Corrections
Manual of Cross-Connection Control, Tenth Edition
Fifth Printing, 2020


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<thead>
<tr>
<th>Page No.</th>
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<td>224</td>
<td>9.2.1.3.2 Continuously Discharging Differential Pressure Relief Valve</td>
</tr>
<tr>
<td></td>
<td>SECOND BULLET, SECOND SUBBULLET</td>
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<td></td>
<td>If No. 1 check valve reading is less than 5.0 psid this indicates a failing leaking No.1 check valve.</td>
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<tr>
<td>367</td>
<td>Table 10-7</td>
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<tr>
<td></td>
<td>Rated Flow (2)</td>
</tr>
<tr>
<td></td>
<td>(gpm)</td>
</tr>
<tr>
<td>1</td>
<td>(0.31)</td>
</tr>
<tr>
<td>3</td>
<td>(0.50)</td>
</tr>
<tr>
<td>5 15</td>
<td>(0.75)</td>
</tr>
<tr>
<td>412</td>
<td>10.2.6.2.2.1 Accuracy Test</td>
</tr>
<tr>
<td></td>
<td>STEP 10</td>
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<td></td>
<td>Decrease the high side pressure source until the VRS reads 7.5 8.0 (55.15KPa).</td>
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APPENDIX A

| 494 | A.6.1.1 RP – FIVE NEEDLE VALVE FIELD TEST KIT |
|     | TEST NO. 1 – RELIEF VALVE OPENING POINT |
|     | STEP 1j |
|     | FIRST BULLET |
|     | Record opening point of RV If reading drops, record opening point of relief valve when first drip is detected |
|     | SECOND BULLET |
|     | If low control needle valve must be opened more than ¼ turn, close low control needle valve and go to step T1 reading does not drop to relief valve opening point, close low control needle valve, go to T1. |
A.6.1.1 RP – FIVE NEEDLE VALVE FIELD TEST KIT

DIAGNOSTIC

STEP T1
Attach temporary bypass hose from test cock No. 1 to test cock No. 4. Bleed air from hose and to test cock No. 1, and open to bleed air from hose. Close test cock No. 1. Attach other end of temporary bypass hose to test cock No. 4, then open test cocks No. 1 and No. 4.

A.6.1.1 RP – FIVE NEEDLE VALVE FIELD TEST KIT

Diagnosics

STEP T2
FIRST BULLET
If reading holds steady or drops, there is no backpressure. Open test cock No. 2. Go to 2e.

A.6.1.2 RP – TWO NEEDLE VALVE FIELD TEST KIT

TEST NO. 1 – Relief Valve Opening Point

STEP 1k
FIRST BULLET
Record opening point of RV. If reading drops, record opening point of relief valve when first drip is detected.
SECOND BULLET
If low bleed needle valve must be opened more than ¼ turn, go to step T1. Reading does not drop to relief valve opening point, close low bleed needle valve, go to T1.

A.6.1.2 RP – TWO NEEDLE VALVE FIELD TEST KIT

TEST NO. 2 – Tightness of No. 2 Check Valve

STEP 2e
Open bypass high bleed needle valve.

A.6.1.2 RP – TWO NEEDLE VALVE FIELD TEST KIT

TEST NO. 3 – Tightness of No. 1 Check Valve

STEP 3b
Close test cocks, open No. 2 shutoff valve, remove equipment.

A.6.1.2 RP – TWO NEEDLE VALVE FIELD TEST KIT

DIAGNOSTIC

STEP T1
Attach temporary bypass hose from test cock No. 1 and to test cock No. 4. Bleed air from hose — open to bleed air from hose. Close test cock No. 1. Attach other end of temporary bypass hose to test cock No. 4, then open test cocks No. 1 and No. 4.

A.6.1.2 RP – TWO NEEDLE VALVE FIELD TEST KIT

DIAGNOSTIC

STEP T2
FIRST BULLET
If reading holds steady or drops, there is no backpressure. Open test cock No. 2. Go to 2e.
A.6.1.3 RP – THREE NEEDLE VALVE FIELD TEST KIT

TEST NO. 1 – Relief Valve Opening Point

STEP 1j
FIRST BULLET
Record opening point of RV If reading drops, record opening point of relief valve when first
drip is detected.
SECOND BULLET
If low bleed needle valve must be opened more than \( \frac{1}{4} \) turn, close low bleed needle valve.
Go to step T1 reading does not drop to relief valve opening point, close low bleed needle
valve, go to T1.

