

# **OUR VISION**

To be the global leader in industrial solutions, recognized for our commitment to quality, innovation, & sustainability, while exceeding customer expectations & contributing to the advancement of the industries we serve.

At Steam Seal Products,
our mission is to provide superior
industrial products that deliver
exceptional performance & reliability.
We are dedicated to continuous
innovation, utilizing cutting-edge
technology & materials to meet
the evolving needs of our customers.
Through a strong focus on quality,
safety & environmental responsibility,
we aim to build lasting partnerships
with our clients and contribute
positively to the industries we support.

# **OUR MISSION**



# **ABOUT US**

We would like to introduce ourselves as premium manufacturers of all types of Gland Packing, Rings, Ropes and Gaskets serving the Valve and Pump industry for the last three decades. Over these developing years, we have transformed general products into special customized products as per the industry requirements.

Steam Seal Products | Stuffer® is a Pioneer in sealing technology. Steam Seal manufactures and supplies High Quality Non – Asbestos Gland Packing, Ropes & gaskets; Customized Die formed rings. Also manufacturing high quality Tanged, Spiral wound Gaskets.

SSP manufactures an extensive range of high quality gland packing, this outstanding range of products and services make SSP the best choice whatever your Gland packing & gaskets requirements may be.

The company is fully committed to excellence in customer service and this commitment runs through the organization at all levels.

# SSP 3100+3500 FE (FUGITIVE EMISSION) BRAIDED & GRAPHITE COMBINATION PACKING SET

Combination set consisting of SSP 3500FE Inconel jacketed expanded graphite braided packing as end rings and SSP 3100FE flexible pure graphite die-formed packings as intermediate rings.





- The most advanced technology valve packing set designed for high pressure application and extreme performance.
- Certified as per API 622, 3rd edition.
- Low emission graphite packing (Leakage <100ppm)</li>
- High purity graphite with corrosion inhibitor and low detrimental materials like chlorides, fluorides and sulphides, eliminates the chance of decomposition at elevated temperature and formation of oxide, thereby reducing volume loss and increasing tightness.
- The braided end rings are excellent wiper rings, which prevent build up of free graphite/contamination on the valve stem, increase extrusion resistance, pressure resistance and dimensional stability.
- Packing set treated with a high temperature resistant solid lubricating agent to reduce friction even at elevated temperature.

Service Media and Conditions	Steam, hydrocarbons, hydrogen, catalysts, oils and gases, acid and alkali etc	
Temperature	-196°C to 540°C	
Pressure	425 bar (static)	
рН	0 to 14	
Applications	Valves	

# EXPANDED GRAPHITE BRAIDED RINGS WITH REINFORCED INCONEL WIRE | SSP - 3500 FE

SSP 3500FE Inconel jacketed expanded graphite braided packing, self-lubricating, non-hardening, dimensionally stable and resistant to gases and fluids as well as heat, pressure and chemicals. It's high temperature flexible graphite and Inconel® filament jacket affords mechanical stability while the advanced construction provides leakage control and high integrity in steam service.

Certified as per API 622, 3rd edition

• Low emission graphite packing (Leakage <100ppm)

Service Media and Conditions	Superheated and saturated steam, Hydrogen, All liquids & gases, Hot ash, hydrocarbons, dyes and chemicals, fuel oil and lube oil etc.	
Temperature	240°C to 650°C	
Pressure	550 bar (static)	10 m
рН	14	

#### FLEXIBLE GRAPHITE RINGS | SSP - 3100

Service Media and Conditions	Superheated & Saturated steam, all non-oxidizing liquid & gases, Hydrocarbons, Dyes & Chemicals, Fuel oil & Lube oil etc.	
Temperature	-200°C to 650°C (Steam)	
Pressure	Upto 300 bar (static)	
рН	14	



#### PRESSURE SEAL RING REINFORCED WITH SS-304/SS-316| SSP 3100 PSR

- Much better substitute for soft iron gaskets
- Vertical reinforcement of SS wire net provides superb mechanical strength
- Does not damage parent equipment
- Approved by a host of valve makers

Service Media and Conditions	Superheated and saturated steam, all non-oxidising liquids and gases, hydrocarbons, dyes and chemicals fuel oil and lube oil etc
Temperature	-240°C to 650°C
рН	0 to 14
Max Pressure	500 bar (static)
Applications	Valve bonnets



#### ·GRAPHITE TANGED GASKETS | SSP 3100 G METALLIC

Graphite tanged gaskets are used in the chemical and petrochemical industries, in steam systems, and for flange gaskets for piping and machinery. They are often less expensive than MLS gaskets and can seal on rougher surfaces.

Material	Graphite reinforced with tanged stainless steel
Temperature	-200°C to 650°C, depending on the application
рН	Vaccum to 140 bar
Flexibility	Flexible with high recovery and no aging
Impermeability	Impermeable to gases and liquids
Compressibility	45%
Recovery	20%



#### SSP-3100 G SPW Spiral Wound Gaskets

Spiral wound gaskets are widely used in major process industries as Gasketing solution. These gaskets are made from different filler materials such as PTFE, GRAPHITE and other non-Asbestos materials. The stainless steel cover depends on the required grade in the process fluid such as SS-304/316/INCONEL/MONEL/UNS31803 etc. These gaskets are manufactured as per standard in ASME B16.20 in different pressure classes or in customised form as per demand. Size range starts from ½" to 24". These gaskets are manufactured with or without inner and outer rings as per the groove and flange sizes. Inner ring and outer ring material composition are defined and supplied as per material grade demand.

