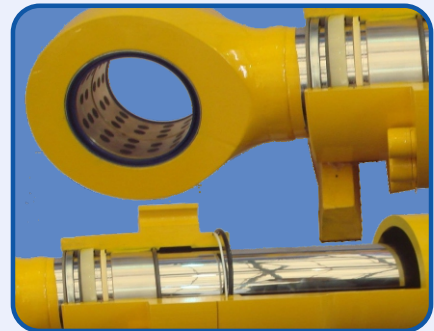
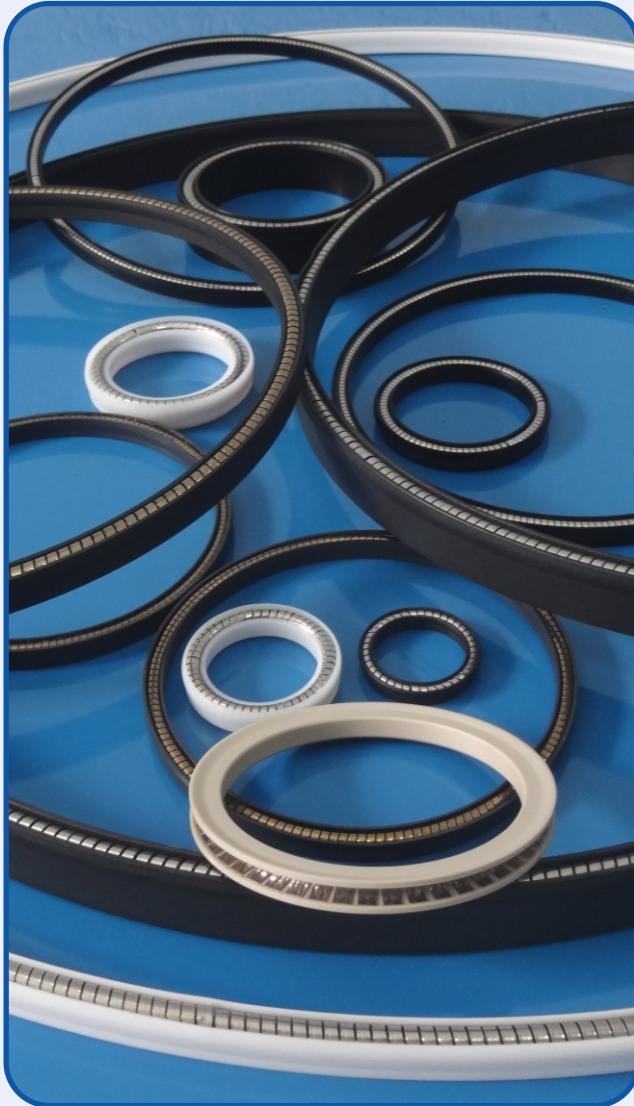


FCS FLUORO CARBON SEALS PVT LTD

(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.

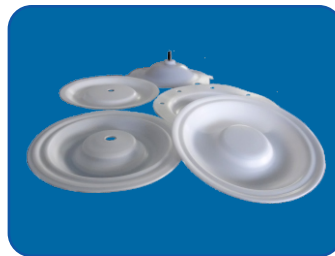
AVAILABLE GRADES

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

Range: Upto 36"



