



POMPE VOLUMETRICHE A DISCO CAVO OSCILLANTE

HOLLOW OSCILLATING DISK PUMPS

M Pompe è specializzata nella costruzione di pompe volumetriche a disco cavo oscillante, autoadescanti, reversibili, a basso numero di giri, questo permette di movimentare delicatamente il fluido, mantenendo inalterate le proprietà chimico-fisico.

I nostri prodotti sono particolarmente indicati e compatibili con: oli minerali, acque sentina, resine, vernici, solventi, morchie oleose, slurry, oli vegetali e prodotti petroliferi.

M Pompe is specialized in the construction of low speed, reversible, self priming volumetric pumps with hollow oscillating disk, that allow the fluid to be moved gently, thus keeping the chemical-physical properties unaltered.

Our products are particularly suitable and compatible with: mineral oils, bilge waters, resins, paints, solvents, oily sludges, slurries, vegetable oils and petroleum products.



POMPE VOLUMETRICHE A DISCO CAVO OSCILLANTE

Positive displacement pumps with hollow oscillating disk

AUTOADESCANTI

le pompe si adescano automaticamente anche in condizioni gravose e con notevoli dislivelli.

In aspirazione creano un vuoto di 500-600 mm Hg.

REVERSIBILI

Possono funzionare in entrambi i sensi di rotazione mantenendo inalterate le caratteristiche tecniche.

ELASTICITA' DELLA GIRANTE

Permette l'adattamento a tutte le viscosità, il passaggio di particelle solide ed il recupero dei giochi dovuti ad usura o dilatazioni termiche

BASSA VELOCITA' DI ROTAZIONE

E' particolarmente indicata per il trasferimento di fluidi ad elevata viscosità e da movimentare delicatamente.

È garanzia di sicurezza, affidabilità e lunga durata.

SELF-PRIMING

The pumps prime automatically in harsh conditions and remarkable suction levels. The vacuum degree in the suction pipe is 500-600 mm Hg.

REVERSIBLE

The pumps have the same performance in both directions of rotation.

HOLLOW DISK ELASTICITY

The elastic device allows working at all viscosities and ensures the passage of solid particles and the recovery of gaps due to wear or thermal dilatations.

LOW R.P.M.

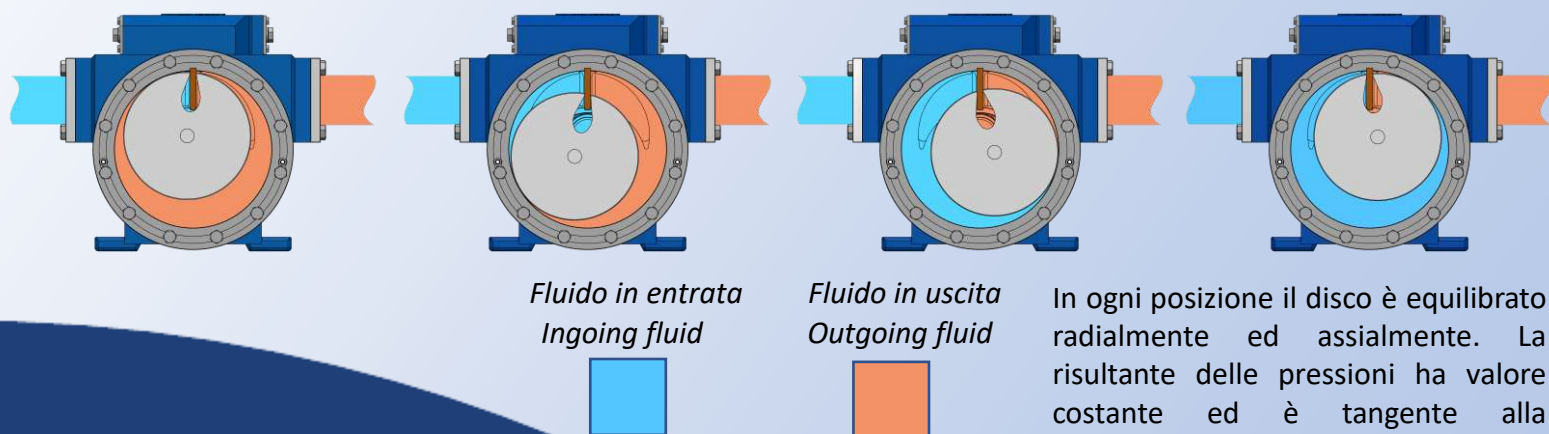
Suitable to handle high viscosity or delicate fluids. It is a guaranty of reliability and long-life.

