



ESP-X PACKER

7" X 3-1/2" X (1) 1/4" NPT

Manual No:
DL-903-7000-1430

Revision: **B**

Revision Date:
01/16/2024

Authored by: J.Anderson

Approved by: K.Plunkett

A) DESCRIPTION

The ESP-X Packer is a hydraulic set, mechanically held, Electric Submersible Pump (ESP) production packer, with secondary bores for ESP feed through cable and optional chemical feed through lines. Because no tubing manipulation is required to set this packer, the wellhead can be installed and flanged up before setting.

This packer is available with a variety of tubing connections. The packer features a sequential upper slip release system designed to release each slip individually to reduce the pull required to release it. The angles on the upper slips and upper slip body result in the slips releasing smoothly from the casing.

B) SPECIFICATION GUIDE

CASING		
SIZE (INCHES)	WEIGHT (LBS/FT)	RECOMMENDED HOLD SIZE (INCHES)
7	23.0 – 29.0	6.184 - 6.366

TOOL				
OD (INCHES)	LONG STRING ID (INCHES)	SHORT STRING ID (INCHES)	FEED-THROUGH TUBES ID (INCHES)	PART NUMBER
6.000	2.94	N/A	0.42	90371HC-BAE-1 90371VC-BAE-1 ¹ 90371AC-BAE-1 ²

Elastomer Options: ¹Viton, ²Aflas

THREAD CONNECTIONS		
LONG STRING BOX UP / PIN DOWN	SHORT STRING BOX UP / BOX DOWN	FEED THRU TUBES BOX UP / BOX DOWN
3-1/2 EUE	N/A	1/4 NPT

DIFFERENTIAL PRESSURE (MAX)	TENSILE LOAD THRU TOOL (MAX)
5,000 PSI	100,000 LBS *

* Using all eight (8 qty) releasing shear screws.

SETTING				
SETTING AREA (IN ²)	SHEAR VALUE (PSI/SCREW)	INITIATION PRESSURE (PSI)	MINIMUM SETTING PRESSURE (PSI)	RECOMMENDED SETTING PRESSURE (PSI)
12.49	191	1,505	2,900	3,326

D & L OIL TOOLS
P.O. BOX 52220 TULSA, OK 74152
PHONE: (800) 441-3504 www.dloiltools.com

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B) SPECIFICATION GUIDE (cont'd)

RELEASING
Shear release is adjustable from 15,000 to 40,000 lbs (5,000 lbs/screw). Minimum of 3 shear screws required.

C) PRE-INSTALLATION INSPECTION PROCEDURES

CAUTION₁: D&L ships tool connections made-up **HAND TIGHT**—labeled with hand-tight tape on the tool (Fig. 1)—unless stated otherwise. Tighten/torque all connections properly before operating tool.



Fig. 1

GENERAL THREAD CONNECTION TORQUE RECOMMENDATIONS			
STUB ACME / ACME THREADS	INTERNAL TAPERED TUBING THREADS		PREMIUM THREADS
	UP TO 2-3/8"	GREATER THAN 2-3/8"	
600 – 800 FT-LBS	600 – 800 FT-LBS	800 – 1,200 FT-LBS	Consult thread manufacturer's recommendations.

NOTE₉: Do not tighten long string mandrel (7) into flat top (1) with more than 200 ft-lbs of torque.

GENERAL SCREW TORQUE RECOMMENDATIONS									
SCREW SIZE (INCHES)	#6	#8	#10	1/4	5/16	3/8	7/16	1/2	5/8 and larger
TORQUE RANGE (INCH-POUNDS)	5 – 8	10 – 15	18 – 25	25 – 40	50 – 80	90 – 135	160 – 210	250 – 330	450 – 650

Before first use, D&L recommends disassembly and inspection of the tool unless stated otherwise. Ensure parts have not been damaged during shipping. Replace damaged parts with D&L replacement parts. Contact D&L sales for replacement part information.

Re-assemble the tool after inspection. Install parts in the correct order and orientation. Properly tighten connections.

Before re-using the tool, D&L recommends disassembly and inspection of the tool. Clean parts and ensure parts are in good working condition. Replace worn or damaged parts with D&L replacement parts.

