

FEED-PAC® PRODUCTION PACKER

- CT-ESP | CT95206
- CT-FTP-1 | CT95209
- CT-ESP-TS | CT95217

DESCRIPTION:

FEED-PAC® packer is a dual-bore hydraulic-set production packer. The packer has provision for additional feed through ports for chemical injection line, vent valve and ESP pump. The packer is set by pressuring up the tubing string against a plugging device below the packer and is locked in the set position mechanically by a lock ring. Bi-directional barrel slips hold the packer against well pressures from above and below. Release and retrieval is accomplished straight upward pull on the tubing string.

CT-ESP Electric Submersible Pump Packer is used with a completion that requires an electric submersible pump below the packer to assist in pumping the formation fluids to the surface. The packer incorporates a by pass or pass-through section to provide means for an electric cable (Model CT-ESP) to be run through the packer to supply power to the electric submersible pump below the packer.

CT-FTP-1 is the packer of the same product family. It is used in the wells where only feed through application without ESP pump is desirable.

CT-FTP-TS an ESP Twin Seal is designed to facilitate the use of a submersible electric pump. The packer can be provided with an integral penetrator molded into the packer mandrel, or with threaded connections to accept a pack-off power cable feed through system with cable pigtails, or a drop-through penetrator. Additional optional ports allow venting of gas through the annular vent, fluid injection through the packer, and/or instrument wire port bypass.



FEATURES & BENEFITS :

FEED-PAC® Packer is constructed with single-piece mandrel having single-trip capability.

- ✓ **Barrel Slip:** Barrel slip design for high load capability, minimize the casing stress.
- ✓ **Single-piece mandrel:** Single piece mandrel construction.
- ✓ **Electric Submersible:** Feed thru electric submersible pump completion packer.
- ✓ **Control line:** Control line ports for injection and venting is available.
- ✓ Provide a sealing bypass for the ESP power cable.
- ✓ **Straight Pull:** Field adjustable straight pull release.
- ✓ Retrievable production annulus pressure barrier.
- ✓ No movement between tubing/ casing/ cable during setting.
- ✓ Adjustable release force up to 90,000 lbs.

APPLICATION:

- ✓ Ties the production tubing to the production casing.
- ✓ Generate the annular pressure barrier preventing hydrocarbon ingress.
- ✓ ESP completions.

TECHNICAL SPECIFICATIONS (CT-ESP):

Casing Specification				Packer Specification							
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	Primary String ID (in.)	Secondary String ID (in.)	Injection Line Connection	Penetrator Connection Box Up X Box Down	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API Validation Grade
7	20-26	6.276	6.456	6.100	2.375	1.5	1/4 NPT / 3/8 NPT	1.900 NU	2 7/8, 6.5 PPF EU	5000	V3/ V3-R
	26-32	6.094	6.276	5.938							

TECHNICAL SPECIFICATIONS (CT-FTP-1):

Casing Specification				Packer Specification						
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	Primary String ID (in.)	Injection Line Connection	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API Validation Grade	
5 1/2	13-15.5	4.95	5.038	4.781	1.9	1/4 NPT/ 3/8 NPT	2 3/8, 4.7 PPF EU	5,000	V3/ V3-R	
	15.5-20	4.778	4.95	4.625						
	20-23	4.67	4.778	4.5						
7	20-26	6.276	6.456	6.1	2.375	1/4 NPT/ 3/8 NPT	2 7/8, 6.5 PPF EU	5,000	V3/ V3-R	
	26-32	6.094	6.276	5.938						

NOTES:

- Additional size/weight, end connection, pressure rating, etc. are also available on request.
- Technical data presented above are based upon experimental data & theoretical engineering calculations. These values will change within accepted engineering tolerances due to variations in material properties, dimensional tolerances and actual operating conditions.



TECHNICAL SPECIFICATIONS (CT-ESP-TS):

Casing Specification				Packer Specification						
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	Max. OD (in.)	Long String ID (in.)	Long String Connection BXP	Short String ID (in.)	Short String Connection BXP	3rd String & Vent String Connection	API Validation Grade
5 1/2	14-20	4.778	5.012	4.625	1.531	1.900" NU 10RD	1.313	1.660" NU 10RD	NA	V3-R
7	23-32	6.094	6.366	5.938	1.938	2-3/8" EU 8RD	1.938	2-3/8" EU 8RD	NA	
	23-32	6.094	6.366	5.938	1.938	2-7/8" EU 8RD	1.435	1.900" NU 10RD	NA	
	17-29	6.184	6.538	6.000	1.938	2-3/8" EU 8RD	1.938	2-3/8" EU 8RD	NA	
7 5/8	24-29.7	6.875	7.025	6.672	3.000	3-1/2" EU 8RD	1.485	1.900" NU 10RD	1/2" NPT BXB	
	24-29.7	6.875	7.025	6.672	2.406	2-7/8" EU 8RD	1.938	2-3/8" EU 8RD	NA	
	24-29.7	6.875	7.025	6.672	1.938	2-3/8" EU 8RD	1.938	2-3/8" EU 8RD	1/2" NPT BXB	
	33.7-39	6.625	6.785	6.453	1.938	2-3/8" EU 8RD	1.938	2-3/8" EU 8RD	NA	
	33.7-39	6.625	6.785	6.453	2.406	2-7/8" EU 8RD	1.938	2-3/8" EU 8RD	NA	
9 5/8	36-47	8.681	8.921	8.5	3	3-1/2" EU 8RD	3	3-1/2" EU 8RD	NA	
	36-47	8.681	8.921	8.5	2.406	2-7/8" EU 8RD	2.406	2-7/8" EU 8RD	NA	
	36-47	8.681	8.921	8.5	3.958	4-1/2" 12.6 COT PREMIUM	1.938	2-3/8" EU 8RD	1/2" NPT BXB	
	47-53	8.535	8.681	8.312	3	3-1/2" EU 8RD	3	3-1/2" EU 8RD	NA	
	47-53	8.535	8.681	8.312	2.406	2-7/8" EU 8RD	2.406	2-7/8" EU 8RD	NA	
	47-53	8.535	8.681	8.312	2.925	3-1/2" 12.6 COT PREMIUM	2.375	2-7/8" EU 8RD	NA	
10 3/4	51-60.7	9.66	9.85	9.5	3.958	4-1/2" 12.6 COT PREMIUM	1.938	2-3/8" EU 8RD	1/2" NPT BXB	

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NOTES

SUMMARY OF FEED-PAC[®] PRODUCTION PACKER

