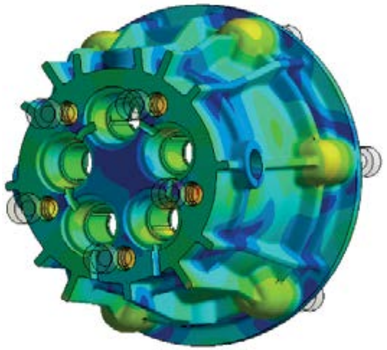
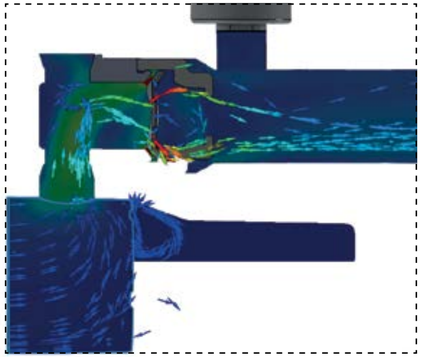


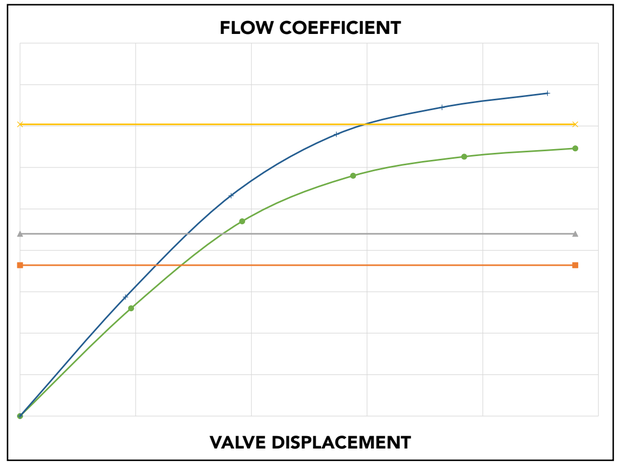
Analisi strutturale FEM per valutare la resistenza meccanica dei componenti della pompa.

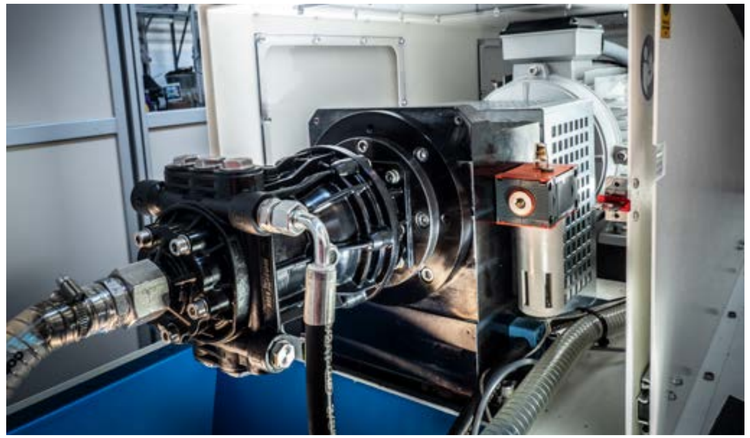
FEM structural analysis to evaluate the mechanical resistance of pump components.



Simulazione fluidodinamica CFD. E'utile per ottimizzare le aree di passaggio del fluido e permettere alla pompa di avere un'elevata efficienza. Attraverso il calcolo del coefficiente di efflusso delle valvole di aspirazione e mandata, si è ottenuto un corretto dimensionamento delle stesse.

CFD fluid dynamics simulation.
It is useful for optimizing the fluid passage areas and allowing the pump to have high efficiency. By calculating the outflow coefficient of the suction and delivery valves, it was possible to obtain a correct sizing of the same.





miXtron
small drops for a better world

brevco INDUSTRIES

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WATER-POWERED HIGH PRESSURE PUMP IN TECHNOPOLYMERS

MADE IN ITALY

CARATTERISTICHE GENERALI:

- Pompa in tecnopolimero (PA66)
- Peso di soli 7,5 kg
- Utilizzo in ambienti aggressivi
- Utilizzo con acqua salata
- Anelli di tenuta in Viton
- Particolari interni in acciaio AISI 316 L
- Flangia in alluminio con speciale trattamento testato in nebbia salina
- Struttura a 5 pompanti che significa un flusso di portata più regolare
- Pompanti interamente in acciaio con speciale rivestimento per resistere a corrosione e abrasione
- Sistema a guarnizione a doppia tenuta ad elevate prestazioni
- Cuscinetti di alta qualità sovra-dimensionati per garantire una lunga durata
- Spia di livello olio in alluminio con vetro
- Pompa progettata per rendere facile la manutenzione, i componenti soggetti ad usura sono facilmente accessibili.
- Disponibili anche versioni per motore idraulico e flangiatura NEMA
- Utilizzo olio altamente biodegradabile e con bassa ecotossicità

GENERAL FEATURES:

