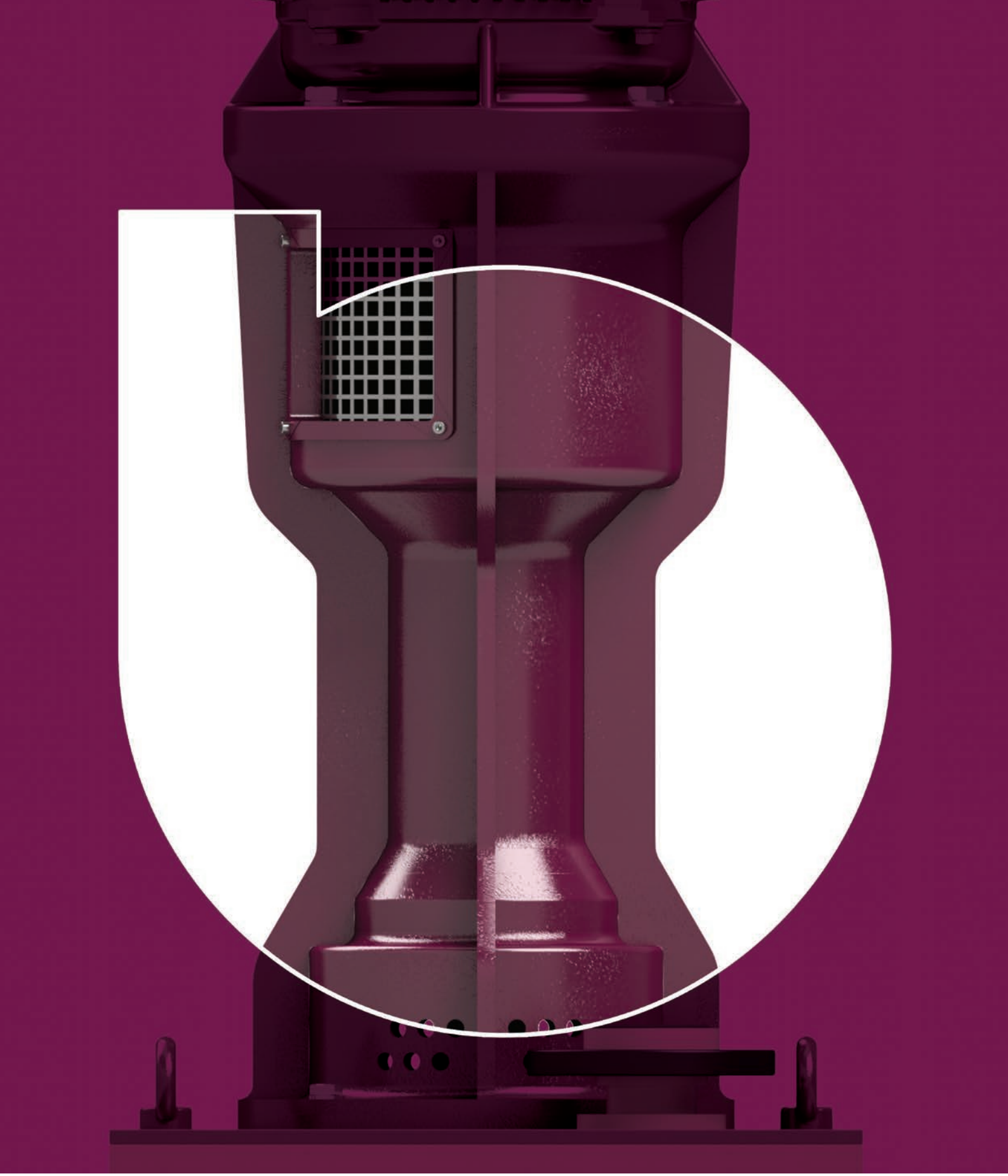


AFFETTI PUMPS

YOUR SOLUTIONS

CORROSIVE APPLICATION

Series CGV-S

Pompe centrifughe verticali cantilever

Cantilever centrifugal sump pumps

CGV-S

Caratteristiche principali | Main features

Le pompe della serie CGV-S sono cantilever e nascono dall'esigenza di utilizzare le pompe verticali senza che eventuali corpi solidi abrasivi presenti nel liquido o situazioni di funzionamento a secco, danneggino le bussole di guida dell'albero tanto da essere concepite senza alcun dispositivo di guida a ridosso della girante. L'albero-pompa in acciaio al carbonio 42CrMo4 e rivestito in materiale plastico anticorrosivo, è montato a sbalzo e guidato da robusti cuscinetti alloggiati nella lanterna in ghisa; si collega al motore tramite un giunto elastico.

Materiali di costruzione

I materiali a contatto con il liquido pompato sono in termoplastico (PP-PVDF-PEHD-PE-UHMW); la lunghezza della colonna è disponibile da 500 a 1500 mm.

Temperature d'esercizio

-10 / +90 °C

Accessori

- Attacco flangiato in mandata
- Tettuccio parapioggia motore
- Filtro montato in aspirazione
- Tubo di prolunga montato in aspirazione

The CGV-S range of cantilever pumps was designed to meet a demand for vertical pumps that could operate without any risk of damage to the shaft guide bushings from abrasive solid particles contained in the fluid or from dry running, such that the design does not foresee any guide mechanisms close to the impeller. The carbon steel 42CrMo4 pump shaft coated in corrosion-proof plastic, assembled in a cantilever manner and guided by strong bearings housed in the cast iron intermediate adaptor, is connected to the motor with an elastic coupling.

Material of Construction

All parts in contact with the fluid pumped are made of thermoplastic material (PP-PVDF-PEHD-PE-UHMW); column length available ranges from 500 to 1500 mm.

Operating temperature

-10 / +90 °C

Accessories

- Flanged connection on discharge line
- Motor rain guard
- Filter on suction line
- Extension pipe on suction line

Componenti principali

