

POMPE VOLUMETRICHE AUTOADESCANTI REVERSIBILI

**POSITIVE DISPLACEMENT PUMPS
SELF PRIMING REVERSIBLES**



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

È 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 heavy conditions and remarkable suction levels. The vacuum degree in the suction pipe is 500-600 mm. Hg.

REVERSIBLES

The pumps can run in both directions with same performances.

HOLLOW DISK ELASTICITY

The elastic device allows working at all viscosity, the passage of solid particles and the recovery of clearances due to wear or thermal dilatations.

LOW R.P.M.

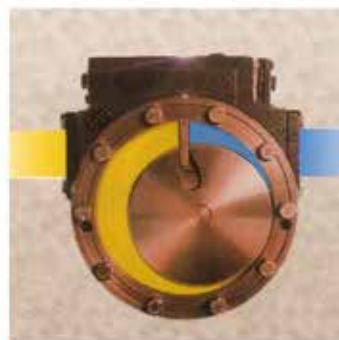
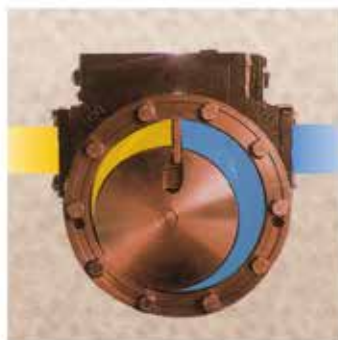
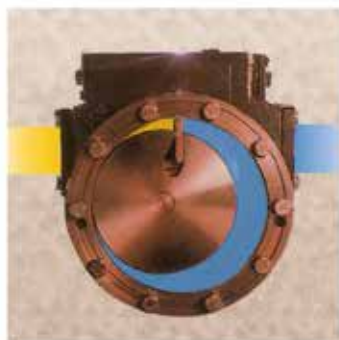
Suitable to handle high viscosity or delicate liquids. It is a guaranty of reliability and long service life.

PRINCIPIO DI FUNZIONAMENTO

Working of the hollow oscillating disk

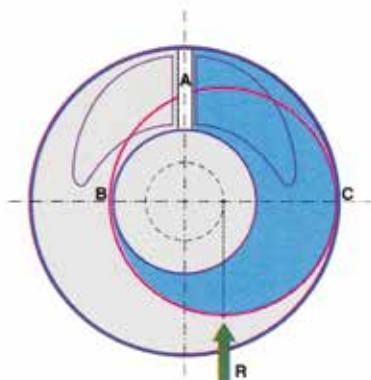
Il disco-girante è imperniato eccentricamente sull'albero della pompa ed è guidato dal diaframma che separa l'aspirazione dalla mandata. Durante la rotazione il disco è mantenuto aderente al corpo tramite la pressione della molla del dispositivo elastico.

The hollow disk is eccentrically hinged on shaft pump and it is guided by the diaphragm that separates suction from discharge. During rotation the hollow disk is kept in contact with pump casing by pressure of the elastic device.



Fluid in entrata
Fluid drawn in

Fluid in uscita
Fluid outgoing



In ogni posizione il disco è equilibrato radialmente e assialmente: gli archi AB e AC hanno uguale pressione interna ed esterna. Non vi sono componenti che tendono ad allontanare il disco del corpo. La risultante delle pressioni ha valore costante ed è tangente alla circonferenza descritta dal centro del disco.

