



# ACGT™/ACGTL™ RINGS

## Effective Sealing in Extreme Pressures and Temperatures

### CAPPED GT & GTL SEALS

With Greene, Tweed's ACGT™/ACGTL™ rings seal extrusion gaps and high pressures are not a problem. Both are designed for effective, long-sealing life in high- and low-pressure environments. Additionally, both are engineered to handle a broad range of temperature extremes and fluid media, as well as larger than normal clearance gaps. Systems experiencing 8,000 psi (550 bar) are not uncommon for ACGT or ACGTL seals.

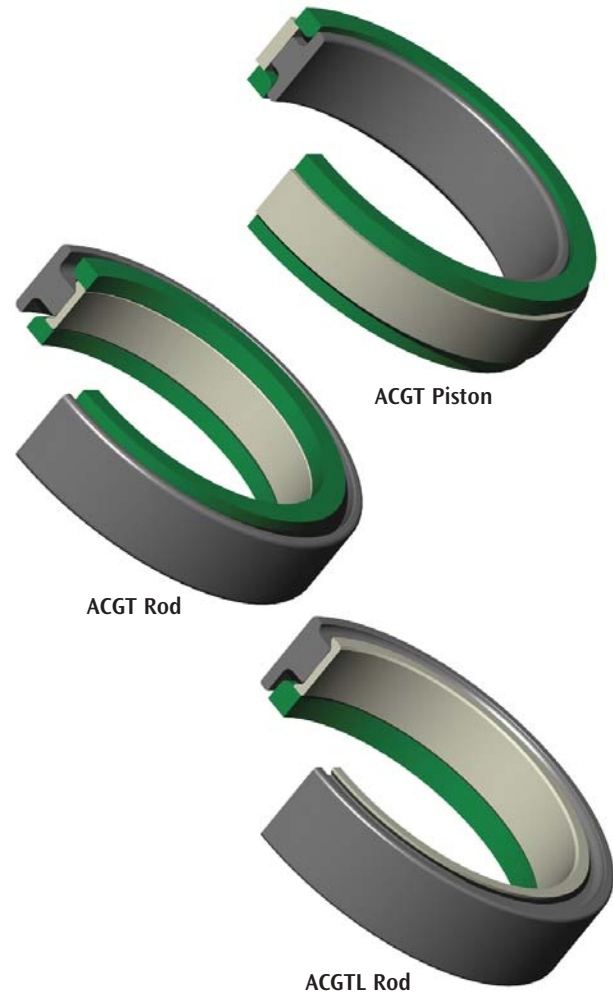
The key to the seals' outstanding performance is the separation of the sealing and anti-extrusion functions. This allows the optimum selection of materials with specific characteristics, such as a high-modulus elastomer for static side/seal energizer, high shear strength material for anti-extrusion rings and long-wearing, low-friction material for caps.

The ACGT is a double-acting, bidirectional seal especially suited to long-stroke, high-speed applications such as heavy-duty utility and flight control actuators and landing gear systems.

The ACGTL is a single-acting, unidirectional seal for applications such as long-life/high-pressure utility and flight control actuators and landing gear systems.

### FEATURES & BENEFITS

- Cap elements using Avalon® materials provide low friction and extend service life over elastomer contact seals such as AGT® and O-rings
- Hydromechanically activated anti-extrusion rings provide effective sealing in both high- and low- pressure environments resulting in longer seal life
- Designed for retrofitting into existing MIL-G-5514/AS4716 and AS4832 glands for ease of maintenance



### APPLICATIONS

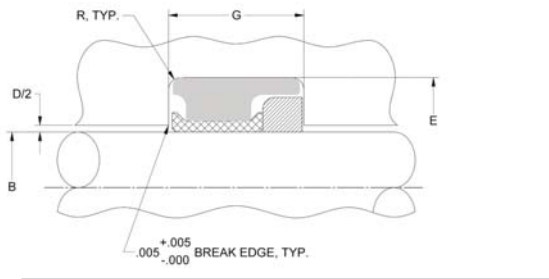
- Landing gear shock struts
- Heavy duty utility actuators
- Long stroke actuators (e.g., door actuators, retract actuators)
- Extremely long-life, high-pressure systems
- Flight control actuators



