

**TECHNICAL EVALUATION FORM FOR THE SUPPLY AND DELIVERY OF TRACK WELDING GAS EQUIPMENT- ANNEXURE A (Mandtery Technical Clause-by-Clause)**

Gas equipment Type	Requirements	Clause in Technical Specification	Description	Type of proof to be submitted	Details of proof and page number	Not- Comply	Comply
<b>1. Pressure regulators</b>	<b>Material</b>	TFR Track welding gas equipment Specification, Clause 4.1.1	The materials for the pressure regulators shall conform to the requirements of ISO 9539.	Material data sheet			
	<b>Design</b>	TFR Track welding gas equipment Specification, Clause 4.1.2 & 4.1.3	The design, machining and assembly of the pressure regulator shall be in accordance with 4.1.2 of the technical specifications, see appendix A of the technical specifications.	Material data sheet & technical drawings showing the design and dimensions of pressure regulator			
	<b>Types of connection</b>	TFR Track welding gas equipment Specification, Clause 4.1.3	The connections of the pressure regulator shall be as per § 4.1.3 of the technical specifications. The physical and operating characteristics of pressure regulators shall conform to the requirements of 8.1-8.4 SANS 2503.	Technical datasheet/ user manual			
	<b>Marking</b>	TFR track welding gas equipment Specification, Clause 4.1.4	The markings shall be on the body of pressure regulator / cover or permanently fixed to the pressure regulator. The markings shall be in accordance with 4.1.4 of the technical specifications	Marking on technical drawings and/or technical data sheets			
	<b>Instruction for use</b>	TFR track welding gas equipment Specification, Clause 4.1.5	The manufacturer, supplier or distributor shall supply instructions for use with each pressure regulation in accordance with clause 5 as per SANS 2503.	Operators manuals/ users instructions or similar			
	<b>Inspection and method of test</b>	TFR track welding gas equipment Specification, Clauses in 4.1.6	Inspection and Testing of pressure regulators shall be in accordance with clause 11 of SANS 2503:2007.	QMS, Certification of conformity/compliance to SANS 2503 or similar			
<b>2. Single regulator for LPG</b>	<b>Material</b>	TFR track welding gas equipment Specification, Clause 4.2.1	The materials for the single regulator for LPG shall be in accordance with 4.2.1 of the technical specifications.	Material data sheet			
	<b>Design and construction</b>	TFR track welding gas equipment Specification, Clause 4.2.2	The design and construction of the single regulator for LPG shall be in accordance with § 4.2.2 of the technical specifications.	Certification of conformity to SANS 2503 or similar & Technical drawings clearly indicating the dimensions required in §4.2.2.			
	<b>Marking</b>	TFR track welding gas equipment Specification, Clause 4.2.3	The markings shall be in accordance with § 4.2.3 of the technical specifications.	An example of markings on technical drawings and/or technical data sheets			
	<b>Packaging and branding</b>	TFR track welding gas equipment Specification, Clause 4.2.5	Each regulator shall be so packed as to prevent the ingress of any foreign matter into the regulator.	The supplier shall provide details of packaging in a form of a document and/or images			
	<b>Inspection and method of test</b>	TFR track welding gas equipment Specification, Clause 4.2.4	Inspection and methods of test shall be in accordance with clause 5 of SANS 1237.	QMS and Certification of conformity with SANS 1237.			
<b>3. Gas rubber hoses</b>	<b>Material</b>	TFR track welding gas equipment Specification, Clause 4.3.1	The materials for the gas rubber hoses shall be in accordance with § 4.3.1 of the technical specifications.	Material details of of gas rubber hoses			
	<b>Design</b>	TFR track welding gas equipment Specification, Clause 4.3.2	The design and construction of the gas rubber hose shall be in accordance with § 4.2.2 of the technical specifications.	Technical drawings/images clearly indicating the dimensions required in §4.3.2 and Certification of conformity to SANS 8207.			
	<b>Marking</b>	TFR track welding gas equipment Specification, Clause 4.3.3.	The markings shall be in accordance with § 4.3.3 of the technical specifications.	An example of markings on technical drawings and/or technical data sheets.			
	<b>Inspection and method of test</b>	TFR track welding gas equipment Specification, Clause 4.3.4.	Inspection and methods of test shall be in accordance with clause 5 of SANS 1237.	QMS and/or ISO 9001 (latest version)			
<b>4. Flashback arrestors</b>	<b>Material</b>	TFR track welding gas equipment Specification, Clause 4.4.1	Materials used for safety devices shall conform to the requirements given in EN 29539.	Material details and certificate of conformity			
	<b>Design (General requirements)</b>	TFR track welding gas equipment Specification, Clause 4.4.2	The general requirements are as listed in § 4.4.2 of the technical specifications.	Statement of conformity to EN, SANS or ISO from OEM.			
	<b>Marking</b>	TFR track welding gas equipment Specification, Clause 4.4.4	The markings shall be in accordance with § 4.4.4 of the technical specifications.	An example of markings on technical drawings and/or technical data sheets.			
	<b>Inspection and method of tests</b>	TFR track welding gas equipment Specification, Clause 4.4.3	Requirements and test sequence of flashback arrestors shall follow external gas tightness, pressure resistance and flashback resistance given in clause 6 of SANS 50730-1:2004.	Statement of conformity to EN, SANS or ISO from OEM.			
<b>5. Welding and cutting equipment (cutting and heating nozzles, cutting attachments and torch handles</b>	<b>Material</b>	TFR track welding gas equipment Specification, Clause 4.5.1	The material requirements according to ISO 9539 shall be fulfilled. Components in contact with oxygen shall be free from oil, grease or other contaminants	Statement of conformity to EN, SANS or ISO from OEM.			
	<b>Design (General requirements)</b>	TFR track welding gas equipment Specification, Clause 4.5.2	The general requirements are as listed in § 4.5.2 of the technical specifications.	Statement of conformity to EN, SANS or ISO from OEM.			
	<b>Marking</b>	TFR track welding gas equipment Specification, Clause 4.5.4	The marking of the components of a blowpipe shall be legible and durable and shall be in accordance with 6.2 to 6.7 and Table D.1 of ISO 5172.	An example of markings on technical drawings and/or technical data sheets.			
	<b>Inspection and method of tests</b>	TFR track welding gas equipment Specification, Clause 4.5.3	Test requirements and procedures for welding blowpipes shall be in accordance with clause 8 of ISO 5172.	Statement of conformity to EN, SANS or ISO from OEM.			
<b>6. Flow-meter/pressure gauge</b>	<b>Material</b>	TFR track welding gas equipment Specification, Clause 4.6.1	The materials for the flowmeter shall be in accordance with § 4.6.1 of the technical specifications. The components in contact with acetylene and oxygen gas shall conform to ISO 9539.	Statement of conformity to EN, SANS or ISO from OEM.			
	<b>Design</b>	TFR track welding gas equipment Specification, Clause 4.6.2	The design and dimensions of the gas rubber hose shall be in accordance with § 4.6.2 of the technical specifications.	Certification of conformity and technical drawings			
	<b>Marking</b>	TFR track welding gas equipment Specification, Clause 4.6.3	The dial shall be marked with the information listed in §4.6.3.	An example of markings on technical drawings and/or technical data sheets.			
	<b>Inspection and method of tests</b>	TFR track welding gas equipment Specification, Clause 4.6.4	Methods or test shall be in accordance with clause 8 of ISO 5171:2009 and the safety regarding handling and testing of pressure gauges shall conform to clause 6 of this	Statement of conformity to EN, SANS or ISO from OEM.			