

## Fitting guide for Compression Packings

Issue 1

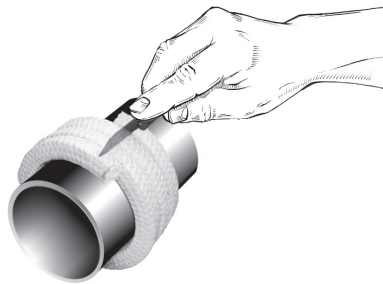
- i** This document describes the installation procedure for compression packings used in general pump and valve applications. When fitting Supagraf® fugitive emission control packings in valves, Lionpak® 5500 series Moulded Rings or Static lid packings, please follow the specific procedures supplied with those products. If in any doubt, please contact James Walker for advice.

- 1** Carefully remove all old packing, one ring at a time, using James Walker Packing Extractors.



- (GB)** Remove old packing
- (D)** Entfernen Sie die alte Packung
- (F)** Enlever l'ancienne garniture
- (NL)** Verwijder de oude verpakking
- (I)** Rimuovere la vecchia guarnizione
- (E)** Quitar envoltura antigua

- 2** Where length form packing is used, spirally wrap the packing around a rod or tube of diameter equivalent to the valve spindle or pump shaft. Cut the required number of packing rings using a sharp knife (a butt / straight split is recommended). Clean cuts are essential to obtain good butt joints.



- (GB)** Cut rings if required
- (D)** Schneiden Sie Ringe, wenn erforderlich
- (F)** Couper les anneaux si nécessaire
- (NL)** Snij zo nodig ringen af
- (I)** Tagliare l'anello, se necessario
- (E)** Cortar anillos si se requiere

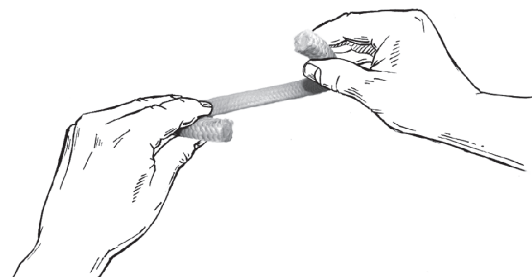
**i** Where Skive/ Diagonal splits are needed, a James Walker Compression Packing Ring Cutter can be used

- 3** Thoroughly clean and inspect all surfaces that will contact the packing. If permissible, smear with media compatible lubricant.



- (GB)** Clean, inspect & lubricate
- (D)** Reinigen, prüfen und schmieren Sie
- (F)** Nettoyer, contrôler et lubrifier
- (NL)** Reinigen, inspecteren en smeren
- (I)** Pulire, ispezionare e lubrificare
- (E)** Limpiar, inspeccionar y lubricar

- 4** Place first ring around the spindle or shaft. Do this by opening the ring axially to form a helix. This will allow the ring to slip over the shaft without over-stressing the ring material.



- (GB)** Open ring axially to fit on shaft
- (D)** Öffnen Sie den Ring axial, um ihn an der Welle anzubringen
- (F)** Ouvrir la anneau dans l'axe de l'arbre
- (NL)** Open de ring axiaal zodat hij op de as past
- (I)** Aprire l'anello assialmente per adattarlo all'albero
- (E)** Abrir anillo de forma axial para encajar en el mango

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- 5 Partially enter both ends of the first ring together into the stuffing box. Using the gland follower, push the ring firmly and evenly to the bottom of the stuffing box. If necessary, use a spacer or bush beneath the gland follower for additional length.



- (GB) Enter both ends
- (D) Führen Sie beide Enden ein
- (F) Insérer les deux extrémités
- (NL) Voer beide uiteinden in
- (I) Inserire entrambe le estremità
- (E) Introducir los 2 extremos

- 6 Insert the remainder of the rings in the same way. Ensure that the joints are staggered by 90°. All rings must be fitted individually and not as a set.



- (GB) Repeat staggering rings by 90°
- (D) Versetzen Sie die Ringe um 90°
- (F) Répéter en décalant chaque coupe de 90°
- (NL) Herhaal getrapte ringen op 90°
- (I) Ripetere gli anelli di serpeggiamento di 90°
- (E) Repetir, escalonando cada 90°

- 7 Fit gland follower. Now finger tighten the gland nuts, Ensuring that the follower is level, as shown.



- (GB) Fit gland follower
- (D) Bringen Sie die Stopfbuchsbrille a
- (F) Placer le presse étoupe
- (NL) Monteer drukstuk van pakkingbus
- (I) Posizionare il premistoppa
- (E) Poner el casquillo del prensaestopas

## For Pump Applications



- 8 Tighten gland nuts evenly by 1/4 turn or two flats until packing set is seated. Then slacken all nuts evenly in small increments until each is in loose contact with the gland follower. Leave for five minutes, then retighten all gland nuts to finger tightness.

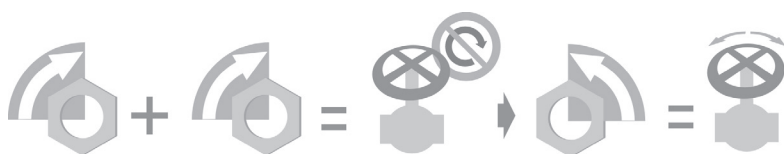
Run pump for up to five minutes and check for leak rate. Reduce the leakage gradually by tightening gland nuts

allowing time for leakage to stabilise, the leakage should be 1 drop every few seconds. Do not over tighten as this can cause the packing to burn out. Adjustments should be made evenly to all gland nuts by increments of one flat. Run pump for ten minutes, then check again and re-adjust gland nuts if required.

- (GB) Adjust gland nuts as required
- (D) Stellen Sie die Dichtungsmuffe ein, wie es gefordert ist
- (F) Ajuster les écrous de presse-garniture
- (NL) Verstel zo nodig de pakkingmoeren
- (I) Regolare i serracavi come necessario
- (E) Ajustar las tuercas de prensaestopas si requerido

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### For Valves



- 8 Tighten gland nuts evenly until the spindle is tightly gripped. Then slacken all nuts evenly by small increments until the spindle will just turn or actuate. Cycle the valve spindle a number of times, then check and retighten the gland nuts if required. System pressure can now be introduced.

- (GB) Adjust gland nuts as required
- (D) Stellen Sie die Dichtungsmuffe ein, wie es gefordert ist
- (F) Ajuster les écrous de presse étoupe
- (NL) Verstel zo nodig de pakkingmoeren
- (I) Regolare i serracavi come necessario
- (E) Ajustar las tuercas de prensaestopas si requerido



- 9 Check the gland adjustment during the first few hours of service. Take up any slack that may have occurred during initial settling in.

- (GB) Check & adjust gland nuts as required
- (D) Überprüfen Sie die Dichtungsmuffen und stellen sie ein, wie es gefordert ist
- (F) Vérifier et ajuster les écrous de presse-garniture
- (NL) Controleer en verstel zo nodig de pakkingmoeren
- (I) Controllare e regolare i serracavi come necessario
- (E) Comprobar y ajustar las tuercas de prensaestopas si requerido

### Safety Data Sheets are available on request

James Walker, Gote Brow, Cockermouth, Cumbria, CA13 0NH, United Kingdom  
Tel: +44 (0)1900 823555 Fax: +44 (0)1900 898354 cockermouth@jameswalker.biz

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