



REBCO OIL TOOLS

EXCEEDING EXPECTATIONS ONE
TOOL AT A TIME

Test Tools and Check Valves



SECTION VIII: TEST TOOLS & CHECK VALVES

PRODUCT DESCRIPTION: TEST TOOLS and CHECK VALVES

Test Tools and Check Valves are generally used to test tubing, locate leaks, or set hydraulic-set packers. The Tools are designed to hold pressure from above only.

Rebco offers four types of Test Tools:

1. Check Valves Type '**ROTFB-2**' and '**ROTRB-2**'
To be set into compatible Landing Nipples with compatible packing seal bore.
2. Non-Selective Test Tool Type '**ROTN**'
To be set into bottom No-Go Landing Nipples with compatible packing seal bore.
3. Selective Test Tool Type '**ROTR**' and '**ROTX**'
To be set in compatible Landing Nipples in the tubing string.
4. Lock Mandrel and Valve Type '**CVR**' - '**CVRN**' and '**CVX**' - '**CVXN**' Check Valve
(Standing Valve) Assembly
To be set into Landing Nipples, and compatible profiles in the tubing string.
5. Lock Mandrel and Prong Type '**POR**' - '**PORN**' and '**POX**' - '**POXN**' Test Tool Plugs
To be set into bottom No-Go Type Landing Nipples, and compatible Landing Nipple profiles in the tubing string.

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SECTION VIII: TEST TOOLS & CHECK VALVES

Type 'ROTFB-2' Equalizing Check Valve Assembly: 1.781" – 3.813"

Rebco Type 'ROTFB-2' Equalizing Check Valve (Standing Valve) is designed to prevent the fluid flow in one direction (downwards), while allowing full fluid flow in the opposite direction (upwards).

Type 'ROTFB-2' Equalizing Check Valve is to be set into Type 'ROTF' Nipple profile. The assembly is not locked in the Nipple profile. The No-Go, Part of the Packing Mandrel, prevents the downward movement. The Check Valve has built-in method of equalizing before pulling.

'ROTFB-2' Equalizing Check Valves are available in a variety of Materials, suitable for down-hole conditions.

Product Code: 12



TECHNICAL DATA

NOMINAL SIZE	2 3/8" (2")			2 7/8" (2 1/2")	
NIPPLE - SEAL SIZE	1.781"	1.812"	1.875"	2.250"	2.313"
ASSEMBLY NUMBER	122501217830	122501218130	122501218730	122501222530	122501223130

ENGINEERING DATA:

MAXIMUM OD (NO-GO)		1.803"	1.865"	1.905"	2.302"	2.364"
FISHING NECK OD		1.375"	1.375"	1.375"	1.750"	1.750"
LENGTH		15.68"	15.68"	15.68"	17.38"	17.38"
MATERIAL *		Norm Alloy	Norm Alloy	Norm Alloy	Norm Alloy	Norm Alloy
RUNNING TOOL	Type 'ROTC-1'	41022012370	41022012370	41022012370	41022012870	41022012870
	Type 'ROTSB'	4014012000	4014012000	4014012000	4014012500	4014012500
	Type 'ROTJDC'	400703022000	400703022000	400703022000	400703022500	400703022500

*Norm Alloy (NACE MR-01-75, 1980 Rev.)



SECTION VIII: TEST TOOLS & CHECK VALVES

Type 'ROTFB-2' Equalizing Check Valve Assembly:

TECHNICAL DATA

NOMINAL SIZE	3 1/2" (3")		
NIPPLE - SEAL SIZE	2.562"	2.750"	2.813"
ASSEMBLY NUMBER	122501225630	122501227530	122501228130

ENGINEERING DATA:

