



SECTION V: SHIFTING TOOLS

2021

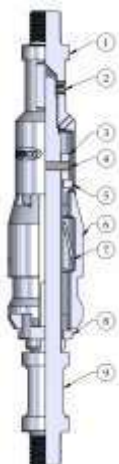
REBCO

Product Code: 42

Type '**ROTBO**' Shifting Tool Assembly: **1.250" – 4.562"**

Rebco Type '**ROTBO**' Shifting Tool is used to move the inner sleeve of several types of Sliding Sleeves.

The **Alternate** (**Positive**) Keys are also available. These Keys are used for specific applications.

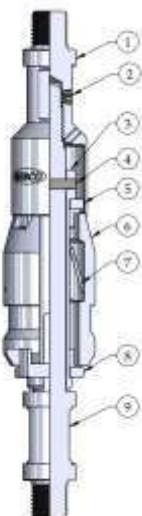


SLEEVE SIZE	1.250"	1.375"	1.500"	1.625"
ASSEMBLY NUMBER	42012012500	42012013700	42012015000	42012016200

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO
1	TOP SUB	1				
2 *	SET SCREW	1				
3	COLLET	1				
4 *	SHEAR PIN	1				
5	TOP KEY RETAINER	1				
6	KEY	2				
7 *	SPRING	2				
8	LOWER KEY RETAINER	1				
9	BODY	1				
REDRESS KIT (* Included as part of Kit)						

ENGINEERING DATA:

KEYS EXPANDED – OD Min	1.39"	1.64"	1.63"	1.89"
BODY OD	1.24"	1.36"	1.42"	1.61"
LENGTH	11.1"	11.1"	12.4"	12.75"
MATERIAL	Alloy	Alloy	Alloy	Alloy
PIN THREAD	5/8" - 11	5/8" - 11	15/16" - 10	15/16" - 10
FISHING NECK SIZE	1.000"	1.000"	1.187"	1.187"
WEIGHT lbs (kg)	1.3 (.59)	2.3 (1.04)	4.0 (1.81)	4.5 (2.04)
Ref: ALTERNATE (Positive) KEY	42004	42005	42006	420180



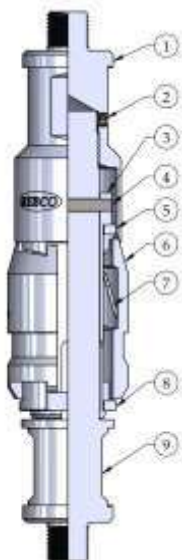
SLEEVE SIZE	1.710"	1.781"	1.875"	2.125"
ASSEMBLY NUMBER	42012017100	42012017800	42012018700	42012021200

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO
1	TOP SUB	1				
2 *	SET SCREW	1				
3	COLLET	1				
4 *	SHEAR PIN	1				
5	TOP KEY RETAINER	1				
6	KEY	2				
7 *	SPRING	2				
8	LOWER KEY RETAINER	1				
9	BODY	1				
REDRESS KIT (* Included as part of Kit)						

ENGINEERING DATA:

KEYS EXPANDED – OD Min	2.11"	2.08"	2.11"	2.49"
BODY OD	1.69"	1.75"	1.75"	1.97"
LENGTH	12.75"	12.75"	13.38"	13.3"
MATERIAL	Alloy	Alloy	Alloy	Alloy
PIN THREAD	15/16" - 10	15/16" - 10	15/16" - 10	15/16" - 10
FISHING NECK SIZE	1.187"	1.375"	1.375"	1.375"
WEIGHT lbs (kg)	4.7 (2.13)	4.8 (2.20)	5.0 (2.77)	5.5 (2.49)
Ref: ALTERNATE (Positive) KEY	42007	420137	4201153	4201388

Type 'ROTBO' Shifting Tool Assembly: Continued

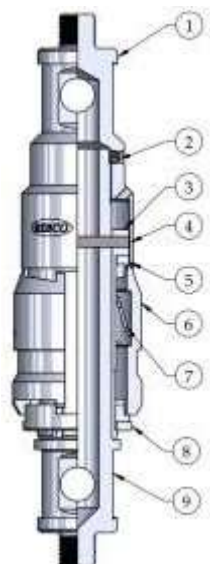


SLEEVE SIZE		2.188”	2.313”	2.562”	2.750”
ASSEMBLY NUMBER		42012021800	42012023100	42012025600	42012027500

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO
1	TOP SUB	1				
2 *	SET SCREW	1				
3	COLLET	1				
4 *	SHEAR PIN	1				
5	TOP KEY RETAINER	1				
6	KEY	2				
7 *	SPRING	2				
8	LOWER KEY RETAINER	1				
9	BODY	1				
REDRESS KIT (* Included as part of Kit)						

ENGINEERING DATA:

KEYS EXPANDED – OD Min	2.59"	2.59"	2.96"	3.02"
BODY OD	2.17"	2.17"	2.53"	2.71"
LENGTH	13.94"	13.94"	13.94"	14.19"
MATERIAL	Alloy	Alloy	Alloy	Alloy
PIN THREAD	15/16" - 10	15/16" - 10	15/16" - 10	1 1/16" - 10
FISHING NECK SIZE	1.750"	1.750"	1.750"	2.313"
WEIGHT lbs (kg)	7.3 (3.31)	7.60 (3.45)	9.00 (4.08)	14.0 (6.35)
Ref: ALTERNATE (Positive) KEY	42008	4201146	42003	420151



