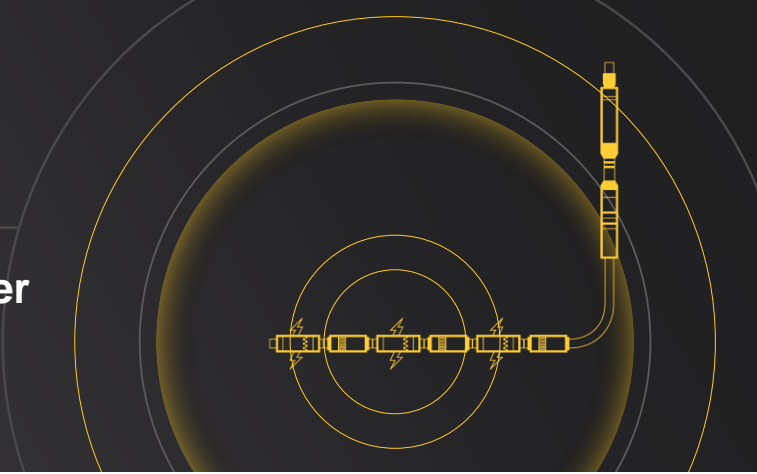


TECH DATA SHEET

F1 High Capacity Liner Hanger Packer With Hold Down Slip

7" x 9-5/8"



OVERVIEW

F1 Rotating High Capacity Liner Hanger-Packer utilizes multiple sets of constrained slips to enable increased load rating. Constrained slips also allow for rotation while running the liner downhole and are held firmly to the cone preventing slip damage.

FEATURES

- Multiple slip sets provide for increased load rating
- Allows rotation while running
- Fully hardened, mechanically constrained slips
- Integral Liner Packer and Liner Hanger provides the shortest in the industry overall length for use in deviated applications
- Reliable hydraulic slip activation
- No weld construction and Non-swabbing, bonded packing element
- Field adjustable setting pressures
- Equipped with a positive stop to prevent the cylinder from over stroking
- A premium double threaded locking ring system assures the packing element stays firmly set and sealed
- 10,000 PSI differential pressure rating, 300 F temperature rating
- V3 Rated



