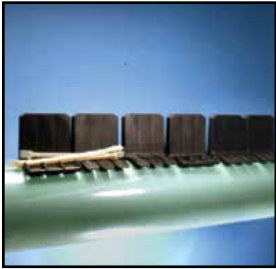


RANGER II® Casing Spacer

INSTALLATION INSTRUCTIONS



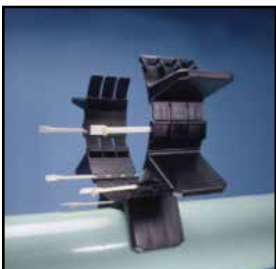
1. Size the RANGER II® casing spacer to make sure you have all the segments and Slide-Locks.



2. Take the segments and align the buckles. Insert the buckles 1/4 of the way into the slots. For GKO-XL position of the buckles (wedges) per element can be located in the table on following page.



3. Locate the directional arrows on the segment and insert Slide-Lock until the tip exits the end of the segment.



4. Continue the process from the previous step until all segments are put together. You're now ready to wrap the RANGER II® around the pipe.



5. Align the buckles and lock into place. Take the final Slide-Lock and slide into place.

NOTE:

Make sure buckles are uniformly aligned and inserted into slots.



6. Insert all Slide-Locks as far as possible by hand. Complete tightening by tapping each Slide-Lock with a light rubber headed hammer.



7. To tighten RANGER II® securely to carrier pipe, back Slide-Lock completely out of the slot. If needed, push segments together by hand.



8. Re-insert Slide-Locks completely into segments by lightly tapping Slide-Lock back into position.

NOTE:

Make sure buckles are uniformly aligned and inserted into slots.



9. Repeat steps 7 and 8 until RANGER II® is secure against the carrier pipe and unable to move.

NOTE:

Properly installed slide-locks will rarely be driven all the way in. To secure a tight fit drive as far as possible, but if all are driven completely, (bottomed out) it may not be tight enough. Verify RANGER II® casing spacer cannot slide on carrier pipe.

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