PRINCIPIO DI FUNZIONAMENTO

Working principle of hollow oscillating disk

Il disco-girante è imperniato eccentricamente sull'albero della pompa ed è guidato dal diaframma che separa l'aspirazione dalla mandata. Durante la rotazione è mantenuto aderente al corpo tramite la pressione della molla del dispositivo elastico.

The hollow disk is eccentrically pivoted on the pump shaft and it is led by the diaphragm that separates suction from discharge. During rotation the hollow disk is kept adhering to the pump casing by the pressure of the elastic device.



Fluido in entrata
Incoming fluid



Fluido in uscita
Outgoing fluid



In ogni posizione il disco è equilibrato radialmente ed assialmente. La risultante delle pressioni ha valore costante ed è tangente alla circonferenza descritta dal centro del disco

In each position the disk is balanced radially and axially. The resulting pressure has a constant value and it is tangent to circumference described by the centre of the disk.

POMPE VOLUMETRICHE PER FLUIDI DI OGNI VISCOSITA’

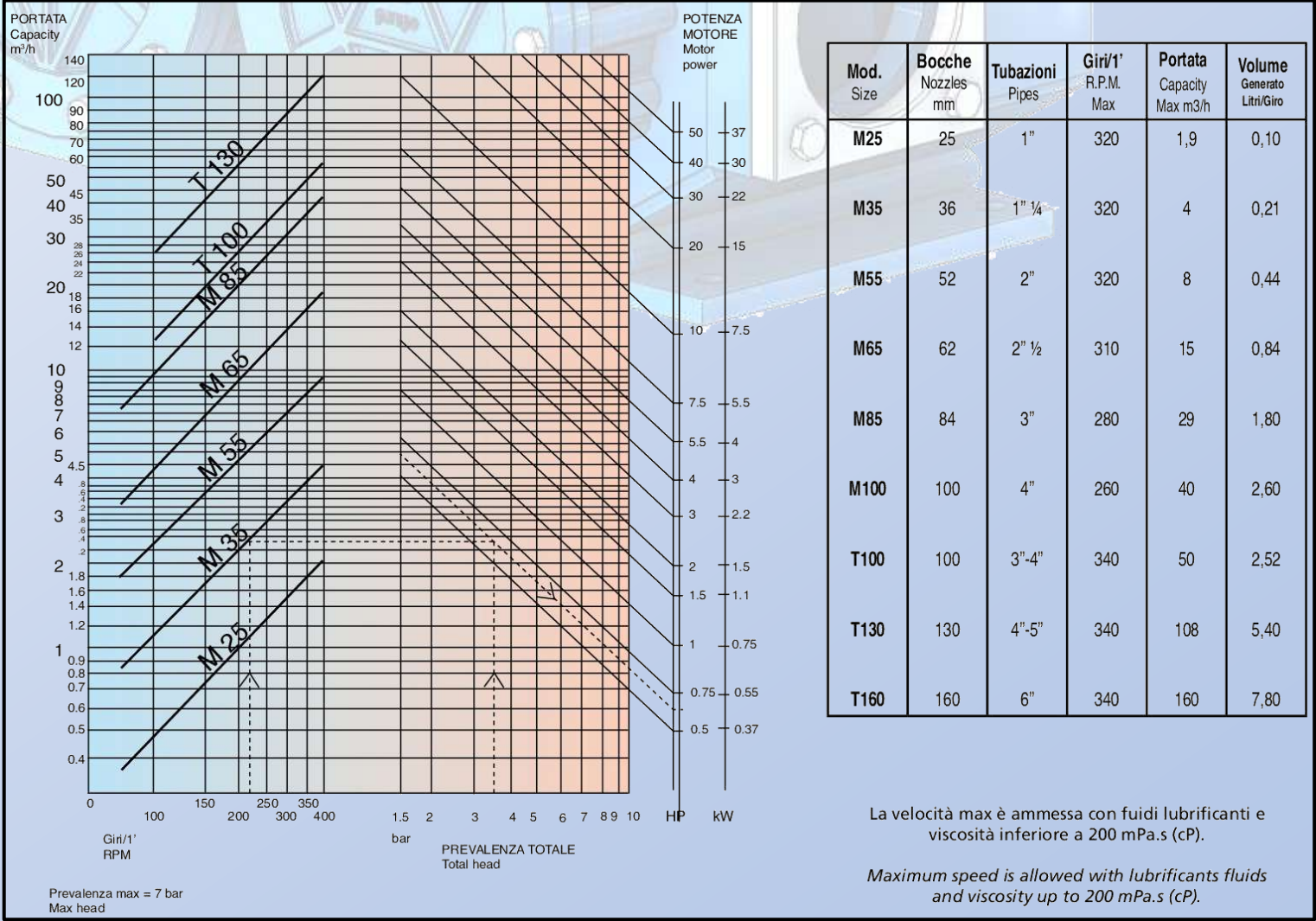
Positive displacement pumps for all viscosities