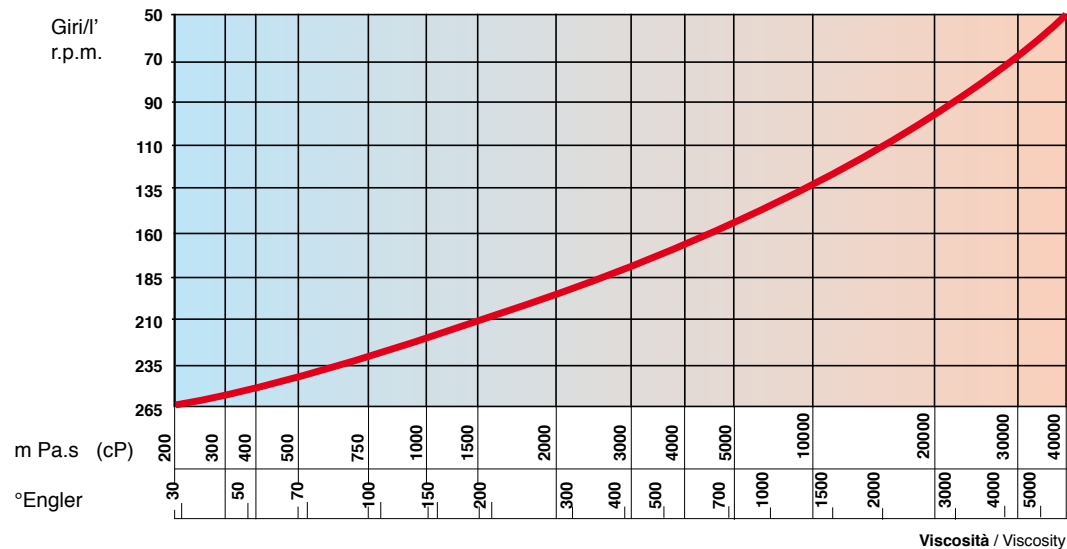
In every position the disk is balanced radially and axially: the arches AB and AC have the same inside and outside pressure. There are no component forces that remove the disc from pump casing. The resulting pressure has a constant value and it is tangent to circumference described by centre of disk.

SCELTA DEI GIRI DELLA POMPA

Il numero dei giri è inversamente
proporzionale alla viscosità del fluido.
La velocità ottimale
si può determinare dal grafico

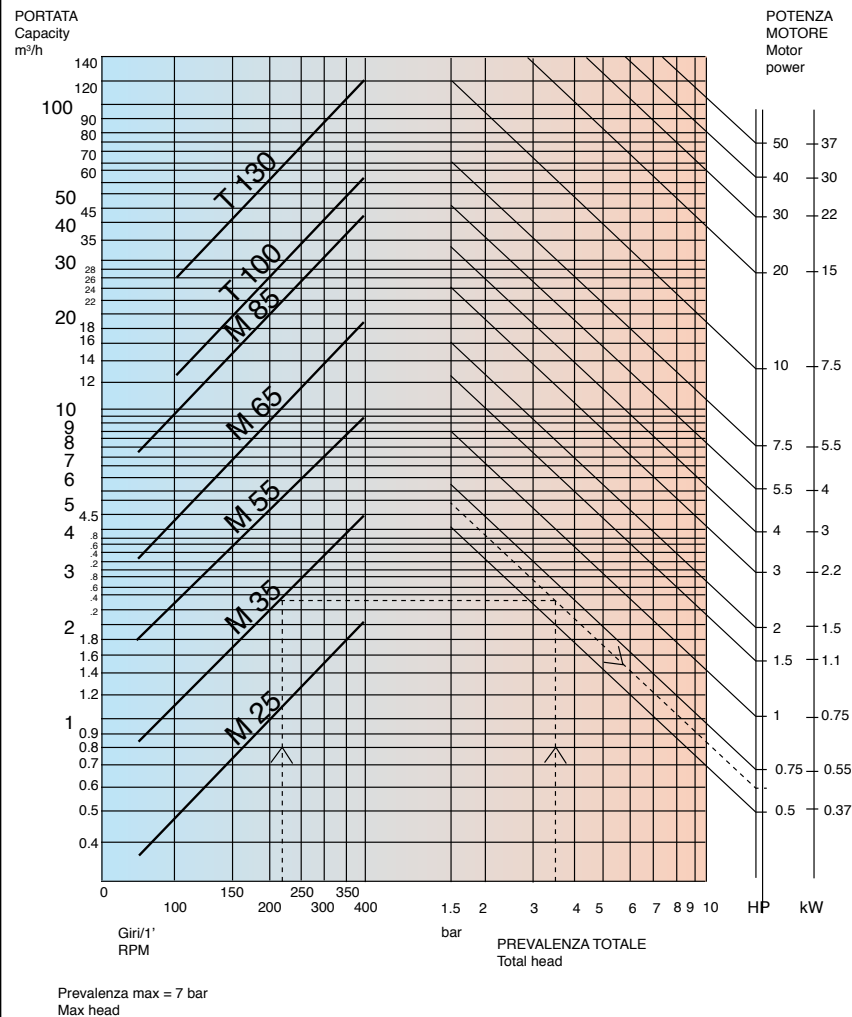
CHOICE OF THE PUMP R.P.M.

