



DRINK - BEVERAGES - JUICES - LIQUID - WINE - LIQUOR - BEER

TECHNOLOGY - PROCESSING - PACKAGING - BOTTLING - AUTOMATION

# PTFE SOLUTIONS FOR THE FOOD INDUSTRY

## A COMPLETE LINE OF PRODUCTS



**S**pecialist in the field of sealing systems and components since 50 years, PANTECNICA is constantly committed to develop and improve its offer with innovative and customized solutions. The following is mainly derived from the documentation of the manufacturer "ElringKlinger-Engineered Plastics", of which PANTECNICA has been the exclusive engineering partner for the domestic market for over 30 years. These are innovative solutions in high performance plastics such as PTFE and PTFE, PEEK, PE-UHMW composites. PANTECNICA is able to meet the most specific market requests with solutions that meet the strictest standards of food and pharmaceutical industry.

PANTECNICA's long lasting experience in the application of almost any sector allows the company to supply both miniature components and seals up to 3.000 mm in diameter, with rapid delivery for both single-piece and large-scale production.

**Moldflon®** - Thanks to this fluorothermoplast that combines the properties of PTFE with greater freedom and cost-effectiveness of thermoplastic transformation processes such as injection molding, the range of application of the materials so far used is greatly expanded thus expanding the range of solutions and products.

### **RADIAFLON - PTFE/Compound Radial Shaft Seals**

Mainly employed on rotating shafts. Characterized by high chemical resistance, they can be used in case of insufficient lubrication and dry runs. Sterilizable CIP (Clean In Place) and SIP (Sterilisation in Place)



RADIAFLON

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Pressure up to 15bar with standard type.  
Peripheral speed > 35m / s.  
Temperature -60°C +200°C

- Standard Executions: HN2390 and HN2580 and special customized solutions: multi-lip, friction-optimized, counter-sealed, single lip, hydrodynamic lip and various thickness and preload lips
- Compounds in Compliance to: FDA, EU, AAA, USP VI

### **Applications: in Food and Pharmaceutical Processes**

- Mixers and agitators (of fluids and powders)
- Grinders
- Fillers
- Pumps
- Centrifuges
- Special executions for rotating filling machine distributors

### **SPRINGFLON - PTFE /Compound Spring Energized Seals**

Used for single linear acting on pistons or rods, in rotating, rotating-slyding , angular and static applications.

Characterized by high chemical resistance they can be used in poor lubricated or dry conditions.

Sterilizable CIP (Clean In Place) and SIP (Sterilisation in Place)

Pressure up to 700bar.



SPRINGFLON

Linear speed up to 15m/s - rotating speed up to 2,5m/s  
Temperature -200°C+300°C

- Standard executions and special or customized solutions, monoblock pistons, Hi-Clean versions
- Compounds in Compliance to: FDA, EU, AAA, USP VI ....

### **Applications: in Food and Pharmaceutical Processes**

- Dispenser
- Packaging machines
- Piston pumps
- Special executions for rotating filling machine distributors

### **MEMORY - PTFE/Compound Preload Seals**

Characterized by high chemical resistance they can be used in poor lubricated or dry conditions.

Available in PTFE Compound and PE-UHMW

Sterilizable CIP (Clean In Place) and SIP (Sterilisation in Place)

Used for single linear acting on pistons or rods, in rotating, rotating-slyding and angular motions.

No sticking phenomenon even after long periods of inactivity

Pressure up to 20bar

Linear speed up to 15m/s - rotating up to 1m/s





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MEMORY

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Temperature -40°C +200°C

- Standard executions and special or customized solutions, guided piston
- Compounds in Compliance: FDA, EU, AAA, USP VI ....

**Applications: in Food and Pharmaceutical Processes**

- Filling Valves
- Pneumatic cylinders and actuators
- Dispenser
- Packaging / Bottling Machines
- Suction pumps

**BELLOWS**

**Applications: in Food and Pharmaceutical Processes:**

- Protecting sterile areas
- Filling systems with over 20million strokes achieved
- Aseptic valves
- Solenoid valves
- Dispensers
- Pumps and valves
- Pressurization Valve (filling machines - P up to 6bar - 10mil cycles)
- Blow molding valve (food design - P



BELLOWS

up to 32bar - 4mm stroke - 10million stroke)

**DIAPHRAGMS/ MEMBRANES (executions: film, printed and turned)**

**Applications: in Food and Pharmaceutical Processes:**

- Measuring Devices
  - Pumps
  - Pressure regulators
  - Valves
- Optimized with high flexural resistance properties, even under pressure.

**BELLOWS and MEMBRANES**

In virgin PTFE, PTFE modified or PTFE compound  
 Resistant to chemical agents  
 Sterilizable CIP (Clean In Place) and SIP (Sterilisation in Place)  
 Can be used at temperature range between -60°C and +200°C.  
 Vacuum pressure up to 6bar

- Special and custom executions
- Compounds in Compliance: FDA, EU, USP VI ....

**TUBING**

In virgin PTFE, modified PTFE or PTFE compound, Moldflon®  
 Resistant to chemical agents  
 Sterilizable CIP (Clean In Place) and SIP (Sterilisation in Place)  
 Pressure up to 8bar  
 Compounds in Compliance to: FDA, EU

**Applications: in Food and Pharmaceutical Processes:**

- Filling machines
- Tank connection / filling machines valve

**ANTIFRICTION BEARINGS**

In virgin PTFE, PTFE compound, Moldflon®, PEEK  
 Excellent resistance to chemical agents  
 Sterilizable CIP (Clean In Place) and SIP (Sterilisation in Place)  
 Operating temperature -100°C +250°C  
 Suitable for dry applications with high PxV (up to 2,5N/mm² X m/s)  
 No moisture absorption  
 Corrosion free  
 High static compressive strength (up to 80 N/mm²)  
 Compounds in compliance to: FDA, EU, USP VI.

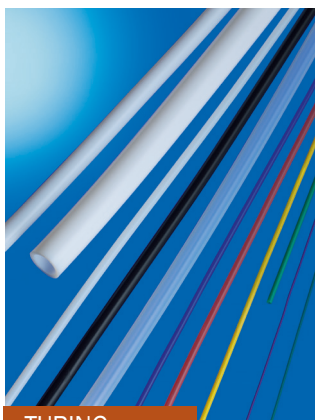
**Applications: in Food and Pharmaceutical Processes:**

- Shakers
- Mixers,
- Bottling lines
- Conveyors
- Packaging lines 🏭

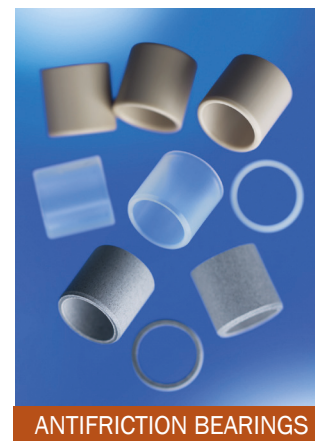
[www.pantecnica.it](http://www.pantecnica.it)



DIAPHRAGMS/ MEMBRANES



TUBING



ANTIFRICTION BEARINGS

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