FCS FLUORO CARBON SEALS PVT LTD
(an ISO 9001:2008 Certified Company)
Quality, Reliability & Customers’ Satisfaction

Manufacturers of
PTFE, VICTREX® PEEK, PCTFE, PVDF & PFA Components
FCS FLUORO CARBON SEALS PVT LTD is a trusted name in India and abroad for high quality in manufacturing of Valve Seats, Energized Lip Seals, Hydraulic & Pneumatic Seals, "O" rings, High Pressure Piston Seals, and Backup Rings as per customers’ specification for maintenance of Heavy Earth Moving Equipments, Industrial Machines, Valves, Pumps, Service Centers, OEMs etc.

PTFE VALVE SEATS & COMPONENTS
Exceptional chemical & thermal resistance, low permeability, reduced deformation under load, High creep resistance & dimensional stability, exceptionally smooth surfaces.

AVAILABLE GRADES
PTFE, MODIFIED PTFE, GLASS FILLED, CARBON FILLED, MOLY FILLED, BRONZE FILLED, GRAPHITE FILLED & SPECIFIED GRADES BY CUSTOMER

Range: Upto 36”

Main characteristics of PFA
- Very high service temperature up to 260°C
- Excellent chemical and heat resistance
- Very high toughness and impact strength
- Excellent weatherability and release properties
- Very good electrical insulating and dielectrical properties
- Excellent stress crack resistance
- Co-efficient fraction
- Smooth surface

METAL SEATS (INCONEL, SS316, SS304 & etc.)

Range of Valve Seats Upto 36”

Inserts Material
PTFE, VICTREX® PEEK, PCTFE, PVDF, PFA & Devlon and other specified material by customer.
- Excellent strength, stiffness and dimensional stability temperature and harsh environment.
- Easy to process and lightweight compared to steel, aluminum and titanium.
- Low co-efficient of friction and high wear resistance without lubrication.
- Chemically resistant and insoluble in common solvents including acids, salts and oil.
- Features low out gassing, low particle generation and inherent purity for reduced contamination.

**PEEK TUBE MANUFACTURING RANGE:**
DIA - FROM 25 TO 1000 MM

**VICTREX PEEK GRADES**
450G, 450CA30, 450FC30, 450FE20, 450FG30, 450GL30

**Applications:**
VALVE SEATS & SEALS, THRUST WASHERS, THRUST BEARING,
STEM BUSHINGS, GASKETS, SEAL RINGS TRANSMISSION
COMPONENTS AND OTHER SPECIFIED COMPONENTS BY CUSTOMER.
Spring Energized PTFE Lip Seals are useful for high or low temperatures, high pressures, high speeds and extremely corrosive environments. They are also used in applications requiring very low friction.
Spring Materials
ELGIOLOY / PHYNOX
HASTELLOY C276
SS301, SS302, SS304, SS316
INCONEL

Lip Seal Materials (Jacket)
PTFE - Virgin
PTFE - Virgin Modified
PTFE - Reinforced with Carbon and Graphite
PTFE - Filled with Glass Fiber and MoS₂
PTFE - Reinforced with Special Filler
UHMW - PE Modified
EKONOL - PTFE
PEEK and PCTFE

Spring Type
Helical
Cantilevered V Spring
Cantilevered U Spring

GROOVE DIMENSIONS
<table>
<thead>
<tr>
<th>Nominal Cross Section</th>
<th>A mm</th>
<th>B mm</th>
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<tr>
<td>From</td>
<td>To</td>
<td>From</td>
</tr>
<tr>
<td>1/16&quot;</td>
<td>6</td>
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<tr>
<td>3/8&quot;</td>
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<td>1000</td>
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**HYDRAULICS SEALS**

**RANGE:** Upto 1000 mm

**FCS FLUORO CARBON SEALS PVT LTD** manufactures a wide range of seal options with differing fluid and temperature thresholds, surface speeds and pressures.

**AVAILABLE GRADES**

- PTFE, MODIFIED PTFE, GLASS FILLED, CARBON FILLED, MOLY FILLED, BRONZE FILLED, GRAPHITE FILLED & SPECIFIED BY CUSTOMER

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**CHEVRON PACKING**

Chevron packing is used for hydraulic, pneumatic cylinder, higher pressure pumps and Valve Stem Packing.

**AVAILABLE GRADES**

- PTFE
- PEEK
- Modified (TFM) PTFE

**PCTFE**

**Applications:**

PCTFE characterized by its excellent stability at low temperatures, is used for the seat of the value for safety, and at the sealing area for easy operation, making highly reliable sealing performance possible. Because PCTFE has high mechanical strength and a shrinkage rate at low temperatures, it is widely used for low-temperature machineries, equipment, etc,
**DEVLOM V-API**
- Increases component life
- Extends life of mating parts
- Is cost effective
- Does not require special fitting tools
- Is lightweight and easy handling

**Typical Applications:**
Valve seat inserts
Clamps
Bundle spacers
Rollers & Bearings

**DEVELOM® inserts for Floating Valve**

**DUPONT® VESPEL®**

**Attributes:**
- Low coefficient of friction
- Wide range of temperature capabilities
  - Upto 500°F/288°C and above
- High mechanical strength

**Applications:**
Thrust washers, Seal rings, Valve seats, Bearings, Seals

**PTFE General Components**

**DEFENCE TECHNOLOGY ABSORPTION AWARD 2011**
RECEIVED FROM PRIME MINISTER OF INDIA

**INHOUSE TESTING FACILITIES**

**VESTEL Seals**

**Video Measuring Machine**

**Universal Testing Machine**
Manufacturers of

PTFE, Victrex® PEEK, PCTFE(Kel-F), PFA, PVDF, VEPAL, NYLON MoS₂, ACETAL, DEVLON, UHMWPE, FFKM, FKM, HNBR, EPDM and other Engineering Polymer Components.