i-Frac OH Sleeves

i-Frac™ OH is a ball-drop-activated multistage frac system for open-hole horizontal completions. The system is installed as an integrated part of the lower completion string. Multiple stages can be installed in a wellbore, with each stage containing between 1 and 20 sliding sleeves for optimized fracture design. Once installed, the i-Frac system is secured in place via mechanical or swell packers. For each stage installed, one ball is pumped from surface to open all sleeves in the given stage. Once all sleeves in the stage are open, the frac job can then be carried out in a continuous pumping operation, with no prep time between stages.

Applications

- Fracturing / stimulation
- Production
- Injection
- Acidizing

Features

- Ball-drop operated
- Configurable nozzles and shear pressures
- 1/6-, 1/8-, 1/10-, 1/12-, and 1/16-in. seat increments
- Multiple sleeves per stage allow for increased fracture initiation points
- No explosives required on location
- Drillable cast-iron ball seats for easy mill-out
- Proven field success across all major plays
- Compatible with dissolvable frac ball technology—frac balls regrade over a calculated period in the presence of temperature and fluid, allowing production operations to begin with no well intervention
- Maximum number of stages:
  42 stages for 4.5 in.
  52 stages for 5.5 in.

Benefits

- Increased time and cost efficiency compared with traditional plug-and-perf methods
- Ability to employ continuous pumping operations
- Excellent zonal isolation
- Optimized fracture initiation
- Multiple stages per well
- Maximizes reservoir contact
- Features millable seats for future full-bore applications

Technical data

i-Frac OH	Seat	OD mm (in.)	ID[1] mm (in.)	Length[2] mm (in.)	Working pressure kPa (psi)	Material	Temperature °C (°F)	Threads
450	Flex	142.2 (5.600)	99.1 (3.900)	1,102.11 (43.390)	69,000 (10,000)	P110	177 (350)	API and premium available
450	Flex	149.9 (5.900)	99.1 (3.900)	1,102.11 (43.390)	103,400 (15,000)	Q125	177 (350)	API and premium available
450	Flex	142.2 (5.600)	99.1 (3.900)	1,102.11 (43.390)	50,350 (7,300)	L80	177 (350)	API and premium available
S450	Fixed	142.2 (5.600)	99.1 (3.900)	909.07 (35.790)	69,000 (10,000)	P110	177 (350)	API and premium available
S450	Fixed	149.9 (5.900)	99.1 (3.900)	909.07 (35.790)	103,400 (15,000)	Q125	177 (350)	API and premium available
S450	Fixed	142.2 (5.600)	99.1 (3.900)	909.07 (35.790)	50,350 (7,300)	L80	177 (350)	API and premium available
550	Flex	171.0 (6.732)	118.1 (4.650)	1,055.12 (41.540)	69,000 (10,000)	P110	177 (350)	API and premium available
550	Flex	175.3 (6.900)	118.1 (4.650)	1,220.72 (48.060)	103,400 (15,000)	Q125	177 (350)	API and premium available
S550	Fixed	171.0 (6.732)	115.6 (4.550)	938.02 (36.930)	69,000 (10,000)	P110	177 (350)	API and premium available
S550	Fixed	175.3 (6.900)	115.6 (4.550)	1,103.63 (43.450)	103,400 (15,000)	Q125	177 (350)	API and premium available
550 FB	Flex	177.8 (7.000)	123.6 (4.867)	1,118.4 (44.03)	80,000 (11,600)	P110	177 (350)	API and premium available
550 FB	Flex	177.8 (7.000)	123.6 (4.867)	1,118.4 (44.03)	58,000 (8,400)	L80	177 (350)	API and premium available
S550 FB	Fixed	177.8 (7.000)	122.7 (4.830)	1,001.27 (39.420)	58,000 (8,400)	L80	177 (350)	API and premium available

[1] Milled out diameter
[2] Lengths may vary depending on end sub threading
Note: Premium connections available upon request.