Tipo Type	Materiali Materials	PH	Campo di applicazione	Field of application
1	BA = CI CC = CI GA = ST	6 - 12	Resine, vernici, solventi, inchiostri, smalti, colle, adesivi, amido, oli, grassi, gasolio, nafta, bitume, poliololo, isocianato, slurry, melasso, coda.	Resins, paints, solvents, inks, enamels, glues, adhesives, oil, fat, fuel oil, bitumen, polyol, isocyanate, molasses, sugar, syrups.
2	BA = CI CC = BR GA = SS	4 - 8	Resine, colle, solventi, emulsioni, colla vinilica, addensanti, paste da stampa, detergenti, acqua sentina. Fluidi non lubrificanti, a base acqua, acidi.	Resins, glue, solvents, vinyl glue, thickeners, printing pastes, detergents, bilge water. Non lubricat, water based, acid fluids.
3	BA = SS CC = SS GA = SS	3 - 13	Detergenti, saponi, shampoo, creme, glucosio, miele. Liquidi alimentari, acidi e alcalini,	Detergents, soaps, shampoo, lotions, glucose, honey. Food, acid and alkali fluids.
4	BA = CIT CC = SS GA =SS	3 - 13	Liquidi alimentari, acidi e alcalini.	Food, acid and alkali fluids.
5	B = CI CC = NH GA = SS	6 - 13	Oleine, acidi grassi, c.p.b resine, tensioattivi, saponi. Fluidi acidi, alcalini.	Olein, fatty acids, resins, surfactants liquid soap. Acid and alkali fluids.
6	B = STNCH CC = NH GA = SS	4 - 13	Liquidi alimentari, acidi e alcalini.	Food, acid and alkali fluds.
7	B = SS CC = NH GA = SS	3 - 13	Detergenti, saponi, shampoo, creme, glucosio, miele. Liquidi alimentari, acidi e alcalini.	Detergents, soaps, shampoo, lotions, glucose, honey. Food, acid and alkali fluids.
8	BA = CI CC = CI GA = SS	6 - 12	Colle, emulsioni, silicato, stearina, paraffina, adesivi, plastificanti, cioccolato, vernici a base acquosa.	Glues, emulsions, silicate, stearine, paraffin, adhesives, plasticizer, chocolate, water based paints.

Legenda	
B = Base	BR = Bronzo / Bronze
CC = Corpo e coperchio / Casing and cover	CI = Ghisa / Cast Iron
GA = Girante ed albero / Impeller and shaft	CIT = Ghisa trattata / Hardened Cast Iron
	NH = Ni-Resist / Ni-Resist
	ST = Acciaio / Steel
	STNCH = Acciaio nichelato / Nichel plated Steel
	SS = Acciaio inox / Stainless Steel

