



## SECTION XV: EQUALIZING SUB-ASSEMBLIES and ACCESSORIES

Type '**ROTR**' Equalizing Valve Sub-Assembly: **1.500" – 3.813"**

**Rebco** Type '**ROTR**' Equalizing Sub-Assembly is to be used with Type 'ROTR' and Type 'ROTRN' Lock Mandrels.

These Sub-Assemblies are designed to allow pressure differentials to be equalized across the Lock Mandrels and Flow controls before attempting to retrieve them from respective Landing Nipples.

Product Code: 20



### TECHNICAL DATA

|                 |             |             |             |             |
|-----------------|-------------|-------------|-------------|-------------|
| NOMINAL SIZE    | 1.500"      | 1.710"      | 1.781"      | 1.875"      |
| ASSEMBLY NUMBER | 20132015030 | 20132017130 | 20132017830 | 20132018730 |

### ENGINEERING DATA:

|                       |             |             |             |             |
|-----------------------|-------------|-------------|-------------|-------------|
| MAXIMUM OD – No-Go    | 1.495"      | 1.705"      | 1.776"      | 1.870"      |
| BOX THREAD CONNECTION | 1 1/8" - 16 | 1 1/8" - 16 | 1 3/8" - 14 | 1 3/8" - 14 |
| PIN THREAD CONNECTION | 1 1/8" - 16 | 1 1/8" - 16 | 1 3/8" - 14 | 1 3/8" - 14 |
| LENGTH                | 8.12"       | 8.12"       | 8.12"       | 8.12"       |
| MATERIAL*             | Norm Alloy  | Norm Alloy  | Norm Alloy  | Norm Alloy  |

|                                  |                       |             |             |             |             |
|----------------------------------|-----------------------|-------------|-------------|-------------|-------------|
| To be used with<br>Lock Mandrel  | Type ' <b>ROTR</b> '  | 10132015030 | 10132017130 | 10132017830 | 10132018730 |
|                                  | Type ' <b>ROTRN</b> ' | 10131015030 | 10131017130 | 10131017830 | 10131018730 |
| Sub-Assembly without Cap (DET 5) |                       | 20132015031 | 20132017131 | 20132017831 | 20132018731 |



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Type 'ROTR' Equalizing Valve Sub-Assembly:

| TECHNICAL DATA        |             |             |             |             |
|-----------------------|-------------|-------------|-------------|-------------|
| NOMINAL SIZE          | 2.000"      | 2.125"      | 2.188"      | 2.313"      |
| ASSEMBLY NUMBER       | 20132020030 | 20132021230 | 20132021830 | 20132023130 |
| ENGINEERING DATA:     |             |             |             |             |
| MAXIMUM OD – No-Go    | 1.995"      | 2.120"      | 2.183"      | 2.308"      |
| BOX THREAD CONNECTION | 1 3/8" - 14 | 1 3/8" - 14 | 1 3/4" - 12 | 1 3/4" - 12 |
| PIN THREAD CONNECTION | 1 3/8" - 14 | 1 3/8" - 14 | 1 3/4" - 12 | 1 3/4" - 12 |
| LENGTH                | 8.12"       | 8.12"       | 8.12"       | 8.12"       |
| MATERIAL*             | Norm Alloy  | Norm Alloy  | Norm Alloy  | Norm Alloy  |

|                                  |              |             |             |             |             |
|----------------------------------|--------------|-------------|-------------|-------------|-------------|
| To be used with<br>Lock Mandrel  | Type 'ROTR'  | 10132020030 | 10132021230 | 10132021830 | 10132023130 |
|                                  | Type 'ROTRN' | 10131020030 | 10131021230 | 10131021830 | 10131023130 |
| Sub-Assembly without Cap (DET 5) |              | 20132020031 | 20132021231 | 20132021831 | 20132023131 |

