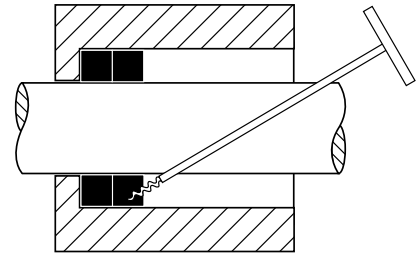


Compression Packing Installation Instructions

1. Flush system. **Lock-out** motor. **Close** valves. **Relieve** all pressure. Wear appropriate safety clothing and eye protection.

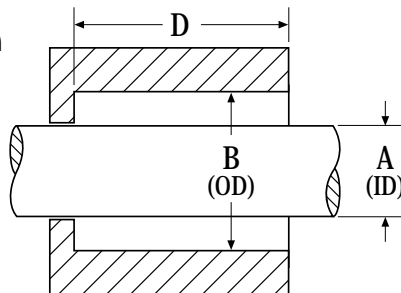
2. Remove all the old packing by using a Dura Hook. Aim the hook at the bore to protect the shaft. Clean the sleeve and box thoroughly. Use a mirror to examine for pitting, wear and scoring. Replace sleeve if necessary. Lift shaft to check bearings. Replace bearings if necessary.



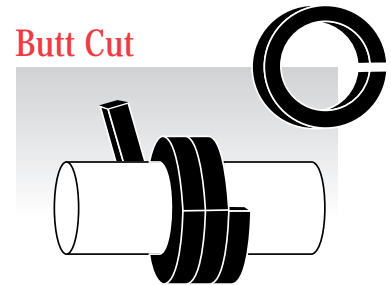
3. Use correct cross section and number of rings.

$$\frac{B-A}{2} = \text{Cross Section}$$

$$\frac{D-\text{Lantern Ring}}{\text{Cross Section}} = \text{Number of Rings}$$



Butt Cut

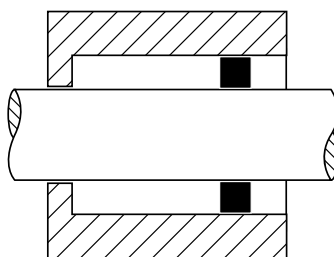


4. Cut, do not wind. Use TFE pipe thread tape to prevent unraveling. Cut on mandrel the same size as the sleeve. **Do not stretch**. Slide rings from mandrel. **Do not flatten out**. **Keep clean**. Pre-engineered rings require no cutting.

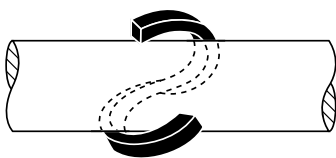
Diagonal Cut



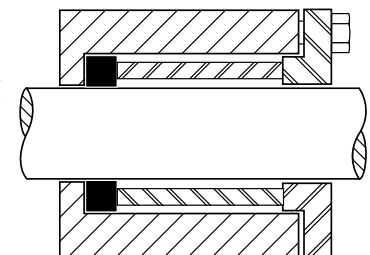
5. Install one ring at a time. Use compatible lubricant on the box bore, sleeve and packing.



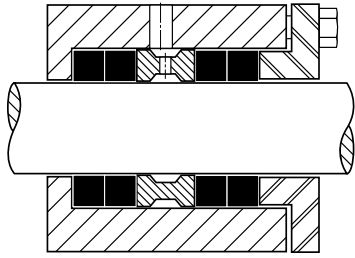
Use "S" twist to install ring on sleeve.



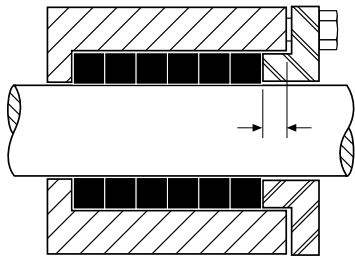
Press ring into the bottom of the box and seat gently with tamping tool or split bushing. Rotate shaft after each ring is installed. Stagger joints 180°. Seat rings of foil packing very firmly.



6. The **Lantern Ring** should be installed if needed. Locate under the lantern ring tap.



7. **Tighten the gland ring** slightly. The nose of the gland should insert into the stuffing box 1/8". Rotate the shaft by hand.



8. **Do not start up dry.** Remove lock-out, turn on seal water to the lantern ring, and open the valves. Flood the pump and vent the air.

9. **Allow packing to leak** freely at first and gradually tighten gland to an allowable leakage rate. Allow 24 hours break-in time. **Do not overtighten.**

Suggested Leakage Rates

Shaft Diameter	Running Leakage	Break-in Leakage Equals 2 x Running Leakage
Up to 1"	3 cc/min.	
2"	6 cc/min.	
3"	9 cc/min.	
4"	12 cc/min.	
6"	18 cc/min.	
8"	24 cc/min.	1 cc = 15 drops
10"	30 cc/min.	

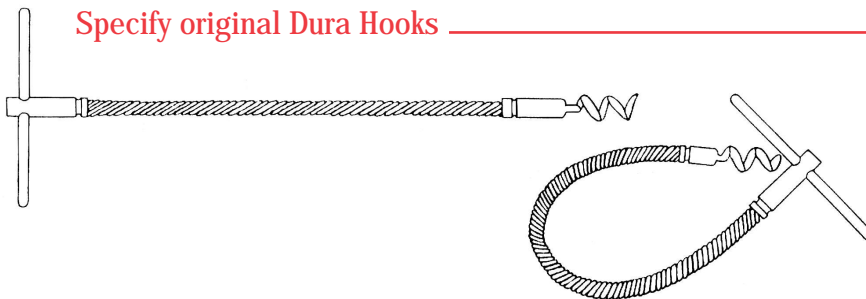
10. **Replace packing** when leakage can not be controlled by further take up of the gland.

11. **Dispose of used packing** in accordance with local, state, and federal regulations.

Valve packing is installed using the above steps except that the gland can be tightened to eliminate leakage. **Do not over tighten** so the valve stem can not be turned. Retighten after a day even if no leakage occurs.

Storage Procedures: Refer to *Recommended Storage Procedures for Compression Packings, FTA109.*

Specify original Dura Hooks



Order Hook Number	For Packing Sizes
1	1/4 - 5/16"
2	3/8"
3	7/16 - 1/2"
4	9/16 - 5/2"
5	11/16 - 1"
5	11/16 - 1"

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