

API Specification

16RCD

First Edition, February 2005
Specification for Drill Through Equipment—Rotating
Control Devices

Appendix F

Purchasing Guidelines

API Monogram[®] Required Yes No

Appendix F—Purchasing Guidelines for Rotating Control Devices

NOTE This appendix provides recommended guidelines for inquiry and purchase of API Spec 16RCD equipment.

F.1 Size Designation

The size designation consists of the vertical bore through the body, the bore through the bearing and the size of top, outlet and bottom flanges.

F.2 Service Conditions

F.2.1 Static Pressure Rating

The static pressure rating is determined by the lowest pressure rating of all integral end or outlet connections. Static pressure rating for API Spec 16RCD equipment are given in 4.2.1.

F.2.2 Temperature Rating

Minimum temperature is the lowest ambient temperature to which the equipment may be subjected. Maximum temperature is the highest temperature of the fluid which may flow through the equipment.

F.2.3 Metallic Materials

Metallic parts will be designed to operate in 1 of 3 temperature ratings, which should be designated by the purchaser. These ratings can be found in Table 1.

F.2.4 Wellbore Elastomeric Materials

The purchaser should provide the temperature range for which wellbore elastomeric materials must operate. These ratings can be found in 8.3.4.3.

F.2.5 All Other Elastomeric Seals

The purchaser should provide the temperature range for which all other elastomeric materials must operate.

F.3 Outlet Connections

The purchaser should determine the number, location, size, pressure, and temperature ratings for all outlet connections. It should be noted that the static pressure rating for the RCD or drilling spool is determined by the lowest pressure rating of all end or outlet connections.

F.4 Equipment Details/Data Book

Supply of a data book shall require a request by the purchaser and shall contain the following information:

- a) Purchase order number/sales order number.
- b) Product identification, type, part number, serial number.

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- c) Date of completion and inspection.
- d) Assembly drawings, actual overall package dimensions, pressure rating, end connection/outlet description, weight, center of gravity, material where used list.
- e) Manufacturer's statement of compliance to current edition of API Spec 16RCD.
- f) Material certificates.
- g) Welding procedure qualification.
- h) NDE reports.
- i) Pressure test reports.