

API Specification

4F

3rd Edition, January 2008
Specification for Drilling and Well Servicing
Structures

Annex A

Supplementary Requirements

API Monogram® Required Yes No

Annex A (normative)

Supplementary Requirements

A.1 SR1—Low-temperature Testing

This supplementary requirement shall apply when specified by purchaser. In all cases, the purchaser and manufacturer shall agree upon the minimum design temperature and impact-test result requirements. Critical components shall be fabricated from materials possessing the specified notch toughness at the required minimum design temperature. Impact testing shall be performed in accordance with the requirements of ASTM A370.

If it is necessary for sub-size impact test pieces to be used, the acceptance criteria shall be multiplied by the appropriate adjustment factor listed in Table A.1. Sub-size test pieces of width less than 5 mm are not permitted.

Table A.1—Adjustment Factors for Sub-size Impact Specimens

Specimen Dimensions mm × mm	Adjustment Factor
10.0 × 7.5	0.833
10.0 × 5.0	0.667

Weldment qualification by impact testing shall be performed in accordance with Annex III of AWS D1.1-2002.

Products meeting this SR shall have their nameplate stamped with SR1 and with the design minimum temperature, in degrees Celsius. Impact value requirements for the various base metals shall be stated in the rig instructions.

A.2 SR2—Proof Load Test

The equipment shall be load-tested to a load agreed by the purchaser and manufacturer. After load testing, the equipment shall be visually examined in accordance with 11.3.2 of this standard.

The equipment shall have its nameplate stamped with SR2 and the ratio of load test to design load (load test/design load), e.g. SR2-1.0.

A.3 SR3—Data Book

If specified by the purchaser, records shall be prepared, gathered and properly collated in a data book by the manufacturer. The data book shall include for each unit at least:

- a) statement of compliance;
- b) equipment designation/serial number;
- c) assembly and critical-area drawings;
- d) nominal capacities and ratings;
- e) list of components;
- f) traceability codes and systems (marking on parts/records on file);
- g) steel grades;
- h) heat-treatment records;
- i) material test reports;
- j) NDE records;
- k) performance test records, including functional hydrostatic and load-testing certificates (when applicable);
- l) SR certificates as required;
- m) welding-procedure specifications and qualification records; and
- n) instructions.