Temperature	650°C	
Pressure	Upto 250 Bar Max	
рН	0 to 14	

#### SSP 3100 GS (GRAPHITE SLEEVE WITH SS-304 EYELETS)

Graphite Packing sleeves are used in many brands of gauge cock, to prevent leakage and to ensure effective operation. They are made from high purity graphite, with stainless steel eyelets, the computer controlled compression, ensure a standard, quality product. A popular application of graphite sleeve is to seal the drain cocks for level gauges, use of graphite sleeves provides smooth and reliable operation of the cocks and high resistance to erosive action of the medium and pollution.

Temperature	-200°C to 300°C (Non Oxidizing) -200°C to 500°C (Oxidizing) -200°C to 650°C (Steam)	
рН	0 to14 (Except Strong Oxidisers)	

#### SSP 3100 G (Graphite / Non Asbestos Gasket)

Service Media and Conditions	Superheated & Saturated steam, all non-oxidizing liquid & gases, Hydrocarbons, Dyes & Chemicals, Fuel oil & Lube oil etc.
Temperature	-200°C to 650°C (Steam)
Pressure	Upto 300 bar





#### **EXPANDED PTFE YARN PACKING | SSP - 4000**

Velocity

рΗ

Highly corrosive chemicals, ammonia charge pumps, strong as well as weak acid & alkali, chemicals, foodstuffs, pharmaceutical industry applications, drinking water, hydrogen etc.

industry applications, drinking water, hydrogen etc.		
Temperature	-200°C to 260°C (Steam)	

5 m/s

0-14





#### EXPANDED GRAPHITE BRAIDED PACKIN | SSP - 3200 | SSP - 3110 INCONEL | SSP - 3220 SS

Service Media and Conditions	Superheated & Saturated steam, all non-oxidizing liquid & gases, Hydrocarbons, Dyes & Chemicals, Fuel oil & Lube oil etc.	
Temperature	-250°C to 600°C (Steam)	
Pressure	Upto 450 bar	
рН	0 to 14	

#### PTFE GASKETS & RINGS | SSP - 4100 PTFE

Highly corrosive chemicals, ammonia charge pumps & carbonate recycle pumps, strong as well as weak acid & alkali, chemicals, foodstuffs, pharmaceutical industry applications, drinking water, hydrogen etc.

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Velocity	5 m/s	
рН	0 to14	

# EXPANDED PTFE / GRAPHITE PACKING WITH PURE ARAMID CORNERS | SSP - 8100 & SSP - 8200

Ammonia & Carbonate Solution, Plunger Pumps, Liquor Pumps, Sewage Water, Hot Water, Industrial Water, Oils, Greases, Solids, Sand Weak Acids & Alkali solutions etc.

Service Media and Conditions	Carbonate Solution, Ammonia Compounds, Chemicals, Abrasives, Slurries, Sewage, Water, Oils, Solvents, Diluted acids & Alkali etc.
Temperature	-240°C to 200°C (Steam)
рН	2-13

Temperature	280°C
Pressure	250 Bar
рН	0-13



#### CARBON FIBRE BRAIDED PACKING | SSP - 9100

рΗ

Service Media and Conditions	Acid & Alkali, Caustics, Liquor, Steam, Boiler feed Water, Condensate, DM Water, Fuel Oil, Lube Oil, Solvents, Oil, Gases, Hydrocarbons etc.	
Temperature	600°C	
Max Velocity	25 m/s	TOTAL STATE OF THE PARTY OF THE

0-14





## **TESTING LAB**

Steam Seal Products is fully committed to excellence in providing high quality products to our customers. To provide cutting edge high quality products we have a state of art testing laboratory for testing products and every level of production so that only the best gets delivered to our customers.







#### **CERTIFICATIONS**









purvainspection.com

#### **API STANDARD 622** TYPE TEST CERTIFICATE

TYPE TESTING OF PROCESS VALVE PACKING FOR FUGITIVE EMISSIONS THIRD EDITION, OCTOBER 2018; ADDENDUM 1, MARCH 2022

Performed for

#### STUFFER (STEAM SEAL PRODUCTS)

www.steamseal.in

#### SSP STYLE 3500 FE STUFFER

TEST REPORT NO: PITS/FET/622/STUFFER/RP/001

TEST START DATE : 25TH SEPTEMBER 2023 TEST END DATE : 30TH SEPTEMBER 2023

Performed by

#### **PURVA INSPECTION & TESTING SERVICES**











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**API STANDARD 622** 

TYPE TEST CERTIFICATE

# Our Global Reach



#### **Our Valued Patrons**

























































#### **Industries Served**

Petrochemicals | Chemical | Steel | Mining | Marine | Sugar & Ethanol |
Bio Diesel | Paper | Water & Sewage | Metallurgical | Bio Pharmaceutical |
Power Generation | Pump & Valves.