PTFE Ball Valve Seat



PTFE Diaphragm



PTFE Butterfly Valve Seat



PFA Plug Valve Sleeves

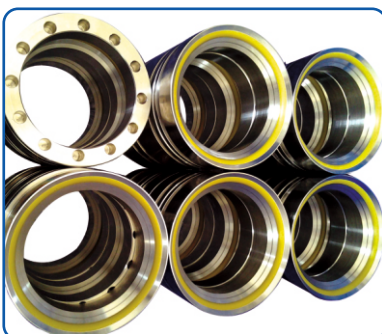


PTFE Plug Valve Sleeves

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

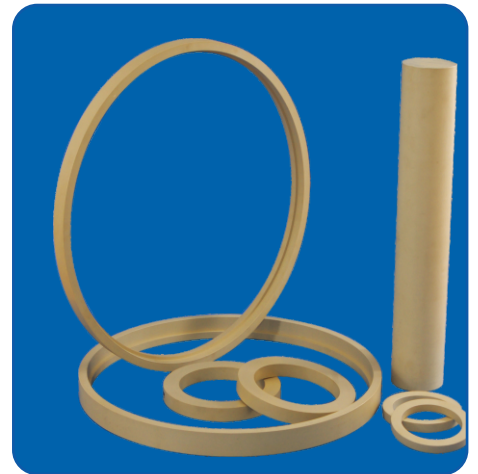
PTFE, VICTREX® PEEK, PCTFE, PVDF, PFA & Devlon and other specified material by customer.

VICTREX® PEEK 450G - Virgin

- 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 450G TUBE



PEEK TUBE MANUFACTURING RANGE :

DIA - FROM 25 TO 1000 MM

VICTREX PEEK GRADES

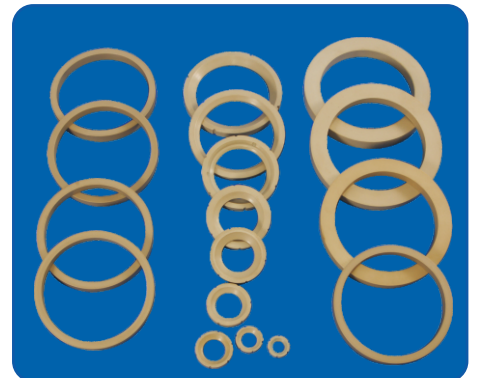
450G, 450CA30, 450FC30, 450FE20, 450FG30, 450GL30

Applications:

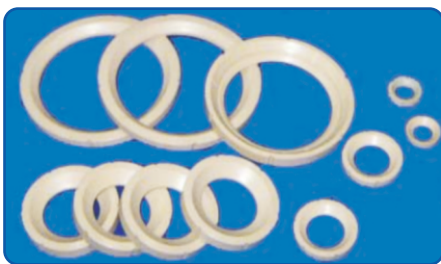
VALVE SEATS & SEALS, THRUST WASHERS, THRUST BEARING,

STEM BUSHINGS, GASKETS, SEAL RINGS TRANSMISSION

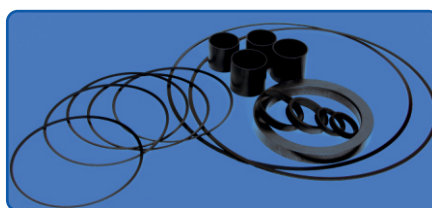
COMPONENTS AND OTHER SPECIFIED COMPONENTS BY CUSTOMER.



PEEK Hydraulic & Pneumatic Seals



PEEK Ball Valve Seat

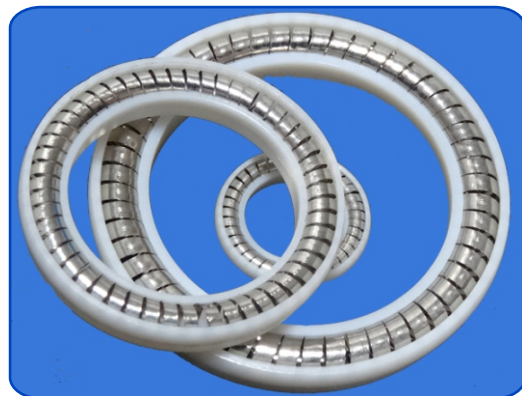
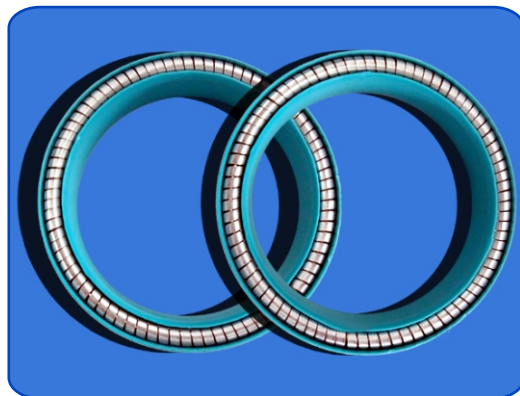
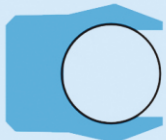


