



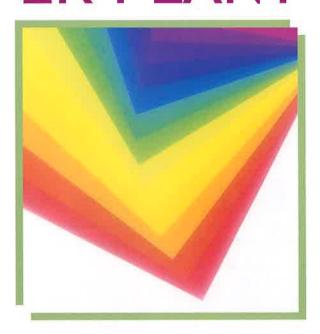


Electronics Energy Ecology





Pillar Products for PULP and PAPER PLANT



Since 1924, Nippon Pillar Packing Co., Ltd has contributed to the growth of industries with our total sealing technology. In our long and glorious history, we have always put emphasis on Research and Development, and served thestate-of-the-art products in the field of leak preventive products such as mechanical seals, gland packings, gaskets and Pilaflon® products.

PILLAR mechanical seals, by using the superior sealing materials based on our advanced technology and abundant experience, have been employed in much severe applications such as for nuclear power stations. PILLAR packings/gaskets are available with our differential raw material to the requirements of fugitive emission control and of low torque in the valves. Pilaflon® products has used the best suitable material in our integral manufacturing process from raw material.

"Quality first" is our company motto, and we are the first seal manufacturer in Japan to be certified ISO 9001. Also, we were certified ISO 14001 for environmental concern.

In pulp and paper industries, a lot of resources such as electric powers, fuels, steam and water are consumed and many difficult fluid to handle with are used. So, save-energy and measure to prevent leakage are very important.

This catalogue was prepared to help you select the best suitable products to your specifications in pulp and paper industry. It shows only typical products to cover the specifications as much as possible to minimize the inventory stock. But, our products are not shown exhaustively here. We have PILLAR distributors worldwide to serve you, so please contact us for any further information.



BRAIDING OF GLAND PACKING



LAPPING OF MECHANICAL SEAL



DRY GAS SEAL TEST BENCH



ELECTRON MICROSCOPE



Selection of seal and packing for pump

Type 4526L

Type 4527L

Type G300

Type G1

O 1 6 10 16 20

Velocity: m/s

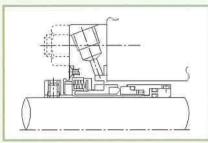
Mechanical Seals

Type GAKEM

Cassette seal® (Knife edge)







Code: MS-GAKEM-TF022 - (Size), SiC vs SiC & Fluoro Elastomer, 316 SS

Features & Benefits

Easy installation

This is cassette type seal providing easy installation. Replacement from gland packing is not required any modification.

Since this seal uses knife edge mating ring, it provides the stable performance against high viscosity and slurry liquid.

Performance

Pressure: 1,0MPa,

Temperature: -20~150°C, Size: \phi20~100
Application: High viscosity liquid, Polymeric liquid

Type QAK

Formed metal bellows knife edge seal



Features & Benefits

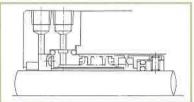
High viscosity liquid, polymeric liquid, coagulating liquid

Since this type uses a formed metal bellows and its sealing material is designed for sharp knife edge at one end, it provides the stabilized performance against the high viscosity liquid, polymeric liquid, coagulating liquid, etc.

Performance

Pressure: 1,0MPa, Velocity: 20m/s, Nom.size: ϕ 20~106 Application: High viscosity liquid, Polymeric liquid





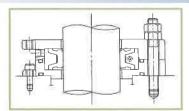
Code: MS-QAK - (Size), Tungsten Carbide vs Tungsten Carbide & 316 SS

Type **G1**

Rubber End-face type







Code: MS-G1 - (Type) - (Size), Special rubber vs Ceramic & Fluoro Elastomer, Bronze

Features & Benefits

Simplified U-shape rubber seal

The mechanical seal of this type is an end face type seal which uses the simplified U-shape rubber. It is suitable for low velocity equipment which has the axial movement by the excellent follow -up performance,

Performance

Pressure: 0,2MPa, Velocity: 6m/s, Temperature: $-10\sim60^{\circ}$ C Application: Flotator, Agitator

Gland Packings

Type 6300*

Live seal unit®



Features & Benefits

For low velocity equipment

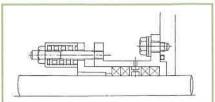
This is the new packing system consists of the gland packing, spring and collar, The live loading system (spring pressing system) enables no stress relaxation for a long period of time, reduces leakage amount and maintenance cost,

