

## MECHANICAL-HYDRAULIC SHOCK ABSORBER



JQ-JY mechanical-hydraulic shock absorber is a new type double acting shock absorber, it absorbs jumping and shaking of drilling tools through compressed energy storage from two kinds of damping elastic elements which are disc spring and silicone oil, it has advantages of good maintainability, high load resistance and long service life etc. It can suit to different formation and provide the best protection for drill bits and drilling tools, and High temperature products (180°C) can also be provided according to user's requirement.

### Technical Specification

Model		JQ-JY121	JQ-JY159	JQ-JY178	JQ-JY203
OD	mm (inch)	121 (4-3/4)	159 (6-1/4)	178 (7)	203 (8)
ID	mm (inch)	38 (1-1/2)	50.8 (2)	57 (2-1/4)	71.4 (2-13/16)
Tool Joint Connection	API	NC38	NC50	NC50	6-5/8 REG
Max. Tensile Load	KN (lbf)	1100 (247,000)	1500 (337,000)	1500 (337,000)	2000 (450,000)
Tensile Yield	KN (lbf)	1950 (438,000)	2000 (450,000)	2500 (562,000)	3500 (790,000)
Torsional Limited	KN-m (lbf-ft)	10 (7000)	15 (11,000)	15 (11,000)	20 (14,000)
Torsional Yield	KN-m (lbf-ft)	15 (11,000)	20 (14,000)	25 (18,000)	35 (25,000)
Max. Pressure	KN (lbf)	300 (67,500)	450 (100,000)	450 (100,000)	550 (123,700)
Max. Stroke	mm (inch)	100 (3-15/16)	120 (4-3/4)	120 (4-3/4)	140 (5-1/2)
Overall Length	mm (ft)	4185 (13.7)	4224 (13.9)	4287 (14.1)	4856 (15.9)

