

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

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.



DYNOMAX
DRILLING
TOOLS INC.

DYNOMAX REGULATOR™

SPECIFICATIONS



	2.125"	2.875"
TOOL OD	2.125 in (54 mm)	2.875 in (73 mm)
OVERALL LENGTH	43.5 in (1105 mm)	43 in (1114 mm)
PIN ID	1 in (25 mm)	1.38 in (35 mm)
THRU FLOW RATE (MIN/MAX)	30 gpm / 135 gpm (110 / 510 lpm)	70 / 250 gpm (260 / 950 lpm)
MAX. BYPASS RATE*	95 gpm (360 lpm)	95 gpm (360 lpm)
ABSOLUTE OVERPULL	122,000 lbs (54,300 daN)	213,000 lbs (94,700 daN)
ABSOLUTE TORQUE	1,700 ft-lbs (2,300 Nm)	3,800 ft-lbs (5,200 Nm)
CONNECTION**	1-1/2 MT (REG)	2-3/8 PAC

	3.125"	4.750"
TOOL OD	3.125 in (79 mm)	4.75 in (121 mm)
OVERALL LENGTH	43 in (1114 mm)	40 in (1016 mm)
PIN ID	1.38 in (35 mm)	2.50 in (64 mm)
THRU FLOW RATE (MIN/MAX)	70 / 250 gpm (260 / 950 lpm)	200 / 550 gpm (760 / 2080 lpm)
MAX. BYPASS RATE*	95 gpm (360 lpm)	150 gpm (570 lpm)
ABSOLUTE OVERPULL	213,000 lbs (94,700 daN)	663,000 lbs (294,900 daN)
ABSOLUTE TORQUE	3,900 ft-lbs (5,300 Nm)	16,300 ft-lbs (22,100 Nm)
CONNECTION**	2-3/8 REG	3-1/2 IF

	6.500"	6.750"
TOOL OD	6.50 in (165 mm)	6.75 in (171 mm)
OVERALL LENGTH	45 in (1143 mm)	45 in (1143 mm)
PIN ID	2.89 in (73 mm)	2.89 in (73mm)
THRU FLOW RATE (MIN/MAX)	225 / 650 gpm (850 / 2460 lpm)	225 / 650 gpm (850 / 2460 lpm)
MAX. BYPASS RATE*	200 gpm (760 lpm)	200 gpm (760 lpm)
ABSOLUTE OVERPULL	1,209,000 lbs (537,800 daN)	1,476,000 lbs (656,000 daN)
ABSOLUTE TORQUE	38,900 ft-lbs (52,700 Nm)	46,600 ft-lbs (63,200 Nm)
CONNECTION**	4-1/2 XH	4-1/2 IF

*HIGHER BYPASS RATES ARE POSSIBLE BUT MAY DAMAGE WELLBORE DUE TO EXCESSIVE FLUID VELOCITY.
**ALTERNATE CONNECTIONS AVAILABLE UPON REQUEST.

CORPORATE

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