TEST NO. 2 – Tightness of No. 2 Check Valve

STEP 2e
THIRD BULLET
If reading drops to relief valve opening point, loosen low side hose on No. 3 test cock (to
raise reading above apparent reading), then tighten hose.

TEST NO. 3 – Tightness of No. 1 Check Valve

STEP 3b
Close test cocks, open No. 2 shutoff valve, remove equipment.

DIAGNOSTICS
STEP T1
Attach temporary bypass hose from to test cock No. 1 and to test cock No. 4. Bleed air
from hose open to bleed air from hose. Close test cock No. 1. Attach other end of
temporary bypass hose to test cock No. 4, then open test cocks No. 1 and No. 4.

STEP T2
FIRST BULLET
If reading holds steady or drops, there is no backpressure. Open test cock No. 2. Go to 2e.

A.6.2 DOUBLE CHECK VALVE ASSEMBLY (DC)

TEST NO.1 – TIGHTNESS OF NO.1 CHECK VALVE

STEP 1b
Install fittings and bleed valve arrangement.
| 498 | **A.6.2 DOUBLE CHECK VALVE ASSEMBLY (DC)**  
|     | **TEST NO.1 – TIGHTNESS OF NO.1 CHECK VALVE**  
|     | **STEP 1e**  
|     | Bleed air from gage and fill tube. Open No. 2 test cock and open and close high bleed needle valve to bleed air.  
|     | **STEP 1f**  
|     | Close No. 2 shutoff valve. Locate gage at proper elevation, then close No. 1 shutoff valve. Open No. 3 test cock to fill tube, then close No. 3 test cock.  
|     | ADDED NEW **STEP 1g**  
|     | Close No. 2 shutoff valve. Locate field test kit at proper elevation, then close No. 1 shutoff valve.  
|     | **STEP 1g (FOURTH PRINTING) is now STEP 1h (FIFTH PRINTING)**  
|     | **STEP 1h (FOURTH PRINTING) is now STEP 1i (FIFTH PRINTING)**  

| 499 | **A.6.2 DOUBLE CHECK VALVE ASSEMBLY (DC)**  
|     | **TEST NO.2 – TIGHTNESS OF NO.2 CHECK VALVE**  
|     | **STEP 2b**  
|     | Bleed air from gage and fill tube. Open No. 3 test cock and open and close high bleed needle valve to bleed air.  
|     | **STEP 2c**  
|     | Close shutoff valve No. 1. Open No. 4 test cock to fill tube, then close No. 4 test cock.  
|     | ADDED NEW **STEP 2d**  
|     | Locate field test kit at proper elevation, then close shutoff valve No. 1.  
|     | **STEP 2d (FOURTH PRINTING) is now STEP 2e (FIFTH PRINTING)**  
|     | **STEP 2e (FOURTH PRINTING) is now STEP 2f (FIFTH PRINTING)**  
|     | **STEP 2f (FOURTH PRINTING) is now STEP 2g (FIFTH PRINTING)**
A.6.2 DOUBLE CHECK VALVE ASSEMBLY (DC)

DIAGNOSTICS

STEP T1
SECOND BULLET

If not possible to adjust bleed valve Repair No. 1 shutoff arrangement so the flow can be reduced to a drip, then repair No. 1 shutoff valve. If that doesn’t work repair both check valves and No. 2 shutoff valve.

A.6.4 Spill RESISTANT PRESSURE VACUUM BREAKER ASSEMBLY (SVB)

TEST NO.1 – CHECK VALVE CLOSING POINT

STEP 1d
Attach high side hose to bleed valve arrangement

- Open test cock.
- Bleed air through high bleed needle valve.
- Close high bleed needle valve

STEP 1e
Open test cock

STEP 1f
Bleed air through high bleed needle valve

STEP 1g
Close high bleed needle valve

STEP 1e (FOURTH PRINTING) is now STEP 1h (FIFTH PRINTING)

STEP 1f (FOURTH PRINTING) is now STEP 1i (FIFTH PRINTING)

STEP 1j (FIFTH PRINTING) is a continuation of STEP 1i (FIFTH PRINTING)

A.6.4 Spill RESISTANT PRESSURE VACUUM BREAKER ASSEMBLY (SVB)

DIAGNOSTICS

STEP T3
SECOND BULLET

If it is not possible to reduce flow at vent valve to drip, record that No. 1 shutoff valve is leaking too much. Go to 2d.