Quality Assurance Conditions

002: Delivery of Parts
Delivery of parts only accepted with up-to-date Rheinmetall approval.

088: Terms of delivery for products with limited shelf life.
Minimum Shelf life of the goods less than 12 months:
The goods must be delivered no later than 4 weeks after the date of production. The date of manufacture on the part and/or packaging must be affixed in an unencrypted and uncoded manner and clearly identifiable.
Minimum Shelf life of the goods equal to 12 months:
A remaining shelf life of the product of at least 9 months from delivery must be guaranteed by the supplier. The date of manufacture on the part and/or packaging must be affixed in an unencrypted and uncoded manner and clearly identifiable.
Minimum shelf life of the goods of more than 12 months:
A remaining shelf life of the product of at least 12 months or $3/4$ of the entire shelf life from delivery must be guaranteed by the supplier. The date of manufacture on the part and/or packaging must be affixed in an unencrypted and uncoded manner and clearly identifiable.

089: Date of Manufacture – Part not exceeding 6 months
The date of manufacture on the part and/or packaging must be affixed in an unencrypted and uncoded manner and clearly identifiable. The age must not exceed 6 months on delivery.

090: Date of Manufacture – Hose not exceeding 6 months
The date of manufacture on the hose line must be affixed in an unencrypted and uncoded manner and clearly identifiable. The age must not exceed 6 months on delivery.

091: Date of Manufacture - Part not exceeding 12 months
The date of manufacture on the part and/or packaging must be affixed in an unencrypted and uncoded manner and clearly identifiable. The age must not exceed 12 months on delivery.

111: Welding certification according to DIN 2303 Q1 BK1.
The supplier bindingly confirms with the tendering or with the order confirmation that he has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834 required in the drawings. At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.). Questions must be directed via purchasing to the special welding engineer.

112: Welding certification according to DIN 2303 Q1 BK2.
The supplier bindingly confirms with the tendering or with the order confirmation that he has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834 required in the drawings. At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.). Questions must be directed via purchasing to the special welding engineer.
113: **Welding certification according to DIN 2303 Q1 BK3.**
The supplier bindingly confirms with the tendering or with the order confirmation that he has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834 required in the drawings. At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.). Questions must be directed via purchasing to the special welding engineer.

121: **Welding certification according to DIN 2303 Q2 BK1.**
The supplier bindingly confirms with the tendering or with the order confirmation that he has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834 required in the drawings. At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.). Questions must be directed via purchasing to the special welding engineer.

122: **Welding certification according to DIN 2303 Q2 BK2.**
The supplier bindingly confirms with the tendering or with the order confirmation that he has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834 required in the drawings. At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.). Questions must be directed via purchasing to the special welding engineer.

123: **Welding certification according to DIN 2303 Q2 BK3.**
The supplier bindingly confirms with the tendering or with the order confirmation that he has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834 required in the drawings. At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.). Questions must be directed via purchasing to the special welding engineer.

131: **Welding certification according to DIN 2303 Q3 BK1.**
The supplier bindingly confirms with the tendering or with the order confirmation that he has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834 required in the drawings. At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.). Questions must be directed via purchasing to the special welding engineer.

132: **Welding certification according to RHEINMETALL specification.**
The supplier bindingly confirms with the tendering or with the order confirmation that he has a Rheinmetall welding certification according to technical specification 4100100-000000.130.0 as well as EN ISO 3834. This specification also refers to the component classes as well as the processes to be carried out in the material groups according to DIN technical report CEN ISO/TR 15608 according to "Certification of manufacturer’s qualification DIN 2303". At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.). Questions must be directed via purchasing to the special welding engineer.
208: **First Article Inspection.**
Before delivering the first series device/article the required First Article Inspection must have been completed successfully by the supplier. The completely created First Article Inspection report by the supplier must accompany the delivery of the initial sample. The series release is done after delivery of the initial sample, as well as the associated documentation by the auditor/quality management of Rheinmetall. Further series deliveries without written release by Rheinmetall are generally rejected at incoming goods and sent back if necessary. Rheinmetall reserves the right, in consultation with the supplier, to participate in the First Article Inspection on site at the supplier.