MAXIMUM OD (NO-GO)		2.625"	2.802"	2.865"
FISHING NECK OD		1.750"	2.313"	2.313"
LENGTH		18.59"	18.54"	18.54"
MATERIAL *		Norm Alloy	Norm Alloy	Norm Alloy
RUNNING TOOL	Type 'ROTC-1'	41022012870	41022013500	41022013500
PULLING TOOL	Type 'ROTSB'	4014012500	4014013000	4014013000
	Type 'ROTJDC'	400703022500	400703023000	400703023000



TECHNICAL DATA

NOMINAL SIZE	4 1/2" (4")		
NIPPLE - SEAL SIZE	3.688"	3.750"	3.813"
ASSEMBLY NUMBER	122501236830	122501237530	122501238130

ENGINEERING DATA:

MAXIMUM OD (NO-GO)		3.74"	3.80"	3.87"
FISHING NECK OD		3.125"	3.125"	3.125"
LENGTH		16.46"	16.46"	16.46"
MATERIAL *		Norm Alloy	Norm Alloy	Norm Alloy
RUNNING TOOL	Type 'ROTC-1'	41022014500	41022014500	41022014500
PULLING TOOL	Type 'ROTSB'	4014014000	4014014000	4014014000
	Type 'ROTJDC'	400703024000	400703024000	400703024000





SECTION VIII: TEST TOOLS & CHECK VALVES

Type 'ROTRB-2' Equalizing Check Valve Assembly: 1.781" – 3.813"

Rebco Type 'ROTRB-2' Equalizing Check Valve (Standing Valve) is designed to prevent the fluid flow in one direction (downwards), while allowing full fluid flow in the opposite direction (upwards).

Type 'ROTRB-2' Equalizing Check Valve seats on the bottom No-Go shoulder of Type 'ROTB' Nipple profile. The No-Go shoulder prevents downward movement. The assembly is not locked in the Nipple profile. The Check Valve has built-in method of equalizing before pulling.

'ROTRB-2' Equalizing Check Valves are available in a variety of Materials, suitable for down-hole conditions.

TECHNICAL DATA

NOMINAL SIZE	2 3/8" (2")			2 7/8" (2 1/2")	
NIPPLE - SEAL SIZE	1.781"	1.812"	1.875"	2.250"	2.313"
ASSEMBLY NUMBER	121301217830	121301218130	121301218730	121301222530	121301223130

ENGINEERING DATA:

MAXIMUM OD		1.771"	1.802"	1.865"	2.240"	2.302"
FISHING NECK OD		1.375"	1.375"	1.375"	1.750"	1.750"
LENGTH		15.21"	15.21"	15.21"	17.37"	17.37"
MATERIAL *		Norm Alloy	Norm Alloy	Norm Alloy	Norm Alloy	Norm Alloy
RUNNING TOOL	Type 'ROTC-1'	41022012370	41022012370	41022012370	41022012870	41022012870
	Type 'ROTSB'	4014012000	4014012000	4014012000	4014012500	4014012500
	Type 'ROTJDC'	400703022000	400703022000	400703022000	400703022500	400703022500

*Norm Alloy (NACE MR-01-75, 1980 Rev.)





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Type 'ROTRB-2' Equalizing Check Valve Assembly:

TECHNICAL DATA

NOMINAL SIZE	3 1/2" (3")		
NIPPLE - SEAL SIZE	2.562"	2.750"	2.813"
ASSEMBLY NUMBER	121301225630	121301227530	121301228130

ENGINEERING DATA:

MAXIMUM OD		2.552"	2.740"	2.802"
FISHING NECK OD		1.750"	2.313"	2.313"
LENGTH		17.37"	18.54"	18.54"
MATERIAL *		Norm Alloy	Norm Alloy	Norm Alloy
RUNNING TOOL	Type 'ROTC-1'	41022012870	41022013500	41022013500
PULLING TOOL	Type 'ROTSB'	4014012500	4014013000	4014013000
	Type 'ROTJDC'	400703022500	400703023000	400703023000