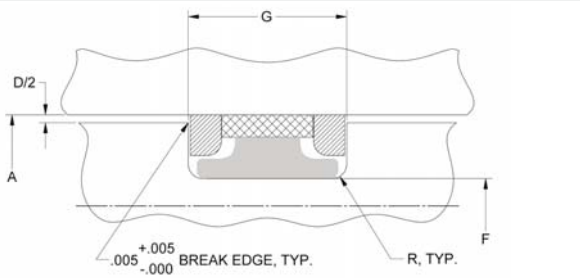
## ACGT™/ACGTL™ CONFIGURATIONS

### Gland Dimensions

#### ACGTL Rod

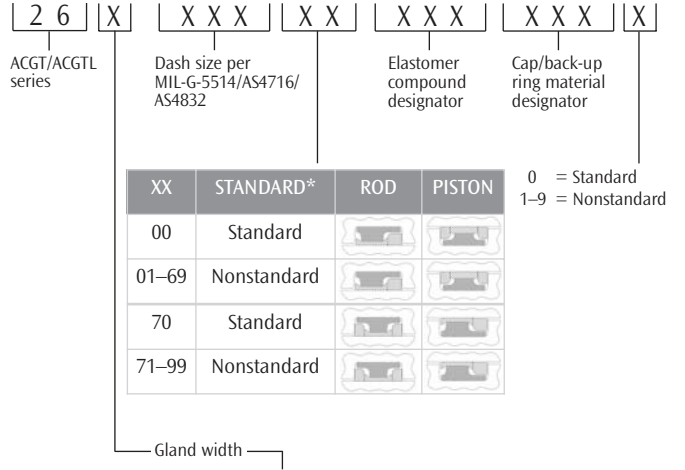


#### ACGT Piston



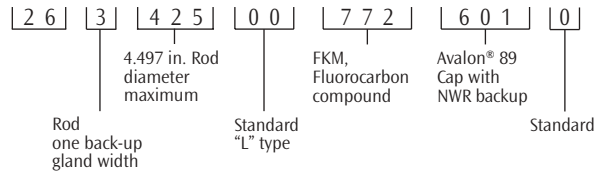
## PART NUMBERING SYSTEM

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

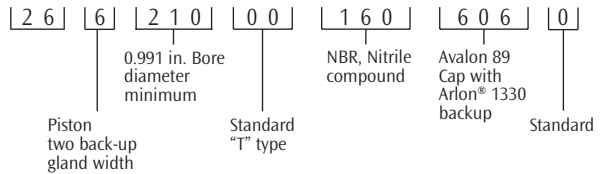


ROD	PISTON	GLAND WIDTH
3	4	One back-up gland width
5	6	Two back-up gland width

### Part Numbering Examples—Rod-Type ACGTL



### Part Numbering Examples—Piston-Type ACGT



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
409	FVMQ, Fluorosilicone
731	FKM, Fluorocarbon
772	FKM, Fluorocarbon
952	EPM, Ethylene Propylene
954	EPDM, Ethylene Propylene
964	NBR, Nitrile

CODE	CAP/BACK-UP MATERIAL
116	Avalon® 09 Cap/Arlon® 1330 Backup
120	Avalon 09 Cap/NWR Backup
601	Avalon 89 Cap/NWR Backup
605	Avalon 50 Cap/Arlon 1330 Backup
606	Avalon 89 Cap/Arlon 1330 Backup
608	Avalon 89 Cap/Avalon 69 Backup

*Note: All back-up rings are scarf cut. For solid back-up rings contact GT engineering.*

See GT Surface Finish guidelines.



**Contact Us**

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