1 Corpo-pompa in PP, PVDF, PEHD o PE-UHMW ricavato interamente da lavorazione meccanica. Per le macchine, 32-125, 40-130, 40-160, 50-160, il pezzo viene stampato ad iniezione solo in PP e PVDF.

2 Girante centrifuga in PP, PVDF, PEHD o PE-UHMW, (per le macchine 32-125, 40-130, 40-160, 50-160, il pezzo è realizzato solo in PP e PVDF); versione semiaperta per liquidi carichi e chiusa per il pompaggio di soluzioni con temperature elevate. Auto-bilanciamento assiale garantito da contropalettature posteriori, inserto centrale metallico protetto.

3 Tubo di mandata in termoplastico.

4 Colonna costruita interamente in termoplastico e rinforzata in FRP (applicabile dove necessario).

5 Piastra di elevato spessore in PP rinforzata con una lamiera d'acciaio.

6 Albero bilanciato in acciaio al carbonio 42CrMo4, strutturato per sopportare agevolmente forze torsionali e radiali. Ricavato completamente da barra piena tramite lavorazione meccanica è rivestito completamente in termoplastico.

7 Cuscinetto a rulli per sopportare le spinte radiali.

8 Lanterna in ghisa contiene i cuscinetti ed il giunto elastico; distanzia il motore dal resto della pompa.

9 Cuscinetto a sfere per guidare l'albero e sopportare le spinte generate dalla girante.

10 Giunto elastico montato per assorbire eventuali disallineamenti dell'asse, inoltre consente lo smontaggio del motore senza dover rimuovere la pompa.

11 Motore elettrico asincrono trifase secondo la normativa IEC (a richiesta NEMA).

Main Components

1 Pump casing made of extra-thick PP, PVDF, PEHD or PE-UHMW, manufactured using mechanical machining processes. For pump models 32-125, 40-130, 40-160 and 50-160, the part is injection moulded and is only available in PP or PVDF.

2 Centrifugal impeller in PP, PVDF, PEHD or PE-UHMW (the part is only available in PP or PVDF for pump models 32-125, 40-130, 40-160 and 50-160); semi-open version for particle-loaded fluids or closed for pumping solutions at high temperatures. Axial self-balancing guaranteed by rear counterblades; protected central metal insert.

