

# ARIEL BTUU PACKING RINGS



WORLD STANDARD  
COMPRESSORS

## Uncut Ring Technology

The Uncut Ring Technology replaces the radial cut back-up ring in Ariel's standard seal ring set. Uncut rings eliminate the leak paths of conventional segmented rings, and they generate less frictional heat, resulting in enhanced performance.

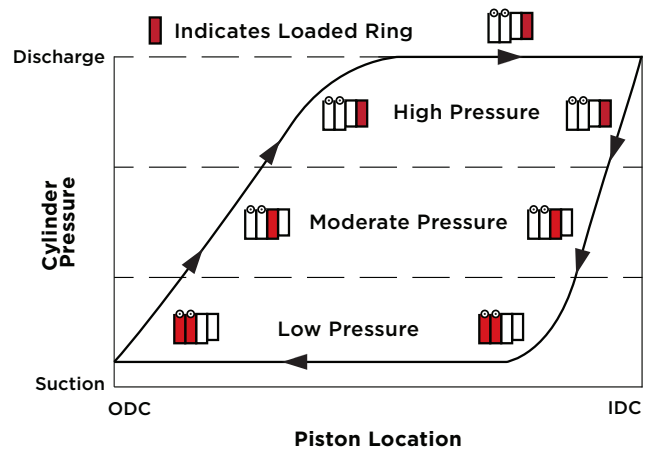
Ariel's unique "necked-down" piston rod design allows for the installation of these patented uncut packing rings by providing clearance over the threads. The BTUU packing ring set is not compatible with other compressor manufacturers' piston rods.

## Ariel's "Necked-Down" Piston Rod Design

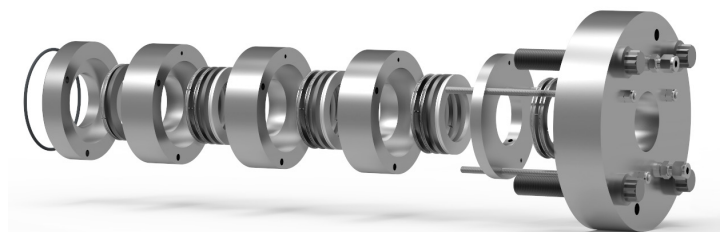


## How BTUU Works: Multiple Sealing Rings

Each BTUU ring set includes multiple sealing rings that load at increasing pressures. The Radial-cut ring is single-acting and allows gas to flow out of the cup on suction stroke. The Tangent-cut ring seals first, and then, as the pressure increases, the first Uncut ring compresses against the rod. As pressure continues to increase, the second Uncut ring will seal against the rod. The Uncut rings are manufactured from dissimilar materials and are designed to load at different pressures. As pressure decreases, the rings unload.

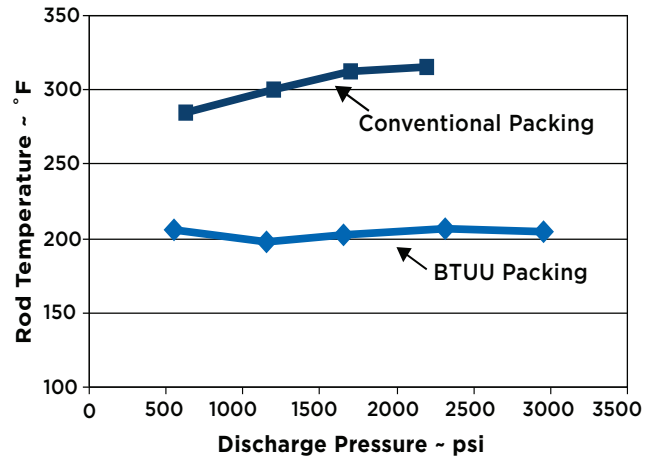
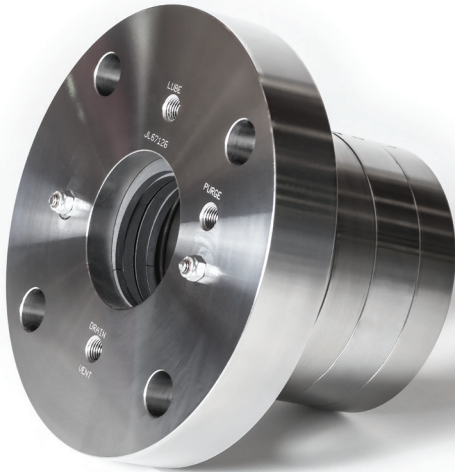


## Typical BTUU Ring Set



## The Advantages of Ariel BTUU Technology

The increased sealing capacity of each ring set results in fewer cups and an overall reduction in leakage from the packing case. This decreases the frictional heat load by minimizing the number of rings in contact with the rod. The first ring set does the majority of the sealing, greatly reducing the pressure applied to subsequent tangent-cut rings.



## Operational Efficiency

The increased sealing capacity of uncut rings, reduced wear, and improved sealing integrity over the life of the packing means increased overall unit and facility performance

## Reducing Your Maintenance Costs

Along with longer run-times, improved efficiency, and prevention of downtime, Ariel BTUU technology means fewer cups required for each packing assembly, reducing your overall maintenance costs.

	Conventional	Uncut
<b>2000 (+) psi</b>	5-7 rings	5-7 rings
<b>800-2000 psi</b>	4-6 rings	3-4 rings
<b>300-800 psi</b>	3-5 rings	3-4 rings
<b>Below 300 psi</b>	2-4 rings	2-3 rings

## SUPPORT

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