- Technopolymer pump (PA66)
- Weight of only 7,5 kg
- Use in aggressive environments
- Use with salt water
- Viton sealing rings
- Internal components in AISI 316 L steel
- Flange in aluminium with special treatment with salt spray fog corrosion test
- 5 pumping structure which means a more regular pumping
- All-steel pistons with special coating to resist corrosion and abrasion

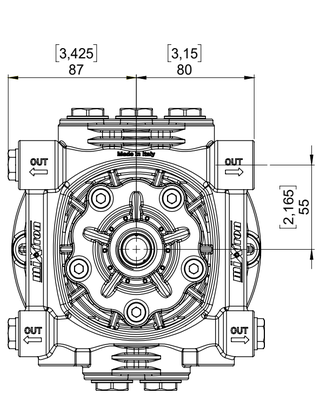
- High performance double seal gasket system
- High quality oversized bearings to ensure long life
- Aluminum oil level with sight glass
- Pump designed to make maintenance easy, parts subject to wear are easily accessible.

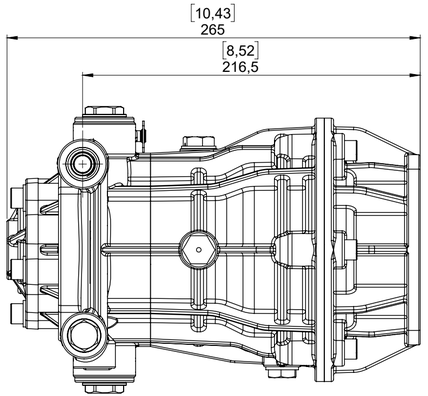
- Hydraulic motor and NEMA flange configuration also available
- Use of highly biodegradable oil with low ecotoxicity

DATI PRESTAZIONALI/PERFORMANCES DATA

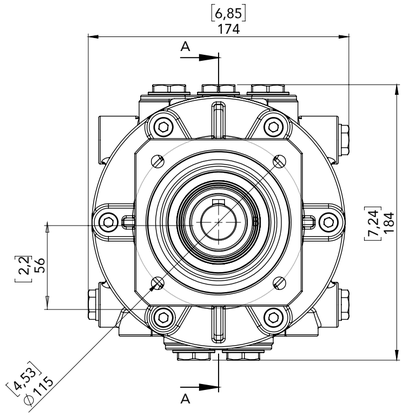
Modello Model	Versione	Giri/RPM		Portata/Flow rate				Pressione/Pressure			Motore/Engine				Peso/Weight	
		rpm		l/min	US gpm	l/min	US gpm	bar	Mpa	psi	HP	kW	HP	kW	kg	lb
		50 Hz	60 Hz	50 Hz		60 Hz					50 Hz		60 Hz			
Alpha2.18.80	E M	1450	1750	18	4,8	21,7	5,7	80	8	1160	4,0	3	4,8	3,6	7,5	16,5
Alpha2.15.80	E M			15,4	4,1	18,6	4,9	80	8	1160	3,5	2,6	4,0	3	7,5	16,5
Alpha2.13.80	E M			13,5	3,6	16,3	4,3	80	8	1160	3,0	2,2	3,6	2,7	7,5	16,5
Alpha2.11.80	E M			11,6	3,1	14	3,7	80	8	1160	2,6	1,93	3,1	2,3	7,5	16,5

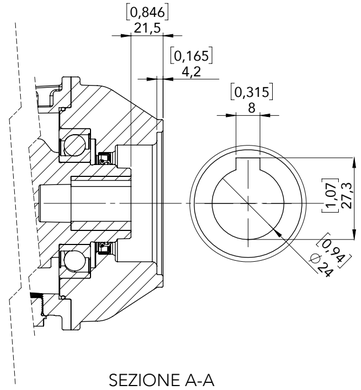
INLET	G3/4" - F
OUTLET	G3/8" - F





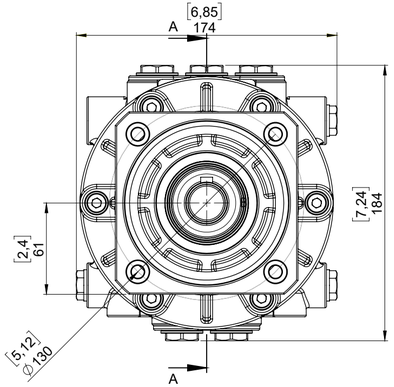
MEC 90

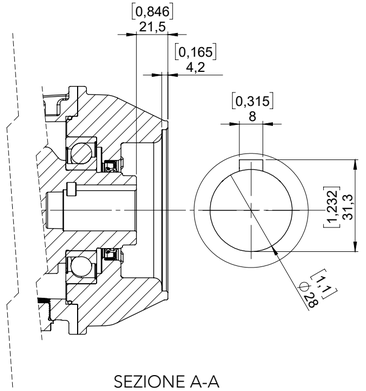




SEZIONE A-A

MEC 100-112





SEZIONE A-A