



<b>SECTION VIII: TEST TOOLS and CHECK VALVES</b>	Product
	12, 14

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**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 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.
5. **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.



# SECTION VIII: TEST TOOLS and CHECK VALVES

**Product**  
**12, 14**

**REBCO**

## Product Code 12

### 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 'ROT' Nipple profile. The assembly is not locked in the Nipple profile. The No-Go, Part of the Packing Mandrel, (DET-10) 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.

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



DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO	PART NO
1	FISHING NECK	1	2210166203	2210166203	2210166203	2210166603	2210166603
2	BALL	1	1832116	1832116	1832116	1832132	1832132
3 *	'O' RING SEAL	1	911221112714	911221112714	911221112714	911221113314	911221113314
4 *	'O' RING SEAL	2	911221112414	911221112414	911221112414	911221112814	911221112814
5	BALL SEAT	1	1950111303	1950111303	1950111303	1950113903	1950113903
6	BY-PASS MANDREL	1	1950125703	1950125703	1950125703	1950113503	1950113503
7	EQUALIZING SLEEVE	1	2110106603	2110106603	2110106603	1950113403	1950113403
8 *	SHEAR SCREW	2	18576240250	18576240250	18576240250	18576240312	18576240312
9 *	'O' RING SEAL	1	911221121814	911221121814	911221121814	911221122214	911221122214
10	PACKING MANDREL	1	1950146103	1950134003	1950146203	1950134103	1950146303
11	CENTRE ADAPTER	1	1950119300	1950119400	2770152300	1950119600	1950119700
12 *	'V' PACKING	4	186217	186218	186219	186216	186214
13	FEMALE ADAPTER	1	1950120600	1950120700	1950120800	1950120900	1950121000
14	RETAINING NUT	1	2150164603	1950128103	1950128103	1950128203	1950128203
REDRESS KIT (* Included as part of Kit)			12250124178	12250124181	12250124187	12250124225	12250124231

#### 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
WEIGHT lbs (kg)		5.3 (2.40)	5.4 (2.45)	5.6 (2.54)	10.6 (4.80)	10.8 (4.89)
RUNNING TOOL	Type 'ROTC-1'	41022012370	41022012370	41022012370	41022012870	41022012870
	Type 'ROTSB'	4014012000	4014012000	4014012000	4014012500	4014012500
PULLING TOOL	Type 'ROTJDC'	400703022000	400703022000	400703022000	400703022500	400703022500

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



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## Type 'ROTFB-2' Equalizing Check Valve Assembly: Continued



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

DET	PART NAME	QTY	PART NO	PART NO	PART NO
1	FISHING NECK	1	2210166603	2210166503	2210166503
2	BALL	1	1832132	1832144	1832144
3 *	'O' RING SEAL	1	911221113314	911221114114	911221114114
4 *	'O' RING SEAL	2	911221112814	911221113514	911221113514
5	BALL SEAT	1	1950113903	2750160603	2750160603
6	BY-PASS MANDREL	1	1950113503	1960134603	1960134603
7	EQUALIZING SLEEVE	1	1950113403	1960134703	1960134703
8 *	SHEAR SCREW	2	18576240375	18576240312	18576240312
9 *	'O' RING SEAL	1	911221122214	911221122514	911221122514
10	PACKING MANDREL	1	8590191803	1960134803	1960134903
11	CENTRE ADAPTER	1	2200110400	1950119800	1950119900
12 *	'V' PACKING	4	1862114	186212	186211
13	FEMALE ADAPTER	1	2200110500	1950121100	1950121200
14	RETAINING NUT	1	8590126403	2110106803	2110106803
REDRESS KIT (* Included as part of Kit)			12250124256	12250124275	12250124281

### 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
WEIGHT lbs (kg)	16.2 (7.35)	17.4 (7.89)	17.6 (7.98)
RUNNING TOOL	Type 'ROTC-1'	41022012870	41022013500
PULLING TOOL	Type 'ROTSB'	4014012500	4014013000
	Type 'ROTJDC'	400703022500	400703023000

