

Elastomeric/Thermoplastic V-Rings



Sealing Solutions

A multi-lip (redundant), pressure-activated seal is constructed of elastomeric and/or thermoplastic components. Pressure differential develops across each lip and a column mechanical load expands across the entire packing set and is constant at any point in the set.

Vector forces acting on the lips of the V induce a radial load that is a function of the V-ring design.

The redundancy concept of the multiple lips maintains sealing integrity over all application parameters, minimizing the chances of catastrophic failure.

Seal Configuration

Gland Design: Greene Tweed designers prefer open gland configurations to accurately control the FSH and CSH (Free and Confined Stack Heights), provide optimum sealperformance, and aid installation.

Adapters: End and central adapters are manufactured from Greene Tweed proprietary thermoplastics.

Thermoplastics do not gall or corrode and can be designed as a bearing or debris barrier.

Elastomer Selection	
HNBR	209
NBR	979
FKM	929 fiber-reinforced 926 rapid gas decompression resistant
CR	980
Fluoraz®	790, 799
Chemraz®	510, 526

Please refer to GT for design constraints and recommendations.

Thermoplastic Selection	
Arlon®	Proprietary grades of PEEK
Arlon® 1000	Virgin, injection molded
Arlon® 1160	Glass-reinforced grade
Arlon® 1260	Carbon-fiber-reinforced grade
Arlon® 1330	Lubricated grade
Arlon® 1555	Carbon fiber/Lubricated grade
Avalon®	Proprietary reinforced grades of PTFE

Please refer to GT for design constraints and recommendations.

Note: Please refer to Greene Tweed Houston Engineering for part numbers.

Contact Us

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