TECHNICAL DATA

NOMINAL SIZE	4 1/2" (4")		
NIPPLE - SEAL SIZE	3.688"	3.750"	3.813"
ASSEMBLY NUMBER	121301236830	121301237530	121301238130

ENGINEERING DATA:

MAXIMUM OD		3.678"	3.740"	3.802"
FISHING NECK OD		3.125"	3.125"	3.125"
LENGTH		16.46"	16.46"	16.46"
MATERIAL *		Norm Alloy	Norm Alloy	Norm Alloy
RUNNING TOOL	Type 'ROTC-1'	41022014500	41022014500	41022014500
PULLING TOOL	Type 'ROTSB'	4014014000	4014014000	4014014000
	Type 'ROTJDC'	400703024000	400703024000	400703024000





SECTION VIII: TEST TOOLS & CHECK VALVES

Type 'ROTN' (Non-Selective) Test Tool Assembly: 2" – 5 1/2"

Rebco Type 'ROTN' Non-Selective Test Tool is designed to prevent the fluid flow in one direction (downwards), while allowing fluid flow in the opposite direction (upwards).

Type 'ROTN' Non-Selective Test Tool seats on the bottom No-Go shoulder of the Landing Nipple profile. The No-Go shoulder prevents downward movement. The assembly is not locked in the Nipple profile. The Test Tool has built-in method of equalizing before retrieving.

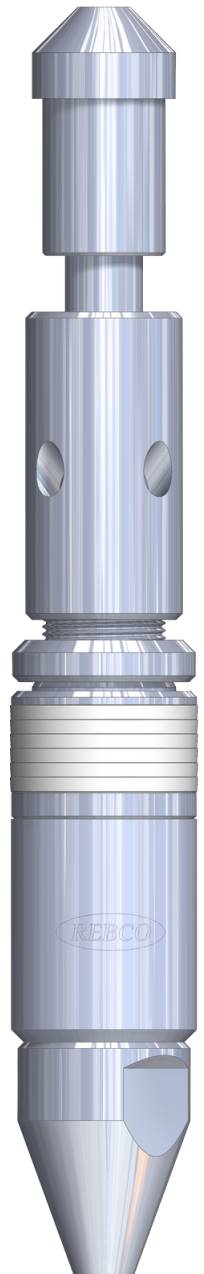
Type 'ROTN' Non-Selective Test Tool can be used in variety of Landing Nipples with the bottom No-Go and compatible packing bores.

Sizes not listed, and Materials to suit the well conditions are available.

Product Code: 14

TECHNICAL DATA				
NOMINAL SIZE	2"		2 1/2"	
NIPPLE - SEAL SIZE	1.781"	1.875"	2.188"	2.313"
ASSEMBLY NUMBER	14102017830	14102018730	14102021830	14102023130
ENGINEERING DATA:				
MAXIMUM OD - No-Go	1.775"	1.870"	2.182"	2.307"
PACKING OD - MAX.	1.79"	1.89"	2.21"	2.33"
FISHING NECK OD	1.187"	1.375"	1.375"	1.375"
MATERIAL *	Norm Alloy	Norm Alloy	Norm Alloy	Norm Alloy
RUNNING / PULLING TOOL	Type 'ROTSB'	4014011500	4014012000	4014012000
	Type 'ROTJDC'	400703021500	400703022000	400703022000

*Norm Alloy (NACE MR-01-75, 1980 Rev.)