**First Article Inspection.** The supplier/manufacturer must carry out a First Article Inspection if:
- new production and manufacturing processes are used
- new machines or tools are used
- changed materials are used
- there are extensive tool changes and/or repairs
- the production site is relocated
- production is interrupted over a longer period of time (≥ 12 months)
- Rheinmetall asks for repetition by means of special request

**Marking.** The initial sample must be marked separately using a tag, label or tape with the following:
- First Article
- drawing number with index
- material number
- designation
- order number.

In the case of electronic assemblies, the supplier undertakes to carry out tests on the delivery item according to IPC-A-610 Class 3 (acceptance criteria for electronic assemblies). The delivery must be accompanied by certificates.

209: **First Article Inspection with Rheinmetall attendance.**
Before delivering the first series device/article the required First Article Inspection must have been completed positively, as well as the supplier must have the initial sample report. The series release is done by the auditor/quality management of Rheinmetall on site at the supplier. 15 days prior to the implementation of the First Article Inspection, the supplier/manufacturer must inform Rheinmetall in writing. After consultation with the supplier, Rheinmetall will carry out the First Article Inspection on site at the supplier. Further series deliveries without written release by Rheinmetall are generally rejected at incoming goods and sent back if necessary.

**First Article Inspection.** The supplier/manufacturer must carry out a First Article Inspection if:
- new production and manufacturing processes are used
- new machines or tools are used
- changed materials are used
- there are extensive tool changes and/or repairs
- the production site is relocated
- production is interrupted over a longer period of time (≥ 12 months)
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**Marking.** The initial sample must be marked separately using a tag, label or tape with the following:
- First Article
- drawing number with index
- material number
- designation
- order number.

In the case of electronic assemblies, the supplier undertakes to carry out tests on the delivery item according to IPC-A-610 Class 3 (acceptance criteria for electronic assemblies). The delivery must be accompanied by certificates.
300: Certificates of Origin
For deliveries of goods not manufactured in Australia, a Certificate of Origin is required.

301: DIN EN 10204 Factory Certificate 2.2
The goods must be delivered with a Factory Certificate 2.2 according to DIN EN 10204 with non-specific tests. The goods and the factory certificates must be marked in such a way that the factory certificates can be assigned to the goods. The delivery must be accompanied by the certificates.

304: DIN EN 10204 Acceptance Test Certificate 3.1
The goods must be delivered with an Acceptance Test Certificate 3.1 according to DIN EN 10204 with specific tests. The goods and the acceptance test certificate must be marked in such a way that the acceptance test certificates can be assigned to the goods. The delivery must be accompanied by the certificates.

309: DIN EN 10204 Factory Certificate 2.2 for the Assembly
A Factory Certificate 2.2 according to DIN EN 10204 with non-specific tests must be delivered for the assembly. The material of the individual parts used must be stated in the order documents and must be procured by the contractor with acceptance test certificate 3.1 according to DIN EN 10204. An assignment of the individual parts to the respective acceptance test certificates 3.1 must be listed in a “Declaration of conformity of the provider” according to DIN EN ISO/IEC 17050-1 and 2. Proper allocation of the acceptance test certificates 3.1 for the order and assembly must be ensured by you by marking the assembly at the prescribed / a suitable spot. Certificates as well as the acceptance test certificates of the individual parts must accompany the delivery.

312: Test Protocol.
A test protocol must be created for the component/the assembly. The scope of the test characteristics to be certified can be found in the specifications listed in the drawing (e.g. test measurements), as well as the applicable standards and provisions, our applicable test specification (PV) and/or the respective test sheet. Test equipment used in the test report must be listed to ensure clear traceability. The completed test report (set point/actual values) must accompany your delivery.

319: Pre-material Quality Test.
The quality test must be confirmed on the delivery note with the associated acceptance test certificate or on the acceptance test certificate itself. The delivery must be accompanied by certificates.