When redressing the tool, D&L recommends replacement of all seals, elements, o-rings, shear screws, etc. Contact D&L sales for redress kit and/or other replacement part information.

D) OPERATION

CAUTION₂: If not running chemical feed through lines, make sure that the unused feed through bores in the top of the packer have plugs properly installed.

CAUTION₃: Do not run the tool without properly tightening connections. Running the tool with loose connections may damage the tool and cause malfunction.

When tubing pressure is applied to the packer, the inlet port allows pressure differential to be present in the setting chamber. The pressure differential forces the setting mandrel to separate from the setting cylinder, shearing the setting shear screws. The setting cylinder is forced down, which shears the lower slip body shear screws and sets the lower slips. The setting mandrel is forced up, which shears the upper slip body shear screws, and sets the upper slips and packs off the elements. Any relative motion between the setting cylinder and the setting mandrel is held in place by the locking nut, which will ratchet in only one direction. With a pressure differential from above, the force is transferred through the outer components of the packer and is supported by the lower slips. With the pressure differential from below, the force transfers through the outer components of the packer and is supported by the upper slips.



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D) OPERATION (cont'd)

D-1) SETTING PROCEDURES

Running speed is critical, especially in heavy or viscous fluid where excess speed can result in swabbing off the packing element or in creating pressure waves which could lead to creating a preset condition. As a guide it is recommended that running speed should not be more than 30 seconds per joint (range II or 30 feet). **Do not exceed this speed**, particularly when running the packer in the heaviest weight casing for the range for which the packer is dressed.

A run in the well with a junk basket and suitable sized gauge ring or a bit and scraper is strongly recommended prior to running. The location of any tight spots should be noted and the running speed for the packer through these spots should be reduced.

Being a hydraulically set packer, it can be subject to preset conditions by pressure waves through the fluid. A slow steady running speed should be used and sudden stops and starts, such as when setting or pulling slips, should be avoided. Make up the packer to the tubing string in the desired position and to the required torque.

Allow at least 30 minutes for the packer to equalize thermally before setting. Temporarily plug the long string below the packer and apply a minimum of 2,900 psi differential in the tubing at the packer and hold it for 30 minutes. The packer should now be fully set and can be pressure tested if desired.

D-2) RELEASING PROCEDURES

NOTE₈: Packers with ECNER packing elements are single-use tools and must be redressed following initial set.

The packer is released by a straight pick up on the long string. The shear release value is adjustable from 15,000 lbs to 40,000 lbs (5,000 lbs/screw).

NOTE₄: A minimum of three (3 qty) shear screws must be used or the packer may release prematurely.

E) STORAGE RECOMMENDATIONS

When preparing the tool for storage, follow the Pre-Installation Inspection Procedures. Re-assemble the tool with connections hand-tight only and in running position if applicable. Elements should be in a relaxed state—free from tension, compression, and other stresses that could cause deformation.

Store the tool, if possible, in an enclosed, temperature and humidity controlled environment. Avoid excessively high temperatures over long periods of time. Shield elastomeric parts from ultraviolet light sources. Keep tool dry and protected from condensation. Do not store in contact with or near volatile or corrosive chemicals. Do not store near ozone generating equipment or operations such as welding.

F) ELASTOMER TRIM TEMPERATURE GUIDE

RUBBER TYPE	TEMPERATURE RANGE
HSN (HNBR)	70° - 300°F
VITON	100° - 350°F
AFLAS	100° - 440°F



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G) RECOMMENDED HAND TOOLS

- VISE
- GLOVES
- ALLEN WRENCHES
- TAPE MEASURE
- O-RING PICK
- BAR
 - 1/2-INCH
 - 3/4-INCH
- PAINT BRUSH, 2-INCH
- PIPE WRENCH, 3-FT (2 EA)
- "CHEATER" PIPE, 4-FT LONG
- ADJUSTABLE WRENCH, 12-INCH
- CORDLESS DRILL, 18V
- SNAP RING SPREADER PLIERS
- ALIGNING PUNCH
- BOLTS, 1/4-20 X 1-1/4" LONG (4EA)
- SCREWDRIVER SET, FLAT-TIPPED
- SOCKET SETS
 - 3/8-INCH DRIVE
 - 1/2-INCH DRIVE
- HAMMERS
 - SLEDGE
 - BALL PEEN
 - DEAD BLOW

H) DISASSEMBLY

NOTE₂: Ensure vise is capable of handling weight of tool.

