LEE OILFIELD SERVICE LTD.

COMPOUNDER

TOOL SIZE		CONNECTION	PULL TO FULLY OPEN	MAXIMUM PULL AFTER FULLY OPEN	TOTAL STROKE	DRILL COLLAR WEIGHT		MAXIMUM TORQUE	BODY JOINT TORQUE
OD	ID					MIN.	MAX.		
2-7/8"	1"	2-3/8" PAC	22,000 lbs	170,000 lbs	10"	1,800 lbs	3,600 lbs	4,000 ft/lbs	2,400 ft/lbs
73.02 mm	25.40 mm		9,786 daN	75,616 daN	254.00 mm	801 daN	1,601 daN	5,420 Nm	3,252 Nm
3-1/8"	1"	2-3/8" REG	30,000 lbs	176,000 lbs	10"	2,000 lbs	4,000 lbs	4,900 ft/lbs	3,700 ft/lbs
79.37 mm	25.40 mm		13,344 daN	78,285 daN	254.00 mm	890 daN	1,779 daN	6,640 Nm	5,014 Nm
3-3/4"	1-1/4"	2-3/8" IF	37,500 lbs	300,000 lbs	10"	4,000 lbs	6,000 lbs	9,200 ft/lbs	5,500 ft/lbs
95.25 mm	31.75 mm		16,680 daN	133,440 daN	254.00 mm	1,779 daN	2,669 daN	12,466 Nm	7,453 Nm
4-3/4"	2"	3-1/2" IF	55,000 lbs	470,000 lbs	10"	5,000 lbs	8,000 lbs	19,000 ft/lbs	11,400 ft/lbs
120.65 mm	50.80 mm		24,464 daN	209,056 daN	254.00 mm	2,224 daN	3,558 daN	25,745 Nm	15,447 Nm
5-1/4"	2-1/4"	4" FH	74,500 lbs	600,000 lbs	10"	10,000 lbs	14,000 lbs	26,000 ft/lbs	15,000 ft/lbs
133.35 mm	57.15 mm		33,138 daN	266,880 daN	254.00 mm	4,448 daN	6,227 daN	35,230 Nm	20,325 Nm
6-1/4"	2-1/4"	4-1/2" XH	107,000 lbs	828,000 lbs	10"	12,000 lbs	16,000 lbs	33,000 ft/lbs	20,000 ft/lbs
158.75 mm	57.15 mm		47,594 daN	368,294 daN	254.00 mm	5,338 daN	7,117 daN	44,715 Nm	27,100 Nm
6-3/4"	2-1/2"	4-1/2" IF	149,000 lbs	1,063,000 lbs	10"	15,000 lbs	18,000 lbs	47,800 ft/lbs	28,700 ft/lbs
171.45 mm	63.50 mm		66,275 daN	472,822 daN	254.00 mm	6,672 daN	8,006 daN	64,769 Nm	38,889 Nm
8"	2-3/4"	6-5/8" REG	175,000 lbs	1,200,000 lbs	12"	17,000 lbs	20,000 lbs	68,700 ft/lbs	41,240 ft/lbs
203.20 mm	69.85 mm		77,840 daN	533,760 daN	304.80 mm	7,562 daN	8,896 daN	93,089 Nm	55,880 Nm
9"	2-3/4"	7" H90	203,450 lbs	1,800,000 lbs	10"	18,000 lbs	22,000 lbs	105,800 ft/lbs	63,500 ft/lbs
228.60 mm	69.85 mm		90,495 daN	800,640 daN	254.00 mm	8,006 daN	9,786 daN	143,359 Nm	86,043 Nm

NOTE: All specifications are accurate within 15%. Other sizes available upon request.

The Lee Oilfield Service Ltd. Compounder is designed with a patented multi-chamber system that facilitates lower internal working pressures which provides longer jarring periods. The compounder should be used with the Lee type hydraulic jars which can withstand the higher impact forces created by the compounder.

Jarring effectiveness is determined by how rapidly you can impact weight into the jars. When jarring without a compounder you rely only on pipe stretch to lift the drill collars upwards after the jar releases to create the upwards impact in the jar. This accelerated upward movement will often be reduced by the friction of the working string along the sides of the well bore, reducing the speed of upwards movement of the drill collars which impact into the jar. At shallow depths jar impact is not achieved because of lack of pipe stretch in the working string.

The Lee Oilfield compounder is energized when you over pull on the working string and compress a compressible fluid through a distance of 10" to 12" of stroke and at the same time activating the fishing jar. When the fishing jar releases the stored energy in the compounder, it lifts the drill collars upwards at a high rate of speed creating a high impact in the jar.

When running the Lee Oilfield compounder it is recom- mended you place jars on bottom, pick up 3 to 6 drill collars and place the compounder on top of the drill collars. It is not necessary or recommended that any more drill collars be run on top of the compounder.

It should be noticed that when jarring with a compounder the surface action is greatly reduced or in most cases eliminated entirely. This is because all the jarring action is taking place between the compounder and the fishing jar.

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