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1.0 GENERAL

Specification 11B includes the following requirements for product ordered and may be applicable in addition to any product-specific requirements listed in other sections identified herein:

1.1 DOCUMENTATION REQUIREMENTS

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<th>Material Test Reports</th>
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<td>All</td>
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<td>Description of Requirements</td>
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Material test reports of materials used to manufacture products with traceability requirements shall include; the date of manufacture, mill heat number, chemical composition, hardness, yield strength, ultimate tensile strength, elongation and reduction in area, as applicable. These documents shall be maintained by the manufacturer for a period of at least five years. These records shall be provided to the end user as requested.

1.2 MARKING REQUIREMENTS

| Product: | See specific Product for marking requirements |

1.3 ORDERING REQUIREMENTS

| Product: | All |
| Description of Requirements | API Specification 11B – 5.0 |

To order products which conform to this specification, the user or purchaser may determine the applicable well and environmental operational conditions, specify the requirements and/or identify the supplier’s or manufacturer’s specific products.

Additional detailed ordering information can be found in Annex A through Annex H.

Requirements may be conveyed to the manufacturer by means of the manufacturer’s part number, data sheet, or other suitable documentation.
The following requirements may be specified as applicable:

a) required fluid volume or loads to be applied to the products;

b) material type and grade;

c) well depth, pump size, tubing size, or other mechanical well parameters;

d) well bore configuration (such as deviation, dog-legs, etc.);

e) produced fluid chemical and physical composition, including produced solids (sand production, scale, etc.), to which the products are exposed during their full life cycle;

f) the selected surface drive system;

g) pressure ratings, if applicable;

h) bottom hole static temperature and pressure;

i) planned chemical treatments;

j) bottom hole producing temperature and pressure.

1.4 SHIPPING REQUIREMENTS

Product: See specific Product for shipping requirements
2.0 PRODUCT

2.1 COUPLINGS

Product: Couplings

Product Description: API Specification 11B – Terms and Definitions 3.4

Internally threaded components used to connect sucker rods, sinker bars, pony rods, or polished rods from the surface to the subsurface pump where both threads are of the same size and type.

API Specification 11B – Annex C.2.2

Figure C.1—Sucker Rod Coupling, Polished Rod Coupling, and Sub-Coupling
2.1 COUPLINGS (continued)

Marking Requirement:  API Specification 11B – Annex C.7.1

d) Identification code. The code mark shall identify the product with respect to a record of the time of manufacture, grade of steel, heat number, and metallurgical treatment. This record shall be available to the user or purchaser on request for 5 years from date of manufacture.

Ordering Requirement:  API Specification 11B – Annex C.8

Suggestions for ordering couplings and sub-couplings are as follows:

a) class
b) type
c) size
d) quantity
# POLISHED RODS

**Product:** Polished Rods

**Product Description:** API Specification 11B – Terms and Definitions 3.19

Rod of standard length and diameter with a surface finish designed to facilitate a pressure seal in a stuffing box and to provide a mechanical link between equipment inside and outside the well.

**Marking Requirement:** API Specification 11B – Annex B.8.1

c) The manufacturer’s identification code mark: the identification code shall identify the product with respect to the record of the date of manufacture, type and grade of material, heat number, and metallurgical treatment if applicable. A record of this information shall be available to the user or purchaser on request for five years from date of manufacture.

**Ordering Requirement:** API Specification 11B – Annex B.9.1

Suggestions for ordering polished rods are as follows:

a) size (nominal outside diameter),
b) length,
c) end connections (nominal diameter of pin threads),
d) base material,
e) sprayed metal length if sprayed metal surface is chosen as an option, (length and location of sprayed metal surface),
f) quantity.
2.3  POLISHED ROD CLAMPS

Product: Polished Rod Clamps

Product Description: API Specification 11B – Terms and Definitions 3.20
Device attached to the polished rod, which in conjunction with the pumping unit carrier bar secures a polished rod to the surface pumping unit.

Suggestions for ordering polished rod clamps are as follows:
   a) polished rod size,
   b) load rating,
   c) quantity.

2.4  POLISHED ROD LINERS

Product: Polished Rod Liners

Product Description: API Specification 11B – Terms and Definitions 3.21
A hard, sprayed metal, thin walled tube that is installed over and seals against the polished rod and stuffing box internal seals.

Suggestions for ordering polished rod liners are as follows:
   a) size (outside diameter),
   b) length,
   c) quantity.

