



NOVEMBER 2022

# WELCOME TO BILBAO!

**Piedmont**



**DISTRIBUTOR SUMMIT**  
NOVEMBER 13-17, 2022

# CARTRIDGE FILTER HOUSING. MANUFACTURING CAPABILITIES

By German Perez – Product & Project Manager

**Piedmont**



**DISTRIBUTOR SUMMIT**

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# 1. PRODUCT DEVELOPMENT

## FRP, Carbon Steel Rubber liner and Superduplex FILTER HOUSINGS

- Q-Style
- XS-Style
- XB-Style
- QPV-Style
- High Flow baskets filters
- Self cleaning filters
- Static mixers



# FRP CARTRIDGE FILTER HOUSINGS



# FRP CARTRIDGE FILTER HOUSINGS



# CARBON STEEL CARTRIDGE FILTER HOUSINGS



# SELF-CLEANING FILTERS



# INSTALLATIONS



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# INSTALLATIONS



# 2. MAIN SUPPLIERS





**INTEGRAL SERVICE:**

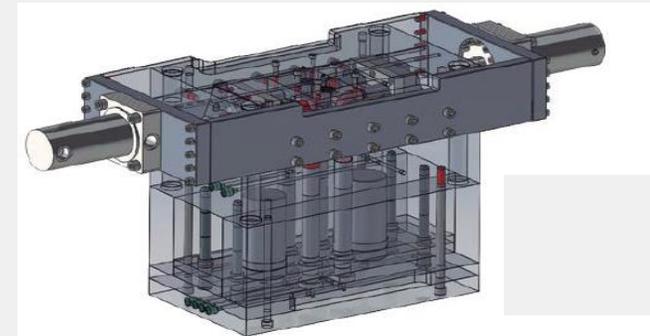
- 2D and 3D desing
- Prototyping of parts
- Costing
- Molds
- First simples
- Serial production

**FACILITIES AREAS:**

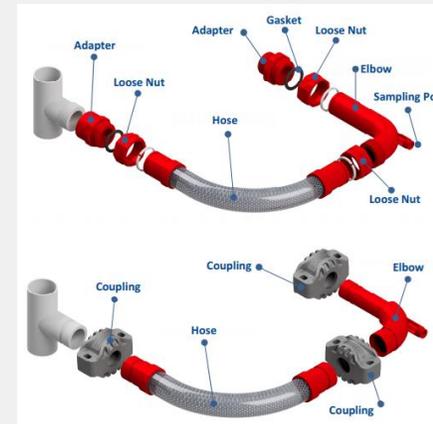
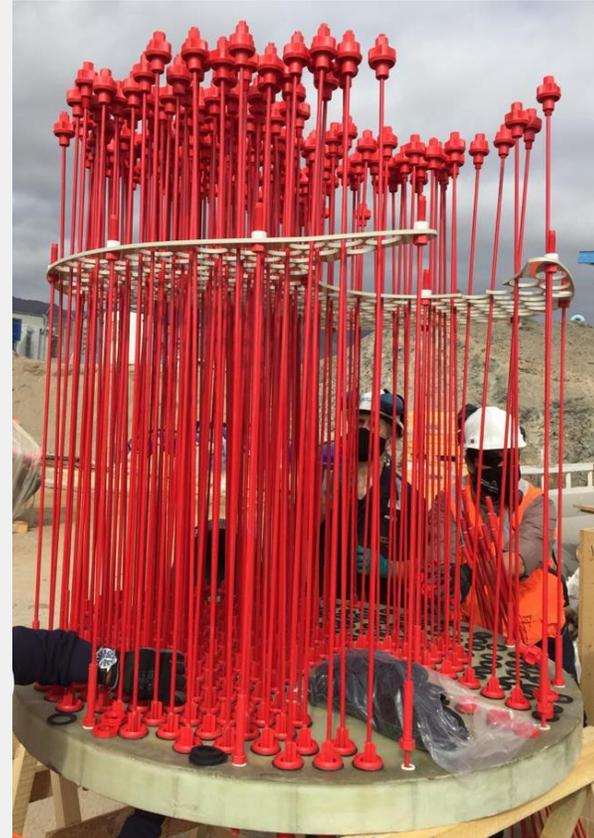
- 5,000 m2
- 17 inyection machines
- 3 cranes up to 8 Tn
- 3D printing
- Mold workshop
- Technical department