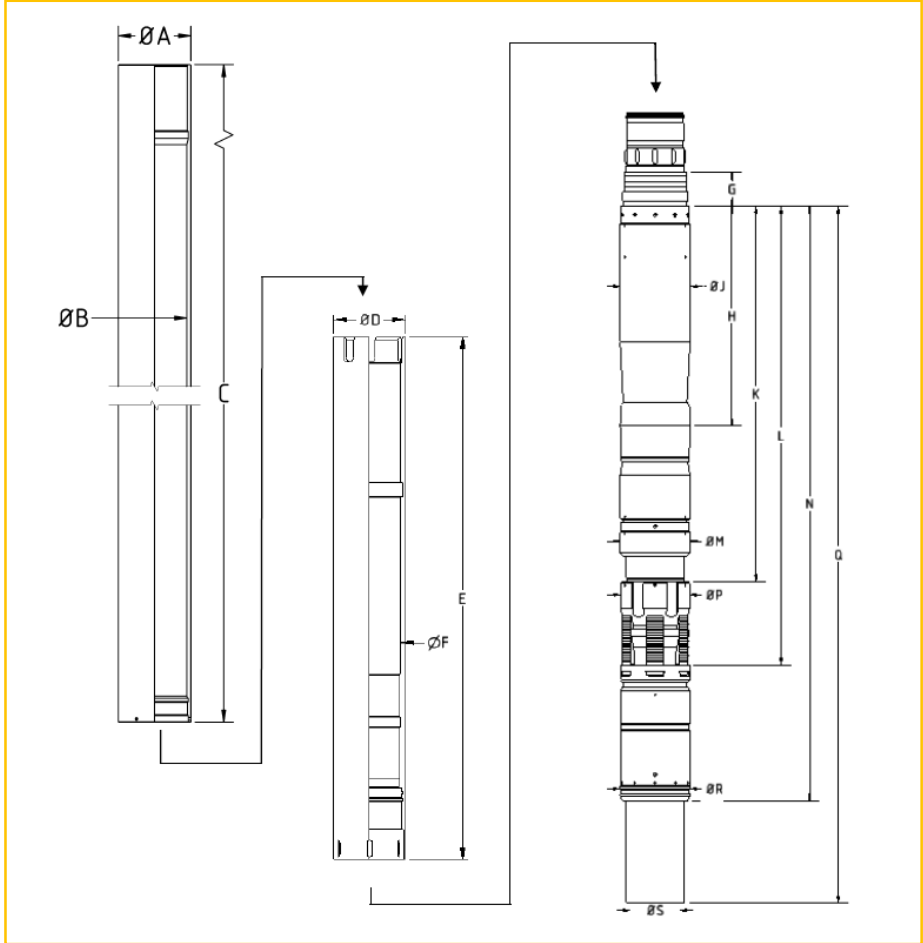
F1 High Capacity Liner Hanger Packer

Other sizes are available on request.
ID may vary depending on connecting configuration selected.

Liner Size	Casing Size	Casing Weight Range		Max. OD Packer	
		lbs/ft	kg/m	in	mm
7	9-5/8	36 - 43.5	53.57 - 64.74	8.445	214.503
		47 - 53.5	69.94 - 79.62	8.312	211.125



Dimensions Map
Dimensions & Additional Specifications



7.00" X 9.625" 36-43.5# Dual Cone Liner Hanger Packer, 8.312 OD, 80 Duro Packer Type HNBR Element, 7" Pin Down, 7.375 ID TBR and Setting Adapter with RCB Profile

Dimensions, in (mm)		Dimensions, in (mm)	
ØA	8.250 (209.550)	K	23.61 (599.690)
ØB	7.375 (187.330)	L	33.57 (852.680)
ØC	Varies by TBR Length Ordered	M	8.455 (214.780)
ØD	7.335 (186.310)	N	61.820 (1570.230)
ØE	41.780 (1061.210)	ØP	8.312 (211.12)
ØF	6.460 (164.080)	Q	74.70 (1897.380)
G	4.065 (103.250)	ØR	8.312 (211.120)
H	12.470 (316.740)	ØS	Varies by Weight Ordered
J	8.455 (214.780)	Thread	As Required

* AFLAS Elastomers Available On Request



7.00" X 9.625" 47-53.5# Dual Cone Liner Hanger Packer, 8.312 OD, 90 Duro Bonded HNBR Element, 7" Pin Down, 7.375 ID TBR and Setting Adapter with RCB Profile

Dimensions, in (mm)		Dimensions, in (mm)	
ØA	8.250 (209.550)	K	23.61 (599.690)
ØB	7.375 (187.330)	L	33.57 (852.680)
ØC	Varies by TBR Length Ordered	M	8.312 (211.120)
ØD	7.335 (186.310)	N	61.820 (1570.230)
ØE	41.780 (1061.210)	ØP	8.312 (211.12)
ØF	6.460 (164.080)	Q	74.70 (1897.380)
G	4.065 (103.250)	ØR	8.312 (211.120)
H	12.470 (316.740)	ØS	Varies by Weight Ordered
J	8.312 (211.120)	Thread	As Required