NOTE₆: Support tool during disassembly and assembly with jack stands as necessary.

H-1) Clamp flat top (1) in vise.

H-1.1) From upper end of tool, unscrew and remove top sub (34) from pup joint (31).

H-1.2) Remove o-rings and back-up rings (23, 24) from top sub (34).

H-1.3) Unscrew and remove pup joint (31) from flat top (1).

H-1.4) Moving to lower end of tool, unscrew and remove bottom sub (19) from long string mandrel (7).

H-1.5) Remove o-rings and back-up rings (23, 24) from bottom sub (19).

H-1.6) Unscrew and remove coupling (33) from feed through mandrel (32).

H-1.7) Unscrew and remove shear screws (17) from shear ring (16).

H-1.8) Unscrew and remove shear ring (16) from long string mandrel (7).

H-1.9) Unscrew and remove cap screws (11) from lower body (6).

H-1.10) Unscrew and remove shear screws (12) from lower slip body (14).

H-1.11) Wedge lower slips (15) outwards (if needed). Remove lower slip body assembly and disassemble:

H-1.11.1) Remove wedges (if needed). Remove lower slips (15) from lower slip body (14).

H-1.11.2) Unscrew button head screws (36) from lower slips (15) and remove slip springs (35).

H-1.12) Remove pick-up ring (18) from long string mandrel (7).

H-1.13) Unscrew and remove shear screws (12) from upper cone (3).

H-1.14) Remove setting assembly and disassemble:

H-1.14.1) Unscrew and remove set screws (13) from lock ring carrier (4).

H-1.14.2) Unscrew lower body (6) from lock ring carrier (4) and remove from piston (2).

H-1.14.2.1) Remove o-rings and back-up rings (21, 22 & 25, 26) from lower body (6).

H-1.14.3) Unscrew and remove shear screws (37, 38) from lock ring carrier (4).

H-1.14.4) Unscrew lock ring carrier (4) from lock ring (20) and remove from piston (2).

H-1.14.5) Unscrew and remove lock ring (20) from lower end of piston (2).

NOTE₁: Using snap ring spreader pliers, lock ring (20) may be spread slightly to be removed.

H-1.14.6) Remove element (5) from upper end of piston (2).

H-1.14.7) Remove o-rings and back-up rings (21, 22 & 25, 26 & 27, 28) from piston (2).

H-1.15) Unscrew and remove cap screws (11) from upper cone (3).

H-1.16) Unscrew and remove shear screws (12) from upper slip body (8).

H-1.17) Wedge upper and releasing slips (10, 9) outwards. Remove upper cone from upper slip body (8).

H-1.17.1) Remove o-ring and back-up rings (29, 30) from upper cone (3).



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H) DISASSEMBLY (cont'd)

H-1.18) Unscrew and remove upper slip body (8) from flat top (1).

H-1.18.1) Remove wedges. Remove upper and releasing slips (10, 9) from upper slip body (8).

H-1.18.2) Unscrew button head screws (36) and remove slip springs (35) from slips (10, 9).

H-1.19) Unscrew and remove long string mandrel (7) and feed through mandrel (32) from flat top (1).

NOTE₃: Flats are provided on upper end of mandrels (7, 32) for wrenching.

CAUTION₄: Do NOT wrench or clamp on seal surfaces.

H-2) Unclamp and remove flat top (1) from vise.

H-2.1) Remove o-rings and back-up rings (23, 24) from flat top (1).

I) ASSEMBLY

NOTE₅: Clean and inspect all parts. Replace all worn and damaged parts. Install parts in proper order, and orientation and tighten/torque all connections properly.

CAUTION₅: To ensure tool operates properly, install o-rings in o-ring grooves **NOT** thread reliefs (Fig. 2).