The R.P.M. is inversely proportional to
the viscosity of the fluid.
The optimum R.P.M. can be determined
as in the grafic.



CARATTERISTICHE TECNICHE

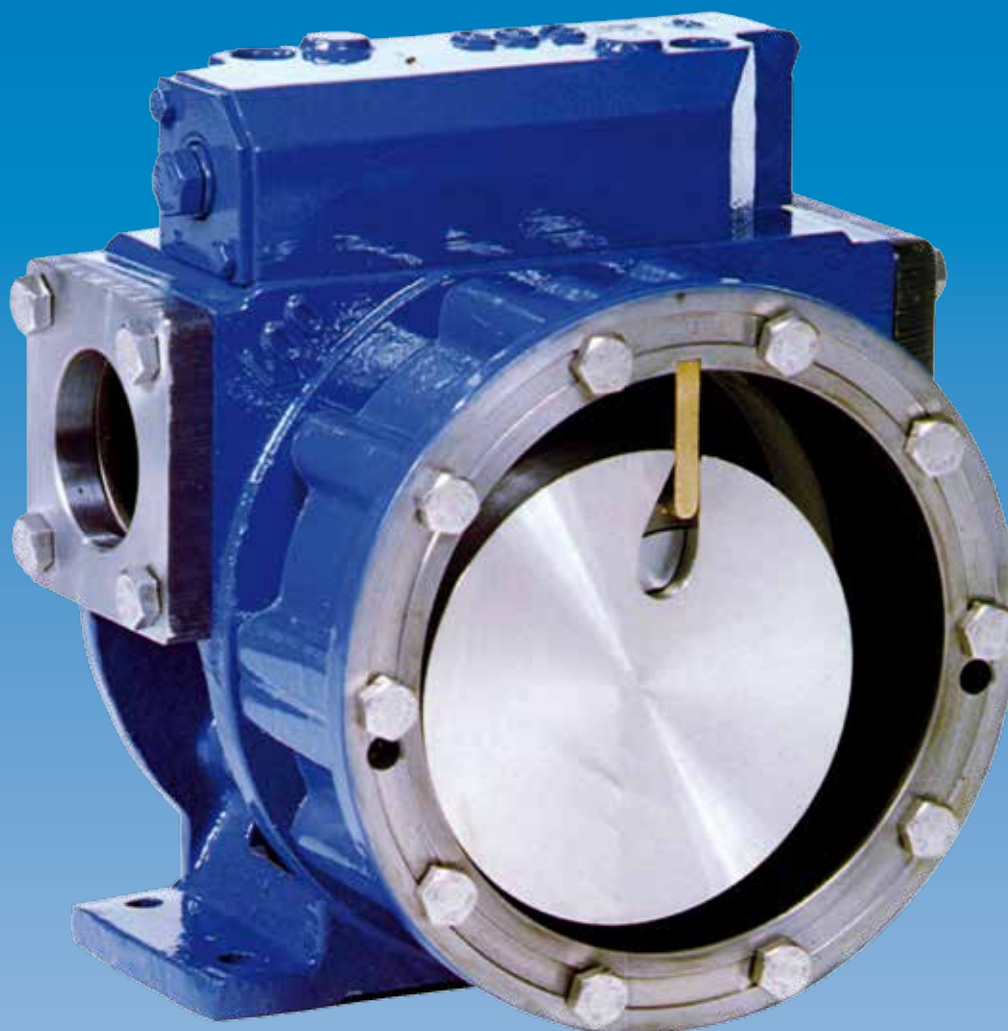
TECNICAL PERFORMANCES



Mod. Size	Bocche Nozzles mm	Tubazioni Pipes	Giri/l' R.P.M. Max	Portata Capacity Max m3/h	Volume Generato Litri/Giro
M25	25	1"	320	1,9	0,10
M35	36	1" ¼	320	4	0,21
M55	52	2"	320	8	0,44
