



ROTATIONAL SAFETY JOINT

Manual No:
DL-568-0000-540

Revision: **A**

Revision Date:
02/06/2013

Authored by: *J.Anderson*

Approved by: *D.Hushbeck*

A) DESCRIPTION

The D&L Rotational Safety Joint allows positive release of the tubing string in completions where retrieval problems are anticipated. The Rotational Safety Joint is designed to be right-hand or left-hand release.

B) SPECIFICATION GUIDE

SIZE (INCHES)	TOOL OD (INCHES)	THREAD CONNECTION BOX UP / PIN DOWN	PART NUMBER
1.660	2.250	1.660 NUE	56816N-RH
1.900	2.500	1.900 EUE	56819-RH
2-3/8	3.063	2-3/8 EUE	56820-RH
2-7/8	3.688	2-7/8 EUE	56827E-RH
3-1/2	4.250	3-1/2 NUE	56835
	4.500	3-1/2 EUE	56835E-RH
4-1/2"	5.000	4-1/2 LTC / 4-1/2 STC	56845LTC-RH
	5.200	4-1/2 EUE	56845RH-BAG

NOTE₁: Right-hand release options listed. Left-hand release options available upon request.

C) RELEASING PROCEDURES

Pick up or Slack off to ensure that no more than 1000-2000 lbs of weight or tension is on the Rotational Safety Joint. Rotate Rotational Safety Joint to the right or left depending on option approximately five to eight (5-8) turns at the tool to release the top sub and workstring above it. Additional turns may be necessary at the surface to ensure the proper number of turns at the Rotational Safety Joint.

D) 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
- SCREWDRIVER SET, FLAT-TIPPED
- SOCKET SETS
 - 3/8-INCH DRIVE
 - 1/2-INCH DRIVE
- HAMMERS
 - SLEDGE
 - BALL PEEN
 - DEAD BLOW

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



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E) DISASSEMBLY

- E-1) Clamp top sub (1) in vise.
 - E-1.1) Unscrew and remove bottom sub (2) from top sub (1).
 - E-1.1.1) Remove o-ring (3) from bottom sub (2).
- E-2) Remove top sub (1) from vise.

F) ASSEMBLY

NOTE₂: Clean and inspect all parts. Replace all worn and damaged parts. Install parts in proper order and orientation.

- F-1) Clamp top sub (1) in vise.
 - F-1.1) Install o-ring (3) in groove in bottom sub (2).
 - F-1.2) Screw bottom sub (2) onto top sub (1).
- CAUTION₁:** Do not rip or tear o-ring during installation.
- F-2) Remove assembled tool from vise.

G) PARTS LIST

PART NUMBER	ITEM 1		ITEM 2		ITEM 3	
	TOP SUB (P/N)	QTY	BOTTOM SUB (P/N)	QTY	O-RING (P/N)	QTY
56816N-RH	56816610N-RH	1EA	56816630N-RH	1EA	90223	1EA
56819-RH	56819610	1EA	56819630	1EA	90225	1EA
56820-RH	56820610	1EA	56820630	1EA	90332	1EA
56827E-RH	56827610	1EA	56827630	1EA	90336	1EA
56835	56835610	1EA	56835630	1EA	90238	1EA
56835E-RH	56835E610	1EA	56835E630	1EA	90238	1EA
56845LTC-RH	56845610	1EA	56845630	1EA	90245	1EA
56845RH-BAG	56845611	1EA	56845631	1EA	90245	1EA

NOTE₁: Right-hand release options listed. Left-hand release options available upon request.



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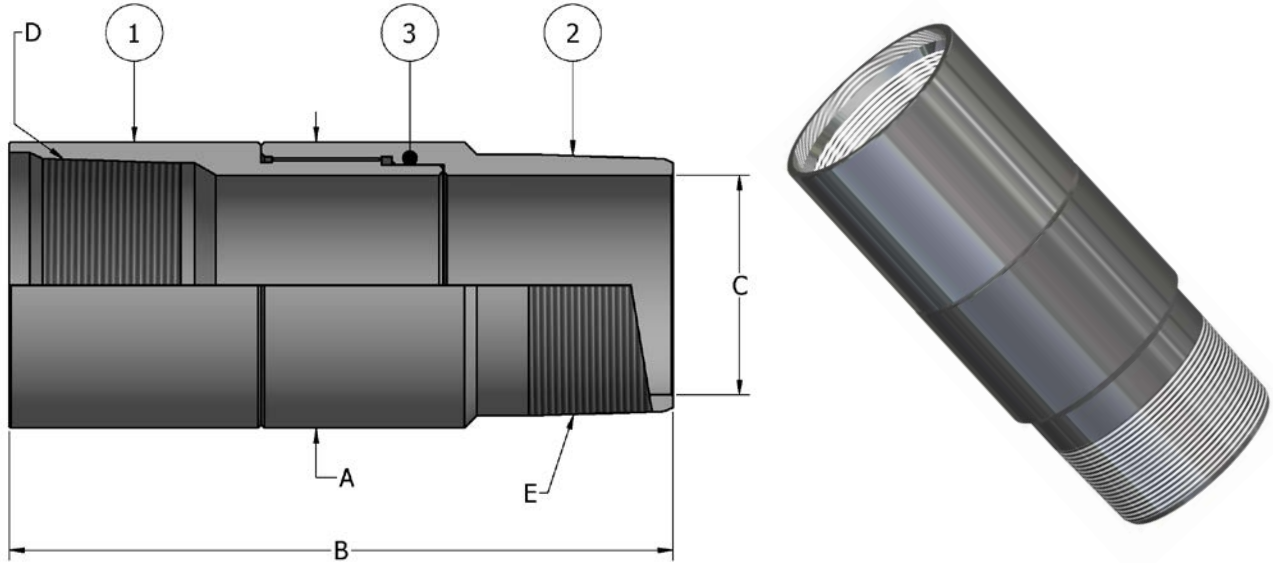
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H) TECHNICAL ILLUSTRATION



H-1) DIMENSIONS

PART NUMBER	A (INCHES)	B (INCHES)	C (INCHES)	D (BOX UP)	E (PIN DOWN)
56816N-RH	2.250	9.13	1.38	1.660 NUE	
56819-RH	2.500	10.13	1.61	1.900 EUE	
56820-RH	3.063	10.13	2.00	2-3/8 EUE	
56827E-RH	3.688	11.25	2.50	2-7/8 EUE	
56835	4.250	11.75	3.00	3-1/2 NUE	
56835E-RH	4.500	11.75	3.00	3-1/2 EUE	
56845LTC-RH	5.000	12.07	4.00	4.500-8RD LTC	4.500-8RD STC
56845RH-BAG	5.200	12.07	4.00	4-1/2 EUE	

I) REVISION HISTORY

DATE	REVISION	DESCRIPTION OF CHANGES	REVISED BY	APPROVED BY
02/06/13	A	Created new manual;	<i>J.Anderson</i>	<i>D.Hushbeck</i>