NOTE₂: Ensure vise is capable of handling weight of tool.

NOTE₆: Support tool during disassembly and assembly with jack stands as necessary.

I-1) Install o-rings and back-up rings (23, 24) in o-ring grooves in flat top (1).

I-2) Clamp flat top (1) in vise.

I-2.1) Screw long string mandrel (7) and feed through mandrel (32) into flat top (1).

NOTE₃: Flats are provided on upper end of mandrels (7, 32) for wrenching.

CAUTION₄: Do NOT wrench or clamp on seal surfaces.

CAUTION₆: Do NOT rip or tear o-rings and/or back-up rings while installing.

I-2.2) Assemble upper slip body assembly and install:

I-2.2.1) Install slip springs (31) onto slips (10, 9). Align holes in springs (31) with threaded holes in slips (10, 9). Screw button head screws (36) into slips (10, 9).

NOTE₇: Install two (2 ea) springs per slip.

I-2.2.2) Install slips (10, 9) into windows in upper slip body (8). Wedge slips outwards.

I-2.2.3) Screw upper slip body (8) onto flat top (1).

I-2.3) Install o-ring and back-up rings (29, 30) in o-ring grooves in upper cone (3).

I-2.4) Install upper cone (3) onto mandrels (7, 32) and into upper slip body (8). Align threaded holes in upper cone (3) with slots in upper slip body (8).

I-2.5) Screw cap screws (11) into upper cone (3). Remove wedges from slips.

I-2.6) Align pocket holes in upper cone (3) with threaded holes in upper slip body (8). Screw shear screws (12) into upper slip body (8). Tighten until shear screws (12) contact upper cone (3). Back off 1/4 turn.

I-2.7) Assemble setting assembly and install:

I-2.7.1) Install o-rings and back-up rings (21, 22 & 25, 26 & 27, 28) in o-ring grooves in piston (2).

I-2.7.2) Install element (5) onto upper end of piston (2)

I-2.7.3) Install lock ring (20) onto piston (2). Position lock ring (20) in smooth area of piston (2) to avoid premature setting.

I-2.7.4) Install lock ring carrier (4) onto piston (2) and carefully screw onto lock ring (20). Ensure lock ring (20) stays in smooth area of piston (2).

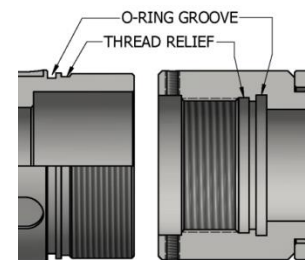


Fig. 2



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I) ASSEMBLY (cont'd)