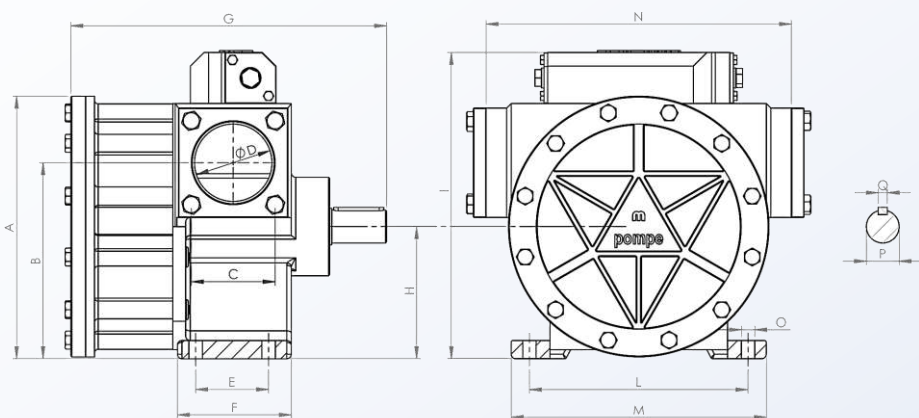
CARATTERISTICHE TECNICHE

TECHNICAL PERFORMANCES



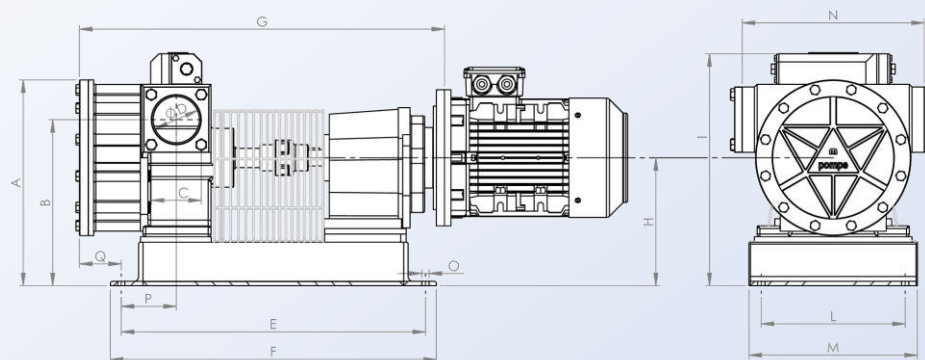


POMPE SINGOLE
BARE SHAFT PUMPS



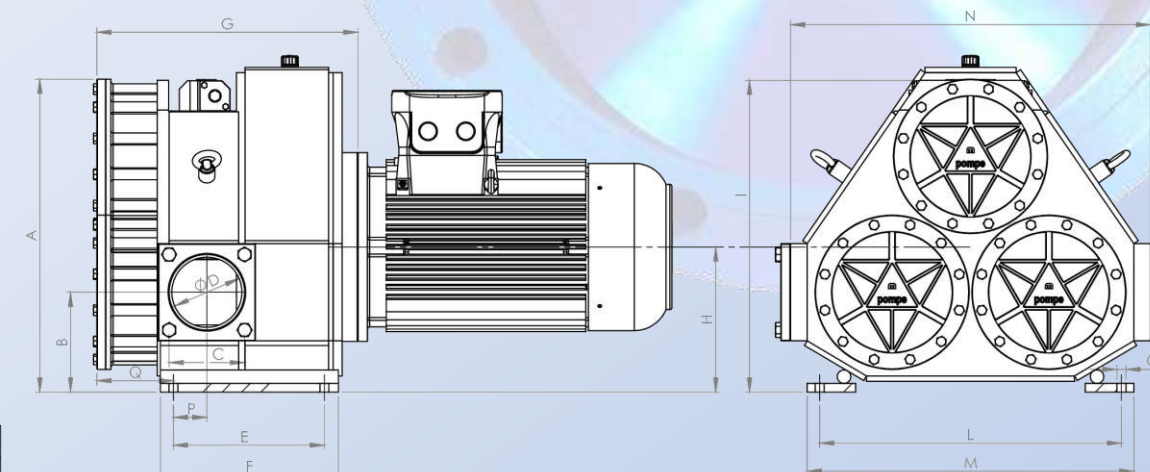
Mod.	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	kg
M25	118	92	52	25	30	52	156	65	-	100	125	125	10	14	5	6
M35	156	115	48	36	45	76	212	80	197	160	190	204	12	18	6	15
M55	196	140	65	55	62	95	251	100	246	180	210	240	12	28	8	23
M65	232	170	75	62	66	100	282	118	281	200	235	235	12	28	8	33
M85	288	215	92	85	80	125	346	145	336	240	280	335	15	36	10	60
M100	327.5	262	110	105	90	140	413.5	170	418	270	340	400	17	36	10	100

