



Corrections

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

The USC Foundation has published a fifth printing of the Manual of Cross-Connection Control, Tenth Edition, dated 2020. The fifth printing includes corrections from the original printing, dated December 2009.

Page No.	Deletion / Addition										
CHAPTER 9 – FIELD TEST PROCEDURES											
224	<p><i>9.2.1.3.2 Continuously Discharging Differential Pressure Relief Valve</i> SECOND BULLET, SECOND SUBBULLET If No. 1 check valve reading is less than 5.0 psid this indicates a failing <u>leaking</u> No.1 check valve.</p>										
CHAPTER 10 - STANDARDS											
367	<p>Table 10-7</p> <table border="1"> <thead> <tr> <th colspan="2">Rated Flow (2)</th></tr> <tr> <th>(gpm)</th><th>(L/s)</th></tr> </thead> <tbody> <tr> <td>1</td><td>(0.31) <u>(0.6)</u></td></tr> <tr> <td>3</td><td>(0.50) <u>(0.19)</u></td></tr> <tr> <td>5 15</td><td>(0.75) <u>(0.95)</u></td></tr> </tbody> </table>	Rated Flow (2)		(gpm)	(L/s)	1	(0.31) <u>(0.6)</u>	3	(0.50) <u>(0.19)</u>	5 15	(0.75) <u>(0.95)</u>
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412	<p><i>10.2.6.2.2.1 Accuracy Test</i> STEP 10 Decrease the high side pressure source until the VRS reads 7-5 <u>8.0</u> (55.15KPa).</p>										
APPENDIX A											
494	<p><i>A.6.1.1 RP – FIVE NEEDLE VALVE FIELD TEST KIT</i> 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. If reading does not drop to relief valve opening point, close low control needle valve, go to T1.</p>										

494	<p><i>A.6.1.1 RP – FIVE NEEDLE VALVE FIELD TEST KIT</i></p> <p>DIAGNOSTIC</p> <p>STEP T1</p> <p>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.</p>
495	<p><i>A.6.1.1 RP – FIVE NEEDLE VALVE FIELD TEST KIT</i></p> <p>Diagnostics</p> <p>STEP T2</p> <p>FIRST BULLET</p> <p>If reading <u>holds steady or</u> drops, there is no backpressure. Open No. 2 test cock. Go to 2e.</p>
495	<p><i>A.6.1.2 RP – TWO NEEDLE VALVE FIELD TEST KIT</i></p> <p>TEST NO. 1 – Relief Valve Opening Point</p> <p>STEP 1k</p> <p>FIRST BULLET</p> <p>Record opening point of RV. If reading drops, record opening point of relief valve when first drip is detected.</p> <p>SECOND BULLET</p> <p>If low bleed needle valve must be opened more than 1/4 turn, go to step T1 If reading does not drop to relief valve opening point, close low bleed needle valve, go to T1.</p>
496	<p><i>A.6.1.2 RP – TWO NEEDLE VALVE FIELD TEST KIT</i></p> <p>TEST NO. 2 – Tightness of No. 2 Check Valve</p> <p>STEP 2e</p> <p>Open bypass high bleed needle valve.</p>
496	<p><i>A.6.1.2 RP – TWO NEEDLE VALVE FIELD TEST KIT</i></p> <p>TEST NO. 3 – Tightness of No. 1 Check Valve</p> <p>STEP 3b</p> <p>Close test cocks, open <u>No. 2</u> shutoff valve, remove equipment.</p>
496	<p><i>A.6.1.2 RP – TWO NEEDLE VALVE FIELD TEST KIT</i></p> <p>DIAGNOSTIC</p> <p>STEP T1</p> <p>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.</p>
496	<p><i>A.6.1.2 RP – TWO NEEDLE VALVE FIELD TEST KIT</i></p> <p>DIAGNOSTIC</p> <p>STEP T2</p> <p>FIRST BULLET</p> <p>If reading <u>holds steady or</u> drops, there is no backpressure. Open test cock No. 2. Go to 2e.</p>

