

Anchored Production Straddle (APS)



Description

The APS is designed with a wide range of dimensions and effective through-bore in mind when developing specific solutions for production control challenges. It's configured with two packer modules, standard spacer pipe in between and an anchoring module. Each Packer Module consists of a one-piece solid elastomer element supported by a tight mechanical barrier on each side. When expanded, a radial wall prevents extrusion of the packer element under strain or pressure. Additional anchoring modules as well as built-in PBR functionality can be incorporated.

Standard sizes in the following series have been tested in differential pressures and max temperatures in accordance with ISO 14310:2008 international standard up to validation grade Vo.

Standard size HPHT Straddles

Differential pressures up to 345 bar (5.000 psi) at temperatures up to 150 °C

Standard size HEX straddles

Differential pressure up to 207 bar (3000 psi) at temperatures up to 110 °C

Standard size ME Straddles have been tested in differential pressures up to 241 bar (3500 psi) at temperatures up to 110 °C accordance with ISO 14310:2008 design validation Vo.

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Application

The APS can be used in temporary or permanent applications, and is equipped with high expansion bi-directional seal and anchor elements that can be set/retrieved in cross flow making it ideal for workover applications. We can offer straddles in the following categories:

- Insert safety valve
- High Expansion
- Single & multi run
- Screen water-shut off
- PBR
- Gas lift (see tech. spec below)
- Tubing Repair
- Retrievable

Benefits

- Other sizes available upon request.
- Can be run on slickline, e-line, CT and pipe.
- Modular design for various applications on-site.
- Designed to meet the requirements of high expansion and effective through-bore; the standard straddle size is also ISO Vo approved.

Technical Specifications (Standard Sizes)

Model	Concept	Csg Size	Csg Wt (lbs/ft)	ID	OD
275-350 APS	ME	3 ½"	9,3-10,3	1,339"	2,75"
344-450 APS	HPHT	4 ½"	12,6-13,5	1,5"	3,44"
363-450 APS	ME	4 ½"	12,6-15,1	2,114"	3,63"
363-450 APS	HPHT	4 ½"	11,6-13,5	1,65	3,63"
360-550 APS	HEX	5 ½"	15,5-26	1,437"	3,60"
389-500 APS	HPHT	5"	15-18	1,85"	3,89"
425-550 APS	HPHT	5 ½"	17-23	2,2"	4,25"
443-550 APS	ME	5 ½"	17-23	2,9"	4,43"
430-663 APS	HEX	6 ⅝"	28-32	2,0"	4,30"
430-700 APS	HEX	7"	26-32	2,0"	4,30"
563-700 APS	HPHT	7"	26-32	3,14"	5,63"
572-700 APS	ME	7"	29-35	4,00"	5,72"

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Technical Specifications (Custom Sizes)

Model	Concept	Csg Size	Csg Wt (lbs/ft)	ID	OD
175-238 APS	HPHT	2 ⅜"	5,1	0,47"	1,75"
270-350 APS	HPHT	3 ½"	9,2-10,2	1,02"	2,70"
285-400 APS	HPHT	4"	11-14,8	0,87"	2,85"
267-450 APS	HEX	4 ½"	12,6-15,1	0,70"	2,67"
290-450 APS	HEX	4 ½"	12,6	1"	2,90"

Technical Specification for Through Tubing Gas Lift System (PTC GoLift™)

Maximum OD, in [Nominal Size], 3500 psi wp (up to 110 °C)	2.75" [3 .5] 3.63" [4.5] 4.43" [5.5] 5.72" [7]
Maximum OD, in [Nominal Size], 5000 psi wp (up to 150 °C)	2.70" [3 .5] 3.63" [4.5] 4.25" [5.5] 5.63" [7]
Max. Operating Temperature ⁽¹⁾	Up to 302 °F [150 °C]

(1) Max. operating temperature may vary based on specific weights of the tubular.

For other product enquiries or specific sizes please contact your local sales office.

Custom sizes made upon request.