- I-2.7.5) Align threaded hole in lock ring carrier (4) for shear screw (38) with gap in lock ring (20). Screw shear screw (38) into lock ring carrier (4). Tighten until screw (3382) contacts piston (2). Back off 1/4 turn.
- I-2.7.6) Install o-rings and back-up rings (21, 22 & 25, 26) in o-ring grooves in lower body (6).
- I-2.7.7) Install lower body (6) onto piston (2) and carefully screw into lock ring carrier (4). Ensure lock ring (20) stays in smooth area of piston (2).
- CAUTION₆:** Do NOT rip or tear o-rings and/or back-up rings while installing.
- I-2.7.8) Screw set screws (13) into lock ring carrier (4)
- I-2.7.9) Align threaded holes in lock ring carrier (4) for shear screws (37) with shear screw groove in piston (2). Screw shear screws (37) into lock ring carrier (4). Tighten until screws (37) contact piston (2). Back off 1/4 turn.
- I-2.7.10) Rotate lower body (6) as needed to align mandrel holes in lower body (6) with mandrel holes in piston (2).
- I-2.7.11) Install setting assembly onto mandrels (7, 32).
- CAUTION₆:** Do NOT rip or tear o-rings and/or back-up rings while installing.
- I-2.7.12) Align pocket holes in upper end of piston (2) with threaded holes in upper cone (3). Screw shear screws (12) into upper cone (3). Tighten until screws (12) contact piston (2). Back off 1/4 turn.
- I-2.8) Install pick-up ring (18) in pick-up ring groove in long string mandrel (7).
- I-2.9) Assemble lower slip body assembly and install:
- I-2.9.1) Install slip springs (35) in place in lower slips (15). Align holes in springs (27) with threaded holes in slips (19). Screw button head screws (36) into slips (19).
- NOTE₇:** Install two (2 ea) springs per slip.
- I-2.9.2) Install lower slips (15) into windows in lower slip body (14). Wedge slips outwards.
- I-2.9.3) Install lower slip body assembly onto mandrels (7, 32) and onto lower body (6).
- I-2.10) Align slots in lower slip body (14) with threaded holes in lower body (6). Screw cap screws (11) into lower body (6). Remove wedges slips.
- I-2.11) Align threaded holes lower slip body (14) with pocket holes in lower body (6). Screw shear screws (12) into lower slip body (14). Tighten until screws (12) contact lower body (6). Back off 1/4 turn.
- I-2.12) Install shear ring (16) onto long string mandrel (7). Align threaded holes in shear ring (16) with grooves in mandrel (7).
- I-2.13) Screw shear screws (17) into shear ring (16). Tighten until shear screws (17) contact mandrel (7). Back off 1/4 turn.
- NOTE₁₀:** Install a minimum of three (3 qty) shear screws (17). Install additional shear screws (17) as needed to achieve desired shear value.
- I-2.14) Install o-rings and back-up rings (23, 24) in o-ring groove in bottom sub (19).
- I-2.15) Screw bottom sub (19) onto long string mandrel (7).
- CAUTION₆:** Do NOT rip or tear o-rings and/or back-up rings while installing.
- I-2.16) Screw coupling (33) onto feed through mandrel (32).
- I-2.17) Moving to upper end of tool, screw pup joint (31) into flat top (1).
- CAUTION₆:** Do NOT rip or tear o-rings and/or back-up rings while installing.
- I-2.18) Install o-rings and back-up rings (23, 24) in o-ring grooves in top sub (34)



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I) ASSEMBLY (cont'd)

I-2.19) Screw top sub (34) onto pup joint (31).

CAUTION: Do NOT rip or tear o-rings and/or back-up rings while installing.

I-3) Unclamp flat top (1) from vise and remove assembled tool.

J) PARTS LIST

ITEM	QTY	DESCRIPTION	MATERIAL	P/N 90371HC-BAE-1
1	1	FLAT TOP	DLMS41X80	90371601E-1-B1
2	1	PISTON	DLMS110	90371620E-1-B1
3	1	UPPER CONE	DLMS41X80	90371410E-1-B1
4	1	LOCK RING CARRIER	DLMS110	90371012
5	1	ECNER ELEMENT ARRAY	80 DURO HSN	OEM70B
6	1	LOWER BODY	DLMS41X80	90371420E-1-B1
7	1	3-1/2" LONG STRING MANDREL	DLMS110	90335200-S
8	1	UPPER SLIP BODY	DLMS110	90371310E-4
9	2	RELEASING SLIP	DLMS110	90371125
10	3	CARBIDE UPPER SLIP	DLMS110	90371115C
11	10	5/16-18 UNC X 5/16 SOCKET CAP SCREW	STEEL	SCS031C031
12	16	SHEAR SCREW (2375#)	DLM360BRS	60100990
13	3	#10-24 UNC X 3/16 SOCKET SET SCREW	STEEL	SSS1024C018
14	1	LOWER SLIP BODY	DLMS41X80	90371325E-1-B1
15	5	CARBIDE LOWER SLIP	DLMS110	90371131C
16	1	SHEAR RING	DLMS110	90335960
17	8	SHEAR SCREW (5000#)	DLM464BRS	65050902
18	1	PICK UP RING	DLMS110	90335915
19	1	BOTTOM SUB	DLMS41X80	90371660-B1
20	1	LOCK RING	DLMS110	90371011
21	2	210 O-RING	90 DURO HSN	90210H
22	4	210 PARBAK BACKUP RING	PEEK	06500210
23	4	236 O-RING	90 DURO HSN	90236H
24	8	236 PARBAK BACKUP RING	PEEK	06500236
25	2	238 O-RING	90 DURO HSN	90238H
26	4	238 PARBAK BACKUP RING	PEEK	06500238
27	1	353 O-RING	90 DURO HSN	90353H
28	2	353 PARBAK BACKUP RING	PEEK	06500353
29	1	250 O-RING	90 DUR HSN	90250H
30	2	250 PARBAK BACKUP RING	PEEK	06500250
31	1	HANDLING PUP JOINT	DLMS110	90335221
32	1	3/8" NPT FEED THROUGH TUBE	DLMS41X80	90338211-B1-S



