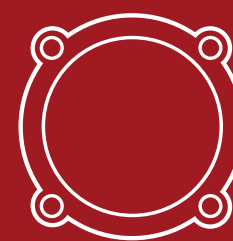




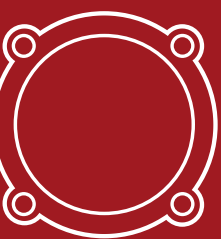
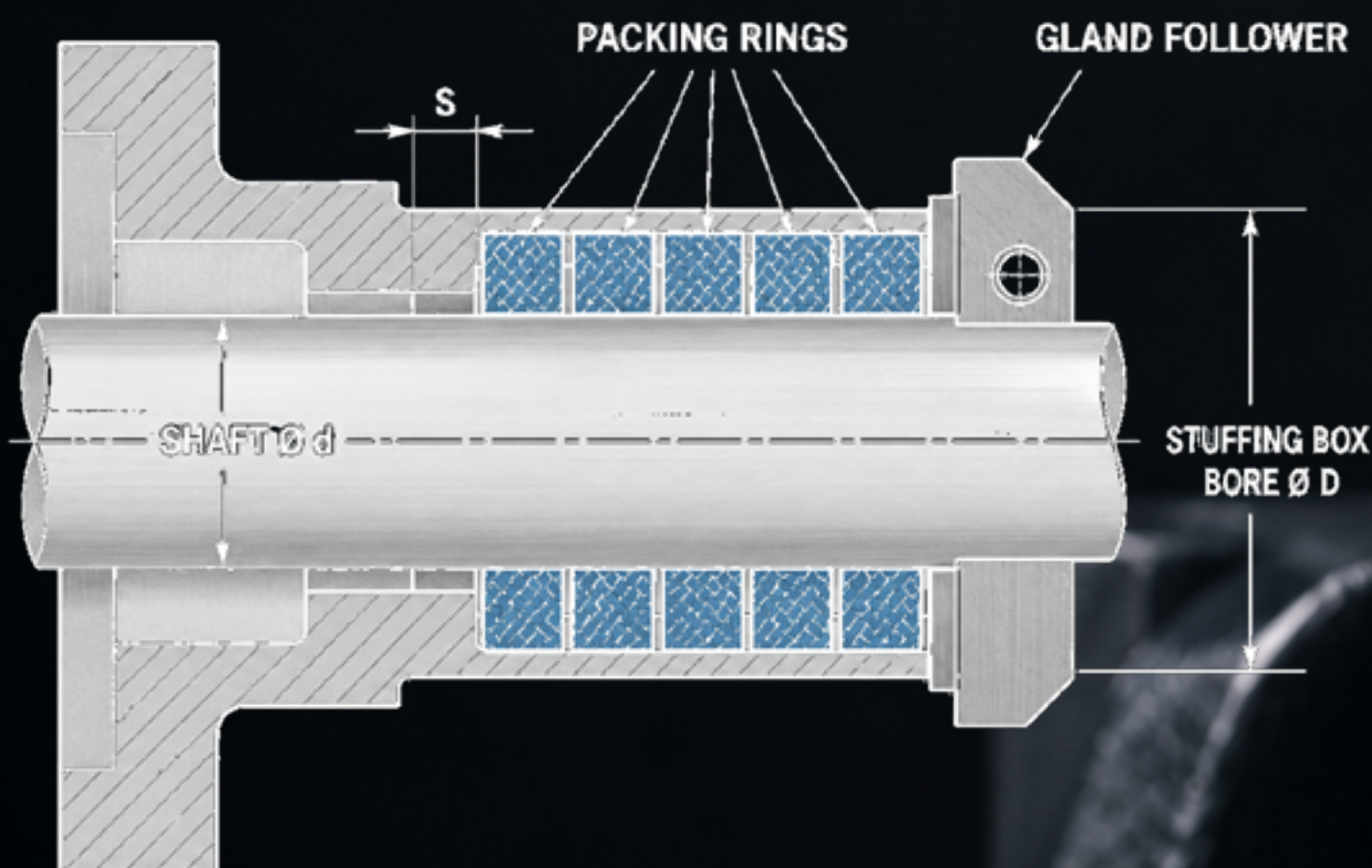
A QUICK GUIDE TO **GLAND PACKING**

Why media, temperature, shaft speed
& pressure must be assessed together



SIZE DEFINES FIT, NOT SUITABILITY

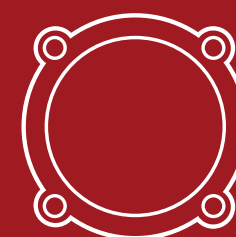
When specifying gland packing, correct cross-section and ring dimensions are only the starting point. A packing that fits the gland can still generate excessive heat, wear the sleeve or fail under pressure.



MEDIA DETERMINES CHEMICAL & PHYSICAL COMPATIBILITY

The packing fibres, lubricant and any blocking agents must all resist the process fluid. Specification should consider:

- **Chemical concentration & pH**
- **Oxidising conditions**
- **Abrasive solids**
- **Solvent extraction**
- **Contamination restrictions**
- **Emissions performance**



TEMPERATURE IS MORE THAN A MAXIMUM RATING

Published temperature limits do not automatically represent safe continuous operation. Selection should consider



Operating temperature



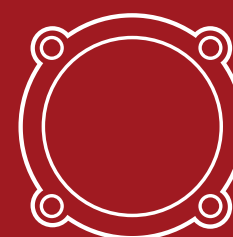
Start-up & shutdown



Cooling or flushing



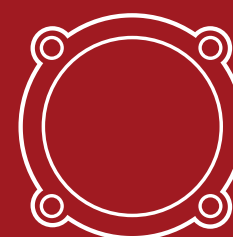
Thermal cycling



SHAFT SPEED CONTROLS FRICTIONAL HEAT

As surface speed increases, low-friction construction, effective heat dissipation and controlled gland loading become increasingly important.

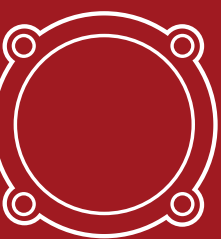
High shaft speed can exclude packings that appear suitable based on media and temperature alone.



PRESSURE CHANGES THE REQUIRED CONSTRUCTION

Pressure drives the process fluid through and behind the packing set. Higher pressures increase the need for:

- **Dense packing**
- **Controlled ring consolidation**
- **Adequate gland depth**
- **Anti-extrusion or end rings**
- **Correct barrier pressure**
- **Effective distribution of load**



MATERIAL SELECTION

Different packing materials manage friction, heat and extrusion differently.

GRAPHITE

Good thermal conductivity & broad chemical resistance



PTFE-BASED

Low friction & strong chemical resistance

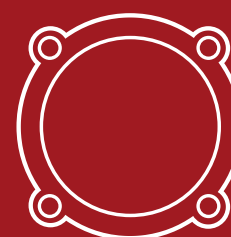


ARAMID

High strength & abrasion resistance



dobson
gaskets





**dobson
gaskets:**

THE GLAND PACKING EXPERTS

Dobson Gaskets combines material knowledge with application experience to help specify gland packing for the complete operating duty, not simply the required size.

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