

# CONTROTRACE FOR PIPING INSTALLATION CHECKLIST

INSTALLATION GUIDE		SIGN OFF			REMARKS					
		CONST	CONST QA/QC	END USER QA/QC						
<h1>1</h1> <h2>DRY FIT</h2> <p>(MAXIMUM SPACING AND WELD HEIGHT)</p>										
<h1>2</h1> <h2>APPLY HTC</h2> <p>(DO NOT MIX W/ WATER OR DILUTE)</p>	<p>BEFORE TIGHTENING</p>	<p>HTC B NON-HARDENING USE FOR OPERATING TEMPERATURES &lt; 400°F (204°C)</p> <p>HTC 2 QUICK DRYING (15min - 1hr) USE FOR OPERATING TEMPERATURES &gt; 400°F (204°C) TO &lt; 1250°F (676°C) MAX.</p>								
	<p>BEFORE TIGHTENING</p>	<p>HTC 1 OR HTC 3 QUICK DRYING (15min - 1hr) USE FOR ALL CONTROHEAT APPLICATIONS OPERATING TO &lt; 750°F (399°C) MAX.</p>								
<h1>3</h1> <h2>FASTEN</h2> <p>TARGET 1/8" MAXIMUM HTC THICKNESS AFTER TIGHTENING (NO AIR GAPS)</p>	<p>SINGLE/DUAL ELEMENT CONTROTRACE</p> <p>STARTING POINT FOR TIGHTENING BANDING</p> <p>3/4" STAINLESS STEEL BANDING</p> <p>4'-0" (1219mm) MAX</p> <p>4'-0" (1219mm) MAX</p> <p>8" (203mm) MAX (TYP.)</p> <p>MIN. 2 BANDS PER STRAIGHT PIECE</p> <p>MIN. 3 BANDS PER 45°/90° ELBOW</p>									
	<p>MULTI-ELEMENT CONTROTRACE PANELS</p> <p>1/4" x 2" WIDE BOLTING STRAP</p> <p>3/4" STAINLESS STEEL BANDING</p> <p>4'-0" (1219mm) MAX</p> <p>8" (203mm) MAX (TYP.)</p> <p>MIN. 2 BANDS PER STRAIGHT PIECE</p>									
<h1>4</h1> <h2>INSULATE</h2>	<p>COMPLETELY INSULATE ALL: PIPING; FLANGES; SUPPORTS; PROCESS INSTRUMENTS SUCH AS VALVES; FLOW ELEMENTS; ETC...</p>									
<h1>5</h1> <h2>HOSES</h2>	<p>TIGHTEN NUTS ON BOTH SIDES OF FITTING (TYP. ALL HOSES)</p> <p>P-TRAP</p> <p>CONSULT HOSE TAG FOR MORE DETAILED INFORMATION</p>	<p>JIC+ ADAPTOR HOSE SIZE</p> <table border="1"> <tr> <td>1/2"</td> <td>30 ft-lb</td> </tr> <tr> <td>3/4"</td> <td>50 ft-lb</td> </tr> <tr> <td>1"</td> <td>70 ft-lb</td> </tr> </table>	1/2"	30 ft-lb	3/4"	50 ft-lb	1"	70 ft-lb		
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<h1>6</h1> <h2>CIRCUIT</h2>	<p>SUPPLY AND RETURN MANIFOLDS; PRE-INSULATED TUBING AND MISC. HARDWARE SUPPLIER AS DETERMINED BY PURCHASE ORDER.</p> <p>R TO STEAM TRAP or RETURN HEADER (TUBING SIZE VARIES)</p> <p>S FROM SUPPLY HEADER (TUBING SIZE VARIES)</p> <p>ENSURE RETURN HOSE/TUBING LOOPS DOWNWARD TO CREATE P-TRAP</p>									
<h1>7</h1> <h2>SYSTEM TEST</h2>	<p><b>COMPLETED SYSTEM TEST</b></p> <p>CSI RECOMMENDS: A SOAPY WATER LEAK TEST (SNOOP) OF THE COMPLETED SYSTEM TO VERIFY PROPER ASSEMBLY OF THE CONNECTION POINTS. TEST SHOULD INCLUDE SUPPLY &amp; RETURN MANIFOLDS.</p>									