

ROTATING CONTROL DEVICE 3 (RCD 3)

FEATURES

- Installation on top of the blowout preventer (BOP)
- Sealed bearing assembly
- Complete equalization loop and remotely operated hydraulic valve
- Maximum static pressure of 3,000 psi and dynamic pressure of 1,000 psi at 100 rpm
- Compatible with rotary and top drive rigs

BENEFITS

- Compact design, manufactured to NACE
- Available as a stand-alone offering or as part of a managed pressure drilling or underbalanced drilling package

APPLICATIONS

- Managed pressure drilling (MPD)
- Underbalanced drilling (UBD)
- Pressurized mudcap drilling (PMCD)
- Annular containment of wellbore fluids

The ROTATING CONTROL DEVICE 3⁺ (RCD 3⁺) is a passive sealing device that offers more safety in diverting well returns—such as pressurized gas, fluids, and cuttings—to a surface separation system during MPD or UBD applications.



The RCD 3 is the most compact-designed RCD in the industry with a sealed bearing assembly. A complete equalization loop is included with the package along with a remotely operated hydraulic valve located on the 7/8-in side outlet. The rig crew can be trained to operate the RCD independently.

Special Features

Compact design allows for easy installation through most rotary tables without removing the master bushings. This RCD can be installed directly on top of the BOP or on an adapter spool if required.

The wear-resistant sealing element is manufactured from urethane. It uses wellhead pressure to form a positive seal on the drillstring during MPD, UBD, and mudcap operations. Depending on the application, all well returns are diverted through the side outlet of the body to either a choke manifold and surface recovery system or directly to the rig shakers.

The RCD 3 is available in 11-in and 13-in inlet flange configurations.

RCD 3 Specifications	
Static test pressure	3,000 psi
Dynamic test pressure	1,500 psi at 80 rpm 1,000 psi at 100 rpm
Assembly height	40½ in to 44½ in
Maximum bearing assembly pass-through	
Bearing removed	7⅞ in; 11 in; 13⅝ in
Bearing installed	7⅞ in
Side flange	7⅞ in; 3,000 psi 4⅞ in; 3,000 psi 2⅞ in; 5,000 psi
Bottom flange	7⅞ in; 5,000 psi 11 in; 5,000 psi or 10,000 psi 13⅝ in; 5,000 psi or 10,000 psi

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. Contact M-I SWACO for application needs.



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P.O. Box 42842
Houston, Texas 77242-2842
www.miswaco.slb.com
Email: questions@miswaco.slb.com