


Fitting Guide for Lion® Expanding — hydraulic packing set for rods/glands

i This packing set needs slight axial compression in its housing


1



For Health & Safety reasons, shut down the hydraulic system before installing your new packing set.

Shut off power


2



Check the packing rings, gland housing and rod. Ensure that each ring is correct size for rod/gland, and housing is suitable for the packing set.

Check sizes of rings, rod & housing


3



Remove all components of old seal, then thoroughly clean the gland housing.

Remove old seal and clean the housing

4



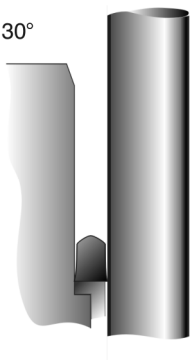
Lightly lubricate rings and housing with the hydraulic fluid prior to assembly. Occasional applications of a suitable lubricant to rods during service will prolong the life of the packing set.

Lubricate rings & housing

A: Endless Lion® Expanding

5_a

20° to 30°

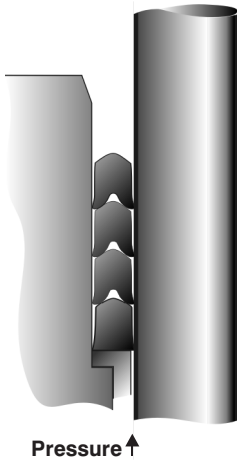


Insert header ring into the housing with flat face of ring facing the positive pressure. Push the ring firmly to bottom of the housing.

Insert header ring. Push fully down

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6_a



Insert intermediate rings individually, with grooves facing the positive pressure. Seat each ring firmly in position, but take care not to damage the lips. Note that rings are deliberately oversize. Do not trim.

Insert intermediate rings individually

i A non-metallic V-slotted fitting tool will assist in pushing the intermediate rings into position.

7_a



Fit gland ring in similar manner.

Insert gland ring

8_a



Tighten gland follower to achieve compression required for optimum leak tightness while maintaining a fluid film on shaft or ram. Insert spacers between cylinder face and gland follower to ensure even compression.

Tighten follower and compress set by 0.5 - 1.0mm for each intermediate ring. Add spacers to maintain axial compression

Typical compression values are 0.5mm to 1.0mm for each intermediate ring, depending on ring section and mechanical conditions.

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B: Split-type Lion® Expanding

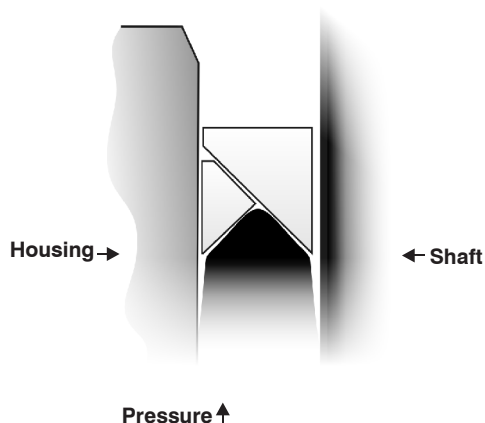
i Split rings are supplied slightly oversize to provide an interference fit at the ring ends. Tightness within the housing is therefore intentional and must not be relieved by trimming.



Install as for Endless Lion® Expanding, but ensure all rings are inserted with join areas first. Stagger join areas by 90°.

Insert join areas first. Stagger joins by 90°

C: Self-aligning Gland Rings



When installing Self-aligning Gland Rings, ensure they are correctly oriented for shaft sealing duties.

Ensure correct orientation of rings

Material Safety Data Sheets are available on request

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CPC: Lion Expanding Level 10 AM08 IA04 161112