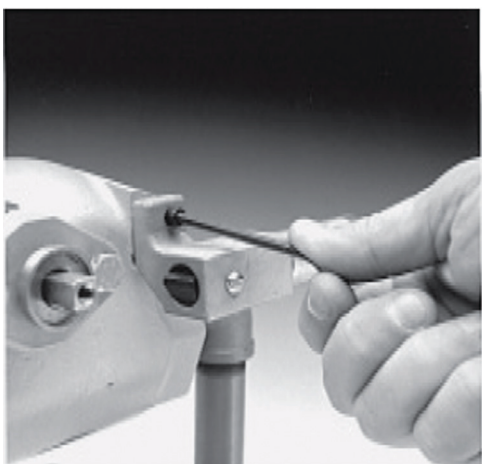
Types P551 and P551A



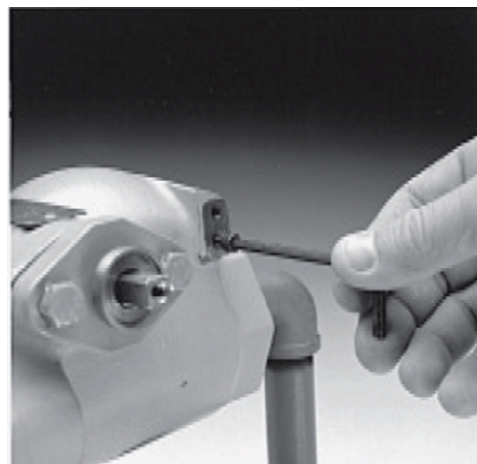
Step 3
Remove handle bolt and handle.
Save these two parts.



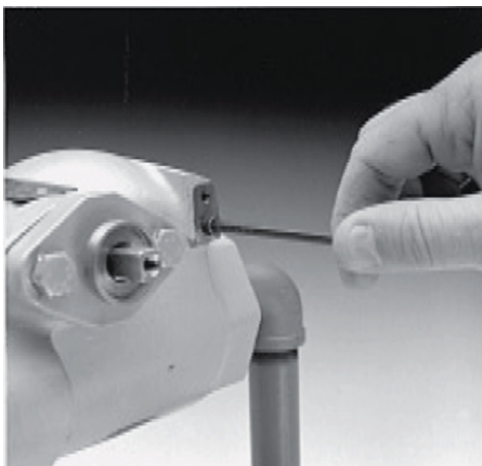
Step 4
Discard the fuse link.



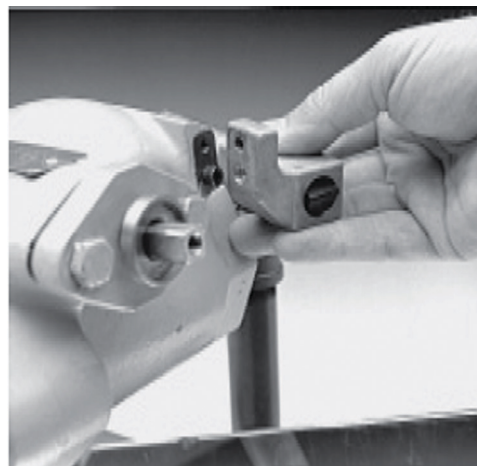
Step 5
Remove latch bolt(s). Older valves will have 2 bolts.
Discard the bolt(s) and latch block.



Step 6
Use a 5/32 Allen head wrench to screw 1/4 in. / 6.35 mm long bolt into bottom hole.

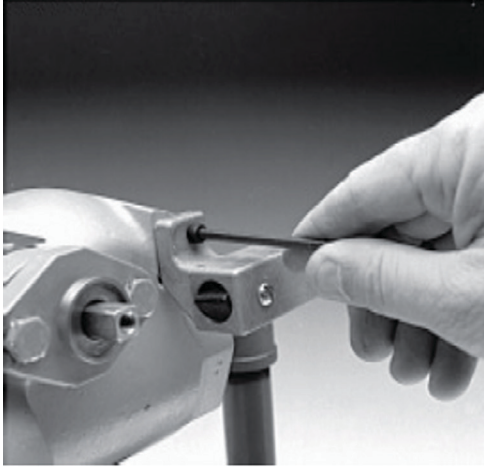


Step 7
Tighten until bolt head seats firmly on body.