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





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### Type 'ROTR' Equalizing Valve Sub-Assembly:

| TECHNICAL DATA        |             |                 |                 |                 |
|-----------------------|-------------|-----------------|-----------------|-----------------|
| NOMINAL SIZE          | 2.562"      | 2.750"          | 2.813"          | 2.875"          |
| ASSEMBLY NUMBER       | 20132025630 | 20132027530     | 20132028130     | 20132028730     |
| ENGINEERING DATA:     |             |                 |                 |                 |
| MAXIMUM OD – No-Go    | 2.557"      | 2.745"          | 2.808"          | 2.869"          |
| BOX THREAD CONNECTION | 2" - 12 SLB | 2 1/4" - 12 SLB | 2 1/4" - 12 SLB | 2 1/4" - 12 SLB |
| PIN THREAD CONNECTION | 2" - 12 SLB | 2 1/4" - 12 SLB | 2 1/4" - 12 SLB | 2 1/4" - 12 SLB |
| LENGTH                | 8.12"       | 9.12"           | 9.12"           | 9.12"           |
| MATERIAL*             | Norm Alloy  | Norm Alloy      | Norm Alloy      | Norm Alloy      |

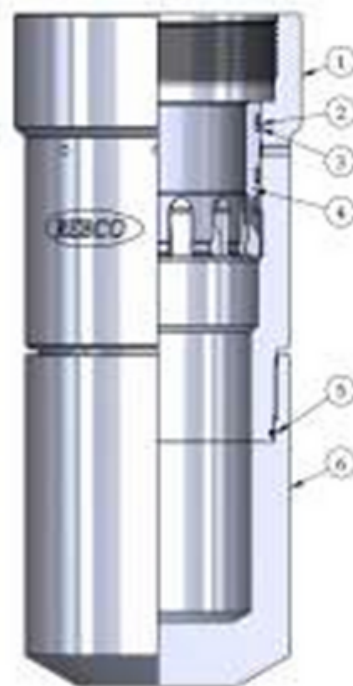
|                                  |              |             |             |             |             |
|----------------------------------|--------------|-------------|-------------|-------------|-------------|
| To be used with<br>Lock Mandrel  | Type 'ROTR'  | 10132025630 | 10132027530 | 10132028130 | 10132028730 |
|                                  | Type 'ROTRN' | 10131025630 | 10131027530 | 10131028130 | 10131028730 |
| Sub-Assembly without Cap (DET 6) |              | 20132025631 | 20132027531 | 20132028131 | 20132028731 |



| TECHNICAL DATA        |                 |                  |                  |
|-----------------------|-----------------|------------------|------------------|
| NOMINAL SIZE          | 3.437"          | 3.688"           | 3.813"           |
| ASSEMBLY NUMBER       | 20132034330     | 20132036830      | 20132038130      |
| ENGINEERING DATA:     |                 |                  |                  |
| MAXIMUM OD – No-Go    | 3.431"          | 3.682"           | 3.807"           |
| BOX THREAD CONNECTION | 2 3/4" - 12 SLB | 3 1/16" - 12 SLB | 3 1/16" - 12 SLB |
| PIN THREAD CONNECTION | 2 3/4" - 12 SLB | 3 1/16" - 12 SLB | 2 3/4" - 12 SLB  |
| LENGTH                | 8.63"           | 8.63"            | 8.63"            |
| MATERIAL*             | Norm Alloy      | Norm Alloy       | Norm Alloy       |

|                                  |              |             |             |             |
|----------------------------------|--------------|-------------|-------------|-------------|
| To be used with<br>Lock Mandrel  | Type 'ROTR'  | 18132034330 | 18132036830 | 18132038130 |
|                                  | Type 'ROTRN' | 18131034330 | 18131036830 | 18131038130 |
| Sub-Assembly without Cap (DET 6) |              | 20132034331 | 20132036831 | 20132038131 |



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

**NOTE:** Equalizing Sub-Assemblies are available in variety of Materials, suitable for down-hole conditions.