

7068 ROTATING CONTROL DEVICE

FEATURES

- Compatible with rotary and top drive rigs
- Large, heavy-duty tapered roller bearings provide low-torque rotation and load support
- Sealing elements available in natural rubber, nitrile, butyl, and urethane to meet application requirements
- Low profile RCD with 17 gallon oiler

BENEFITS

- Improves rig safety by isolating the rig floor from potentially harmful wellbore fluids and gases during drilling operations
- One-piece combo sealing element provides convenience in changing elements and eliminates drive bushing with cap screws
- Simple and easy-to-maintain system

APPLICATIONS

- Divert drilling fluids and cuttings to solids control equipment
- Gas influx and annular containment of wellbore fluids

The 7068 ROTATING CONTROL DEVICE[†] (7068 RCD[†]) is the low pressure workhorse of the RCD fleet. It has an established reputation for dependability and ease of operation.



Compact Dependability

The compact design of this head (the “Shorty” is less than 25 inches tall) makes it ideal for use where substructure height is limited.

A 17 gallon low-pressure, non-circulating oiler system provides lubrication to the bearings. It is a simple, easy-to-maintain system that requires no electrical power and is energized by rig air supply.

Sealing Element Selection

Sealing elements are available in four different elastomer compounds: natural rubber, nitrile, butyl, and urethane, each of which has performance characteristics to meet application requirements. Combo sealing elements are available from 2½-in thru 5½-in drill pipe and 5-in thru 10¾-in casing. These sealing elements do not require mounting to a drive bushing, hence eliminating cap screws. Combo sealing elements are retrievable through a 17½-in rotary table.



Standard sealing element, secured to drive bushing with cap screws and locking wire, can strip tools up to 8¼-in OD.



7068 RCD low-pressure, one-piece combination sealing element combines drive bushing and sealing element to reduce replacement time and eliminate cap screws.



Low-pressure oiler energized by rig air supply.

7068 RCD Specifications

Rotating test pressure*	250 psi
Static test pressure*	750 psi
Maximum rotary speed	150 rpm
Assembly height	24¾ - 38 in
Maximum width of spool	32½ in
Sealing element mounting	One-piece or bolt-on
Maximum bearing assembly pass-through	13¾ in

7068 Spool Technical Data

Inlet Flange	Spool ID	Outlet Flange	Height
11 in 3,000 psi or 5,000 psi	11 in	7/16 in 2,000 psi	29¾ in
11 in 3,000 psi or 5,000 psi Shorty	11 in	7/16 in or 7-in threaded 2,000 psi	24¾ in
13¾ in 3,000 psi	13¾ in	7/16 in 2,000 psi	29¾ in
13¾ in 3,000 psi Shorty	13¾ in	7/16 in or 7-in threaded 2,000 psi	24¾ in
13¾ in 5,000 psi	13¾ in	9 in 2,000 psi	31¾ in

*Pressure ratings apply only to RCDs equipped with PolyPak seals.

Pressure ratings for the bearing and internal seals have been determined through in-house lab testing with a test plug installed. Due to the uncontrolled environment of well drilling operations, M-I SWACO, its operating units, agents, and affiliates make no warranty, either expressed or implied, on the pressure ratings contained herein. M-I SWACO does not, under any circumstances, recommend that its RCDs be used as primary blowout prevention equipment. Pressure ratings vary by sealing elements material and drill pipe size. Pressure ratings do not include sealing element. Contact M-I SWACO for application needs.

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