**QUALITY ACCREDITATION:**

- 30 years of experience
- International standards ISO 9001-2015
- NSF



# PLASTIC INJECTION



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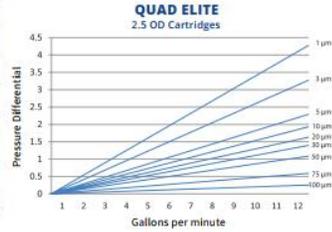


**Syntech Fibres (Pvt) Ltd.**  
Filtration Products Division

**PRODUCT SPECIFICATION**

Micron Ratings	1, 5, 10, 20, 25, 50, 75 & 100
Construction	Polypropylene
Optional Core & End Caps	Polypropylene
Maximum Operating Temperature	155 °F
Diameter	O.D. 2.5"
Nominal Lengths	10" to 50"
Maximum Forward Differential Pressure	40 psid (1.7 bar) @ 150°F (66°C) 60 psid (3.4 bar) @ 80°F (30°C)

FDA compliance under Title 21 of the code of federal regulations for food contact applications



**AVAILABLE END CAPS**



**BUILDING A PART NUMBER**

Qualifier	Micron	Cartridge Diameter	Cartridge Length	WHEN APPLICABLE			
				Core	Element Grade	End Cap	Gasket/O'ring
MB - Melt Blown	N = N/A	2.5 - 2.5" (standard)	10"	Nothing = N/A C = Core	Nothing = Standard X = High efficiency A = Absolute	Nothing = DOE 1 = 222/Fin 2 = 222/Spring 3 = 222/Flat 4 = SOE/Spring 5 = Custom*	Nothing = DOE BU = Buna SI = Silicone EP = EPDM
	1		20"				
	5	4.5 - 4.5"	30"				
	10	6.0 - 6.0"	40"				
	25		50"				





20 YEARS OF EXPERIENCE



15% ANNUAL PROGRESS

STAFF



280



8 HECTARES  
14 WORKSHOPS



# 1.- CONTINUOUS INVESTMENT

Several CNC machines



Short lead time due to impressive manufacturing capabilities



## 2.- GRP PRODUCTS



- STORAGE TANKS
- ROAD TANKS
- SILO
- SCRUBBER, QUENCH, REACTOR
- DUCTS & STACK
- COVERS
- FILTERS
- SPECIAL PIECES

**EQUIPMENT**



## 2.- GRP PRODUCTS

**PIPING**





### 4.- RAW MATERIAL WORKHOUSES



# 5.- MANUFACTURING SCHEDULE



## I. Fabrication of Mold ND1400/ND1500 100%



## II. Tube Workshop Progress : 100%

- Fabrication 5 Shell DN 1500 : 100%
- Fabrication 2 Shell DN 1400 : 100%
- Fabrication pipe for FRP lifting : 100%
- Fabrication pipe for accessory : 100%