ELETTROPOMPE SINGOLE
ELECTROPUMPS ON BASEPLATE

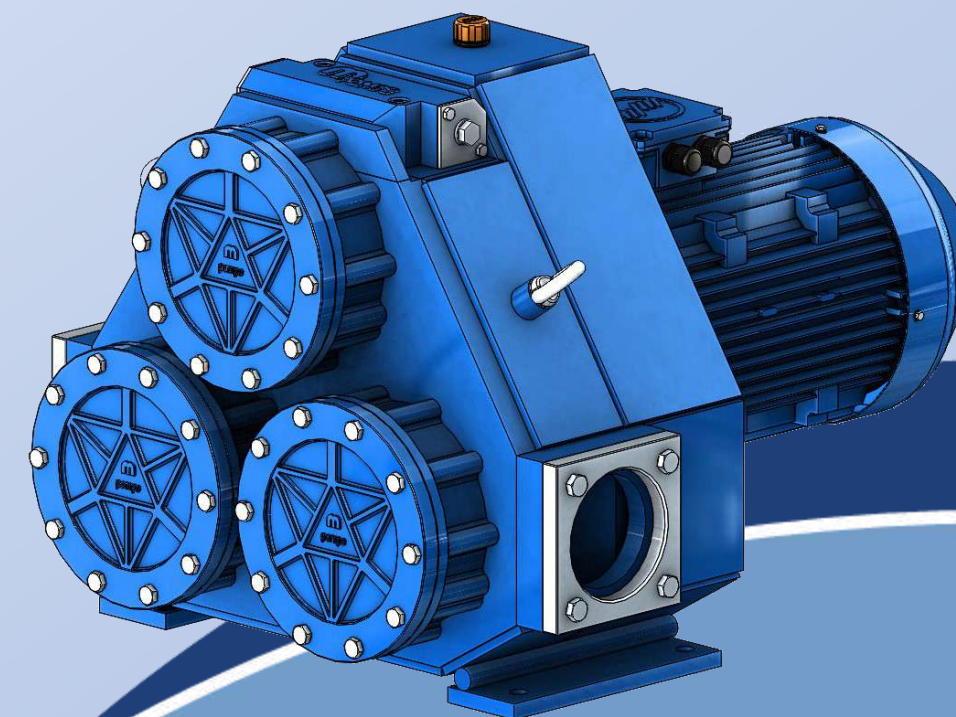
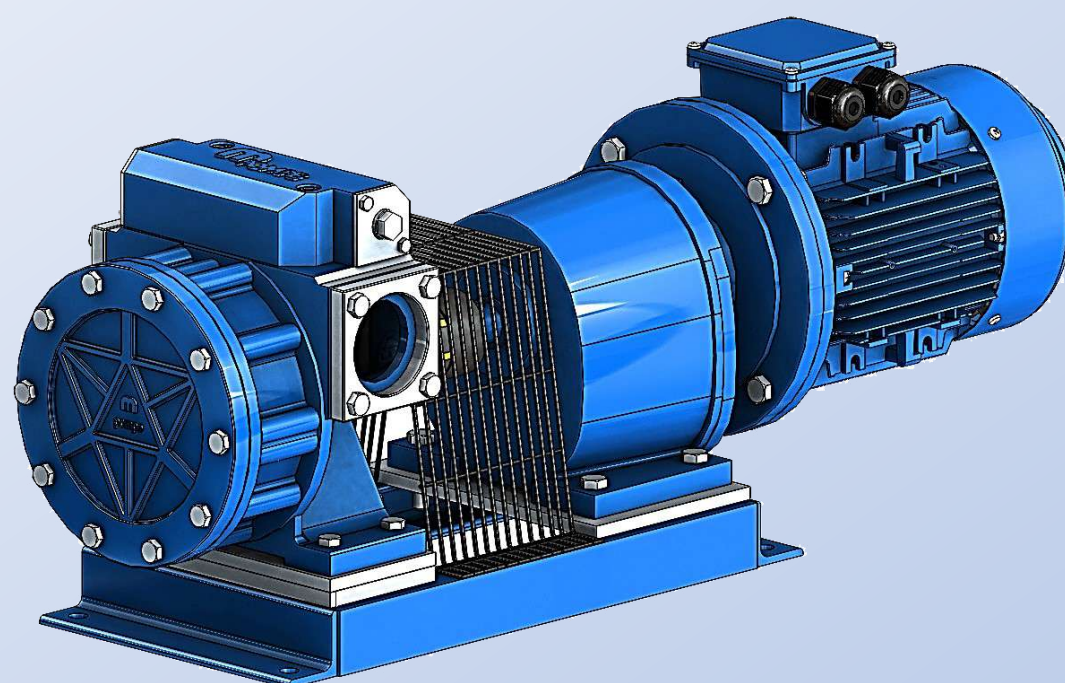
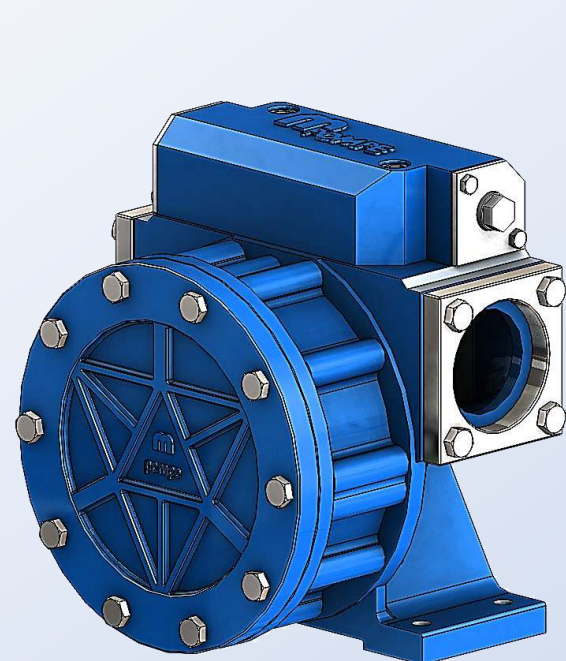


