



# ENERCAM SEAL

## Enhanced Seal Performance

### “CAMMED” DESIGN ENHANCES SEAL PERFORMANCE

Greene, Tweed’s Enercam (patent pending) seal was developed for extremely demanding flight control environments but is also an outstanding choice in a wide variety of applications where superior leakage control and durability are critical. Available for use in either one or two back-up gland widths, this unique design utilizes our Avalon® PTFE sealing element coupled with a high modulus, angled, anti-extrusion, back-up ring and a specially designed, elastomeric energizer. This “cammed” cap element works with a sophisticated energizer to provide uniformly distributed loads around the entire seal circumference, thereby transmitting optimal sealing forces to the cap element. Full, integrated, circumferential grooves in the cap provide for improved seal lubrication that can enhance overall functional seal performance.

### FEATURES & BENEFITS

- A unidirectional, hydro-mechanically activated, cam-type design provides optimum sealing performance and long service life
- Resilient Avalon cap coupled with a durable elastomeric energizer plus a high modulus, anti-extrusion back-up ring uniformly distributes loads
- Installable into most existing AS4716 configurations

### APPLICATIONS

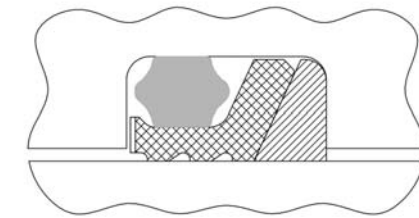
- Primary and secondary flight control actuators
- As a secondary seal for tandem, “closed-groove,” rod configurations
- Fuel systems
- Utility actuators
- Door actuators



**Enercam Seal**

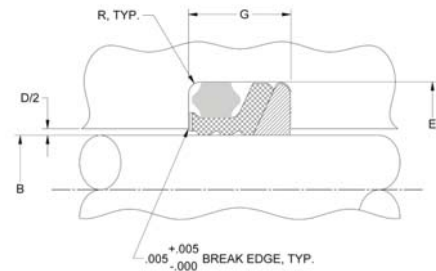
### ENERCAM CONFIGURATIONS

Rod



### Gland Dimensions

Rod

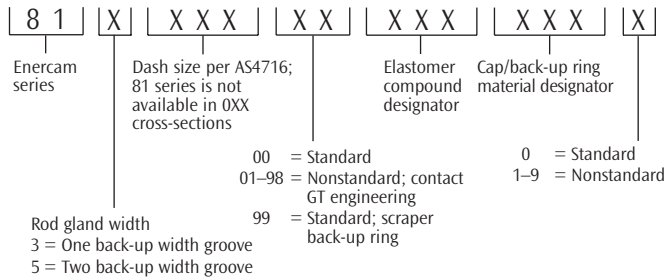


Note: Dimensions as specified in AS4716.

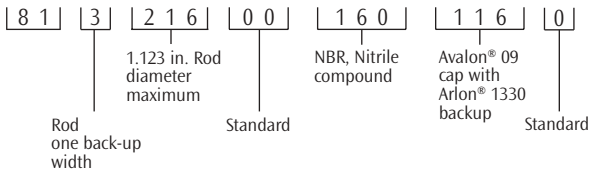


## ENERCAM PART NUMBERING SYSTEM

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



### Part Numbering Example



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     |
| 410  | 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  |
| 614  | Avalon 44 Cap/Avalon 44 Backup  |
| 615  | Avalon 44 Cap/Avalon 69 Backup  |
| 616  | Avalon 44 Cap/Arlon 1330 Backup |
| 617  | Avalon 89 Cap/Avalon 89 Backup  |

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

See GT Surface Finish guidelines.

### Contact Us