SLEEVE SIZE			2.813”	3.313”	3.688”	3.750”
ASSEMBLY NUMBER			42012028100	42012033100	42012036800	42012037500

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO
1	TOP SUB	1				
2 *	SET SCREW	1				
3	COLLET	1				
4 *	SHEAR PIN	1				
5	TOP KEY RETAINER	1				
6	KEY	2				
7 *	SPRING	2				
8	LOWER KEY RETAINER	1				
9	BODY	1				
REDRESS KIT (* Included as part of Kit)						

ENGINEERING DATA:

KEYS EXPANDED – OD Min	3.02"	3.62"	4.07"	4.15"
BODY OD	2.71"	3.25"	3.66"	3.67"
LENGTH	14.19"	16.19"	14.86"	14.86"
MATERIAL	Alloy	Alloy	Alloy	Alloy
PIN THREAD	1 1/16" - 10	1 1/16" - 10	1 1/16" - 10	1 1/16" - 10
FISHING NECK SIZE	2.313"	2.313"	3.125"	3.125"
WEIGHT lbs (kg)	14.0 (6.35)	16.3 (7.39)	25.1 (11.39)	25.3 (11.5)
Ref: ALTERNATE (Positive) KEY	4201349	42009	42002	420010

NOTE: Ordering Type 'ROTBO' Shifting Tool Assembly with **POSITIVE** (Alternate) Keys, please specify

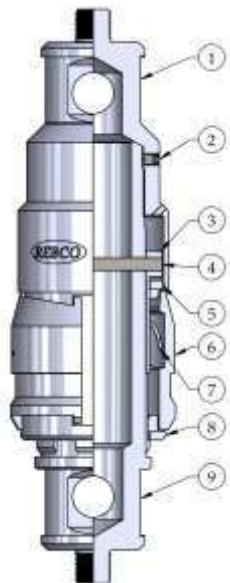


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REBCO

Type 'ROTBO' Shifting Tool Assembly: Continued



SLEEVE SIZE	3.813"	4.313"	4.562"
ASSEMBLY NUMBER	42012038100	42012043100	42012045600

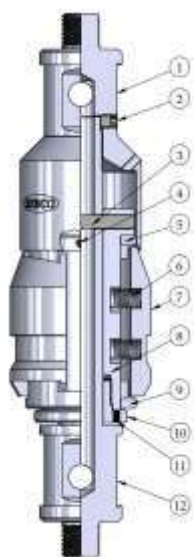
DET	PART NAME	QTY	PART NO	PART NO	PART NO
1	TOP SUB	1			
2 *	SET SCREW	1			
3	COLLET	1			
4 *	SHEAR PIN	1			
5	TOP KEY RETAINER	1			
6	KEY	2			
7 *	SPRING	2			
8	LOWER KEY RETAINER	1			
9	BODY	1			
REDRESS KIT (* Included as part of Kit)					

ENGINEERING DATA:

KEYS EXPANDED – OD Min	4.12"	4.84"	4.93"
BODY OD	3.75"	4.25"	4.52"
LENGTH	14.86"	17.25"	17.38"
MATERIAL	Alloy	Alloy	Alloy
PIN THREAD	1 1/16" - 10	1 1/16" - 10	1 1/16" - 10
FISHING NECK SIZE	3.125"	2.313"	3.125"
WEIGHT lbs (kg)	26.0 (11.79)	30.9 (14.05)	30.6 (13.88)
Ref: ALTERNATE (Positive) KEY	42001	420011	4201451

New Type 'ROTBO' Shifting Tool Assembly: 3.437" – 3.562"

Rebco Type 'ROTBO' Shifting Tool is a new version of the 'ROTBO' Shifting Tool. The difference is that the Keys are expanded with an aid of Coil Springs.



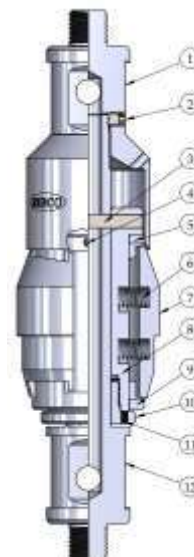
Selective Keys

SLEEVE SIZE	3.437"/3.562"		
ASSEMBLY NUMBER	Selective	420120242	
	Positive		420120278

DET	PART NAME	QTY	PART NO
1	TOP SUB	1	
2 *	SET SCREW	1	
3 *	SHEAR PIN	1	
4 *	SET SCREW	2	
5	TOP KEY RETAINER	1	
6 *	SPRING	4	
7	KEY	2	
8	CYLINDER	1	
9	LOWER KEY RETAINER	1	
10	RETAINER	1	
11 *	SET SCREW	2	
12	BODY	1	
REDRESS KIT (* Included as part of Kit)			

ENGINEERING DATA:

KEYS EXPANDED – OD Min	4.08"	4.08"
BODY OD	3.41"	3.41"
LENGTH	15.2"	15.2"
MATERIAL	Alloy	Alloy
PIN THREAD	1 1/16" - 10	1 1/16" - 10
FISHING NECK SIZE	2.313"	2.313"
WEIGHT lbs (kg)	18.7 (8.5)	18.7 (8.5)



Positive Keys