## 6.- TRANSPORT



# 3. ENGINEERING CAPACITIES

## a. Piedmont Certifications

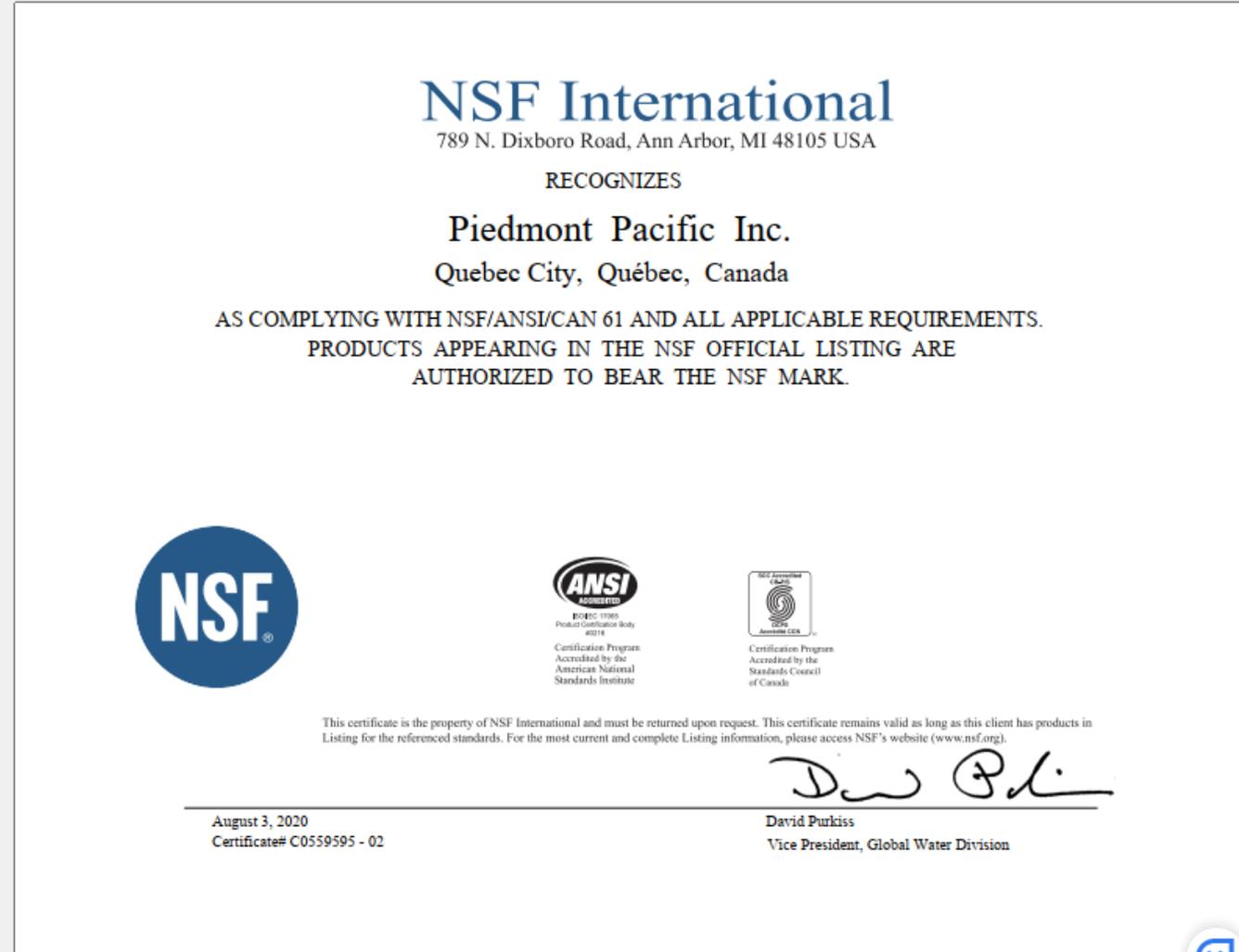
### i. ISO9001



# A. PIEDMONT CERTIFICATIONS

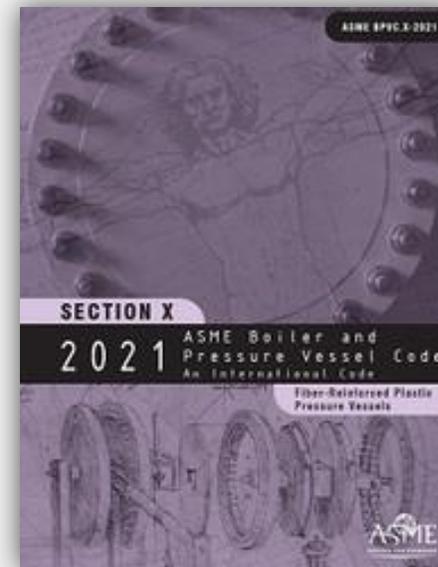
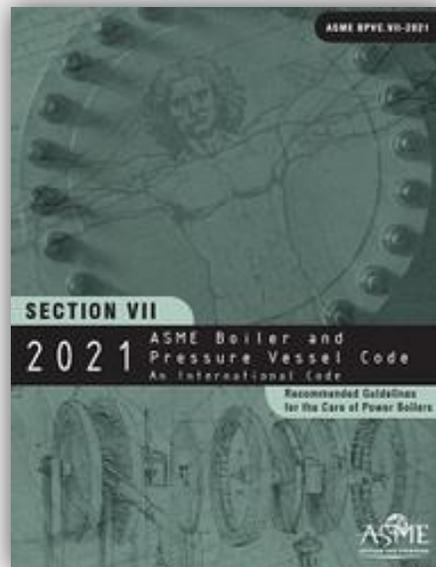
## ii. NSF61

- 1. Gaskets
- 2. 100% FRP vessels
