

TDS Extended Reach Tool

Operational Methods of Creating Vibrational Frequency

- The TDS Extended Reach Tool generates imbalanced rotational frequency generated and controlled by an Internal Eccentric Drive Sub placed on the patented TDS Jet Motor connected to a Flex Joint Ported Sub Housing.
- The tool's internal frequency is then transmitted to the other housing creating a motion that pushes or pulls the string. The more free string available also contributes to the magnitude of Oscillation affects.

TDS Extended Reach Tool Component & Operational Data

- The Top Ported Sub (Item 1) distributes fluid and pressure up to volume required by the customer's hydraulic specifications. Up to 40 GPM is distributed to the Power Section (Item 2) through to Extended Reach Tools Eccentric Sub (Item 3) which rotationally energizes and generates a controlled frequency per rotation.
- All Fluid not required to operate the (Item 2) Power Section is circulated by and through to the Lower Sub (Item 4) along with fluid from the Eccentric Sub Nozzle (Item 5). (GPM and Pressures setup are standard 3 barrels and 500 – 1500 PSI pressure drop. Other Hydraulic Requirements and frequency can be adjusted to customers' requests).

O.D. SIZE	STANDARD CONNECTION	LENGTH INCHES	WEIGHT (LBS)	FLOW RATE GPM/LITRE	TEMPERATURE ° F	OPERATION PRESSURE DROP	MAX PULL
2.125	1-1/2" AMMT	22"	14 LBS	40-120 GPM	450	300 – 1000 PSI	55,000
2.875	2-3/8" PAC	35"	35 LBS	40-120 GPM	450	300 – 1000 PSI	75,000
2.875	2-3/8" PAC	66"	70 LBS	40-120 GPM	450	300 – 1000 PSI	75,000
3.125	2-3/8" REG	37"	45 LBS	40-120 GPM	450	300 – 1000 PSI	82,500



2.125" TDS Extended Reach Tool	2.875" TDS Extended Reach Tool	2.875" TDS Extreme Extended Reach Tool	3.125" TDS Extended Reach Tool
PSI	PSI	PSI	PSI
100 PSI	100 PSI	100 PSI	100 PSI
200 PSI	200 PSI	200 PSI	200 PSI
300 PSI	300 PSI	300 PSI	300 PSI
400 PSI	400 PSI	400 PSI	400 PSI
500 PSI	500 PSI	500 PSI	500 PSI
600 PSI	600 PSI	600 PSI	600 PSI
GPM/LITRE	GPM/LITRE	GPM/LITRE	GPM/LITRE
40 GPM / 151 LITRE	40 GPM / 151 LITRE	40 GPM / 151 LITRE	40 GPM / 151 LITRE
60 GPM / 227 LITRE	60 GPM / 227 LITRE	60 GPM / 227 LITRE	60 GPM / 227 LITRE
80 GPM / 303 LITRE	80 GPM / 303 LITRE	80 GPM / 303 LITRE	80 GPM / 303 LITRE
100 GPM / 379 LITRE	100 GPM / 379 LITRE	100 GPM / 379 LITRE	100 GPM / 379 LITRE
100 GPM / 379 LITRE	100 GPM / 379 LITRE	100 GPM / 379 LITRE	100 GPM / 379 LITRE
120 GPM / 454 LITRE	120 GPM / 454 LITRE	120 GPM / 454 LITRE	120 GPM / 454 LITRE
FREQUENCY HZ	FREQUENCY HZ	FREQUENCY HZ	FREQUENCY HZ
6.75 HZ	9 HZ	13.5 HZ	9.90 HZ
9 HZ	12 HZ	18 HZ	13.20 HZ
11.25 HZ	15 HZ	22.5 HZ	16.50 HZ
15 HZ	20 HZ	30 HZ	22 HZ
18 HZ	24 HZ	34 HZ	26.40 HZ
25.50 HZ	34 HZ	51 HZ	37.40 HZ

