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Ballot #5856

SC8/TG3

API 8C - Item 9305 – Clarify Load Rating for Rotary Shouldered Connections as it pertains to Drill Stem and Non Drill Stem Loads

Amendments are in red text.

Add to Section 3 (Terms, Definitions, and Abbreviations):

3.1.XX

Rotary shouldered connection, RSC (API 7-1)

Connection used on drill stem elements, which has coarse, tapered threads and sealing shoulders.

3.1.XX

Drill stem assembly (API 7-1/API 5DP)

Typically consists of an upper and lower section that include Subs, Kelly valves, Drill pipe, Drill collar, and a Bit.

3.1.XX

Top Drive Hoisting load rating

Load rating for the axial tensile load applied to the top drive through the elevator link ears.

3.1.XX

RSC Hoisting load rating

Load rating for the Top Drive RSC when supporting Hoisting equipment (See 4.3.8.3/Figure 12, Image C).

Section 4 (Design):

4.3.8 Rotary Shouldered Connection (RSC)

4.3.8.1 Design Conditions

The following design conditions shall apply:

- a) API rotary shouldered connections (RSC) are exempt from design verification testing as described in 5.3.2
- b) The manufacturer shall provide a make-up torque range (API RP 7G).

4.3.8.2 Rotary Shouldered Connections supporting Drill stem assembly

Rotary shouldered connections (RSC) supporting a drill stem assembly shall be designed in accordance with API 7-1 and API 7-2, and therefore, do not require a load rating (See Figure 12, Image B).

4.3.8.3 Rating of Rotary Shouldered Connections supporting Hoisting equipment

API RSC Hoisting load rating shall be calculated as follows (See Figure 12, Image C).

Note: See Figure 1 for locations of tensile areas.

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Section 9 (Equipment):

9.9.5 Rotary Shouldered Connections

All rotary swivel and power swivel sub connections shall comply with the applicable requirements, including gauging and marking, as specified in API 7-1 and API 7-2. For rotary shouldered connection used in hoisting application see **4.3.8.3 (Figure 12, Image C)**.

Amend Section 9.19 Top Drives:

9.19 Top Drives

9.19.1 General

A top drive is a power swivel or a power sub, with integrated pipe handling and hoisting capabilities below the drive. **At a minimum, the pipe handler comprises a means to support the elevator links and a pipe gripper mechanism to assist in making and breaking connections.**

The requirements of 9.10 and 9.11 shall apply.

9.19.2 Marking

In addition to the markings specified in Section 10, load ratings of top drives shall be marked as follows:

- a) Top Drive Hoisting load rating**
- b) RSC Hoisting load rating**

EXAMPLE A Top Drive with a Top Drive Hoisting load rating of 1000 tons and an RSC Hoisting load rating of 674 tons. RSC Hoisting load rating is calculated per Section 4.3.8.3, shall be marked:

Top Drive Hoisting load rating: 1000 ton
RSC Hoisting load rating: 674 ton

Marking method shall comply with section 10.6 or marking shall be provided on a permanently attached nameplate.

Amend Figure 12-Rotary Shouldered Connections to the following:

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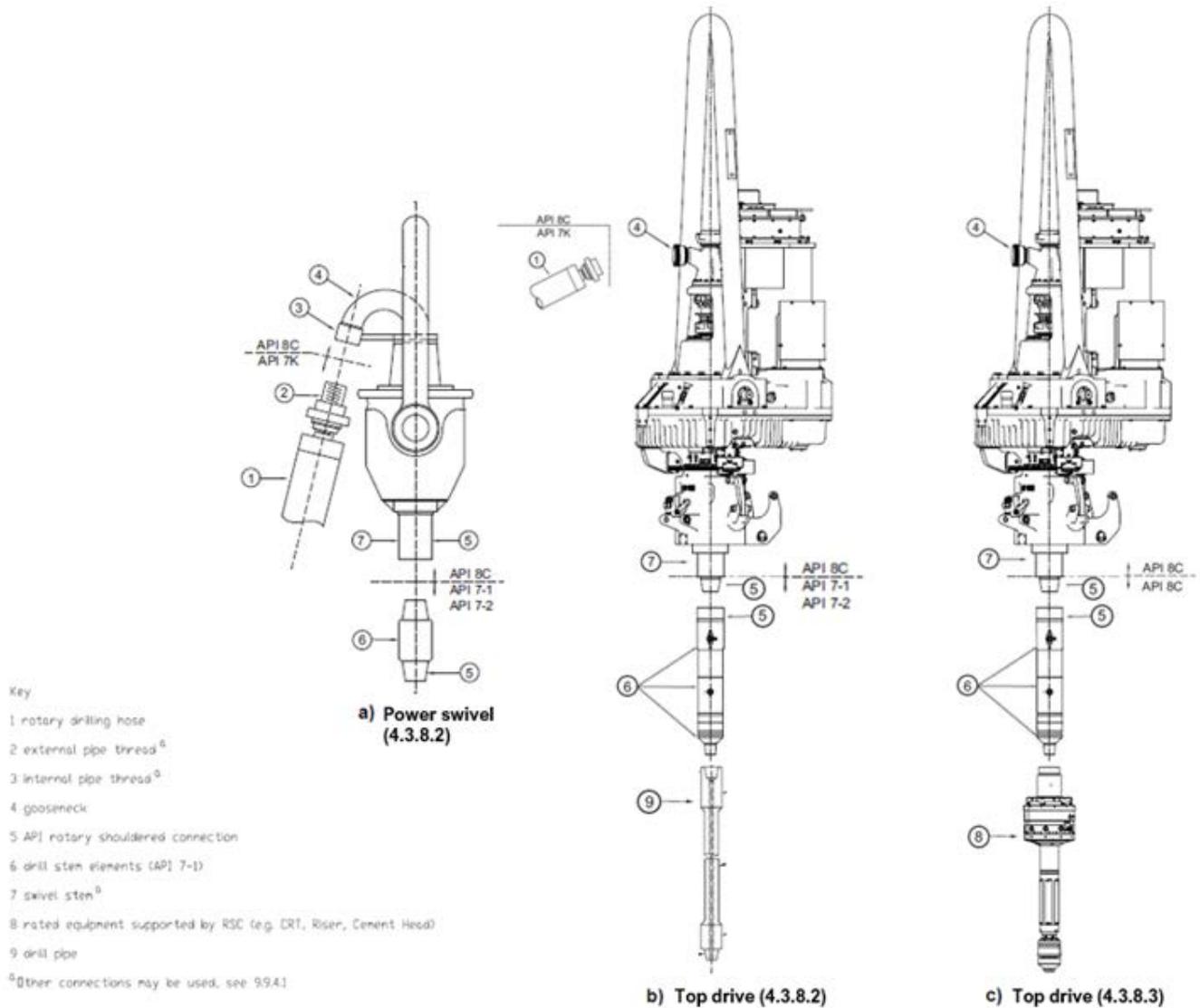


Figure 12-Rotary Shouldered Connection