



Consolidated Rig Works  
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# ROTARY SWIVEL

## Specifications

- 6X #8 SAE-ORB Work Ports rated for 1,800 psi
  - Maximum of three (3) energized ports at a time
- 4X #10 SAE-ORB Drain Ports
- 11.125" Thru Bore
- 120 rpm
- 360° Continuous Rotation
- 460,000 lb. Axial Load Rating
- 22,000 ft-lb. Rotary Load Rating
- Lower mounting, 6x 1.313 thru holes on a 23.125" Bolt Circle
- Upper mounting, 6x 1¼-7UNC threaded holes on a 20.50" Bolt Circle
- 24" Tall, 25.125" Flange OD



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The Consolidated Rig Works rotary swivel, 102305-SR, is a 6-port hydraulic rotary union capable of continuous rotation at 120 rpm. All work ports are #8 SAE-ORB and are rated for 1,800 psi each. The swivel is intended to be used to operate three (3) circuits so that no more than three (3) ports are energized at any one time. The swivel has an 11.125" thru bore, and is designed to be installed between the powered rotary and the traveling slip bowls of a snubbing jack. The swivel is designed for an axial loading (tension or compression) of 460,000 lbs. while under a maximum torsional load of 22,000 ft-lb. The rotary swivel eliminates the need to disconnect the hydraulic control hoses of traveling slip bowls, hydraulic milling clamps, or any piece of hydraulically powered equipment that is above rotation during the operation of a snubbing jack.

The swivel has four #10 SAE-ORB drain ports that must be plumbed directly to the hydraulic system reservoir with no restrictions. Failure to connect the drains to the hydraulic reservoir will result in damage to the swivel. The reservoir must be located below the elevation of the

swivel. The swivel drains have a maximum combined leakage rate of 10 gpm during operation. Due to this leakage, a swivel supply override system is supplied with the swivel to interrupt the hydraulic supply to the slip control valve in the event that the rig pilot pressure drops below 200 psi. In the absence of rig pilot pressure, the override valve must be actuated in order to operate the slip bowls.

## Notes:

1. CRW can offer snubbing swivels in various configurations (i.e., any combination of 2, 4, or 6 ports with 7.06", 11.13", or 13.63" thru bore). Please contact CRW with your specific needs.
2. CRW's rotary swivel was designed to be mounted on CRW rotaries and provisions will need to be made to adapt it to a customers' current equipment.