







Technical Bulletin No: 32-2017

Title:	Air System Connection Specification	
Priority	Green	Green – Opportunity to Improve
Legislation:	PUWER, Pressure Vessel Regulations	
Brief Description:	Air systems in branches often have connections secured with worm drive jubilee type clamps. Lower risk lower cost double ear clamps should be specified.	
Equipment Affected:	Air compressor lines and connectors	
<p>Worm drive jubilee type clips do not provide even pressure to connections on small diameter hoses. In addition, they can present an injury risk if the connection fails under pressure as the clips have an exposed sharp edge, hose whip would present a significant risk of injury.</p> <p>As per HAE LPG Code of Practice, double ear clamps are recommended as they provide even clamping force, are lower mass and risk.</p> <p>In addition, where 1/2" connectors / hoses are used, as per hire fleet, whip-check lines must be used.</p>		
1 – Worm Drive Clip Hose also in poor condition	2 – Hose Condition Failure is imminent	3 – Convertors No whip-check
		
4 – Air Tools 1/2" hose – no whip-check	5 – Double Ear Clamp Installation	6 – Double Ear Clamp Low cost kits
		
Recommended Actions:	<ul style="list-style-type: none"> • Immediate Action – Check that large airlines e.g. 1/2" are being used with whip-check lines • Review air system lines and air hoses, consider replacing worm-drive clips with double ear clamps on high usage equipment • Specify double ear clamps or similar for new hoses and pipe connections 	
Circulation:	Management / Workshop Teams	

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Authors: TfH Ltd

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