* AFLAS Elastomers Available On Request

7.00" LOCKED SLIP LINER HANGER SYSTEM SPECIFICATIONS

Casing Specification Guide								
Casing Size	Weight lb/ft	Hanging Capacity (lbs)		Cylinder Rating (psi)		Cone Bypass Flow Area (in)		Code OD (in) ft-lbs
		Grade	Load	Burst	Collapse	Unset	Set	
9,63	36	L-80	202,000	8,480	7,670	10.35	7.20	8,312
		P-110	278,000	11,660	10,540			
		Q-125	316,000	13,260	11,980			
	40	L-80	339,000	8,480	7,670	9.15	6.08	
		P-110	467,000	11,660	10,540			
		Q-125	531,000	13,260	11,980			
	43,5	L-80	373,000	8,480	7,670	8.05	5.43	
		P-110	513,000	11,660	10,540			
		Q-125	584,000	13,260	11,980			
	47	L-80	405,000	8,480	7,670	7.03	4.84	
		P-110	557,000	11,660	10,540			
		Q-125	634,000	13,260	11,980			
53,5	L-80	468,000	8,480	7,670	5.06	3.72		
	P-110	644,000	11,660	10,540				
	Q-125	732,000	13,260	11,980				
9,88	62,8	L-80	405,000	8,480	7,670	6.23	4.38	
		P-110	557,000	11,660	10,540			
		Q-125	634,000	13,260	11,980			



7.00" X 9.625 LOCKED SLIP LINER HANGER SYSTEM SPECIFICATIONS

Hanger Body Specification Guide							
Liner Size	Weight (lb/ft)	Tool ID (in)	Material Yield (ksi)	Tensile (lbs)	Torque* (ft-lbs)	Burst (psi)	Collapse (psi)
7	26	6.276 Nominal	80	322,000	48,800	6,080	5,650
			110	443,000	67,100	8,360	7,770
			125	504,000	76,300	9,500	8,830
	26	6.201	80	380,000	57,000	7,030	6,460**
			110	522,000	78,400	9,670	8,888**
			125	594,000	89,100	10,990	10,100**
	29	6.109	80	451,000	66,700	8,210	7,450**
			110	621,000	91,700	11,290**	10,240**
			125	706,000	104,300	12,840**	11,640**
	32	6.019	80	520,000	75,900	9,390**	8,400**
			110	715,000	104,300	12,900**	11,550**
			125	813,000	118,600	14,670**	13,130**
	35	5.929	80	587,000	84,350	10,300**	9,180**
			110	806,000	115,980	14,080**	12,584**
			125	917,000	131,800	16,000**	14,300**

*Exclusive of end connections

**Exceeds Liner ratings

Hanger Setting Pressure +/- 10%	
Pressure Per Screw (psi)	386
Standard Setting Pressure (psi)	1,544
Min Setting Pressure (psi)	772
Max Setting Pressure (psi)	3860



7.00" X 9.625 LINER TOP PACKER SPECIFICATIONS

Hanger Body Specification Guide							
Liner Size	Weight (lb/ft)	Tool ID (in)	Material Yield (ksi)	Tensile (lbs)	Torque (ft-lbs)	Burst** (psi)	Collapse** (psi)
7	26	6.276 Nominal	80	262,000	39,700	6,480	5,990
			110	360,000	54,648	8,910	8,240
			125	410,000	62,100	10,130	9,370
	26	6.201	80	332,000	49,700	7,610**	6,950**
			110	456,000	68,300	10,220**	9,550**
			125	519,000	77,700	11,620**	10,860**
	29	6.109	80	403,000	59,500	8,790**	7,920**
			110	554,000	81,800	12,080**	10,880**
			125	630,000	93,000	13,730**	12,370**
	32	6.019	80	472,000	68,700	9,960**	8,850**
			110	648,000	94,500	13,690**	12,170**
			125	737,000	107,400	15,560**	13,840**

*Exclusive of end connections

**Exceeds Liner ratings

7.00 x 9-5/8# Element Rating		
Minimum Setting Load	60,000	Lbs
Per Screw Shear Force	3,600	Lbs
Total Shear Force to Start Packer Setting	36,000	Lbs
Max Pressure Differential	10,000*	Psi
Max Temperature	300*	°F

*Qualified to ISO 14310 Grade V3

