



Oil Tools

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HYDRAULIC UP-DOWN INTENSIFIERS



The Hydraulic Up-Down Intensifiers is a double acting accelerator used to increase the impact effect of the Hydraulic Up/Down Jars. The Intensifiers stores concentrated energy in an optimal position in the Jar string. It helps to absorb impact shock waves that travel up the drill pipe allowing the drill string to be utilized closer to their yield loads. This permits higher pull loads to be placed on the hydraulic drilling jars. The Intensifiers provides the operator the ability to perform impact operation at or near the surface. The compressibility provides the necessary “stretch” to operate the Jarring equipment. The Intensifiers supplies drive for the concentrated weights in the jars string in the same manner as the long resilient drill string. It is an efficient reservoir for storing energy since its stretch is confined to a short tool length. The increased efficiency and stretch provides a much harder hitting Jar system and increases the impact up to approximately a factor of three and can impact at much higher impacts depending on conditions. It will work on any drill string and provides a means to get higher impact load in a crooked or extended reach well, where drag is a significant factor. The Intensifiers /Jar system should be placed as close to the stuck point as possible. The impact effect diminishes as the distance increases between the intensifiers and the Jar and the stuck point.

DESIGN FEATURES/BENEFITS

- ▶ Higher intensifiers capability, it can hit harder than any other jar/ Intensifiers of the same size.
- ▶ Maximum operating temperature 500°F.
- ▶ Large bore for drop ball.
- ▶ Intensifiers have high tensile strength for higher impact service capability.
- ▶ Intensifiers can be run in compression or tension.

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SERVA Specification Guide Hydraulic Up-Down Intensifiers

Max OD (in)	Min ID (in)	Max Detent Working Load (n)	Max Lift Load After Jarring (lbs)	Tensile Strength (lbs)	Free Stroke-Up (in)	Thread	Part Number
1.687	0.560	33,360	50,000	70,500	5	1"AMMT	2194168122
2.125	0.750	44,480	100,000	135,000	5	1.5"AMMT	2194212122
2.875	1.000	115,650	200,000	250,000	7 5/8	2 3/8"PAC	2194287122

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