Product Description

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

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

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

Task 3
What are 2 things the Assembler should look for if the valve won’t close?
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.
<table>
<thead>
<tr>
<th>Task</th>
<th>Answer Key</th>
<th>Skill Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A 3/8&quot; 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.</td>
<td>Reading Text</td>
</tr>
<tr>
<td>2</td>
<td>The gauge should show an increase within the range marked on the valve. To answer this question you read simple written directions.</td>
<td>Reading Text</td>
</tr>
<tr>
<td>3</td>
<td>Valve overset and Obstruction on seat. To answer this question you located a section of text and made low-level inferences.</td>
<td>Reading Text</td>
</tr>
</tbody>
</table>
The Assembler does tests on a valve.
Look at the page for the MODEL 160 Pressure Reducing Valve.

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

**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
Product Description

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

Task 2

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

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

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

**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