THE LARGER RANGE WORLDWIDE

From DN 15 (1/2") to DN 600 (24") according to DIN 2848 or ANSI B 16.5 standards



THE MOST COMPLETE RANGE WORLDWIDE

From DN 25 (1") to DN 1050 (42") in 2/3 or 5 convolutions

PLAIN BELLOWS:

stainless steel rings for external reinforcement (type 207)



REINFORCED BELLOWS (type 227)

• Type 227 bellows are reinforced by stainless steel rings and stainless steel caps, making them suitable for high pressure service.

BELLOWS FOR VACUUM SERVICE: internal rings for vacuum resistance

 Our bellows are available to be used under vacuum up to 180° C (V range).



COMPENSATORS:

• Thanks to their great flexibility, our PTFE

full stainless steel compensators lined PTFE (type 283).

bellows can be used as expansion units in pipelines or as protection units for equipment

in brittle materials (glass, graphite, etc).

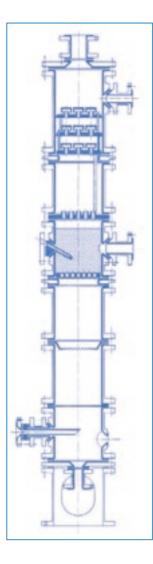
• Designed for very high pressure (up to 18 bars).



ARMYLOR® Column DESIGN

ARMYLOR[®] Columns consist on a construction by element without gaskets:

- Flanged elements with maximum height of 1500 mm per section,
- Assembly without gaskets,





- Flat bolted Bottom & Top,
- Nozzles made by mechanical extraction,



- Support ring (donut) between elements for installation of internals,
- Internals in graphite, metals or plastic materials.

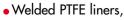


ARMYLOR[®] PTFE thick liners are loose inside the steel shell

Diameters up to 64" :

- Seamless liners,
- Standard or heavy duty PTFE thickness (up to 10 mm),
- Fine powders of PTFE.

■ Diameters > 64" :

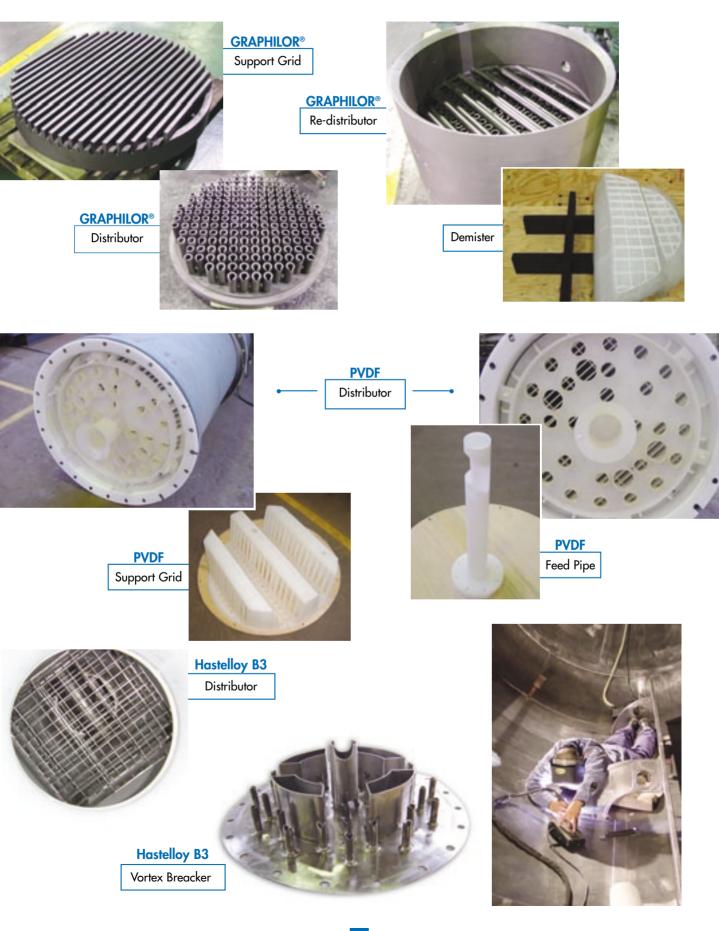


• Standard thickness 3 or 4 mm.



Internals

CARBONE LORRAINE supplies internals in various materials

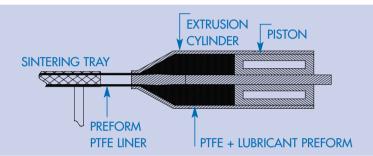


FPE



The paste extrusion process for pipe liner

Advantages : flexlife + tensile strength

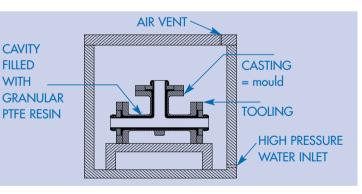




Isostatic molding of PTFE parts

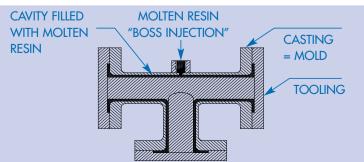


Advantages: cost + heavy wall thickness



PFA Transfer-molding

Advantages: reliability - Monoblock parts





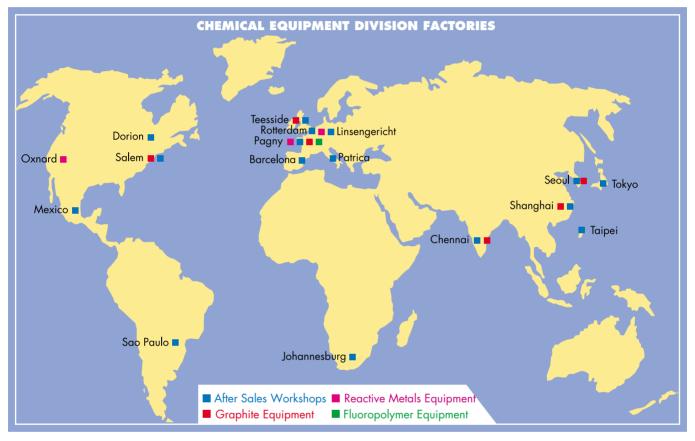
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GROUPE CARBONE LORRAINE

CHEMICAL EQUIPMENT DIVISION

worldwide specialist in corrosion resistant equipment

has built an international reputation. Based on people, methods and technical expertise, we contribute to our customer's success using the quality and innovation of our products and services.







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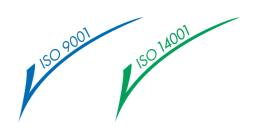
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Fluoropolymer Equipment FPE





We made it

ARMYLOR®

CARBONE LORRAINE The experience of a pionneer

The Chemical Equipment Division has been making PTFE/PFA lined piping since 1964, and is considered as a pioneer in the transport and storage of corrosive fluids.

ARMYLOR[®], material made from PTFE/PFA, is suitable for almost all corrosive fluids within the temperature range from -50°C to +230°C. It is an essential product for the chemical and pharmaceutical industries in the XXIst century due to its anti-static properties and food quality, and the fact that it is available in a number of variants.



PTFE/PFA : an exceptional
material to fight corrosion

 Polytetrafluoroethylene is composed of a chain of carbon atoms completely protected by a fluorine spiral, and its chemical inertia and thermal resistance
properties are due to this structure.