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



DET	PART NAME	QTY	PART NO	PART NO	PART NO
1	FISHING NECK	1	2120160903	2120160903	2120160903
2	BALL	1	1832144	1832144	1832144
3 *	'O' RING SEAL	1	911221114114	911221114114	911221114114
4 *	'O' RING SEAL	2	911221113514	911221113514	911221113514
5	BALL SEAT	1	2750160603	2750160603	2750160603
6	BY-PASS MANDREL	1	1960134603	1960134603	1960134603
7	EQUALIZING SLEEVE	1	2120161203	2120161203	2120161203
8 *	SHEAR SCREW	2	18576240312	18576240312	18576240312
9 *	'O' RING SEAL	1	911221122514	911221122514	911221122514
10	PACKING MANDREL	1	2110108603	8540125803	2100135203
11	CENTRE ADAPTER	1	2020175410	2340104810	1980147610
12 *	'V' PACKING	4	1862144	1862145	1862146
13	FEMALE ADAPTER	1	2020175500	2340104900	1980147700
14	RETAINING NUT	1	2020117403	2380103203	2100135003
REDRESS KIT (* Included as part of Kit)			12250124368	12250124375	12250124381

### 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
WEIGHT lbs (kg)	24.9 (11.29)	25.1 (11.39)	26.2 (11.88)
RUNNING TOOL	Type 'ROTC-1'	41022014500	41022014500
PULLING TOOL	Type 'ROTSB'	4014014000	4014014000
	Type 'ROTJDC'	400703024000	400703024000



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### 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 'ROTBR' 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.

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



DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO	PART NO
1	FISHING NECK	1	2210166203	2210166203	2210166203	2210166603	2210166603
2	BALL	1	1832116	1832116	1832116	1832132	1832132
3 *	'O' RING SEAL	1	911221112714	911221112714	911221112714	911221113314	911221113314
4 *	'O' RING SEAL	2	911221112414	911221112414	911221112414	911221112814	911221112814
5	BALL SEAT	1	1950111303	1950111303	1950111303	1950113903	1950113903
6	BY-PASS MANDREL	1	1950125703	1950125703	1950125703	1950113503	1950113503
7	EQUALIZING SLEEVE	1	2110106603	2110106603	2110106603	1950113403	1950113403
8 *	SHEAR SCREW	2	18576240250	18576240250	18576240250	18576240312	18576240312
9 *	'O' RING SEAL	1	911221121814	911221121814	911221121814	911221122214	911221122214
10	PACKING MANDREL	1	2110108303	2110108303	2110108303	2110108403	2310165503
11	CENTRE ADAPTER	1	1950119300	1950119400	2770152300	1950119600	1950119700
12 *	'V' PACKING	4	186217	186218	186219	186216	186214
13	FEMALE ADAPTER	1	1950120600	1950120700	1950120800	1950120900	1950121000
14	RETAINING NUT	1	2150164603	1950128103	2600130403	1950128203	2310165403
REDRESS KIT (* Included as part of Kit)			12250124178	12250124181	12250124187	12250124225	12250124231

**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
WEIGHT lbs (kg)		5.3 (2.40)	5.4 (2.45)	5.4 (2.45)	10.4 (3.08)	10.7 (4.72)
RUNNING TOOL	Type 'ROTC-1'	41022012370	41022012370	41022012370	41022012870	41022012870
	Type 'ROTSB'	4014012000	4014012000	4014012000	4014012500	4014012500
PULLING TOOL	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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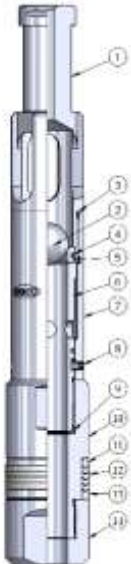
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REBCO

## Type 'ROTRB-2' Equalizing Check Valve Assembly: Continued

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



DET	PART NAME	QTY	PART NO	PART NO	PART NO
1	FISHING NECK	1	2210166603	2210166503	2210166503
2	BALL	1	1832132	1832144	1832144
3 *	'O' RING SEAL	1	911221113314	911221114114	911221114114
4 *	'O' RING SEAL	2	911221112814	911221113514	911221113514
5	BALL SEAT	1	1950113903	2750160603	2750160603
6	BY-PASS MANDREL	1	1950113503	1960134603	1960134603
7	EQUALIZING SLEEVE	1	1950113403	1960134703	1960134703
8 *	SHEAR SCREW	2	18576240375	18576240312 (4)	18576240312
9 *	'O' RING SEAL	1	911221122214	911221122514	911221122514
10	PACKING MANDREL	1	2650122203	2110108503	2960191003
11	CENTRE ADAPTER	1	2200110400	1950119800	1950119900
12 *	'V' PACKING	4	1862114	186212	186211
13	FEMALE ADAPTER	1	2200110500	1950121100	1950121200
14	RETAINING NUT	1	2650132903	2110106803	2960144703
REDRESS KIT (* Included as part of Kit)			12250124256	12250124275	12250124281

