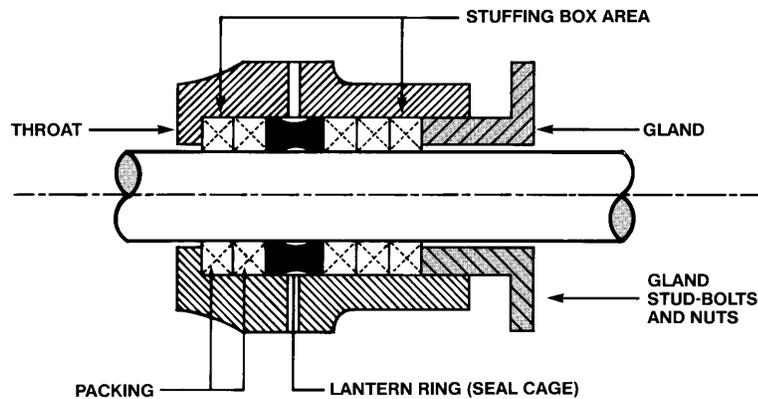




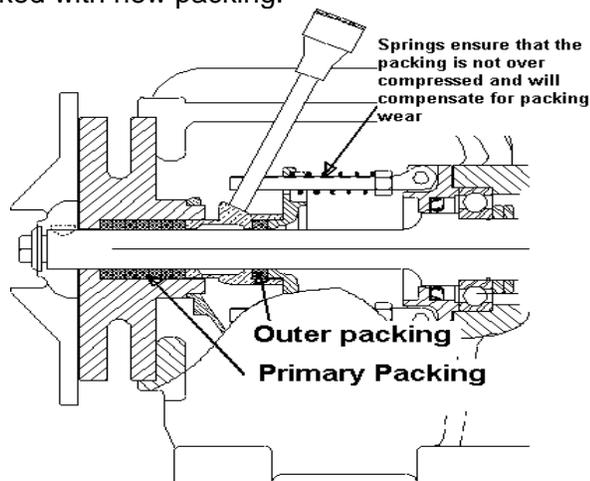
PUMPS THAT EXPERTS SELECT.

Packing Type Stuffing Boxes





A conventional packed type stuffing box, uses a metallic or non metallic lantern ring about midway between 2 sets of packing. This permits admitting sealing water or lubricant within the traveling area of the lantern ring. The big disadvantage of this configuration is that when the packing wears, the lantern rings moves beyond the area for which it is designed and sealing water or lubricant can no longer enter the stuffing box. The unit needs to be taken out of service and re-packed with new packing.



Harry LaBour, the inventor of the Self Priming pump, was very proud of the stuffing box design (see picture) that has proven to be trouble-free with a minimum of maintenance. A very deep double compartment gland is provided, which has room for six rings of packing in the main part of the stuffing box, followed by a gland collar which incorporates an annular space close to the shaft which can be greased or liquid sealed to prevent air entering the pump or liquid leaking from the pump.

The gland collar is in effect an external lantern ring. Two rings of packing in the outer part of the gland collar and a gland follower with 2 sets of compression springs complete the seal. A conventional internal lantern ring has the disadvantage that over time it will move deeper into the stuffing box and eventually block the grease or liquid port in the stuffing box, resulting in packing and/or shaft failure.

The function of the springs and the adjusting nut is to keep the packing adjusted correctly without the requirement for weekly or monthly adjustments.

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