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I) PARTS LIST (cont'd)

ITEM	QTY	DESCRIPTION	MATERIAL	P/N 90371HC-BAE-1
33	1	3/8" X 1/4" NPT COUPLING	DLMS41X80	CP-37NPT-25NPT
34	1	3-1/2" TOP SUB	DLMS41X80	90371611-B1
35	20	SLIP SPRING	DLMINC750	32055950
36	10	#10-24 UNC X 3/8" BUTTON HEAD SOCKET CAP SCREW	STEEL	BHSC1024C037
37	8	SHEAR SCREW (2375#)	DLM360BRS	90555990
38	1	#10-32 UNF X 3/8" BRASS SLOTTED SHEAR SCREW (750#)	DLM360BRS	BSSSLT1032F037

REDRESS KIT (RDK)		90371050-B-1-H
ASSEMBLED WEIGHT		263 LBS

J-1) ELASTOMER TRIM OPTIONS

NOTE₂: For temperature range, refer to Elastomer Trim Temperature Guide.

J-1.1) VITON

ITEM	QTY	DESCRIPTION	MATERIAL	P/N 90371VC-BAE-1
5	1	ECNER ELEMENT ARRAY	80 DURO VITON	OEM70BV
21	2	210 O-RING	90 DURO VITON	90210V
23	4	236 O-RING	90 DURO VITON	90236V
25	2	238 O-RING	90 DURO VITON	90238V
27	1	353 O-RING	90 DURO VITON	90353V
29	1	250 O-RING	90 DURO VITON	90250V

REDRESS KIT (RDK)		90371050-B-1-V
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J-1.2) AFLAS

ITEM	QTY	DESCRIPTION	MATERIAL	P/N 90371AC-BAE-1
5	1	ECNER ELEMENT ARRAY	80 DURO AFLAS	OEM70BA
21	2	210 O-RING	90 DURO AFLAS	90210A
23	4	236 O-RING	90 DURO AFLAS	90236A
25	2	238 O-RING	90 DURO AFLAS	90238A
27	1	353 O-RING	90 DURO AFLAS	90353A
29	1	250 O-RING	90 DURO AFLAS	90250A