(US, EP, Korea, Taiwan, China pending)

Performance

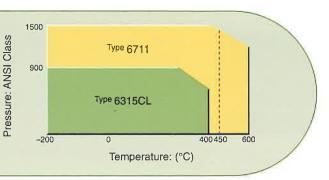
Application: Mixer, Kneader, Dryer





Code: GP-6300 - (Size)

Selection of valve packing

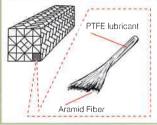


Type **4526L**

Aramid fiber packing







Aramid fiber packing

This is a packing consisting of the aramid fiber impregnated with PTFE dispersion and heat resistant lubricant. It is interlocking braided packing and creates a stable sealing ability and stability for a long period of time.

Performance

Features & Benefits

Temperature: 260°C, Pressure: 1.6MPa, Velocity: 16m/s, PV value: 14.7MPa m/s Application: Slurry liquid, Boiler feed pump

*Cooling is required for liquid over 80°C

Code: GP-4526L - (Size)

Type 4527L

Special Pilaflon® fiber packing



Features & Benefits

Special Pilaflon® super packing for chemical

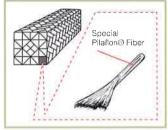
This is an interlocked braided packing, consists of the PTFE fiber and containing highly pure graphite and special lubricant. The original interlocked braiding system enables uniform contact with shaft and creates a stable sealing effect for a long period of time.

Performance

Temperature: 260°C, Pressure: 1,2MPa, Velocity: 20m/s, PV value: 12,3MPa-m/s Application: Slurry liquid

*Cooling is required for liquid over 80 °C





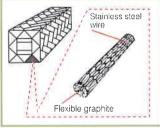
Code: GP-4527L - (Size)

Type 6315CL*

Pillarfoil® braided packing for low torque







Features & Benefits

For regulating and control valve to comply CAAA regulation

This is made of flexible graphite yarn reinforced by stainless steel wire, and braid over braid then treated with special lubricant. This has superior performance for regulating and control valve.

(Pal No US5134030, 5240769, EP340303, Korea63539)

Performance

Temperature: -200~400°C (Packing area up to 350°C), Pressure: ANSI Class 900 Application: Regulating valve, Control valve

Type 6711*

Pillarfoil® Braided Packing (Mark III®)



Features & Benefits

For high temperature & pressure valve

This is Pillarfoil® packing reinforced by inconel wire. It's recommended in high temperature and high pressure valves.

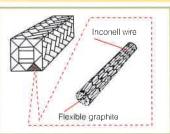
(US4705722, EP253031, KR42430)

Performance

Temperature: -200~600°C, Pressure: ANSI Class 1500 Application: High temperature and high pressure valve

Maximum Temperature in oxidizing atmosphere: 450°C



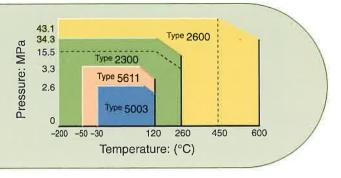


Code: GP-6711 - (Size)





Selection of gasket

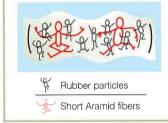


Gaskets

Type **5003**

Aramid fiber hybrid rubber sheet





Features & Benefits

Hybrid rubber sheet gasket

This is aramid fiber hybrid rubber sheet gasket, It has superiority in sealability, no penetration leakage, excellent reversion for compressibility and minimized stress relaxation.

Performance

Temperature: -30~120°C, Pressure: 2.6MPa Application: Flanges for pipe, Equipment

Code: VG-5003 - (thickness) × (width) × (length)

Non-asbestos joint sheet (For general application)

Features & Benefits

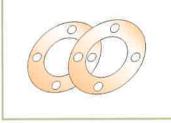
For general application

High strength synthetic fiber, inorganic fiber and NBR are combined evenly, and formed into sheet.

Performance

Temperature: -50~120°C, Pressure: 3.3MPa Application: Flanges for pipe, Equipment





Code: VG-5611 - (thickness) \times (width) \times (length)

Type 2300

Pilaflon® spiral wound gasket





Features & Benefits

Spiral wound gasket using Pilaflon® filler

This is using 100% PTFE Pilaflon®, a highly pliable and elastic soft tape. It is superior in gas sealability and chemical resistance, It can be used for any kind of fluid.

