

# **DYNOMAX**

## **REGULATOR™**

### **THE CHALLENGE**

Today's drilling applications are becoming more challenging with deeper, longer and more complex wells being drilled faster than ever before. One challenge is keeping the hole clean while drilling, which is achieved with higher flow rates. These flow rates are limited by the power sections on the motors and quite often lead to premature failure due to over-pumping.

### **THE ANSWER**

The Regulator™ employs a variable size exit orifice to actively moderate the flow that goes through the motor continuously – extra fluid is vented out the side. The exit orifice is controlled by a valve that measures the flow entering the motor. The valve mechanism responds in milliseconds so that flow to the motor is always regulated.

### **BENEFITS**

- reduce stator failures due to over pumping
- utilize optimal performance of the power section in motors
- reduce washing out of components in the motor
- no need to drop balls or darts for activation
- motor stalls are still visible at surface
- applicable not only conventional drilling, but also coil tubing, and completion operations

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DynoMax supplies leading performance drilling products engineered for the oil and gas industry. We provide high value products and services for vertical, directional and horizontal drilling operations worldwide.

Our product lines include Mud Motors, Shock Tools, Drilling Jars and Slide Reamers, which bear our industry-leading technologies backed by experience in the field—tools that are built for extended uses. Our QA/QC Processes ensure that every tool meets or exceeds expectations in the field.

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**DYNOMAX**  
DRILLING  
TOOLS INC.

**AVAILABLE SIZES AND SPECIFICATIONS ON REVERSE SIDE**

# DYNOMAX REGULATOR™

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DRILLING  
TOOLS INC.

## SPECIFICATIONS



	<b>2.125"</b>	<b>2.875"</b>
<b>TOOL OD</b>	2.125 in (54 mm)	2.875 in (73 mm)
<b>OVERALL LENGTH</b>	43.5 in (1105 mm)	35.0 in (889 mm)
<b>PIN ID</b>	1 in (25 mm)	1.13 in (29 mm)
<b>MOTOR FLOW RATE SETTING RATE (MIN/ MAX)</b>	30 gpm / 100 gpm (115 / 380 lpm)	21 / 158 gpm (80 / 600 lpm)
<b>MAX. PUMP RATE</b>	100 gpm (0.4 m <sup>3</sup> /min)	315 gpm (1.2 m <sup>3</sup> /min)
<b>MAX. OVERPULL</b>	150,000 lbs (66,720 daN)	150,000 lbs (66,720 daN)
<b>MAX. TORQUE</b>	1,700 ft-lbs (2,305 Nm)	2,000 ft-lbs (2,712 Nm)
<b>CONNECTION</b>	1-1/2 MT	2-3/8 PAC

	<b>4.750"</b>	<b>6.500"</b>
<b>TOOL OD</b>	4.75 in (121mm)	6.50 in (165mm)
<b>OVERALL LENGTH</b>	43 in (1092 mm)	45 in (1143 mm)
<b>PIN ID</b>	2.75 in (70mm)	2.89 in (73mm)
<b>MOTOR FLOW RATE SETTING RATE (MIN/ MAX)</b>	100 / 465 gpm (380 / 1760 lpm)	200 / 800 gpm (760 / 3030 lpm)
<b>MAX. PUMP RATE</b>	630 gpm (2.4 m <sup>3</sup> /min)	920 gpm (3.5 m <sup>3</sup> /min)
<b>MAX. OVERPULL</b>	750,000 lbs (333,600 daN)	1,500,000 lbs (667,200 daN)
<b>MAX. TORQUE</b>	11,000 ft-lbs (14,914 Nm)	24,000 ft-lbs (32,539 Nm)
<b>CONNECTION</b>	3-1/2 IF	4-1/2 XH

## CORPORATE

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DynoMax Corporate Head Office  
is proud to be  
ISO 9001 Quality Certified.