2.5  PONY RODS

Product: Pony Rods

Product Description: API Specification 11B – Terms and Definitions 3.22
Sucker rod of reduced length used to place the pump at the desired depth in the well.
(see also: FRP Sucker Rods and Steel Sucker Rods)
2.6 PUMPING TEES

Product: Pumping Tees

Product Description: API Specification 11B – Terms and Definitions 3.24

Tubing fitting assembled to the top of a pumping well and below a stuffing box, designed to discharge production fluids through a side opening connected to a flow line.

Marking Requirement: API Specification 11B – Annex H.4

d) Identification code: the code mark shall identify the product with respect to a record of the time of manufacture, grade of steel, heat number, and metallurgical treatment. Documentation of this record shall be available to the user or purchaser on request for five years from date of manufacture.


Suggestions for ordering pumping tees are as follows:

a) size and type of connections;

b) working pressure,

c) quantity
2.7 SINKER BARS

Product: Sinker Bars

Product Description: API Specification 11B – Terms and Definitions 3.26
A steel rod of a specified length, normally in a larger diameter than the sucker rods, provided in standard sizes with externally threaded ends provided to add weight and stability to the sucker rod string.

Marking Requirement: API Specification 11B – Annex E.6

c) The manufacturer’s identification code mark: the identification code shall identify the product with respect to the record of the date of manufacture, grade of steel, heat number, and metallurgical treatment. This record shall be available to the user or purchaser on request for five years from date of manufacture.

Ordering Requirement: API Specification 11B – Annex E.8

Suggestions for ordering sinker bars are as follows:

a) grade;

b) size (body diameter);

c) nominal pin size;

d) length;

e) quantity.
2.7 FRP (Fiber Reinforced Plastic) SUCKER RODS

Product: FRP (Fiber Reinforced Plastic) Sucker Rods and Pony Rods

Product Description: API Specification 11B – Terms and Definitions 3.8

Sucker rod typically manufactured in three pieces and assembled by a process that provides connection of two metal end fittings connected to a non-metallic fiber reinforced plastic rod.

API Specification 11B – Annex D.3.1.1

Ordering Requirement: API Specification 11B – Annex D.9

Suggestions for ordering FRP sucker rods and pony rods are as follows:

a) grade of end fittings;
b) nominal rod size (diameter);
c) connection nominal size;
d) length;
e) quantity;
f) packaging requirements.
2.9 STEEL SUCKER RODS

**Product:** Steel Sucker Rods & Pony Rods

**Product Description:**
API Specification 11B – 3.39

Steel or fiber reinforced plastic rod of standard length and diameter with externally threaded ends, typically used for transmitting mechanical power to the subsurface pump.

API Specification 11B – Annex A.2.2

**Marking Requirement:**
API Specification 11B – Annex A.11.2

The manufacturer’s identification code mark: the identification code shall identify the product with respect to the record of the date of manufacture, grade of steel, heat number, and metallurgical treatment. This record shall be available to the user or purchaser on request for five years from date of manufacture.
2.9 STEEL SUCKER RODS (continued)

Ordering Requirement: API Specification 11B – Annex A.12

Suggestions for ordering steel sucker rods and steel pony rods are as follows:

a) grade;
b) nominal size (body diameter),
c) length,
d) quantity
e) special packaging requirements, if required

2.10 STUFFING BOXES

Product: Stuffing Boxes

Product Description: API Specification 11B – Terms and Definitions 3.37

Device with accessory sealing elements used in conjunction with the polished rod to facilitate sealing of the well bore.

Marking Requirement: API Specification 11B – Annex G.4

d) Identification code: The code mark shall identify the product with respect to a record of the time of manufacture, grade of steel, heat number, and metallurgical treatment. This record shall be available to the user or purchaser on request for five years from date of manufacture.


Suggestions for ordering stuffing boxes are as follows:

a) size and type of thread connection;
b) working pressure;
c) quantity.
2.11 SUB-COUPLEINGS

Product: Sub-Couplings

Product Description: API Specification 11B – Terms and Definitions 3.38
Internally threaded components with polished rod threads used to connect polished rods, pony rods, sucker rods, or sinker bars, to the subsurface pump, or to each other, where both threads are not of the same size.

Marking Requirement: API Specification 11B – Annex C.7.1

d) Identification code. The code mark shall identify the product with respect to a record of the time of manufacture, grade of steel, heat number, and metallurgical treatment. This record shall be available to the user or purchaser on request for 5 years from date of manufacture.

Ordering Requirement: API Specification 11B – Annex C.8

Suggestions for ordering couplings and sub-couplings are as follows:

a) class
b) type
c) size
d) quantity