320: Pre-material Acceptance Test
For the pre-material an acceptance test certificate according to EN 10204-3.1 must be delivered. Scope of testing and marking can be found in the corresponding order documentation. The delivery must be accompanied by certificates. Proper allocation of the certificate to the order and the goods must be ensured by you by marking the goods at the prescribed/suitable spot.

321: Tested round steel chains
Test certificate and marking must be carried out according to DIN 685 part 4. The delivery must be accompanied by certificates.
322: Pressure Test.
For the assembly a factory certificate according to EN 10204-2.2 with test results of the pressure test must be created. Test equipment used must be listed in the test report to ensure clear traceability. The documentation must be archived at the manufacturer and must be presented to Rheinmetall on request.

324: Pre-material Factory Certificate
For the pre-material a factory certificate according to EN 10204-2.2 must be delivered. The delivery must be accompanied by certificates.

A test protocol must be created for the component/the assembly. The scope of the test characteristics to be certified can be found in the specifications listed in the drawings (e.g. test mass) as well as the applicable standards and provisions, our applicable test specification (PV) and/or the respective test sheet. Test equipment used must be listed in the test report to ensure clear traceability. The documentation must be archived at the manufacturer and must be presented to Rheinmetall on request.

401: Test Specifications.
The supplier/manufacturer undertakes to provide the Rheinmetall quality management with test specifications for testing and approval. Test equipment to be used must be listed in the test protocol to ensure clear traceability. The test specifications must also contain the required performance data that must be proven, or that contains information on what is tested.

402: Inspection Schedule
The supplier/manufacturer undertakes to create an inspection schedule on placement of the order and forward it to the Rheinmetall quality management for testing and approval.

403: Quality Assurance Plan.
The supplier/manufacturer undertakes to create a quality assurance plan (quality management plan) on placement of the order and forward it to the Rheinmetall quality management for testing and approval.

501: Quality Test to AQAP
This order is subject to the quality test in your company and its processing must meet the requirements of the applicable AQAP (2110, 2131, 2210). According to the respective subcontract a relevant AQAP request must be made to your sub-supplier. The quality test service will inform you about the quality test. You must notify the quality inspection body about the readiness for the quality test in due time so that the timely delivery is not impeded. During repair operations, the quality inspector must be presented with the invoice of the actually incurred working time and the actually incurred material for the issue of extracts of certificates and for the budgetary evaluation. The quality test must be confirmed by the quality test service on the delivery note, abroad on the form “Declaration of Conformity” according to AQAP - 2070 (annex B).

601: Declaration of Conformance.
The supplier/manufacturer must create a declaration of conformity according to the EU directive applicable for this part. The documents required for these directives and the operating instructions must be delivered in German as well as in the national language specific to this order.
705: X-Ray Test
An x-ray test according to drawing/x-ray plan must be carried out for the delivery item. Scope of testing/testing frequency can be found in the applicable documents (ZE, standard, TD etc.). Test equipment must be listed in the test report to be able to ensure clear traceability. The report must be enclosed in the delivery.

706: Ultrasonic Test
An ultrasonic test according to the drawing must be carried out for the delivery item. Scope of testing/testing frequency can be found in the applicable documents (ZE, standard, TD etc.). Test equipment must be listed in the test report to be able to ensure clear traceability. The report must be enclosed in the delivery.

709: Measurement Report
The profile, the line, the concentricity deviation and the base tangent length must be shown in a measurement report. Test equipment used must be listed in the test report to ensure clear traceability. The report must be enclosed in the delivery.

710: Tangent Length
The base tangent length must be recorded. Testing equipment used must be listed in the test report to ensure clear traceability. The report must be enclosed in the delivery.

711: Heat Treatment.
The characteristics of the heat treatment required in the drawing must be confirmed in a report/certificate. The report must be enclosed in the delivery.

759: Pressure Test.
A pressure test must be performed for the delivery item. The test data can be found in the drawing. Test equipment used must be listed in the test report to ensure clear traceability. The report must be enclosed in the delivery.