3 Thermoplastic discharge pipe.

4 Column manufactured entirely from thermoplastic material and reinforced in FRP material (applicable where necessary).

5 Extra-thick PP plate reinforced with a sheet of steel.

6 Balanced shaft made of 42CrMo4 carbon steel, structured to easily support torsional and radial forces. Made exclusively from solid bar stock using mechanical machining processes and fully coated in thermoplastic material.

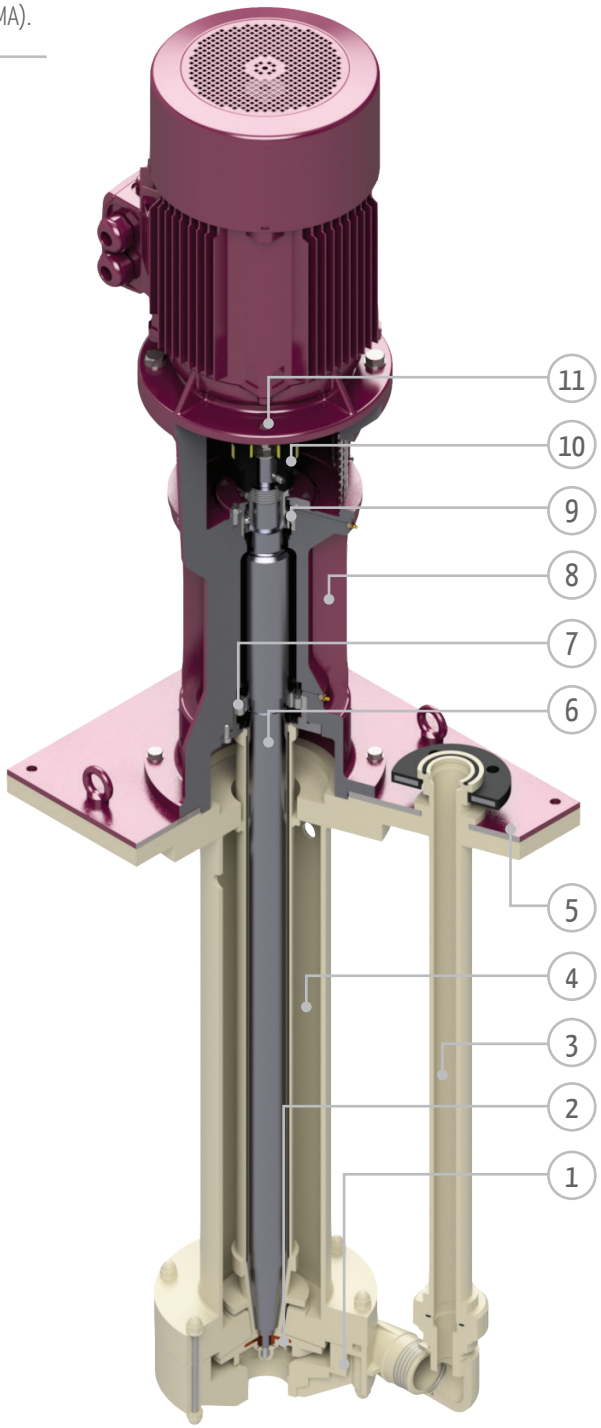
7 Roller bearing to withstand radial thrusts.

8 Intermediate adaptor in cast iron contains the bearings and the elastic coupling and distances the motor from the rest of the pump.

9 Ball bearing to guide the shaft and withstand thrusts generated by the impeller.

10 Elastic coupling fitted to absorb any axial misalignment and allow the motor to be disassembled without having to remove the pump.