### 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
WEIGHT lbs (kg)	12.1 (5.49)	17.1 (7.76)	17.6 (7.98)
RUNNING TOOL	Type 'ROTC-1'	41022012870	41022013500
PULLING TOOL	Type 'ROTSB'	4014012500	4014013000
	Type 'ROTJDC'	400703022500	400703023000

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



DET	PART NAME	QTY	PART NO	PART NO	PART NO
1	FISHING NECK	1	2120160903	2120160903	2120160903
2	BALL	1	1832144	1832144	1832144
3 *	'O' RING SEAL	1	911221114114	911221114114	911221114114
4 *	'O' RING SEAL	2	911221113514	911221113514	911221113514
5	BALL SEAT	1	2750160603	2750160603	2750160603
6	BY-PASS MANDREL	1	1960134603	1960134603	1960134603
7	EQUALIZING SLEEVE	1	2120161203	2120161203	2120161203
8 *	SHEAR SCREW	2	18576240312	18576240312	18576240312
9 *	'O' RING SEAL	1	911221122514	911221122514	911221122514
10	PACKING MANDREL	1	2020117503	2380102703	2110108703
11	CENTRE ADAPTER	1	2020175410	2340104810	1980147610
12 *	'V' PACKING	4	1862144	1862145	1862146
13	FEMALE ADAPTER	1	2020175500	2340104900	1980147700
14	RETAINING NUT	1	2020117403	2380103203	2100135003
REDRESS KIT (* Included as part of Kit)			12250124368	12250124375	12250124381

### 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
WEIGHT lbs (kg)	24.9 (11.29)	25.1 (11.39)	26.2 (11.88)
RUNNING TOOL	Type 'ROTC-1'	41022014500	41022014500
PULLING TOOL	Type 'ROTSB'	4014014000	4014014000
	Type 'ROTJDC'	400703024000	400703024000



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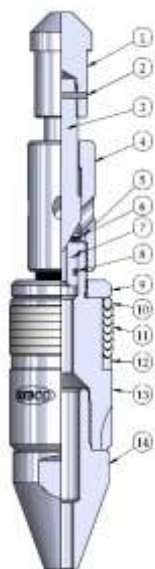
## Type 'ROTN' (Non-Selective) Test Tool Assembly: 2" – 5 1/2"

*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.



NOMINAL SIZE	2"		2 1/2"	
NIPPLE - SEAL SIZE	1.781"	1.875"	2.188"	2.313"
ASSEMBLY NUMBER	14102017830	14102018730	14102021830	14102023130

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO
1	Fishing Neck	1	1414500	1414500	1414500	1414500
2 *	Pin	1	18810211872	18810211872	18810211872	18810211872
3	Drop	1	1414146	1414146	1414146	1414146
4	Cage	1	1414502	1414502	1414502	1414502
5	Packing Retainer	1	1414144	1414144	1414144	1414144
6 *	Seal Ring	1	911558	911558	911558	911558
7	Seat Insert	1	1414145	1414145	1414145	1414145
8 *	'O' Ring Seal	1	911221111306	911221111306	911221111306	911221111306
9	Packing Nut	1	1414220	1614500	1414221	1414518
10	Male Adapter	1	1011145	1014515	1014702	1014223
11 *	'V' Packing	Min 6	1862119	186213	1862113	186214
12	Female Adapter	1	1013506	1014162	1014703	1014517
13	Packing Mandrel	1	141417830	1414503	141421830	1414504
14	Bull Nose	1	14141783	14141873	14142183	14142313
REDRESS KIT (* Included as part of Kit)			14102024178	14102024187	14102024218	14102024231

### 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	'ROTSB'	4014011500	4014012000	4014012000	4014012000
	'ROTJDC'	400703021500	400703022000	400703022000	400703022000

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





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**REBCO**

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

NOMINAL SIZE	3 1/2"			
NIPPLE - SEAL SIZE	2.562"	2.750"	2.813"	2.875"
ASSEMBLY NUMBER	14102025630	14102027530	14102028130	14102028730