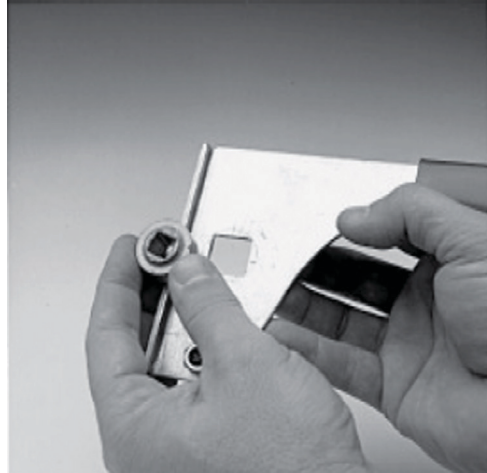
Step 8
Place latch block on body with lower blind hole over bolt in body.

Types P551 and P551A



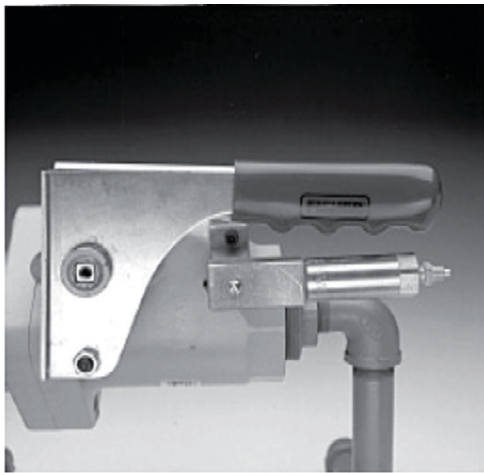
Step 9

Install 3/4 in. / 19.1 mm long bolt through second hole and firmly tighten with 5/32 Allen head wrench.



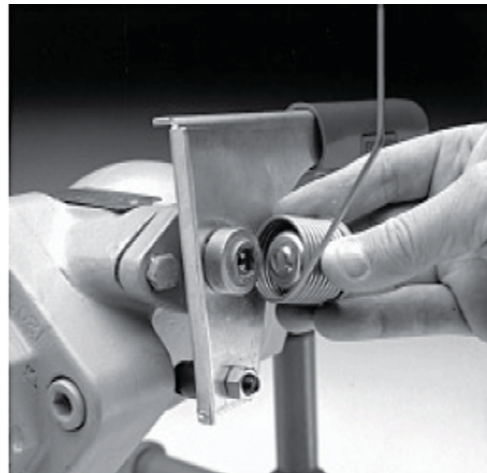
Step 10

Place square end of new fuse link into handle.



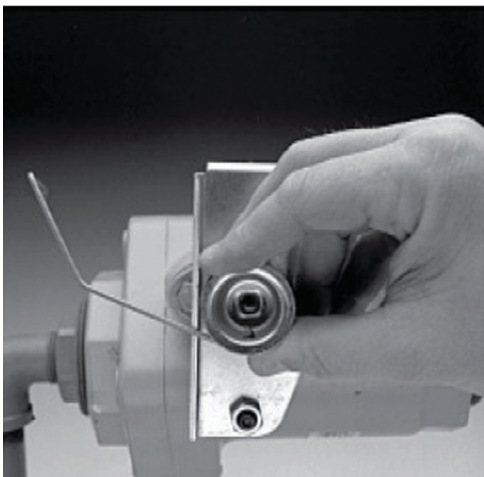
Step 11

Place handle and fuse link over valve shaft. **HANDLE MUST POINT TOWARDS LATCH BLOCK, NOT UP.**



