EVOLUTION
ARTIFICIAL LIFT

Eccentric Intake

The Evolution **Eccentric Intake** is a cutting-edge solution designed specifically for horizontal wells where gas flow is present. It provides a superior alternative to open-end tubing and traditional gas separators, ensuring efficient separation of gas and fluid.

Key Features

- **Optimal for Horizontal Wells:** Designed to be used at deviations of 60 to 90 degrees, making it ideal for horizontal applications.
- **Efficient Gas Separation:** The internal mechanism automatically orients to allow production fluid to flow through the outlet while gas migrates back into the annulus.
- **Minimized Flow Path:** Positioned below the pumping system to reduce the distance between the outlet and the pump inlet, enhancing efficiency.
- **Large Flow Ports:** Ensures maximum flow area, reducing pressure drop.
- **Durable Design:** Features a closed bottom end to prevent bottom flow entry and a brass wear bushing with a centralizing pin for smooth internal rotation.

Benefits

- **Increased Production Efficiency:** By ensuring optimal separation of gas and fluid, the Eccentric Intake reduces the risk of gas locking and enhances pump performance.
- **Reduced Maintenance:** Its robust design and efficient orientation minimize wear and tear, extending the life of your equipment.

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Eccentric Intake Specifications											
Assembly Number	**Tool Size**	**Tool Length**	**Throat I.D.**	**Tubing I.D.**	**Throat Area**	**Slot c/s Area**	**Outer Casing Slot Area**	**Tubing c/s Area**	**Slot / Throat c/s Area Ratio**	**Tubing / Throat c/s Area Ratio**	**Slot / Tubing c/s Area Ratio**
	in *mm*	**ft** *m*	**in** *mm*	**in** *mm*	**in²** *cm²*	**in²** *cm²*	**in²** *cm²*	**in²** *cm²*			
203078	3.75 OD x 2-7/8 EUE *95.3 OD x 73.0 EUE*	4.0	2.0	2.441 *62.0*	3.14 *20.3*	23.97 *154.6*	84.22 *543.3*	4.68 *30.2*	7.63	1.49	5.12
202212	4.00 OD x 3-1/2 EUE *101.6 OD x 88.9 EUE*	*1.22*	*50.8*	2.992 *76.0*	3.14 *20.3*	23.97 *154.6*	84.22 *543.3*	7.03 *45.4*		2.24	0.00
202730	4.50 OD x 3-1/2 EUE *114.3 OD x 88.9 EUE*										

- The intake slot of our tools are more than sufficient for the separation to occur without affecting the production rate of the oil well.
- The ratio of the slot with the tubing area shows that the flow capacity available for the separation is almost 3 to 10 times more than what can pass through the tubing.
- Nickel plated assemblies are available upon request.

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