Mod.	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	kW	kg
M25	176	147	52	25	300	330	355	125	-	155	175	140	9	45	30	0.37	25
M35	236	195	48	36	370	410	448	160	277	180	225	204	12	73	31	0.75	45
M55	256	200	65	55	405	450	488	160	306	205	250	240	15	74	50	1.5	60
M65	304	242	75	62	495	535	604	190	353	220	265	235	15	85	61	2.2	96
M85	378	305	92	85	560	600	672	235	426	265	310	335	15	101	77	5.5	135
M100	417.5	352	110	105	630	670	789	260	508	305	350	400	15	117.5	99.5	7.5	236

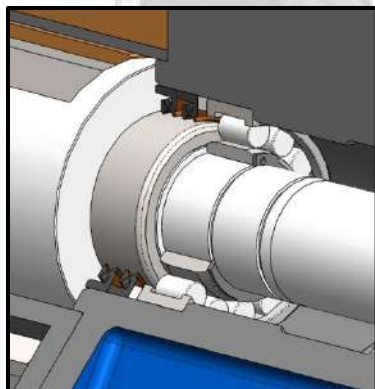
ELETTROPOMPE TRIPLE
ELECTROPUMPS WITH THREE CASING



Mod.	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	kW	kg.
T100	488	160	110	100	200	250	390	231.5	503	450	500	574	17	41	126	7,5	270
T130	580	185	140	130	280	330	484	267	577	560	606	668	17	62	142	15	440
T160	656	220	180	160	280	370	577	309	708	630	700	810	20	73	174	30	610

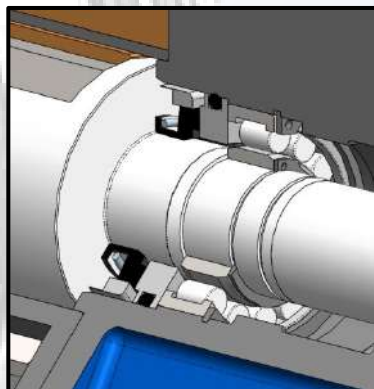


TENUTE Seal



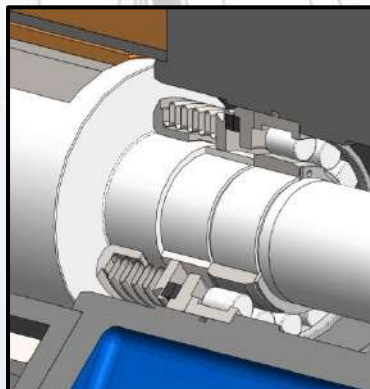
Tipo A-AT
Type A-AT

Doppio anello di viton
Doppio labbro di teflon
*Double Viton ring
Double Teflon lip*



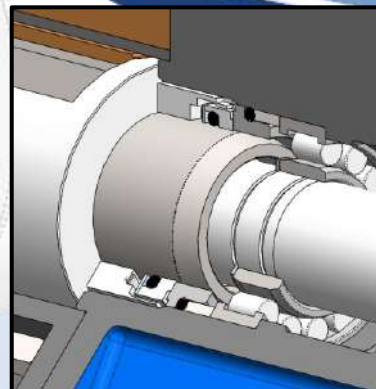
Tipo B-C-D
Type B-C-D

Tenuta meccanica frontale
Guarnizioni in viton
*Front mechanical seal
Viton gaskets*



