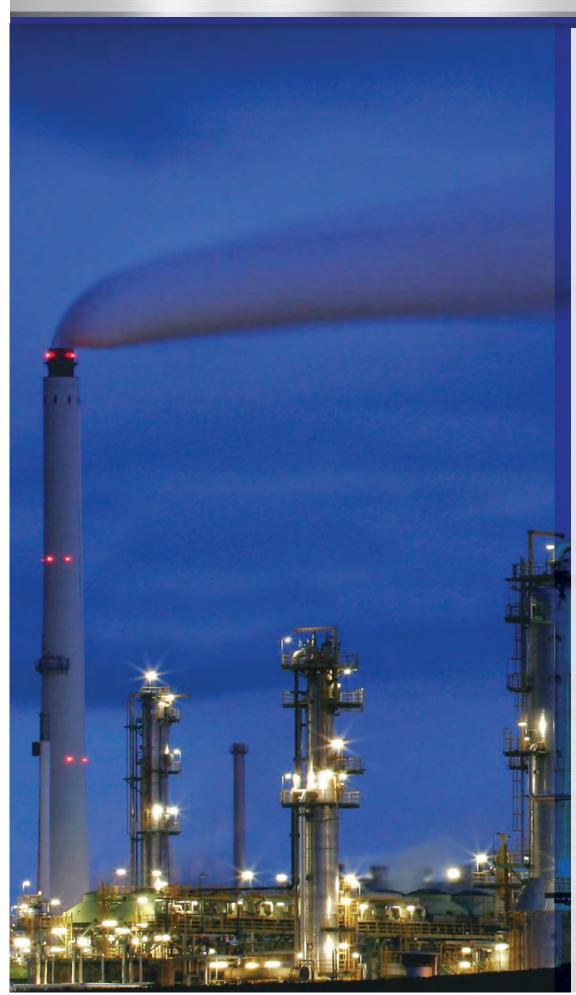




HiPerFlon® LINED COLUMNS



For more than 30 years we have been a "world leader" in the manufacture of <u>paste</u> <u>extruded</u> PTFE and PFA lined equipment including piping, fittings, columns, bellows, valves, sight glasses, sampling systems and associated equipment.

Our core customer base consists of chemical,chloralkali, bromine, fluorine, agricultural-chemical, petrochemical, pharmaceutical, biotechnology, pulp and paper, and metals refining industries.

CRP products are often installed in conjunction with our lined columns as modern chemical processes require multi-purpose function and performance which typically is not available from traditional companies.

The introduction of our HiPerflon[®] paste extruded (molecular and mechanically enhanced) PTFE and PFA lined, large diameter columns for critical processes such as strong acids, caustic, bromine, and fluorine at 200° C is a testimonial to our customer focused commitment. Our seamless, <u>10 mm thick</u>, HiPerflon[®] linings offer unparalleled, internal corrosion resistance and the absolute lowest rate of permeation, thus significantly enhancing the safety, reliability, and integrity of our customer's processes and facilities. Our proprietary and unique PFA molded nozzle sections are manufactured in one piece and eliminate the need for PTFE welding and the additional leak paths associated with a multipiece lined nozzle design.





Design Standards

PD 5500

ASINE VIII Division 1 (including ASINE U designator) EN 13445 Where appropriate all columns will be CE marked under the PED. When none of the above applies columns will be manufactured to sound engineering practice.

Welding Standards

ASME IX EN 15614-1

Construction Elements

Flot PFA lined cover with one or more PFA lined nozzles PFA lined column sections with PFA lined nozzles PTFE lined straight column sections without nozzles Flot PFA lined bottom with one or more PFA lined nozzles

Materials of construction

Body	EN 10216/7-2 P235 GH TC1/2 EN 10216/7-2 P265 GH TC1/2 API 5L Grode B				
Flanges	EN 10222-2 P245GH EN 10028-2 P235GH/P265GH EN 10273 P250GH ASTM A105				
ining Virgin HiPerFlon® (Paste extruded PTFE and PFA)					
PTFE	ASTM D4895 Minimum Tensile Requirements UTS 20,7MPo ElongoKon at Break 250 % in both direcKons. Specific Gravity in the range 2,14 - 2,17 PorKcle Size overage dio. 500 ± 200 µm				
PFR	ASTM D3307 type II Minimum Tensile Requirements UTS 26 MPo and 300% Elongation at Break Specific Gravity in the range 2,12 - 2,17 Melt Flow Rote 1 - 3 g/10 mins				
Options	Stainless Steel, Low Temperature Corban Steel				

Painting

The standard point finish is o two component low VOC, high solids fast curing epoxy primer/finish containing zinc phosphate anti-corrosive pigmentoKon. Colour RAL 5015 Blue Semi-Gloss. Typical thickness 60 microns.

CRP con also apply multi-coat wet point systems in ISO 12944 compliant paint systems based on selecting the corrosive environment and durability requirement.

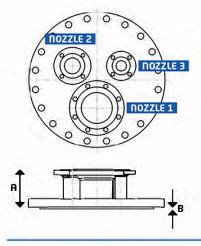
Optional column internals

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PTFE/PFA lined column ring for support grid mounting PTFE/PFA lined support grid or plate Liquid distributors Liquid re-distributors Column packing

Anti-static Lining





Column Cover ond Bottom

Column Diameter		Nozzle 1	1 Diameter Nozzle		zle 2 & 3 Diameter		PFA Thickness
ASME 150	EN (DIN) PN10	Minimum	Maximum	Minimum	Maximum	Length Dim. A [mm]	(Column Flare) Dim. B [mm]
8" NB	DN200		6" NB/DN150		2" NB/DN50		7
10" NB	DN250		8" NB/DN200		2" NB/DN50		8
12" NB	DN300		10" NB/DN250		3" NB/DN80		
14" NB	DN350	1" NB/DN25	12" NB/DN300	1" NB/DN25	3" NB/DN80	150	1.
16" NB	DN400		14" NB/DN350		4" NB/DN100		10
18" NB	DN450		16" NB/DN400				
20" NB	DN500		18" NB/DN450		4" NB/DN100		

NB: Not all length, nozzle diameter combinations are possible

Column Inlet ond Sump Section

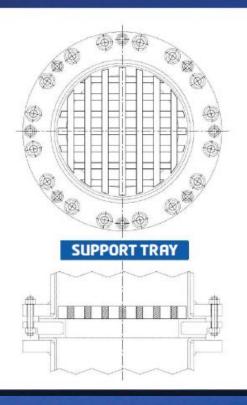


AB: Not all length, nozzle diameter combinations are possible



Column Packing Sections

Column Diameter		Length Dim. A [mm]		PTFE Thickness Dim. B [mm]		
ASME 150	EN (DIN) PN10	Minimum	Maximum	Heavy Duty	Standard Duty	
8" NB	DN200	200		8	4.6	
10" NB	DN250		3000	9.1	5.2	
12" NB	DN300			10.4	5.3	
14" NB	DN350					
16" NB	DN400		2500			
18" NB	DN450			8	5.5	
20" NB	DN500		2000			



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