M65	62	2" ½	310	15	0,84
M85	84	3"	280	29	1,80
M100	100	4"	260	40	2,60
T100	100	3"-4"	340	50	2,52
T130	130	4"-5"	340	108	5,40
T160	160	6"	340	160	7,80

La velocità max è ammessa con fluidi lubrificanti e
viscosità inferiore a 200 mPa.s (cP).

Maximum speed is allowed with lubricants fluids
and viscosity up to 200 mPa.s (cP).



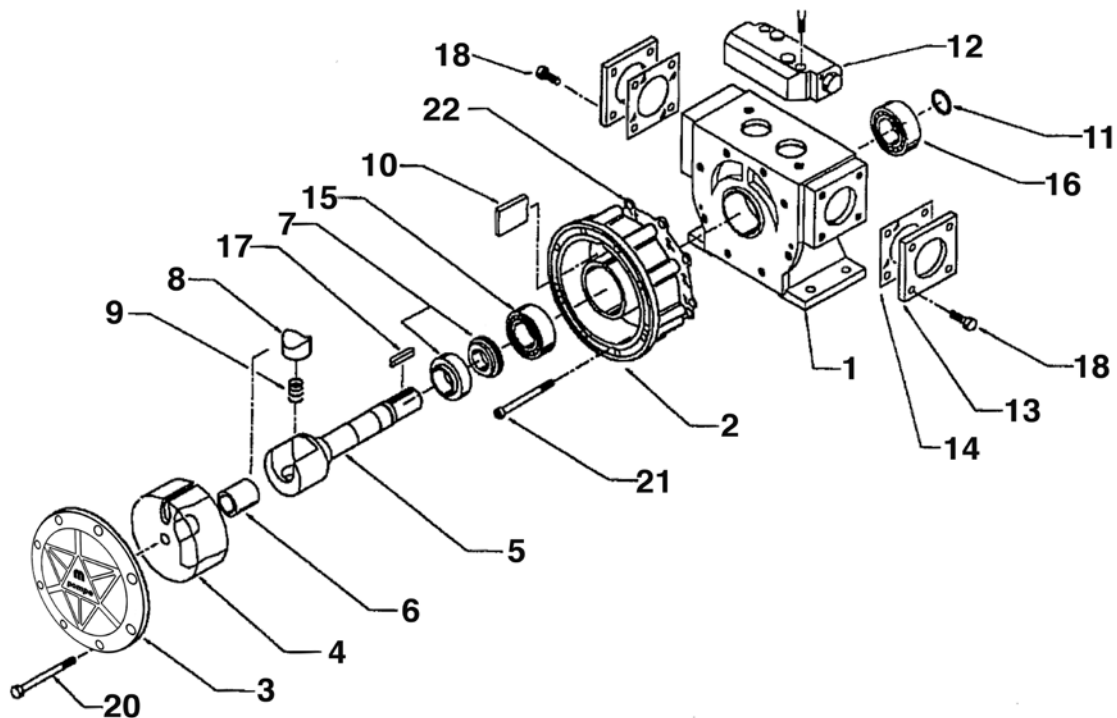
POMPE VOLUMETRICHE PER FLUIDI DI OGNI VISCOSITA'

