

Product Description

The Assembler does tests on a valve.
Look at the page for the MODEL 160 Pressure Reducing Valve.

Task What does the Assembler attach to the valve outlet?
1

Task What should happen when the Assembler turns the adjusting screw in?
2

Task What are 2 things the Assembler should look for if the valve won't close?
3



MODEL 160 PRESSURE REDUCING VALVE

DESCRIPTION AND OPERATION:

Model 160 is a direct acting, spring and diaphragm type pressure reducing valve. The valve is held open by the spring. The outlet pressure acting on the diaphragm opposes the spring to close the valve.

TEST PROCEDURE:

Connect a source of air or water to the inlet. Attach a 3/8" line with a pressure gauge and shut-off valve to the outlet. Back off the adjusting screw, then proceed to turn it in. The gauge should show an increase within the range marked on the valve. Open the shut-off valve slightly and bleed flow to atmosphere. Pressure should drop slightly and return to setting when the shut-off valve is closed. This check should be performed at various settings.

POSSIBLE CAUSE / REMEDY

FAILS TO OPEN:

Valve underset. / Increase setting.

FAILS TO CLOSE:

Valve overset. / Reduce setting.

Obstruction on seat. / Clear obstruction.

| Task | Answer Key | Skill Level |
|------|------------|-------------|
|------|------------|-------------|

1

a $\frac{3}{8}$ " line with a pressure gauge and shut-off valve

To answer this question you scanned the page for key words in the headings and text to locate the required information.

*Reading
Text***Level ②**

 *to see one way to get this answer.*

2

The gauge should show an increase within the range marked on the valve.

To answer this question you read simple written directions.

*Reading
Text***Level ①**

 *to see one way to get this answer.*

3

Valve overset and Obstruction on seat.

To answer this question you located a section of text and made low-level inferences.

*Reading
Text***Level ②**

 *to see one way to get this answer.*

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Task What does the Assembler attach to the valve outlet?

1

Answer a $\frac{3}{8}$ " line with a pressure gauge and shut-off valve

- Steps**
1. Scan the headings and decide the action, *attach*, would be under *TEST PROCEDURE*.
 2. Scan the text under the heading *TEST PROCEDURE* for the key word *Attach* and words following.

Note You may notice *connect* first as a word with similar meaning to *attach*. Scanning beyond the first possible answer leads to the correct one.

Level Reading Text, Level 2



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Task What should happen when the Assembler turns the adjusting screw in?

2

Answer **The gauge should show an increase within the range marked on the valve.**

- Steps**
1. Scan the headings and decide the action, *turns*, would be under *TEST PROCEDURE*.
 2. Scan the text under the heading *TEST PROCEDURE* for *turns*, *adjusting screw*, and words following.

Level Reading Text, Level 1



Product Description

The Assembler does tests on a valve.
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Task What are 2 things the Assembler should look for if the valve won't close?

3

Answer Valve overset and **Obstruction on seat.**

- Steps**
1. Scan the headings on the page for a list of problems.
 2. Locate *POSSIBLE CAUSE / REMEDY*.
 3. Decide *FAILS TO CLOSE* means the valve won't close.
 4. Choose the items below as the possible causes.

Note You will notice the section *POSSIBLE CAUSE / REMEDY* is actually arranged in a table, with the slash mark (/) dividing the columns.

Level Reading Text, Level 2