497	<p><i>A.6.1.3 RP – THREE NEEDLE VALVE FIELD TEST KIT</i></p> <p>TEST NO. 1 – Relief Valve Opening Point</p> <p>STEP 1j</p> <p>FIRST BULLET</p> <p>Record opening point of RV. If reading drops, record opening point of relief valve when first drip is detected.</p> <p>SECOND BULLET</p> <p>If low bleed needle valve must be opened more than 1/4 turn, close low bleed needle valve. Go to step T1. If reading does not drop to relief valve opening point, close low bleed needle valve, go to T1.</p>
497	<p><i>A.6.1.3 RP – THREE NEEDLE VALVE FIELD TEST KIT</i></p> <p>TEST NO. 2 – Tightness of No. 2 Check Valve</p> <p>STEP 2e</p> <p>THIRD BULLET</p> <p>If reading drops to relief valve opening point, loosen low side hose on No. 3 test cock (to raise reading above apparent reading), <u>then tighten hose.</u></p>
498	<p><i>A.6.1.3 RP – THREE NEEDLE VALVE FIELD TEST KIT</i></p> <p>TEST NO. 3 – Tightness of No. 1 Check Valve</p> <p>STEP 3b</p> <p>Close test cocks, open <u>No. 2</u> shutoff valve, remove equipment.</p>
498	<p><i>A.6.1.3 RP – THREE NEEDLE VALVE FIELD TEST KIT</i></p> <p>DIAGNOSTICS</p> <p>STEP T1</p> <p>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.</p>
498	<p><i>A.6.1.3 RP – THREE NEEDLE VALVE FIELD TEST KIT</i></p> <p>DIAGNOSTICS</p> <p>STEP T2</p> <p>FIRST BULLET</p> <p>If reading <u>holds steady or</u> drops, there is no backpressure. Open test cock No. 2. Go to 2e.</p>
498	<p><i>A.6.2 DOUBLE CHECK VALVE ASSEMBLY (DC)</i></p> <p>TEST NO.1 – TIGHTNESS OF NO.1 CHECK VALVE</p> <p>STEP 1b</p> <p>Install fittings and bleed valve arrangement.</p>

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

499	<p><i>A.6.2 DOUBLE CHECK VALVE ASSEMBLY (DC)</i></p> <p>DIAGNOSTICS</p> <p>STEP T1</p> <p>SECOND BULLET</p> <p>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 <u>valve</u>.</p>
500-501	<p><i>A.6.4 Spill RESISTANT PRESSURE VACUUM BREAKER ASSEMBLY (SVB)</i></p> <p>TEST NO.1 – CHECK VALVE CLOSING POINT</p> <p>STEP 1d</p> <p>Attach high side hose to bleed valve arrangement</p> <ul style="list-style-type: none"> ● Open test cock. ● Bleed air through high bleed needle valve. ● Close high bleed needle valve <p><u>STEP 1e</u></p> <p><u>Open test cock</u></p> <p><u>STEP 1f</u></p> <p><u>Bleed air through high bleed needle valve</u></p> <p><u>STEP 1g</u></p> <p><u>Close high bleed needle valve</u></p> <p>STEP 1e (FOURTH PRINTING) is now STEP 1h (FIFTH PRINTING)</p> <p>STEP 1f (FOURTH PRINTING) is now STEP 1i (FIFTH PRINTING)</p> <p>STEP 1j (FIFTH PRINTING) is a continuation of STEP 1i (FIFTH PRINTING)</p>
501	<p><i>A.6.4 Spill RESISTANT PRESSURE VACUUM BREAKER ASSEMBLY (SVB)</i></p> <p>DIAGNOSTICS</p> <p>STEP T3</p> <p>SECOND BULLET</p> <p>If it is not possible to reduce <u>flow at vent valve</u> to drip, record that No. 1 shutoff valve is leaking too much. Go to 2d.</p>