Positive displacement pumps for all viscosities

Tipo Type	Materiali Materials	PH	CAMPO DI APPLICAZIONE	FIELD OF APPLICATION
1	B = CI CC = CI GA = ST	6 - 12	Resine, vernici, solventi, inchiostri, smalti, colle, adesivi, amido, olii, grassi, gasolio, nafta, bitume, poliolo, isocianato, slurry, melasso, coda.	<i>Resins, paints, solvents, inks, enamels, glues, adhesives, oil, fat, fuel oil, bitumen, polyol, isocyanate, molasses, sugar, syrups.</i>
2	B = CI CC = BR GA = SS	4 - 8	Resine, colle, solventi, emulsioni, vinavil, addensanti, paste da stampa, detergenti, acqua sentina. Fluidi non lubrificanti, a base acquosa, acidi.	<i>Resins, glue, solvents, vinavil, bilge water. Fluids not lubricating, water based, acid.</i>
5	B = CI CC = SS GA = SS	6 - 13	Oleine, acidi grassi, c.p.b. resine, tensioattivi, saponi. Fluidi acidi, alcalini	<i>Fatty acids, resins, liquid soap. Acid and alkali fluids.</i>
6	B = STNCH CC = SS GA = SS	4 - 13	Liquidi alimentari, acidi e alcalini.	<i>Food, acid and alkali fluids.</i>
7	B = SS CC = SS GA = SS	3 - 13	Detergenti, saponi, shampoo, creme, glucosio, miele. Liquidi alimentari, acidi e alcalini.	<i>Detergents, soaps, shampoo, creams, glucose, honey. Food, acid and alkali fluids.</i>
8	B = CI CC = CI GA = SS	6 - 12	Colle, emulsioni, silicato, stearina, paraffina, adesivi, plastificanti, cioccolato, vernici a base acquosa.	<i>Glues, emulsions, silicate, glycerine, paraffin, adhesives, plasticizer, chocolate, water paints.</i>

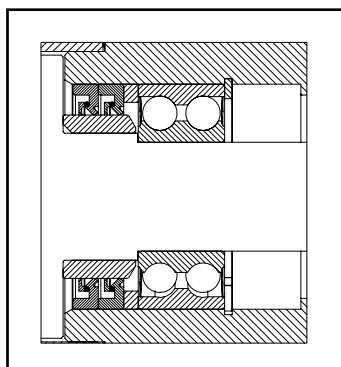
B = Base / Base
CC = Corpo e coperchio / Casing and cover
GA = girante ed albero / Impeller and shaft

ST = Acciaio / Steel
CI = Ghisa / Cast Iron
SS = Acciaio Inox, Ni-Resist / Stainless Steel
BR = Bronzo / Bronze
STNCH = Acciaio nichelato / Steel nichel plated