Performance

Temperature: -200~260°C, Pressure: 34.3MPa (for liquid), 15.5MPa (for gas) Application: Flanges for pipe, Equipment

Pillarfoil® spiral wound gasket

Features & Benefits

Spiral wound gasket using Pillarfoil® filler

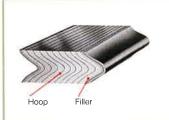
It is superior in gas sealability, heat resistance and chemical resistance. It can be used in vacuum, LNG, nuclear application as well as general application,

Performance

Temperature: -200~600°C (450°C for oxidizing atmosphere)

Pressure: 43.1MPa (ANSI Class 2500) Application: Flanges for pipe, Equipment





Code: Standard With inner ring
With inner/outer ring

VG-2600-EOO-ANSI (Size) LB-00' VG-2601-EEO-ANSI (Size) LB-00' VG-2603-EEE-ANSI (Size) LB-00"

PTFE Products

Piston ring

Type **4370**

Piston ring



Code: PF-4370 - (Material) - (ID) × (OD) × (T)

Features & Benefits

New material for piston ring

This is a lubricant-free piston ring made of filled Pilaflon®, ensuring a stable sealing effect for a long time.

Performance

Temperature: -100~220°C, Pressure: 9.8MPa, Velocity: 4m/s Application: Oil-free compressor, Reciprocating equipment

Type 4391~4394

Features & Benefits

New material for rod packing

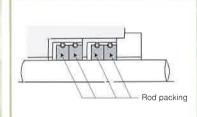
This is a lubricant-free rod packing made of filled Pilaflon®, ensuring a stable sealing effect for a long time.

Performance

Temperature: -100~220°C, Pressure: 2.9MPa, Velocity: 4m/s Application: Oil-free compressor, Reciprocating equipment

Rod packing





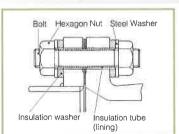
Code: PF-439* - (Type) - (Material) × (ID) × (OD) × (T)

Type **4650**(H)

AC bolts



Code:PF-4650(H)-ANSI - (Size) LB- (Size) "



Features & Benefits

TLined with hard Pilaflon®

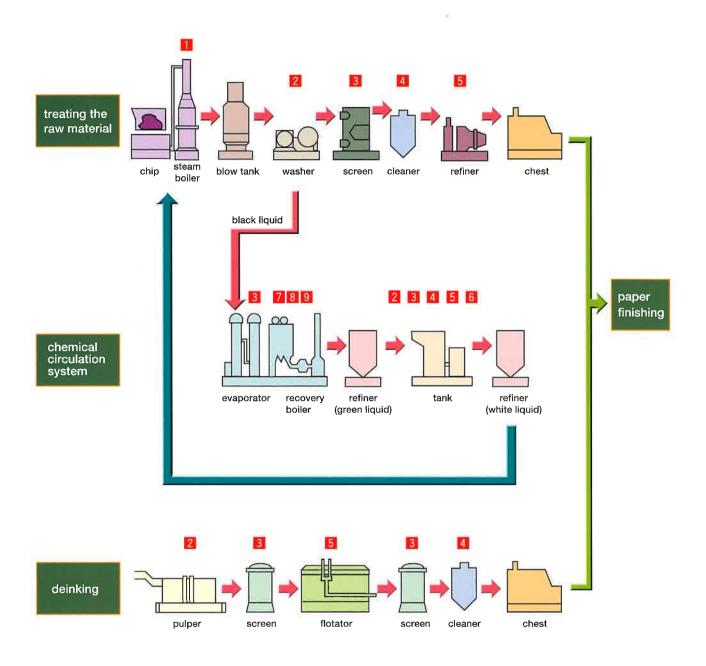
With insulation washers and gaskets, it is to prevent galvanic corrosion which may be generated on different metal flanges. PFA insulation diameter is smaller than thread diameter, so enabling easy insertion work.

Performance

Temperature: -196~200°C

Application: Flanges for pipe, Equipment

Pillar products for paper products, pulp







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*Specifications and dimensions are subject to change without prior notice. *The data on this catalogue are solely for your reference and are not to be construed as constituting a warranty.



Read through and follow the instructions on the manual before installation and operation for your safety.