REDRESS KIT (RDK)		90371050-B-1-A
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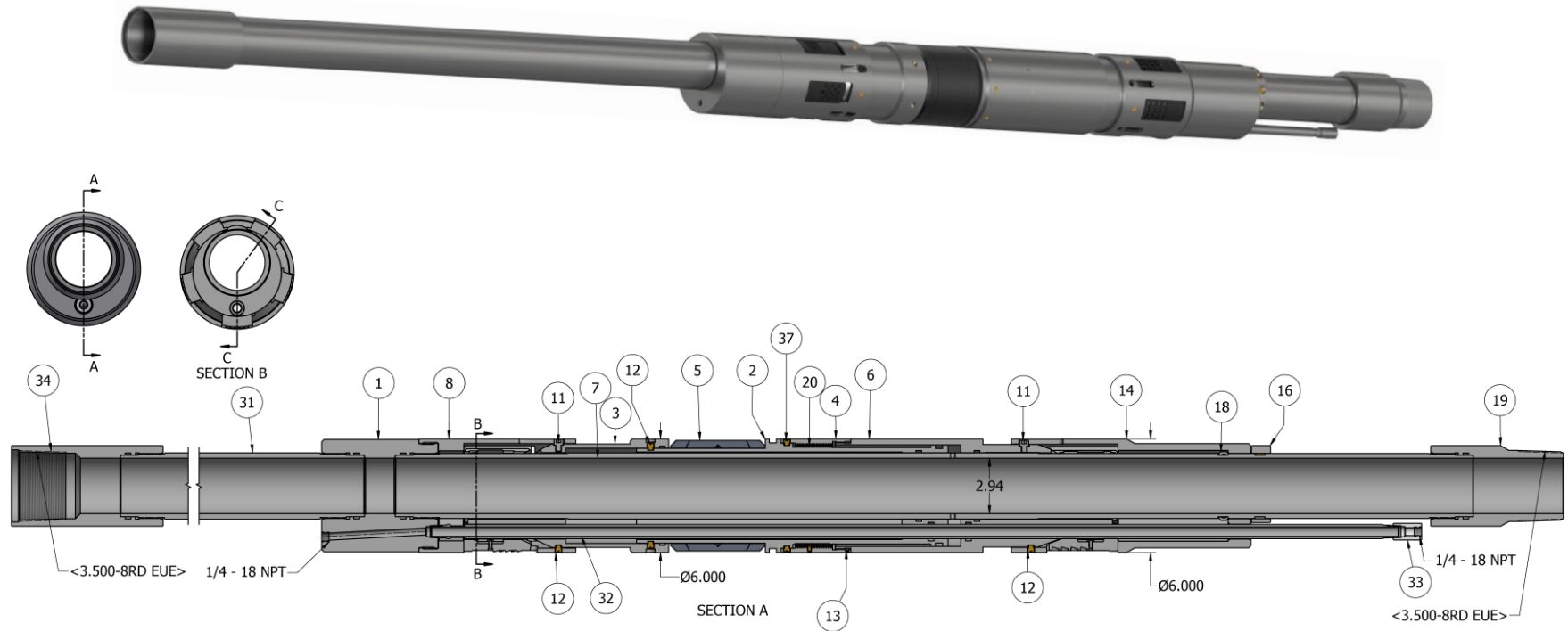
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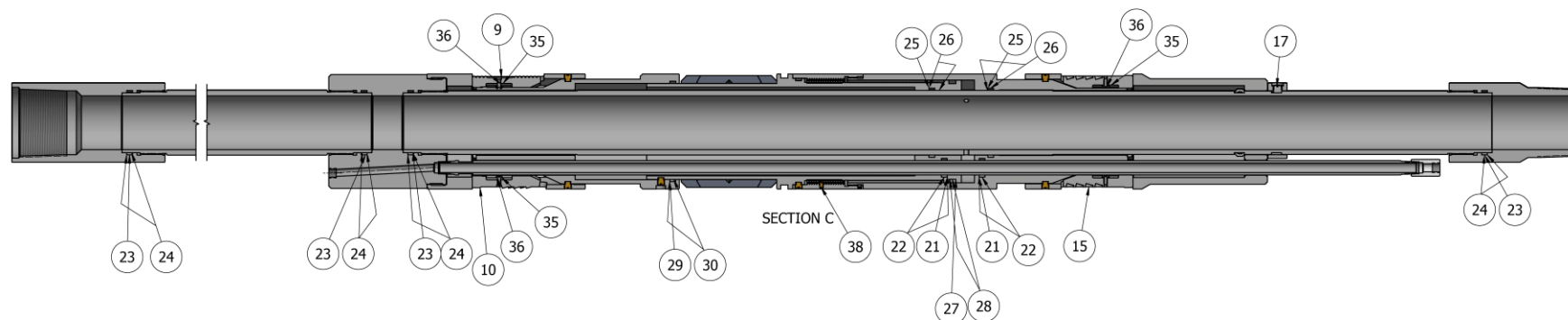
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K) TECHNICAL ILLUSTRATION



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J) TECHNICAL ILLUSTRATION (cont'd)



L) REVISION HISTORY

DATE	REVISION	DESCRIPTION OF CHANGES	REVISED BY	APPROVED BY
01/16/2024	B	Added elastomer options, notes for ECNER elements, Elastomer Trim Temperature Guide; removed Temperature Range from Specification Guide, recommendation for telescoping union from Releasing Procedures for clarity	J.Anderson	E.Visaez
02/03/2021	A	Created manual	-	-