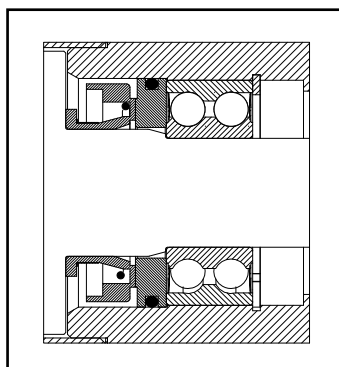


1. Base	Base	9. Molla	Spring	17. Chiavetta	Feather Key
2. Corpo	Casing	10. Diaframma	Diaphragm	18. Vite controflangia	Counterflange Bolt
3. Coperchio	Cover Casing	11. Anello elastico	Circlip	19. Vite by-pass	By Pass Bolt
4. Girante	Impeller	12. Valvola by-pass	By Pass Valve	20. Vite coperchio	Front Cover Bolt
5. Albero	Shaft	13. Controflangia	Counterflange	21. Vite prefissaggio corpo	Casing Preassembly Bolt
6. Bronzina	Bushing	14. Guarnizione controflangia	Gasket Counterflange	22. Guarnizione corpo	Gasket Casing
7. Tenuta meccanica	Mechanical Seal	15. Cuscinetto anteriore	Bearing Front		
8. Lunetta	End Support	16. Cuscinetto posteriore	Bearing Rear		

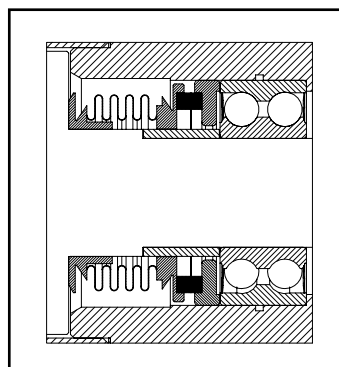
TENUTE / SEALS



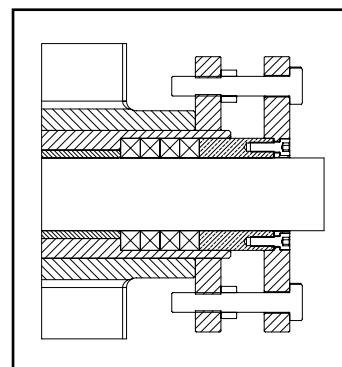
Tipo A-AT
Doppio anello di viton
Doppio labbro di teflon
Double Viton ring
Double Teflon lip



Tipo B-C-D
Tenuta meccanica frontale
Guarnizioni in viton
Front mechanical seal
Viton gaskets



Tipo E
Tenuta frontale a soffiutto
con rasamenti in widia
Front bellow seal with
Widia shims



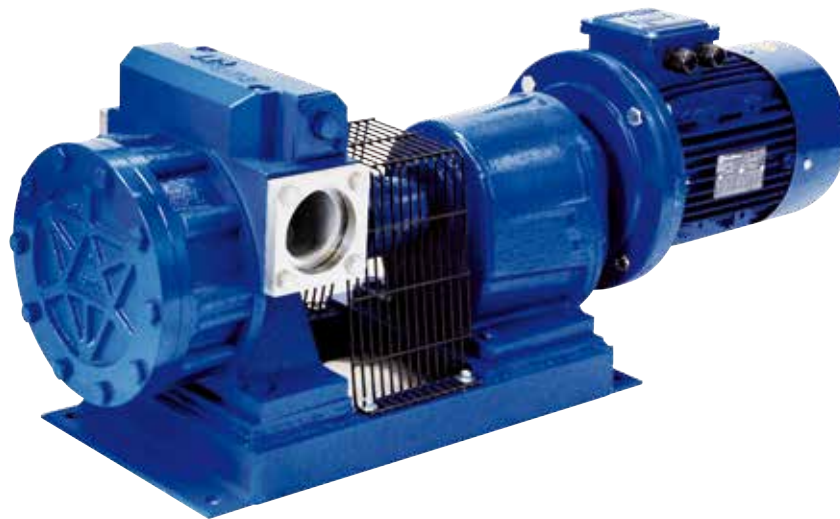
Tipo F
Tenuta a premitreccia
Gland seal

ACCESSORI / ACCESSORIES

Valvola di massima pressione	By pass valve	Prefiltro	Filter
Camicia di riscaldamento	Heating cover	Carrello	Trolley