450 FILLED GRADE PEEK THRUST WASHERS, THRUST BEARING, STEM BUSHINGS

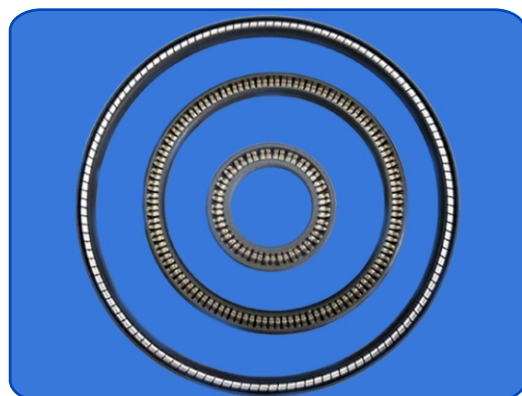
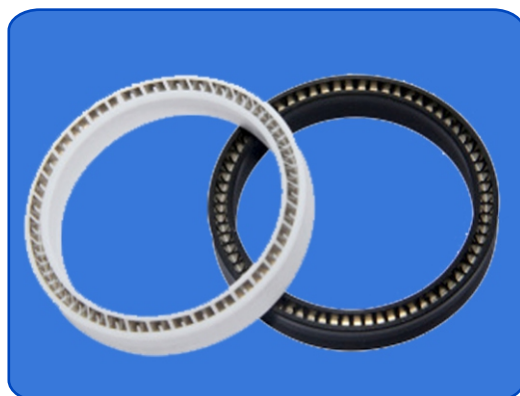
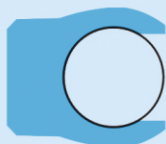
ENERGIZED LIP SEAL

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.