- 3. Cartridges
- 4. Permeate connector



## B. CALCULATION STANDARDS

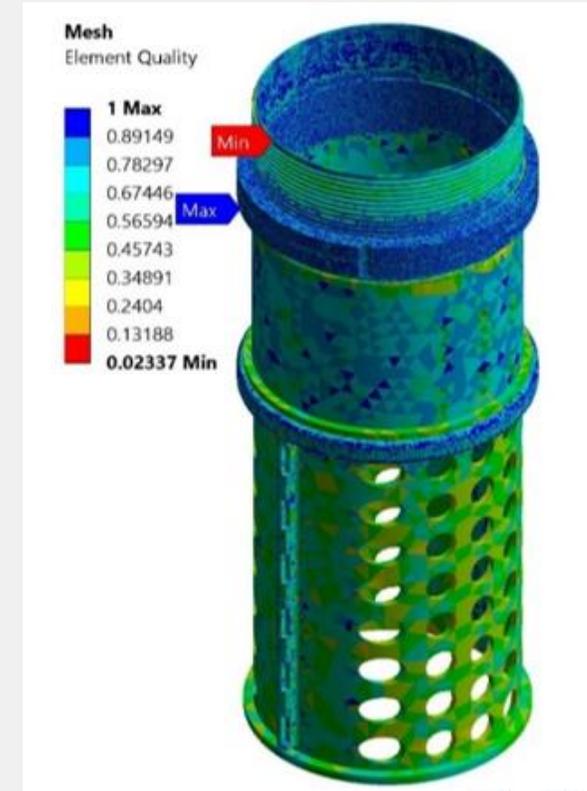
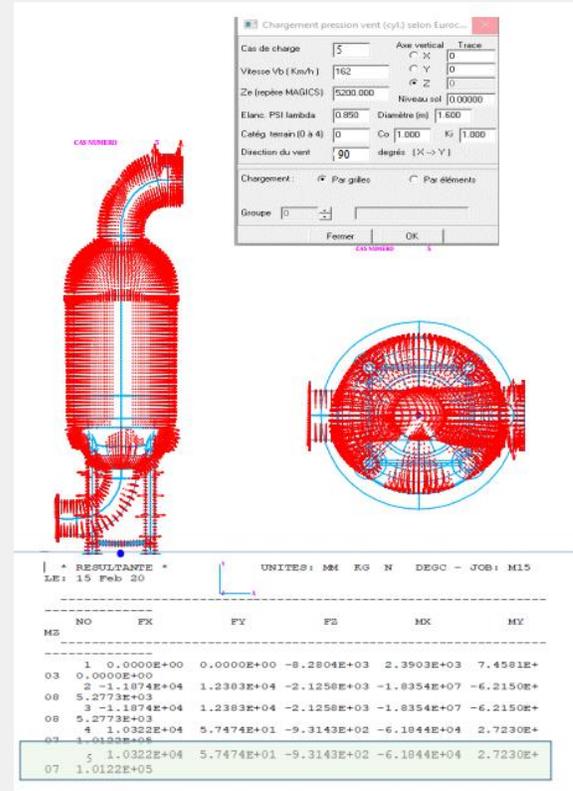
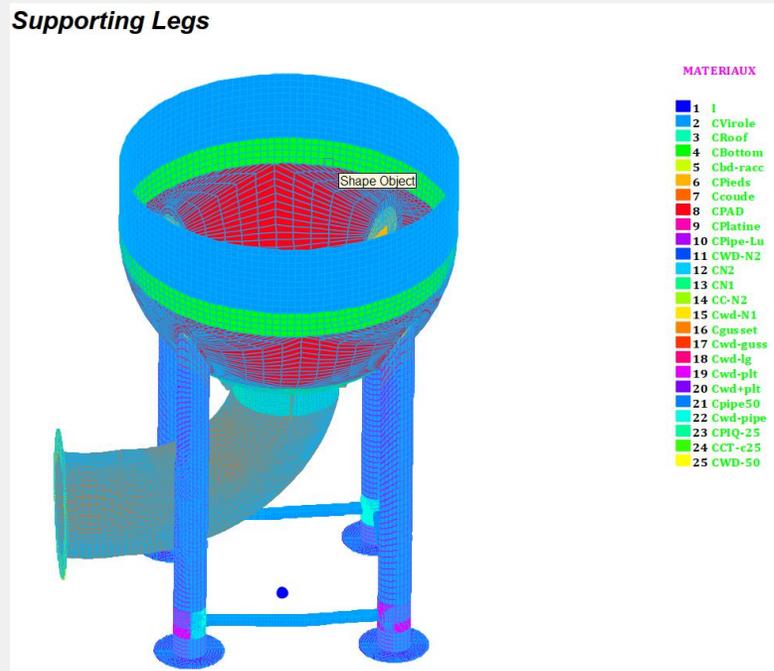
- i ASME VII + U Stamp
- ii ASME X
- iii EN 13121
- iv CE
- v And any specific one required by the customers