763: Crack Test
A crack test must be carried out for the delivery item. The procedure is stated in the drawing. If there is no specification in the drawing, the procedure can be set by the manufacturer. Scope of testing/testing frequency can be found in the applicable documents (ZE, standard, TD etc.). Testing equipment used must be listed in the test report to be able to ensure clear traceability. The report must be enclosed in the delivery.

769: Layer Thickness Test
A layer thickness test must be carried out for the delivery item. Test equipment used must be listed to ensure clear traceability. The report must be enclosed in the delivery.

770: Surface Preparation
Surface preparation according to DIN EN ISO 12944-4 A 2 1/2. Rolling skin, rust, coatings and foreign bodies are removed. Remaining traces of contaminations must only be detectable as slight stains or stripy shades.

801: Accident Prevention Regulations
The delivery item is subject to the requirements of the associated accident prevention regulations (UVV).
803: Execution of the Traverse
Execution of the traverse according to the accident prevention regulation VBG 9A.

902: ISO 9001
Actual values deviating from setpoint values must be approved by us with a special approval before shipment of the goods. The supplier/manufacturer undertakes to maintain a quality management system according to ISO 9001 in the respective latest version. We request handover of the certificate or in case of absence a description of the QM system. The supplier/manufacturer undertakes to provide Rheinmetall with a description of his QM measures after placement of the order. The basis of the description is the supplier self-assessment that is stored in our online supplier portal and must be completed by the supplier. If Rheinmetall already has a description of the QM system, this text does not apply. Rheinmetall agents have the right to convince themselves of the effectiveness of the quality management system at the supplier and his subcontractor (e.g. in the form of an audit).
The supplier also undertakes to agree on a suitable quality assurance (e.g. in the form of a DIN EN ISO) appropriate for the subcontractor item also with his subcontractors and to monitor these effectively.

903: ISO 9001 (exclusions are permitted)
Actual values deviating from setpoint values must be approved by us with a special approval before shipment of the goods. The supplier/manufacturer undertakes to maintain a quality management system according to ISO 9001 (exclusions permitted) in the respective current version. We request handover of the certificate or in case of absence a description of the QM system. The supplier/manufacturer undertakes to provide Rheinmetall with a description of its QM measures after placement of the order. The basis of the description is the supplier self-assessment that is stored in our online supplier portal and must be completed by the supplier.

905: AQAP 2110/2210 (development, design, production)
If relevant, the requirements of AQAP 2110 for development, design, production must be met. Relevant relevance, which claims apply in the course of commissioning, can be found in the corresponding order to the supplier. The requirements of AQAP 2110 for development, design, production must be met. If the order includes software development, the AQAP 2210 for software development must be met. We ask for handover of the certificate or in the case of absence for a description of the QM system. The supplier/manufacturer undertakes to provide Rheinmetall with a description of its QM measures after placement of the order. The basis of the description is the supplier self-assessment that is stored in our online supplier portal and must be completed by the supplier. If Rheinmetall already has a description of the QM system, this text does not apply. Rheinmetall agents and the main contractor or his representative (e.g. quality test service) have the right to convince themselves of the effectiveness of the quality management system and the contractual execution of the services during ongoing production at the supplier and his subcontractors. Actual values deviating from set-point values must be approved by us with a special approval before shipment of the goods.

Note: QSB 904 and 906 have been discontinued for the time being, since the AQAP 2120 and 2130 have been replaced by version D of the AQAP 2110 since September, 21\textsuperscript{st} of 2018. After consultation with - responsible departments, the new AQAP requirements are correspondingly detailed.
907: AQAP 2131 (final inspection)
Actual values deviating from set-point values must be approved by us with a special approval before shipment of the goods. The supplier/manufacturer undertakes to execute quality assurance measures in accordance with the provisions of the AQAP-2131 (NATO quality assurance requirements for final inspection) delivery item. The supplier/manufacturer undertakes to provide Rheinmetall with a description of his QM measures after placement of the order. The basis of the description is the supplier self-assessment that is stored in our online supplier portal and must be completed by the supplier. If Rheinmetall already has a description of the QM system, this text does not apply. Rheinmetall agents have the right to convince themselves of the effectiveness of the quality management system at the supplier and his subcontractors.