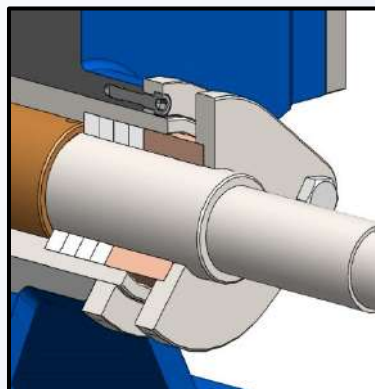
Tipo E
Type E

Tenuta *frontale* a soffietto
Con rasamenti in widia
*Front bellows seal with
Widia shims*



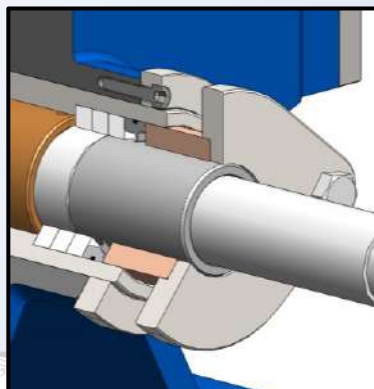
Tipo EM
Type EM

Tenuta frontale sec. UNI
EN 12756
*Front mechanical seal
UNI EN 12756*



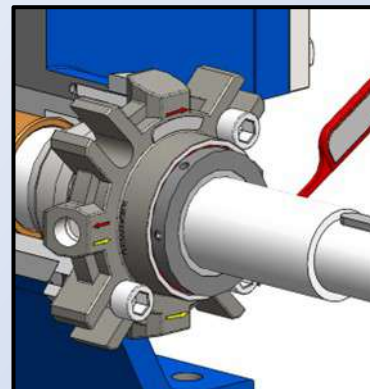
Tipo F
Type F

Tenuta a premitreccia
Gland seal



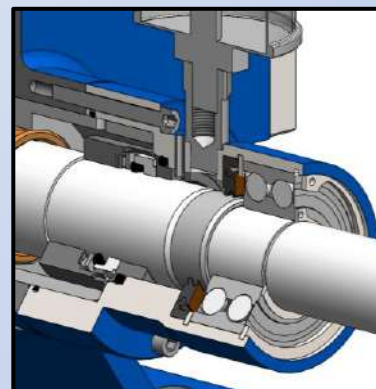
Tipo F-AS
Type F-AS

Tenuta a premitreccia
con tenuta radiale
Gland seal with seal lip



Tipo FC
Type FC

Tenuta a cartuccia
Tenuta doppia a cartuccia
con doppio bilanciamento
idraulico
*Cartridge seal
Double cartridge seal with
double hydraulic balancing*

