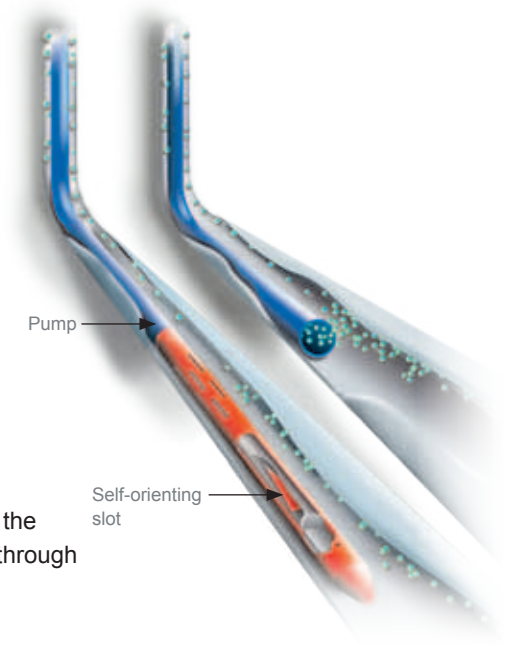
Horizontal Downhole Gas Separator



The horizontal downhole gas separator is designed with a self-orientating slot that enables the pump to draw fluid from the bottom of a horizontal wellbore. Outer slots located around the shell allow oil to enter the gas separator and flow down into the self-orienting inner slot.

The heavier, less-gaseous fluid at the bottom of the wellbore is drawn into the gas separator's inner slot and then enters the pump intake. The lighter, gaseous oil remains at the top of the wellbore, away from the pump intake. This enables the free gas to be separated and handled through to the tubing-casing annulus.

Applications

- Progressing cavity and reciprocating pump applications in horizontal and deviated wells at landing angles >45°

Features, Advantages and Benefits

- Self-orientating slot withdraws fluid from the bottom of horizontal wellbores, minimizing gas entry into the pump.
- Improved pump efficiency enables lower operating speeds, longer run life, and optimal well production.

Specifications

Style (ft x in.)	OD (in./*mm*)	Length (in./*mm*)	Connector	Minimum Flow Area (in.^{2}/*cm*^{2})
3-1/2 x 3 OD	3 *76.2*	42 *1,066.8*	2 3/8-in. EUE pin	1.7 *11.0*
4 x 3-3/4 OD	3-3/4 *95.25*	48-1/4 *1,225.6*	2 7/8-in. EUE box	3.1 *20.0*
4 x 4-1/2 OD	4-1/2 *114.3*	49-3/4 *1,263.7*	3 1/2-in. EUE pin	3.1 *20.0*
7 x 6 OD	6 *152.4*	80 *2,032.0*	4 1/2-in. EUE pin	9.6 *61.9*

 6535.00