

# PATRIOT

## Technical Datasheet

### 24" LDP515CG

609.6 mm  
Assembly #R10227  
IADC 515



#### Application

PATRIOT series bits provide excellent steerability and high rates of penetration, even when weight on bit is limited. The bearing provides long, reliable performance in deep hole, long reach sections where high RPMs in motor applications are commonly encountered.

#### Product Specifications

Gage Inserts:	90
Total Inserts:	335
Heel Row:	Flat
Gage Row:	Gage Chisel
Inner Row:	Chisel
Bearing Type:	Sealed Roller
Bearing Seal Type:	HSN O-Ring
Fluid Circulation:	3 Nozzles with Snap Rings
Nozzle Part No.:	10735
Center Jet Part No.:	10735
Pin Connection:	7 5/8 in API Regular
Approx. Weight:	1625 lbs (738.6 kg)

#### Operating Parameters

Rotary Speed:	For all rotary and motor applications
Flowrate Min-Max:	720-1200 gpm (2.73-4.54 m <sup>3</sup> /min)
Max WOB:	108,000 lbs (48041 daN)
Make-up Torque:	34000-40000 Ft-Lbs (46098-54233 Nm)

\*Operating parameters shown are typical for the bit type specified. For recommendations on your specific application, contact your Varel Energy Solutions representative.

#### Features

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A combination of shirttail hardfacing and tungsten carbide inserts on the leg to provide protection to the bit and bearing.



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