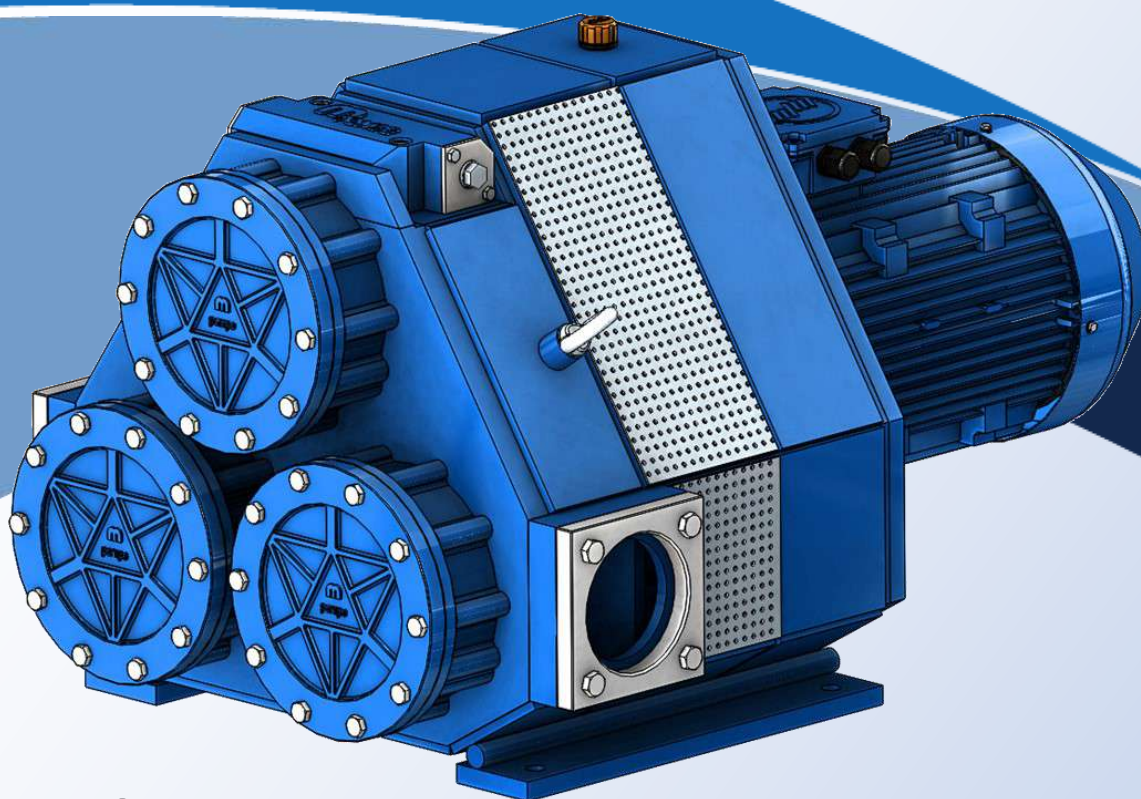


Tipo F-EM
Type F-EM

Tenuta posteriore sec.
UNI EN 12756 con
quench per rilevazione
perdita.
*Back seal acc. UNI EN
12756 with quench for
leak detection.*

ACCESSORI / Accessories

Valvola di massima pressione	<i>By-Pass Valve</i>	Carrello	<i>Cart</i>
Camicia di riscaldamento	<i>Heating Cover</i>	Smorzatore di pulsazioni	<i>Pulsation damper</i>
Filtro	<i>Filter</i>	Flange EN1092-1	<i>EN1092-1 Flanges</i>



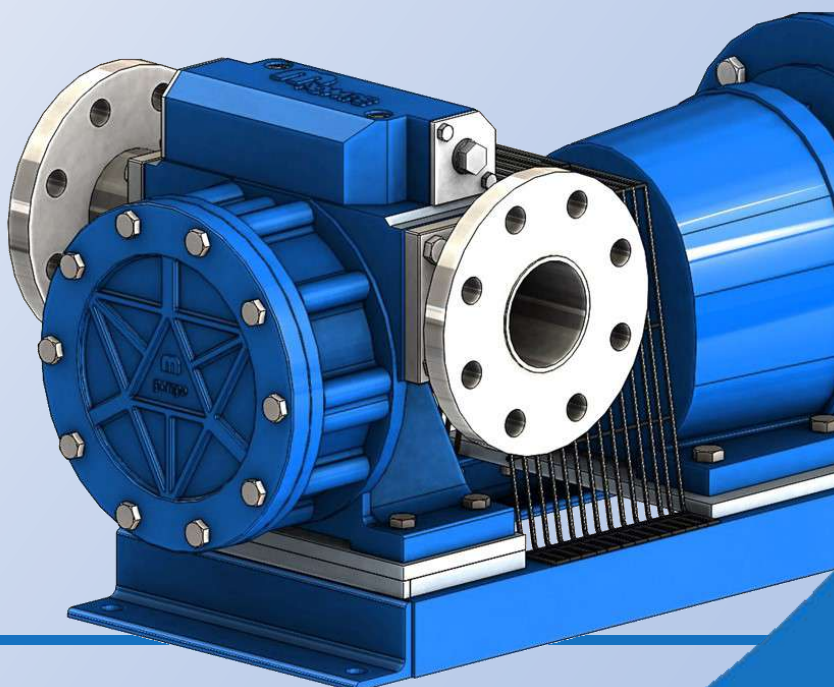
PRESTAZIONI:
PERFORMANCES:

Portata: fino a 140 m³/h
Flow rate: up to 140 m³/h

Pressione: fino a 8 bar
Pressure: up to 8 bar

Viscosità: da 200 a 40.000 mPa s
Viscosity: from 200 to 40.000 mPa s

Temperatura: da -50° a 200° C
Temperature: from -50° to 200° C



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