ISO-Flow NE Screen

Weatherford's ISO-Flow NE screen offers an innovative way of isolating perforations without any major changes in standard job procedures or the addition of rig time. The ISO-Flow NE screen is constructed using Weatherford's premium nonelastomeric OptiSleeve-D sliding sleeve and nonperforated base pipe. The sliding sleeve and base pipe subassembly are placed inside a jacket of Super-Weld® screen to create the ISO-Flow NE screen, providing both effective sand control and selective production, injection, or isolation of the perforated interval.

For wells that are fluid sensitive or have extremely low bottomhole pressure, the ISO-Flow NE screen can prevent fluid loss after the gravel pack by closing the sleeve. After a circulating gravel pack is performed, the shifting tool installed on the washpipe closes the sleeve as the crossover tool is pulled from the well. During production operations, the OptiSleeve-D sleeve is opened or closed on slickline with a standard B-type shifting tool.

For wells with multiple zones, individual zones can be produced or shut-in as reservoir or market conditions warrant. In gravel packing, a long, horizontal well with water or gas cap drive, an ISO-Flow NE screen can be placed with isolation packers to control unwanted water cut or gas cut by closing the OptiSleeve-D sliding sleeve, removing the contribution from that interval.

The ISO-Flow NE screen is built to order with specified pipe grades, threads, and wire metallurgy.

Applications

- Squeeze-gravel packs
- Circulating gravel packs
- Fluid-loss control
- Selective production, injection, or isolation
- Gas wells

Features, Advantages and Benefits

- Field-proven *Super-Weld* screen coupled with the premium nonelastomeric sealing OptiSleeve-D sliding sleeve provides effective zonal shutoff in gravel-packed wells, lowering maintenance and costs.
- ISO-Flow screen can provide immediate zone isolation after gravel packs and stimulation treatments, enhancing well operation safety and preventing fluid loss or well flow.
- The capability to select production from gas and oil zones within a common well enables operators to change production profiles based on changing needs, contractual requirements, or peak season rates, providing operational flexibility.

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Specifications

Base Pipe			Screen			
Size (in.)	Weight (lb/ft)	Base Pipe ID (in./*mm*)	Seal Bore ID OptiSleeve (in./*mm*)	Screen Housing OD (in./*mm*)	End-Ring OD (in./*mm*)	Part Number
2-7/8	6.4	2.441 *62.0*	1.875 *47.6*	NA	NA	TBD
3-1/2	9.2	2.992 *76.0*	2.313 *58.7*	4.077 *103.6*	4.207 *106.9*	1392628
4-1/2	11.6	4.000 *101.6*	2.813 *71.4*	5.161 *131.1*	5.291 *134.4*	1392629

For internal use:

Link to Endeca assembly numbers: ISO-Flow NE Screen