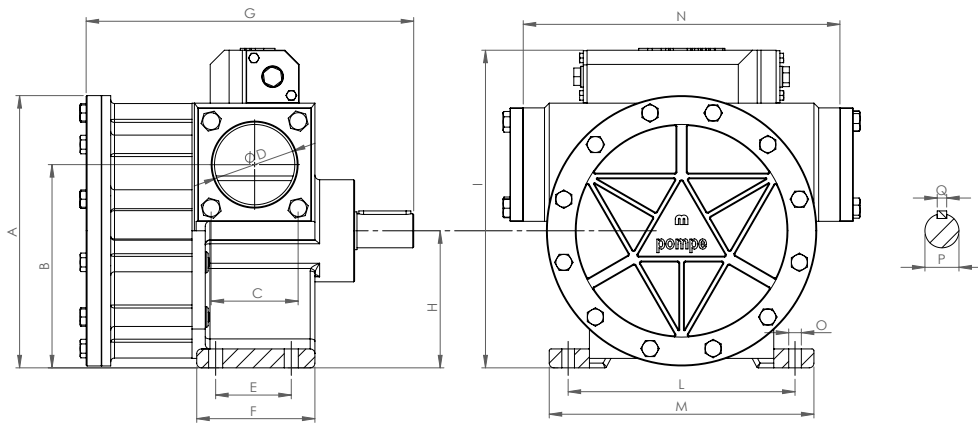
POMPE SINGOLE
BARE SHAFT PUMPS



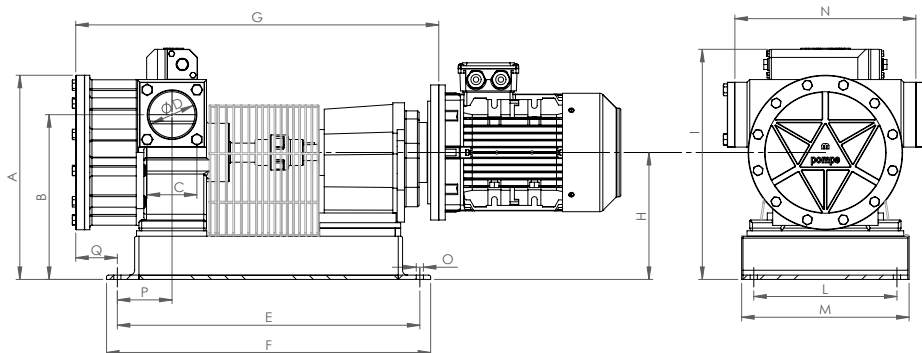
ELETTROPOMPE SINGOLE
ELECTROPUMPS ON BASEPLATE



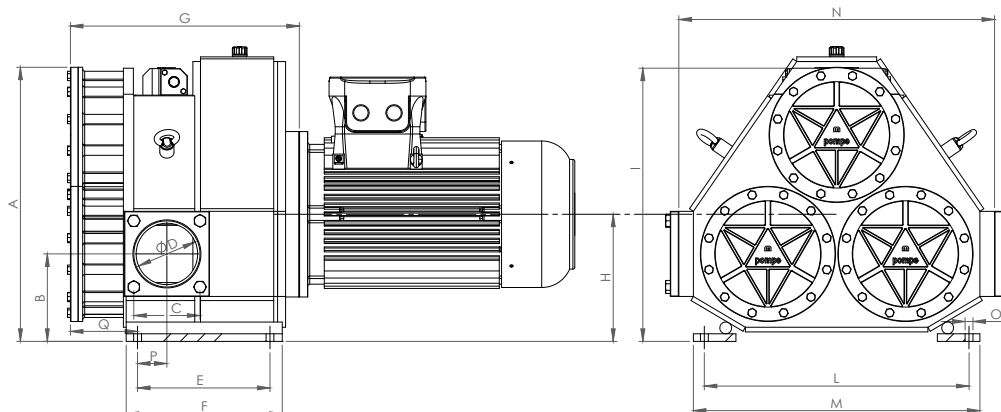
ELETTROPOMPE TRIPLE
ELECTROPUMPS WITH THREE CASING



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



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



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



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