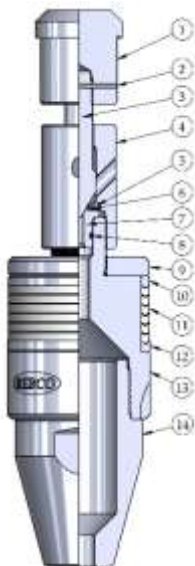


DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO
1	Fishing Neck	1	1414500	1414524	1414524	1414524
2 *	Pin	1	18810211872	18810215002	18810215002	18810215002
3	Drop	1	1414146	1414146	1414146	1414146
4	Cage	1	1414502	1414500	1414500	1414500
5	Packing Retainer	1	1414144	1414144	1414144	1414144
6 *	Seal Ring	1	911558	911558	911558	911558
7	Seat Insert	1	1414145	1414145	1414145	1414145
8 *	'O' Ring Seal	1	911221111306	911221111306	911221111306	911221111306
9	Packing Nut	1	1414228	1414522	1414522	1414522
10	Male Adapter	1	912111116	10181063	1018561	2214108
11 *	'V' Packing	Min 6	1862118	186212	186211	186215
12	Female Adapter	1	100556	2203463	1018562	2214109
13	Packing Mandrel	1	141425630	1414510	1414511	1414512
14	Bull Nose	1	14142563	14143503	14143503	14143503
REDRESS KIT (* Included as part of Kit)			14102024256	14102024275	14102024281	14102024287

### 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
RUNNING/PULLING TOOL	'ROTSB'	4014012000	4014012500	4014012500
	'ROTJDC'	400703022000	400703022500	400703022500

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



DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO
1	Fishing Neck	1	1414523	1414523	1414523	1414523
2 *	Pin	1	18810220502	18810220502	18810220502	18810220502
3	Drop	1	1414146	1414146	1414146	1414146
4	Cage	1	1414500	1414500	1414500	1414500
5	Packing Retainer	1	1414144	1414144	1414144	1414144
6 *	Seal Ring	1	911558	911558	911558	911558
7	Seat Insert	1	1414145	1414145	1414145	1414145
8 *	'O' Ring Seal	1	911221111306	911221111306	911221111306	911221111306
9	Packing Nut	1	1414226	1414519	1414227	1414520
10	Male Adapter	1	912111108	1014496	10141672	11200167
11 *	'V' Packing	Min 6	1862123	1862122	1862127	1862121
12	Female Adapter	1	101932	10141340	11200152	1206277
13	Packing Mandrel	1	141436830	1414513	141441230	1414514
14	Bull Nose	1	14143683	14143813	14144123	14144563
REDRESS KIT (* Included as part of Kit)			14102024368	14102024381	14102024412	14102024456

### 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
RUNNING/PULLING TOOL	'ROTSB'	4014013000	4014013000	4014013000
	'ROTJDC'	400703023000	400703023000	400703023000



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# REBCO

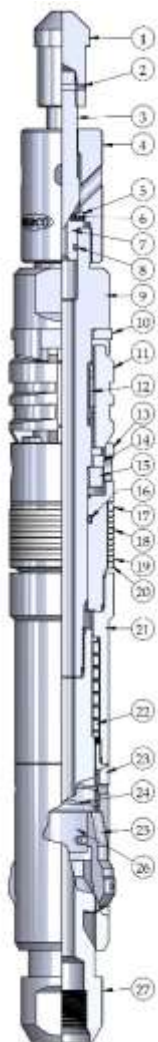
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## Type 'ROTR' and Type 'ROTX' Selective Test Tool Assembly: 2" – 3 1/2"

*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 Keys (**DET 11**, retracted); 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.