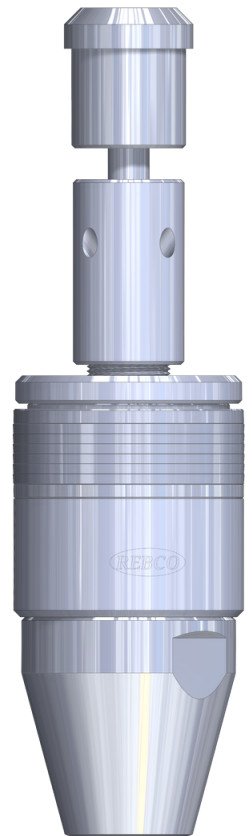
SECTION VIII: TEST TOOLS & CHECK VALVES

Type '**ROTN**' (Non-Selective) Test Tool Assembly:

TECHNICAL DATA				
NOMINAL SIZE	3 1/2"			
NIPPLE - SEAL SIZE	2.562"	2.750"	2.813"	2.875"
ASSEMBLY NUMBER	14102025630	14102027530	14102028130	14102028730
ENGINEERING DATA:				
MAXIMUM OD - No-Go	2.557"	2.745"	2.807"	2.870"
PACKING OD - MAX.	2.58"	2.77"	2.83	2.89"
FISHING NECK OD	1.375"	1.750"	1.750"	1.750"
LENGTH	12.73"	13.18"	13.18"	13.18"
MATERIAL *	Norm Alloy	Norm Alloy	Norm Alloy	Norm Alloy
RUNNING / PULLING TOOL	Type ' ROTSB '	4014012000	4014012500	4014012500
	Type ' ROTJDC '	400703022000	400703022500	400703022500



TECHNICAL DATA				
NOMINAL SIZE	4 1/2"			5 1/2"
NIPPLE - SEAL SIZE	3.688"	3.813"	4.125"	4.562"
ASSEMBLY NUMBER	14102036830	14102038130	14102041230	14102045630
ENGINEERING DATA:				
MAXIMUM OD - No-Go	3.682"	3.807"	4.119"	4.557"
PACKING OD - MAX.	3.70"	3.83"	4.14"	4.58"
FISHING NECK OD	2.313"	2.313"	2.313"	2.313"
LENGTH	14.91"	14.87"	14.91"	15.75"
MATERIAL *	Norm Alloy	Norm Alloy	Norm Alloy	Norm Alloy
RUNNING / PULLING TOOL	Type ' ROTSB '	4014013000	4014013000	4014013000
	Type ' ROTJDC '	400703023000	400703023000	400703023000





SECTION VIII: TEST TOOLS & CHECK VALVES

Type 'ROTR' and Type 'ROTX' Selective Test Tool Assembly: 2" – 3 1/2"

Rebco Type 'ROTR' and Type 'ROTX' Selective Test Tool is designed to locate and set in compatible Landing Nipples in the tubing string and hold applied pressure from above.

Type 'ROTR' and Type 'ROTX' Selective Test Tools are used to test tubing, locate leaks and other practical functions.

The tool is run to a point below the desired compatible nipple, pulling up through the nipple releases the locking keys to set the tool. Pressure from above may then be applied. The process can be repeated with next nipple up the tubing string, thus eliminating number of Wireline trips.

Product Code: 14

TECHNICAL DATA

NOMINAL SIZE		2 7/8"	3 1/2"
LANDING NIPPLE	PROFILE	'ROTR' 'ROTRN'	'ROTR' 'ROTRN'
	SEAL SIZE	2.313"	2.562"
ASSEMBLY NUMBER		14182023100	14132025600

ENGINEERING DATA:

OD - with KEYS EXPANDED		2.62"	2.89"
OD - NO-GO		2.307"	2.557"
PACKING OD		2.313"	2.562"
FISHING NECK OD		1.375"	1.375"
BOTTOM THREAD		1" LP	1" LP
LENGTH		24.75"	26.0"
MATERIAL		Alloy	Alloy
PRESSURE RATING from ABOVE	Type 'ROTR' Nipple	18,500 psi	19,000 psi
	Type 'ROTRN' Nipple	17,000 psi	18,000 psi
RUNNING/PULLING TOOL Type 'ROTSSJ' (PRODUCT 40)		401414072000	401414072000



Type 'ROTR' STT



SECTION VIII: TEST TOOLS & CHECK VALVES

Type 'ROTR' and Type 'ROTX' Selective Test Tool Assembly:

Rebco Type 'ROTX' Selective Test Tool selectively locates and lands in 'ROTX' Landing Nipples and/or Type 'ROTX' Sliding Sleeve of the same size within a tubing string. The No-Go shoulder, also allows the Tool to be set into the 'ROTXN', No-Go Landing Nipple.