TYPE : FCS-001



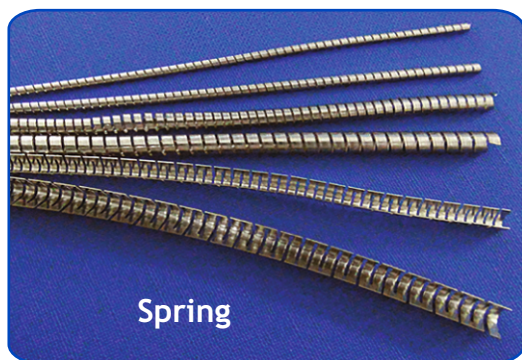
TYPE : FCS-001 /A



TYPE : FCS-002



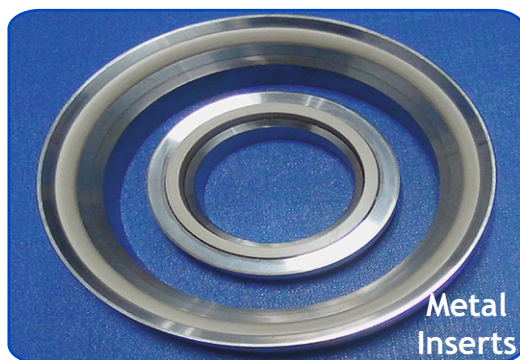
TYPE : FCS-002 /A



Packing Set



TYPE : FCS-003

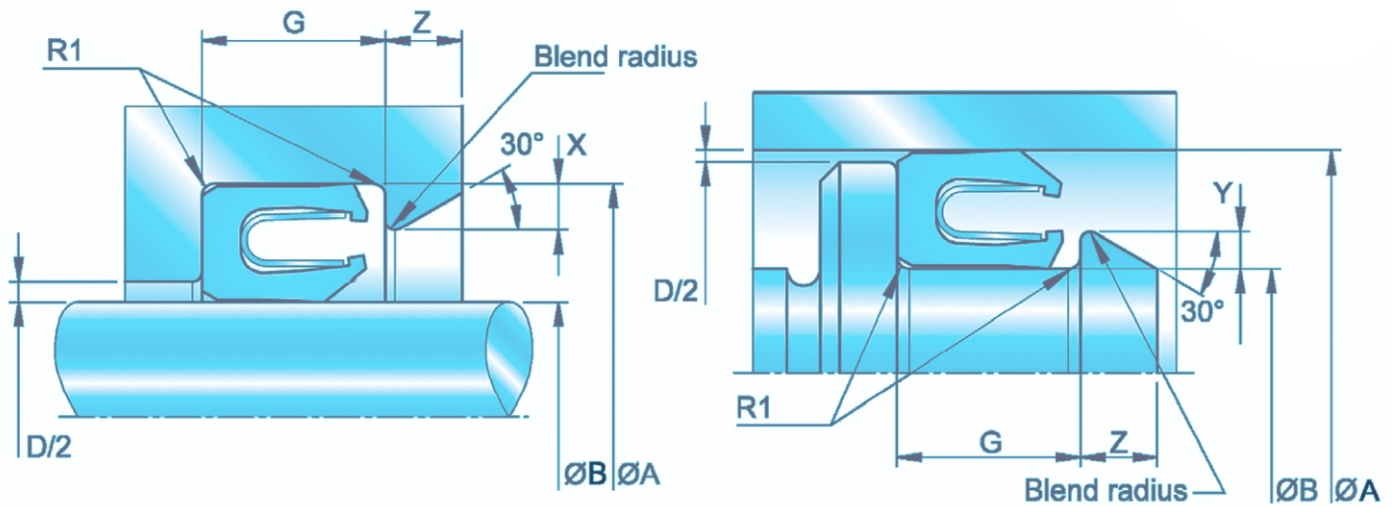


TYPE : FCS-003 /A



Metal Inserts

Spring



Spring Materials

ELGILOY / PHYNEX

HASTELLOY C276

SS301, SS302, SS304, SS316

INCONEL

Lip Seal Materials (Jacket)

PTFE - Virgin

PTFE - Virgin Modified

PTFE - Reinforced with Carbon and Graphite

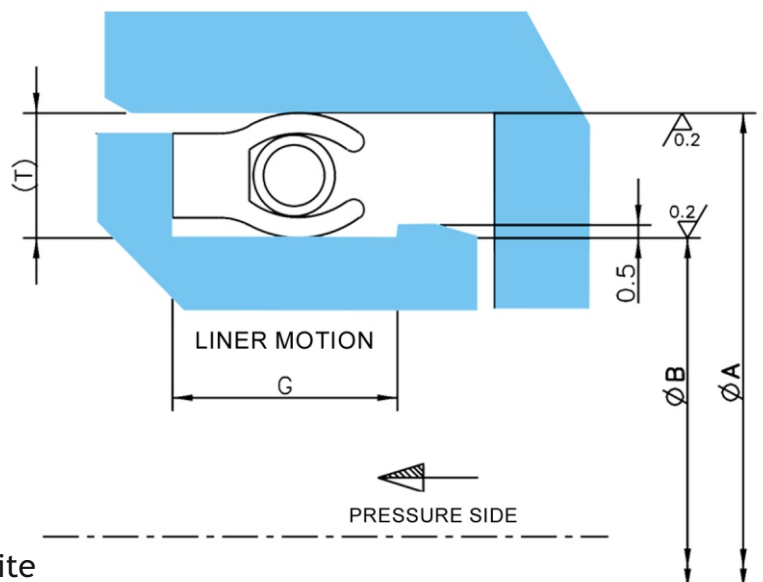
PTFE - Filled with Glass Fiber and MoS_2

PTFE - Reinforced with Special Filler

UHMW - PE Modified

EKONOL - PTFE

PEEK and PCTFE



Spring Type

Helical

Cantilevered V Spring

Cantilevered U Spring

GROOVE DIMENSIONS

Nominal Cross Section	A mm		B mm	
	From	To	From	To
1 / 16"	6	1000	3	900
3 / 32"	10	1000	4	900
1 / 8"	15	1000	6	900
3 / 16"	20	1000	12	900
1 / 4"	35	1000	20	900
3 / 8"	50	1000	25	900

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.