Type 'ROTR' STT

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

DET	PART NAME	QTY	PART NO	PART NO
1	Fishing Neck	1	14146	141479
2 *	Pin	1	18810210002	18810212502
3	Drop	1	141413	1414180
4	Cage	1	14145	141872
5	Packing Retainer	1	1414210	1414210
6 *	Seal Ring	1	911558	911558
7	Seat Insert	1	1414212	1414212
8 *	'O' Ring Seal	1	911221111306	911221111306
9	Locating Mandrel	1	141856	141394
10	Key Retainer	1	141857	141390
11	Key	2	141376	141395
12 *	Spring	2	900044	900044
13	Packing Mandrel	1	141853	141393
14	Lower Retainer	1	141851	141387
15	Nut	1	141850	141391
16 *	'O' Ring Seal	1	911221121706	911221121806
17	Double Male Adapter	1	1014224	91214036
18 *	'V' Packing	8	186214	1862118
19	Back-Up Ring	-	None	None
20	Female Adapter	1	10141582	100564
21	Spring Housing	1	141374	141389
22	Spring	1	9000221	9000221
23	Dog Retainer	1	141375	141388
24	Spring	1	9000222	9000222
25	Split Ring	2	411392	411392
26	Locator Dog	2	411391	411396
27	Main Mandrel	1	141377	141392
<b>REDRESS KIT (* Included as part of Kit)</b>			<b>14132024231</b>	<b>14132024256</b>

**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	
WEIGHT lbs (kg)	17.1 (7.77)	22.9 (10.39)	
PRESSURE RATING from ABOVE	Type 'ROTR' Nipple	18,500 psi	19,000 psi
	Type 'ROTRN' Nipple	17,000 psi	18,000 psi
<b>RUNNING/PULLING TOOL Type 'ROTSSJ' (PRODUCT 40)</b>		<b>401414072000</b>	<b>401414072000</b>





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

*Rebco* Type 'ROTX' Selective Test Tool selectively locates and lands in Type '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 (DET 3)** with a Pulling Tool attached to the **Fishing Neck (DET 1)**.



Type 'ROTX' STT

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

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO
1	Fishing Neck	1	14146	14146	141340	141340
2 *	Pin	1	18810210002	18810210002	18810212502	18810212502
3	Drop	1	141413	141413	141413	141413
4	Cage	1	14145	14145	141872	141872
5	Packing Retainer	1	1414210	1414210	1414210	1414210
6 *	Seal Ring	1	911558	911558	911558	911558
7	Seat Insert	1	1414212	1414212	1414212	1414212
8 *	'O' Ring Seal	1	911221111306	911221111306	911221111306	911221111306
9	Locating Mandrel	1	141848	141856	141873	141873
10	Key Retainer	1	141845	141857	141874	141874
11	Key	2	141846	141858	141875	1418113
12 *	Spring	2	900044	900044	900044	900044
13	Packing Mandrel	1	141844	141853	141876	1418110
14	Lower Retainer	1	141847	141851	4201334	4201334
15	Nut	1	141849	141850	141877	141877
16 *	'O' Ring Seal	1	911221121306	911221121706	911221122306	911221122306
17	Double Male Adapter	1	110143	1014224	1014486	1018561
18 *	'V' Packing	6	186213	186214	1862143	186211
19	Back-Up Ring	1	None	None	None	None
20	Female Adapter	1	10141932	10141582	1014485	1018562
21	Spring Housing	1	141843	141855	141878	1418109
22	Spring	1	900030	900032	900059	900059
23	Dog Retainer	1	141842	141852	141879	1418112
24	Spring	1	900031	900033	900058	900058
25	Split Ring	2	41182	411813	141881	141881
26	Locator Dog	2	411876	411874	4118462	4118518
27	Main Mandrel	1	141841	141854	141880	1418111
<b>REDRESS KIT (*Included as part of Kit)</b>			<b>14182024187</b>	<b>14182024231</b>	<b>14132024275</b>	<b>14182024281</b>

### 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"
LENGTH	23.08"	24.50"	26.12"	26.12"
BOTTOM THREAD	3/8" NPT	1" LP	1" LP	1" LP
MATERIAL *	Alloy	Alloy	Alloy	Alloy
WEIGHT lbs (kg)	15.3 (6.94)	17.1 (7.77)	24.3 (11.02)	25.5 (11.57)
PRESSURE RATING from ABOVE (Set in Nipple)	Type 'ROTX'	10,000 psi	10,000 psi	9,000 psi
	Type 'ROTXN'	8,000 psi	8,000 psi	8,000 psi
<b>RUNNING/PULLING TOOL Type 'ROTSSJ' (Product Code 40)</b>	<b>401414072000</b>	<b>401414072000</b>	<b>401414072500</b>	<b>401414072500</b>



## SECTION VIII: TEST TOOLS and CHECK VALVES

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#### 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**.





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### 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](#))

**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.