The Test Tool is designed to hold pressure differential from above only. Installed or retrieved by standard Wireline procedure, the Tool can be set in the Landing Nipple, or repeatedly moved to the next higher Nipple of the same size. The pressure is equalized across the Test Tool by picking up the Drop with a Pulling Tool attached to the Fishing Neck.

TECHNICAL DATA

NOMINAL SIZE		2"	2 7/8"	3 1/2"	3 1/2"
LANDING NIPPLE	PROFILE	'ROTX' 'ROTXN'	'ROTX' 'ROTXN'	'ROTX' 'ROTXN'	'ROTX' 'ROTXN'
	SEAL SIZE	1.875"	2.313"	2.750"	2.813"
ASSEMBLY NUMBER		14182018700	14182023100	14182027500	14182028100

ENGINEERING DATA:

OD - with KEYS EXPANDED		2.20"	2.62"	3.10"	3.16"
OD - NO-GO		1.870"	2.307"	2.745"	2.803"
PACKING OD - MAX.		1.875"	2.313"	2.750"	2.813"
FISHING NECK OD		1.375"	1.375"	1.750"	1.750"
BOTTOM THREAD		23.08"	24.50"	26.12"	26.12"
LENGTH		3/8" NPT	1" LP	1" LP	1" LP
MATERIAL		Alloy	Alloy	Alloy	Alloy
PRESSURE RATING from ABOVE (Set in Nipple)	Type 'ROTX'	10,000 psi	10,000 psi	9,000 psi	9,000 psi
	Type 'ROTXN'	8,000 psi	8,000 psi	8,000 psi	8,000 psi
RUNNING/PULLING TOOL Type 'ROTSSJ' (PRODUCT 40)		401414072000	401414072000	401414072500	401414072500



Type 'ROTX' STT



SECTION VIII: TEST TOOLS & CHECK VALVES

Modified Type 'PORN' and Type 'POXN' Test Tool Plug Assembly

Modified Test Tool Plug Assembly holds pressure from above only. For this reason the 'V' Packing on the Lock Mandrel and the Prong face upwards.

The Lock Mandrel is run with or without Keys into NON SELECTIVE Nipple (Bottom No-Go).

A. Running with Keys:

- Use appropriate Running Tool.
- Use Check Set Tool to ensure proper setting of the Lock Mandrel.
- Run the Prong into the Lock Mandrel with appropriate '**ROTSB**' Pulling Tool size. The Prong will seat itself, in the No-Go Sub attached to the Lock Mandrel, stopping by the bottom No-Go on the Prong

B. Running without the Keys:

- The position of the Fishing Neck and Expander Sleeve, (Parts of the Lock Mandrel) can be open or closed. For this reason the Prong can be inserted into the Plug and the whole assembly run on appropriate '**ROTSB**' Pulling Tool size.