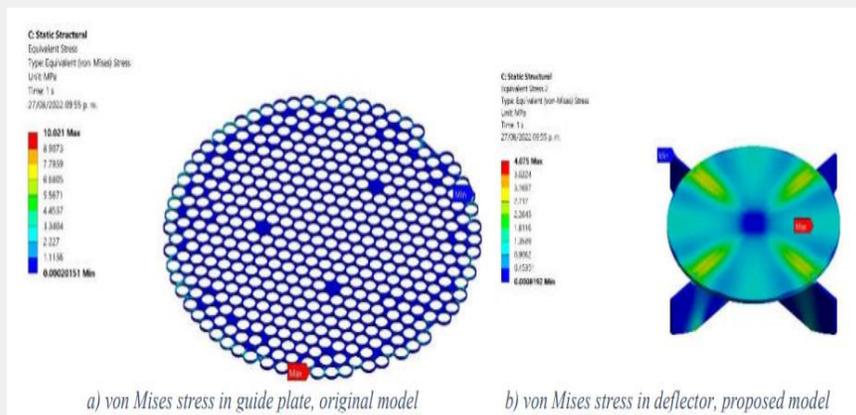
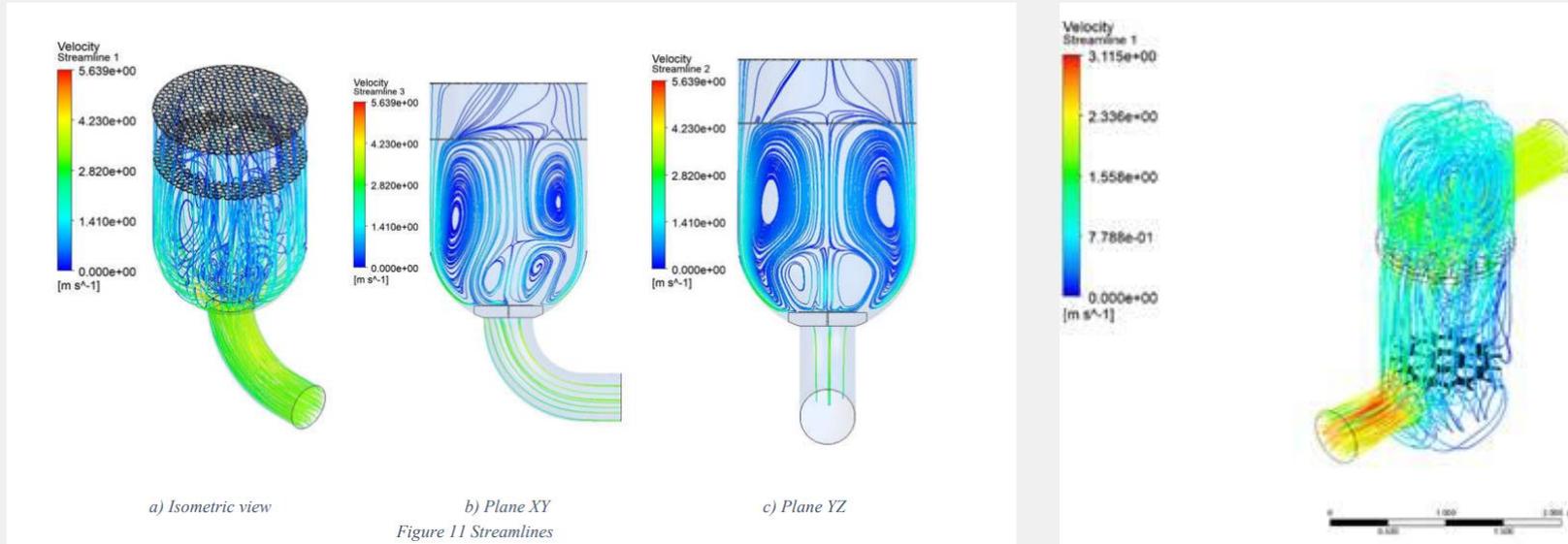
# C. CALCULATION METHOD

