ProPack DICHTUNGEN UND PACKUNGEN AG

YOUR COMPETENT PARTNER
WORLDWIDE IN
SEALING TECHNOLOGY



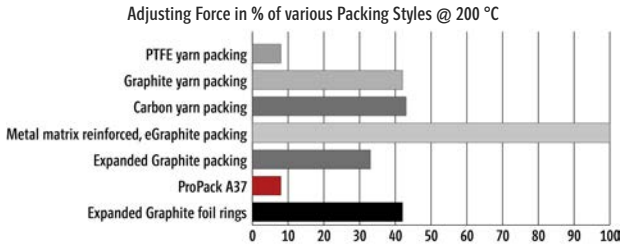
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A 37 GraphoFlon

Braid of expanded graphite yarn with Inconel® matrix reinforcement and special PTFE coating

- Avoids slip-stick effect
- High section density and heat resistance to minimize emissions
- Does not harden, good resilience
- Coefficient of thermal expansion similar to steel
- Easy to install and remove
- Low coefficient of friction minimizes adjustment force on valve stem
- Rings should be compressed to approx. 25-30% of their height during installation



This packing type combines the positive properties of PTFE - the extraordinary sealing ability and the minimal coefficient of friction, and the excellent properties of eGraphite - the constant flexibility and resilience. Negative characteristics of both raw materials, such as the tendency to extrusion, is compensated by the Inconel® matrix. The result is a valve packing that requires minimal actuating forces, can be readjusted easily if necessary, brings excellent sealing values, and is extrusion-resistant and blowout-proof even at high pressures.

QUESTIONS & ANSWERS ABOUT GLAND PACKING

QUESTION: DOES SHAFT RUNOUT SHORTEN THE SERVICE LIFE?

Definitely yes. How much depends on the shaft deflection, the deflection motion, and the RPM. Although the packing is initially elastic and can follow the shaft motion, after a certain running time it becomes lazy and stays at the maximum deflection. This results in a gap through which increased leakage escapes. You will therefore retighten the gland nuts and force the packing back to the shaft where it must again follow the deflection.

The game starts again until the packing stays in deflection again. At some point, the packing will no longer deform and the leakage will remain. So it pays to make sure you have good shaft bearings. A higher number of rings, depending on the deflection movement, can provide a longer throttling length and help reduce leakage.

QUESTION: IS IT POSSIBLE TO PREDICT THE SERVICE LIFE OF A PUMP PACKING?

Unfortunately, no, because it depends on too many factors. In addition to the stress caused by the actual operating parameters (temperature, pressure and shaft speed) there are further criterias: possible shaft runout, surface condition of the shaft or sleeve, non-uniform compression during installation, avoidance of dry running, but also other factors such as: the operating mode of the aggregate and the viscosity of the product to be sealed.

QUESTION: IS THERE A UNIVERSAL VALVE - AND AND PUMP PACKING?

Basically yes, you can use a packing with a very high thermal conductivity and pressure resistance. This covers the key data of both applications. Mostly valves will be sealed at higher temperatures therefore this factor must also be taken into account.

In pumps, products with solids are often sealed. This should also be considered when looking for a universal product. Among the available materials expanded graphite and carbon yarn are suitable. What will be missing in the application of pumps of this universal solution is the run-in lubricant. Pumps need this. In valves, it will only bleed out with a loss of volume and require permanent tightening. This disadvantage in pump applications can be compensated by very careful installation and start-up.

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REGISTER AT MUNICH HRB 170 799 . VAT.IDENT.NO.: DE 129 441 454