



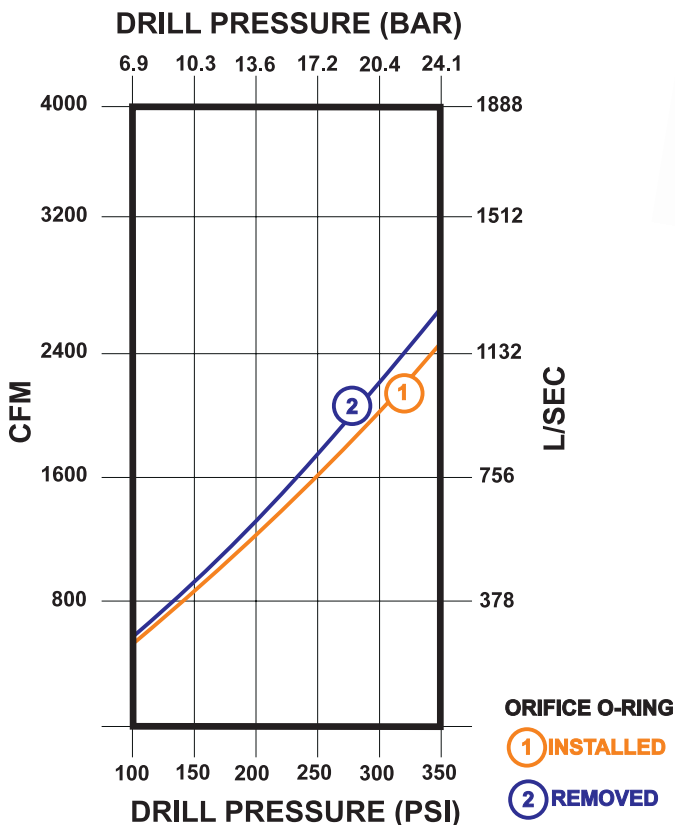
# Challenger<sup>®</sup> RC100

## Down Hole Hammer

### FEATURES

- Valveless down hole hammer design
- Ability to drill efficiently against high heads of water
- Designed to operate at pressures up to 250 PSI (17.0 BAR)
- Reversible non-ported piston case for extended life
- Superior directional stability in horizontal applications
- Ejecting cuttings through the collection tube eliminates traditional hole cleaning problems
- Environmentally sensitive - no foam required for hole cleaning and lubricants are not free to contaminate the formation
- Typical vertical and horizontal applications include: caissons, piles/rock sockets, tunneling under roads, foundation drilling and other jobs where large volume rock excavation is required

### AIR CONSUMPTION



### SPECIFICATIONS

Diameter	9-1/2"	241 mm
Bore	8-1/4"	210 mm
Stroke	4"	102 mm
Weight (Hammer only)	777 lbs.	353 kg
Length (Shoulder to Shoulder)	60"	152 cm
Length (Shoulder to Bit Face)	69"	175 cm
A.P.I. Reg. Threads	7-5/8 Box Modified	

- 1250 blows per minute at 250 PSI (17.0 BAR)
- Drills holes from 10" to 15" (254 mm - 381 mm) in diameter
- Accepts RC100 bit shank



# Down Hole Button Bits

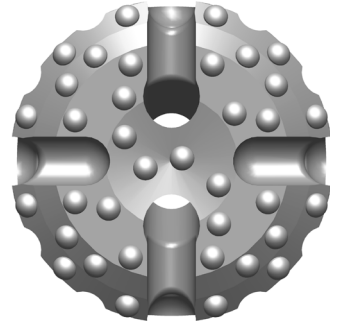
## Challenger® RC100



RC100 Bit Shank

DIAMETER		WEIGHT*	
inches (millimeters)		pounds (kilograms)	
10"	(254 mm)	255 lbs.	(116 kg)
11"	(279 mm)	295 lbs.	(134 kg)
12"	(305 mm)	345 lbs.	(157 kg)
13"	(330 mm)	415 lbs.	(188 kg)
14"	(356 mm)	466 lbs.	(211 kg)
15"	(381 mm)	525 lbs.	(238 kg)

## FACES AVAILABLE



Concave

\* Bit weights are approximate

## FEATURES

- Significantly larger spline area for exceptional strength and transfer of torque
- Air is exhausted at the bit face to minimize contamination
- Long bit skirt for extended life and minimal blow by
- Carbide buttons positioned for better fracture of rock providing faster penetration rates
- Plate drive system for increased spline life
- Several grades and types of carbide are available
- Other bit sizes may be available upon request

### For More Information Contact:

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