



RSR™ SEAL

High-pressure “Dry Rod” Seals

UNIQUE SHAPE MEANS SUPERIOR PERFORMANCE

Greene, Tweed’s RSR™ rod or piston seal features a specially engineered elastomer profile that provides exceptional “dry rod” sealing under dynamic conditions. The RSR’s endless, trapezoidal wedge-shaped back-up ring has an exceptionally wide shear section to ensure excellent resistance to extrusion. In addition, the back-up ring’s shape generates a force vector under pressure, thereby eliminating the extrusion gap. The result: very low leakage and fewer sealing problems.

The RSR seal excels in brake applications where the trapezoidal shape provides a natural pull back on the brake piston, therefore making piston design less complicated.

FEATURES & BENEFITS

- Combination of elastomer and back-up ring design ensures excellent resistance to extrusion and elastomer nibbling
- Specially designed elastomer heel provides pull back in some dynamic applications, making the seal perfect for brake applications
- Provides exceptional dry rod sealing in dynamic applications resulting in extremely tight leakage control

APPLICATIONS

- High-performance utility actuators
- Door actuators
- Thrust reverser systems applications

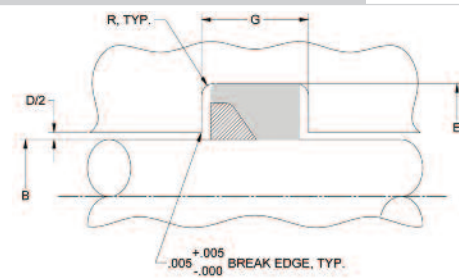
RSR™ CONFIGURATIONS

RSR™ seals are available in standard, zero, one and two back-up gland sizes per MIL-G-5514/AS4716.

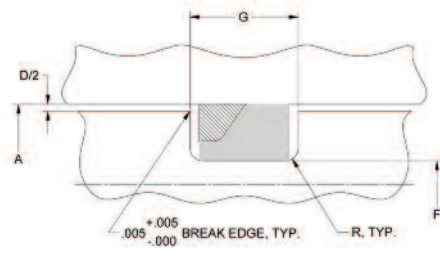


Gland Dimensions

Rod

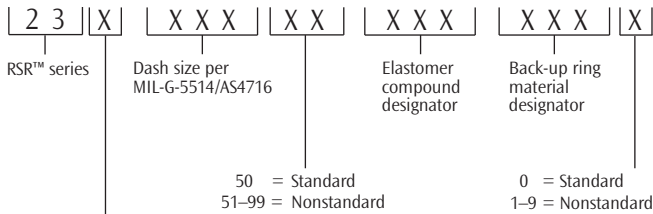


Piston



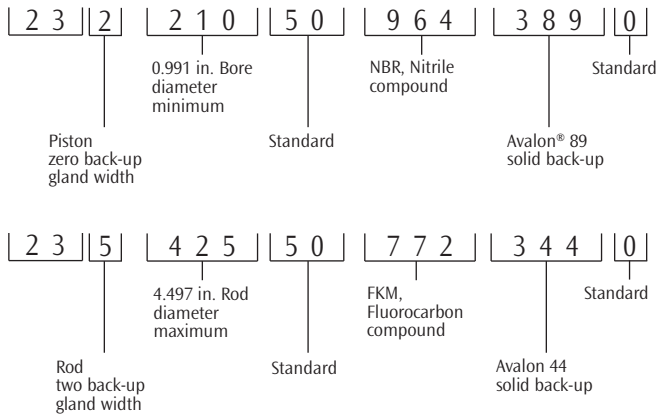
RSR™ PART NUMBERING SYSTEM

The part numbering system requires the use of the material designator tables found in the next column. For nonstandard designs contact GT engineering.



ROD	PISTON	GLAND WIDTH
1	2	Zero back-up gland width
3	4	One back-up gland width
5	6	Two back-up gland width

Part Numbering Examples



Contact your local Greene, Tweed representative for specific recommendations to suit higher performance requirements.

Material Designator Tables

CODE	ELASTOMER COMPOUND
160	NBR, Nitrile
161	NBR, Nitrile
410	FVMQ, Fluorosilicone
731	FKM, Fluorocarbon
772	FKM, Fluorocarbon
952	EPM, Ethylene Propylene
954	EPDM, Ethylene Propylene
964	NBR, Nitrile
965	HNBR, Hydrogenated Nitrile

SPLIT	SOLID	BACK-UP MATERIAL
042	043	Avalon 07
016	019	Avalon 09
044	344	Avalon 44
073	069	Avalon 50
057	357	Avalon 57
079	379	Avalon 69
089	389	Avalon 89

See GT Surface Finish guidelines.



Contact Us

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