



PURPOSE

R Lock is selective lock which can be installed in the chosen R-type landing nipple in a series of R nipples of the same size. It is utilized in heavier weight tubing and because of the high well pressure. This type of lock uses keys to employ a unified packing mandrel and profile in landing nipples which allow it to hold the pressure distinctions from either below or above depending on the equalizing assembly chosen.

ASSEMBLY PARTS

- 1. Fishneck
- 2. Expander Sleeve
- 3. Key Retainer
- 4. Key Spring
- 5. Keys
- 6. Packing Mandrel
- 7. Female Adapter
- 8. V-Packing
- 9. Male Adapter

DESCRIPTION

The R Lock mandrels with the flow control components are designed for the R seating nipples installed in heavy weight tubing.

These lock mandrels similar in design are selective, this is made possible by their running tools.

The lock mandrels may be installed in any one of multiple seating nipples installed in the tubing string of comparable size.

Once the desired nipple has been located in the tubing string these mandrels are mechanically locked. This is done by driving the expander sleeve behind the keys, holding the mandrel in a locked position.

OPERATION

The R Lock mandrels are ran selective, or can be ran in the non selective position when setting in the upper R profile in the tubing completion string.

Both the running positions are built into the running tool which has a set of locating dogs to selectively run and set the lock mandrels in the lower nipples in the string.

The running tool is changed to a non selective position once the desired selective nipple has been located. This is done by lowering the running tool with the lock mandrel through the nipple profile and then pulling back up through. The R running tool procedures are explained in the X running tool operation in the running tools section.

(Sizes on next page)

When ordering please specify part name and size. Call us Toll Free: 1-800-438-0061

| Nominal Size | | 1.710" | 1.781" | 1.875" | 2.00" |
|--------------------------|-----------------|--------------|--------------|--------------|--------------|
| Assembly Number | | 0802R171A0 | 0802R178A0 | 0802R187A0 | 0802R200A0 |
| Item | Part Name | | | | |
| 1 | Fishneck | 0802R17101 | 0802R17801 | 0802R18701 | 0802R20001 |
| 2 | Expander Sleeve | 0802R17102 | 0802R17802 | 0802R18702 | 0802R20002 |
| 3 | Key Retainer | 0802R17103 | 0802R17803 | 0802R18703 | 0802R20003 |
| 4 | Key Spring | 0802X15005 | 0802X15005 | 0802X20005 | 0802X20005 |
| 5 | Key "R" | 0802R17104 | 0802R17804 | 0802R18704 | 0802R20004 |
| 6 | Packing Mandrel | 0802R17106 | 0802R17806 | 0802R18706 | 0802R20006 |
| 7 | Female Adapter | 0902BUR17101 | 0902BUR17801 | 0902BUR18701 | 0902BUR20001 |
| 8 | V-Packing | 0802VP17101 | 0802VP17801 | 0802VP18701 | 0802PV20001 |
| 9 | Male Adapter | 0902BUR17102 | 0902BUR17802 | 0902BUR18702 | 0902BUR20002 |
| Bottom Thread Connection | | 1.125" - 16 | 1.375" - 14 | 1.375" - 14 | 1.375" - 14 |
| Fishneck size | | 1.062" | 1.375" | 1.375" | 1.375" |

| Nominal Size | | 2.125" | 2.188" | 2.313" | 2.56" |
|--------------------------|-----------------|--------------|--------------|--------------|----------------|
| Assembly Number | | 0802R212A0 | 0802R218A0 | 0802R231A0 | 0802R256A0 |
| Item | Part Name | | | | |
| 1 | Fish Neck | 0802R21201 | 0802R21801 | 0802R21801 | 0802R25601 |
| 2 | Expander Sleeve | 0802R21202 | 0802R21802 | 0802R21802 | 0802R25602 |
| 3 | Key Retainer | 0802R21203 | 0802R21803 | 0802R23103 | 0802R25603 |
| 4 | Key Spring | 0802X20005 | 0802X20005 | 0802X20005 | 0802X20005 |
| 5 | Key "R" | 0802R21204 | 0802R21804 | 0802R23104 | 0802R25604 |
| 6 | Packing Mandrel | 0802R21206 | 0802R21806 | 0802R23106 | 0802R25606 |
| 7 | Female Adapter | 0902BUR21201 | 0902BUR21801 | 0902BUR23101 | 0902BUR25601 |
| 8 | V-Packing | 0802PV21201 | 0802PV21801 | 0802VP23101 | 0802VP25601 |
| 9 | Male Adapter | 0902BUR21202 | 0902BUR21802 | 0902BUR23102 | 0902BUR25602 |
| Bottom Thread Connection | | 1.375" - 14 | 1.75" - 12 | 1.75" - 12 | 2.00" - 12 SLB |
| Fishneck size | | 1.375" | 1.812" | 1.812" | 1.812" |

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