C. Pulling the Plug Assembly without the Keys:

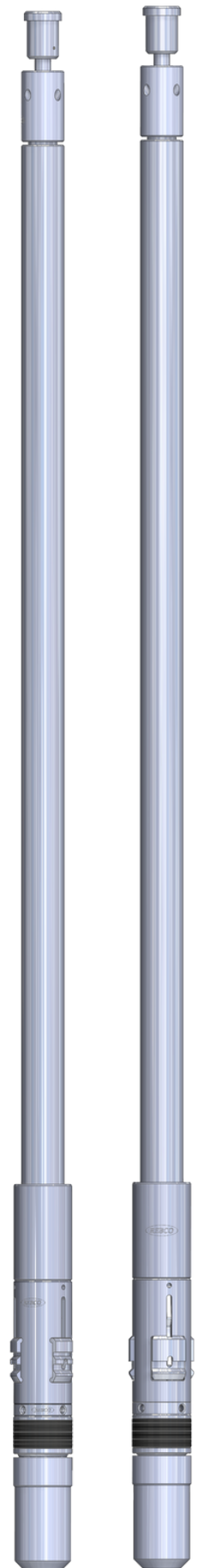
- When pulling the Plug Assembly with appropriate '**ROTSB**' Pulling Tool size, it is not uncommon that the Plug (Lock Mandrel with the Prong) is recovered together. If there is any sand or scale to hold the Plug, the Prong will be recovered first, and the Lock Mandrel is retrieved with appropriate '**ROTGS**' Pulling Tool size.

D. Pulling the Plug Assembly with the Keys:

- Use appropriate '**ROTSB**' Pulling Tool size to pull the Prong first.
- Use appropriate '**ROTGS**' Pulling Tool size to pull the Lock Mandrel.

NOTE: The advantage of the Modified Test Plug (with extra-long Prong) use is that it minimizes the risk of being stuck beneath sand or scale after pressure testing the Tubing.

When ordering: Specify the Type and Size of the Lock Mandrel and desired Length of the Prong.





SECTION VIII: TEST TOOLS & CHECK VALVES

Type '**CVR**' - '**CVRN**' and '**CVX**' - '**CVXN**' Check Valve (Standing Valve) Assembly

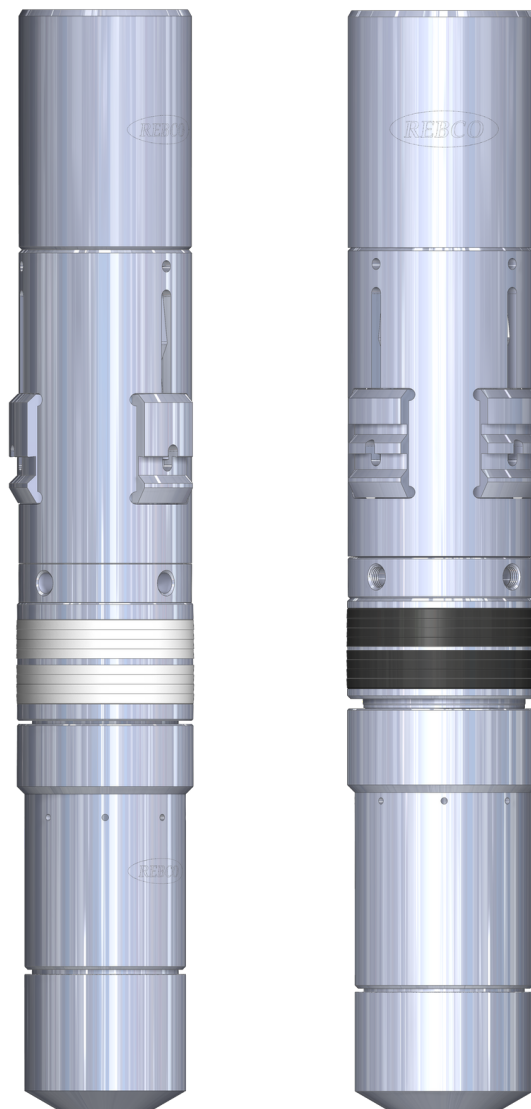
Check Valve Assembly holds pressure from above only, while allowing the pressure and fluid by-pass from below.

The Check Valve Assembly is run/pull into the well as any other 'Equalizing Valve Type Plug Choke' within the Nominal Size and compatible profile type. (See [Section XVI](#))

Product Code: 14

NOTE: The equalizing ports of the modified Equalizing Valve Sub can be enlarged to suit.

When ordering: please state the Size, Profile type and material required.



3.313" 'CVX'

3.688" 'CVR'