FEA or Analytical calculation

Supporting Legs

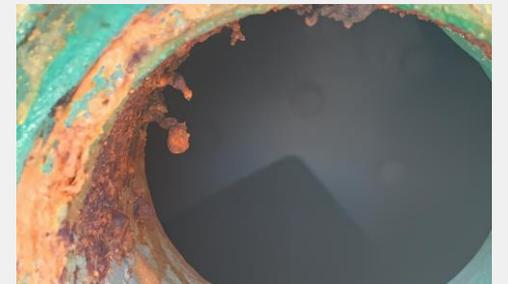
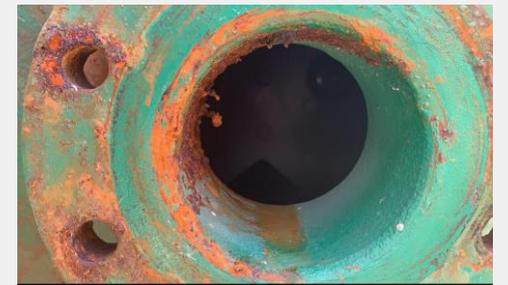


# FLUIDODYNAMIC TESTS



# 4. OTHERS

## a. Modification of existing plants



a. Modification of existing plants



a. Modification of existing plants



b. SPARE PARTS

- i. Gaskets
- ii. Hardware
- iii. Internal components
- iv. Cartridges



# h<sub>2</sub>O innovation<sup>®</sup>

Piedmont  PWT<sup>™</sup>

WATER COMPANY  
OF THE YEAR 2020



# Piedmont Highlights



Shuaibah 2018



Jubail 2022