PTFE Piston Seal & Backup Rings High Pressure Piston Seals

PTFE Transmission Seals

Hydraulic Seals



AVAILABLE GRADES

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

CHEVRON PACKING



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

AVAILABLE GRADES

- PTFE
- PEEK
- Modified (TFM) PTFE

Chevron Packing Set



Chevron Packing Set

PCTFE

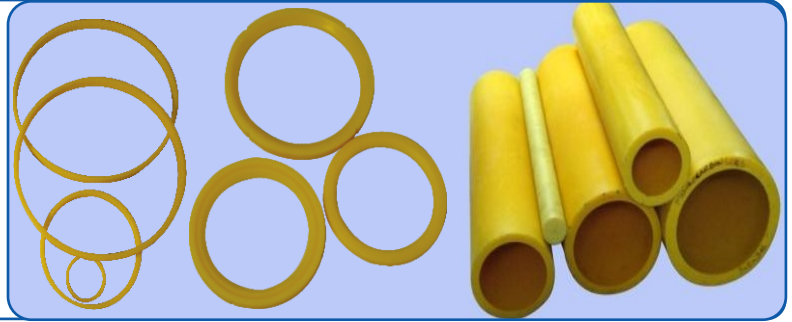


Applications:

PCTFE characterized by its excellent stability at low temperatures, is used for the seat of the valve 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,

DEVLON V-API

- Increases component life
- Extends life of mating parts
- Is cost effective
- Does not require special fitting tools
- Is lightweight and easy handling



DEVLON Inserts for Floating Valve

Typical Applications:

Valve seat inserts
Clamps
Bundle spacers
Rollers & Bearings



PTFE General Components

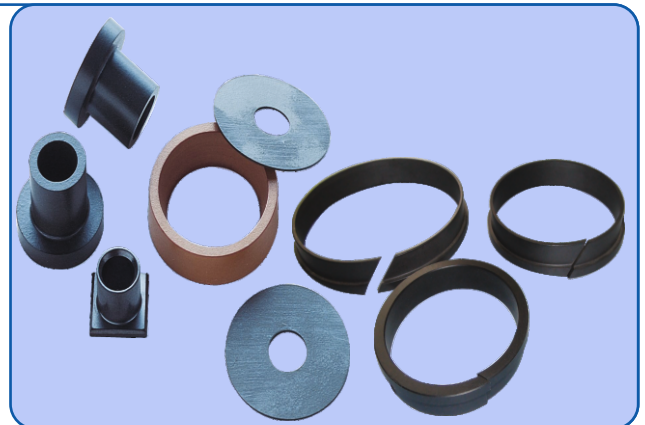
DUPONT™ VESPEL®

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

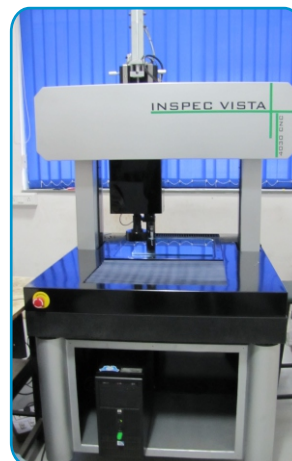


VESPEL Seals

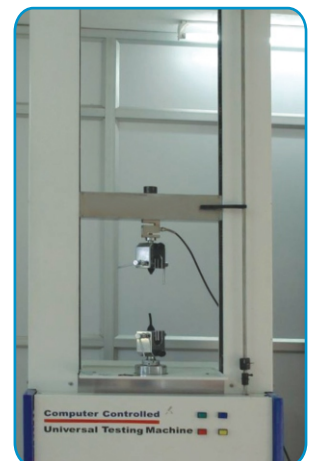
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RECEIVED FROM PRIME MINISTER OF INDIA



INHOUSE TESTING FACILITIES



Video Measuring Machine
with CMM



Universal Testing Machine

FCS FLUORO CARBON SEALS PVT LTD

(an ISO 9001:2008 Certified company)

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Thuraipakkam, Chennai - 600 097. India



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e-Mail: fcs@fluorocarbonseals.net, info@fluorocarbonseals.net

Web: www.fluorocarbonseals.com

Manufacturers of

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