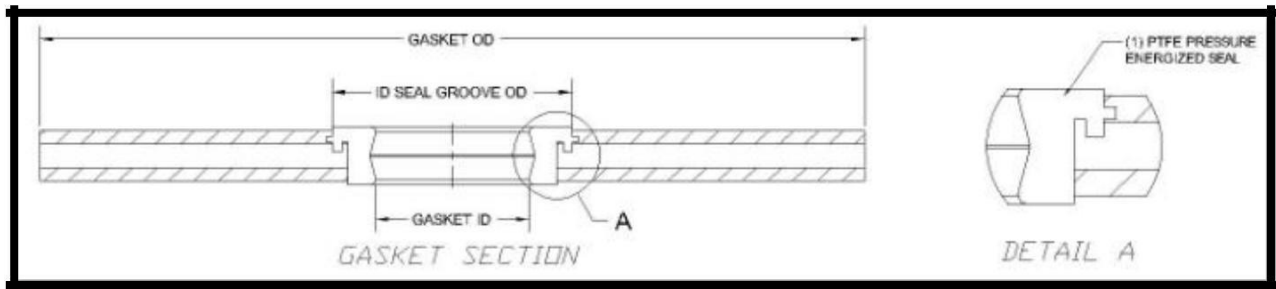


## VCS-ID® Data Sheet



### Gasket Properties\*

**Carrier:** NEMA Grade G10/ 316L stainless steel core  
**Color:** Black  
**Fluid Services:** Oil and Gas  
**Maximum Operating Temperature (°F/°C):** 302°F/150°C  
**Minimum Operating Temperature: (minus):** -200°F  
**Maximum Pressure Class:** ASME 2,500#/API 5,000

### Typical Physical Properties\*

**Water Absorption (%):** ASTM .01-.02 Typical

### NEMA Grade G10 Mechanical Properties\*

**Tensile Strength (PSI):** 41,000  
(ASTM D638)

**Flexural Strength (PSI):** 57,700

(ASTM D790)

**Flexural Modulus (Kpsi) LW/CW:** 2,900/ 2,600

(ASTM D790)

**Compressive Strength (PSI):** 65,000

#### **Thermal Properties\***

**Coefficient of Linear Thermal**

**Expansion (thickness tested .125") X-axis / Y-axis:** 10.0 /

13.0 (IPC-TM 650-2.4.24)

**Flammability Rating:** Fire retardant

#### **Electrical Properties\***

**Dielectric Strength (V/mil):** 800

#### **Isolation Kit Options:**

**Seal Types:** [Teflon \(PTFE\)](#)

**Sleeves:** [G10](#), Mylar

**Washers:** [G10](#), HCS, DH, ZPS, Stainless Steel

**GRE Options:** [G10](#), G11, G10 Cryogenic

**Carrier Options:** [316LSS](#), 625/825 Inconel, SMO 254, AL6XN, Xeron 100, Duplex/Super Duplex

*\* Blue type indicates standard material.*

Covered under patent 6402159

#### **Notes:**

This is a general guide and should not be the sole means of selecting or rejecting this material. \* Values do not constitute specification Limits

†See GPT chemical resistance guide.

‡All isolation products are affected by exposure to heat and moisture where electrical isolation is concerned. Please note that field values may vary from test values due to exposure to one or both of these environmental factors.