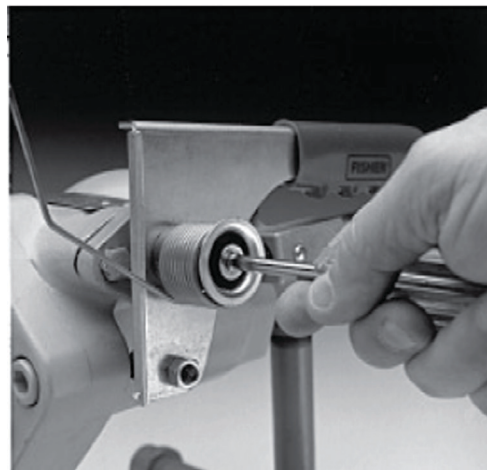
Step 12

Install spring mandrel and torque spring so that the square end of the spring mandrel fits in the square hole in the fuse link.



Step 13

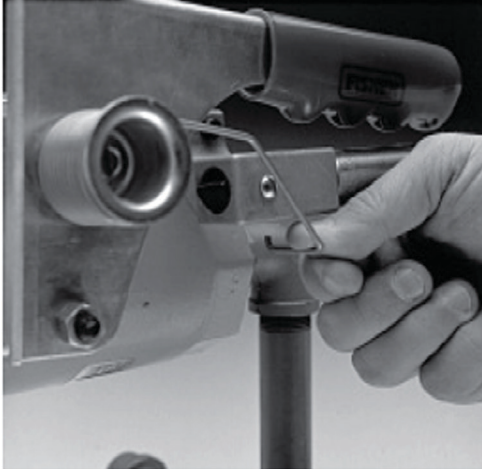
IMPORTANT: The side hole holding the short spring end **MUST BE POINTED DOWN.**



Step 14

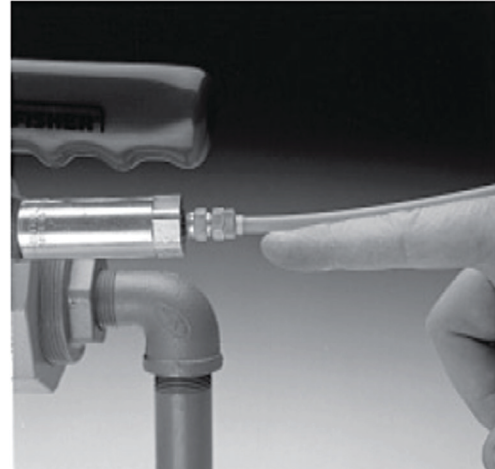
Reinstall handle bolt and firmly tighten.

Types P551 and P551A



Step 15

Fasten long end of spring under latch block by **ROTATING 180 DEGREES CLOCKWISE.**



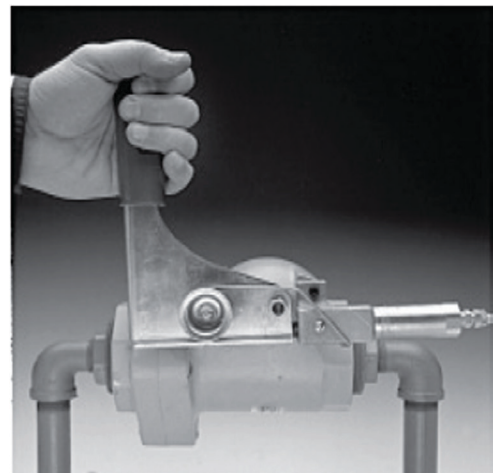
Step 16

Reattach the remote air source. There should be a **MINIMUM OF 30 psi / 2.07 bar** to the cylinder.



CAUTION

Possible hand and finger pinch point between closing Type N550/N551 handle and latch block. Handle closes quickly and with extreme force. Keep hands and fingers away from handle as it closes.



Step 17

Rotate handle counter clockwise to open valve. Valve must stay open. **HANDLE AND VALVE MUST QUICKLY “SNAP” CLOSED** when (a) air pressure is exhausted from Type P327A remote release and (b) the handle is pushed closed from the open position.

LPG Equipment

**Emerson Process Management
Regulator Technologies, Inc.**

USA - Headquarters
McKinney, Texas 75070 USA
Tel: +1 800 558 5853
Outside U.S. +1 972 548 3574

For further information visit www.fisherregulators.com

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