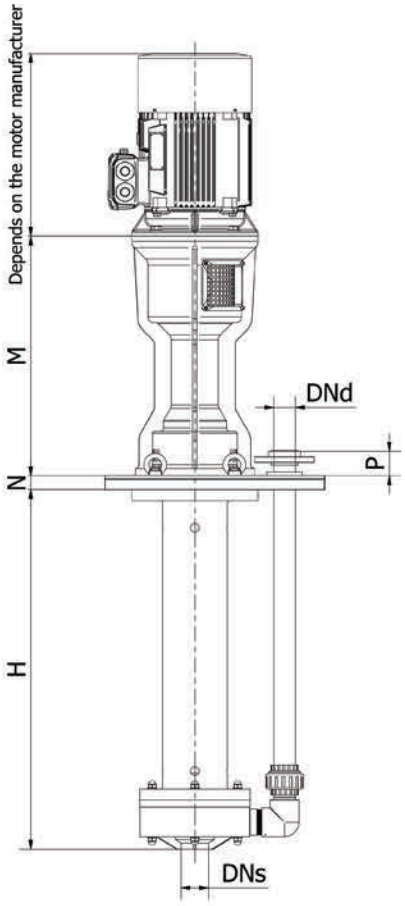
11 Three-phase asynchronous electric motor, in compliance with IEC (NEMA available on request).

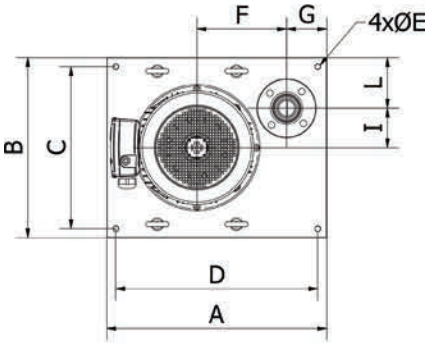


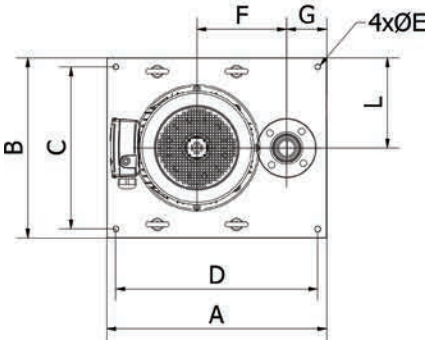
Disponibile anche nella versione ATEX 2014/34/UE
Also available in the ATEX 2014/34/EU version

Dimensioni di ingombro | Overall dimensions

Model	Group	DNs	DN	A	B	C	D	E	F	G	H	I	L	M	N	P
32-125	80÷112	50	32	480	400	350	430	14	186	94	500 - 750 - 1000 - 1250 - 1500 (±5)	85	115	565	26	67
	132													665		
40-130	80÷112	50	40	530	450	400	480	16	208	97		85	140	565	36	67
	132													665		
40-160	80÷112	65	40	610	500	450	560	16	248	112		112	140	565	36	67
	132÷160													665		
40-200	80÷112	65	40	710	534	484	660	16	340	100		0	267	565	36	67
	132÷160													665		
50-160	80÷112	65	50	610	500	450	560	16	270	90		108	142	565	36	67
	132÷160													665		
50-200	90÷112	80	50	715	550	500	665	16	340	100		0	275	565	50	100
	132÷180													665		
	200													765		
50-250	100÷112	80	50	720	570	520	670	16	330	105		0	285	565	50	100
	132÷180													665		
	200÷225													765		
50-315	100÷112	80	50	870	550	500	820	16	380	215		0	275	565	50	100
	132÷160													665		
65-125	90÷112	100	65	670	500	450	620	16	310	110		0	250	565	36	100
	132÷160													665		
65-160	90÷112	100	65	670	500	450	620	16	310	110		0	250	565	36	100
	132÷160													665		
65-250	90÷112	100	65	750	570	520	700	16	370	110		0	285	565	50	100
	132÷160													665		
80-200	90÷112	125	80	710	534	484	660	16	370	110		0	267	565	50	100
	132÷180													665		
	200÷225													765		
80-250	112	125	80	760	570	520	710	16	370	110		0	285	565	50	100
	132÷180													665		
80-315	112	125	80	980	720	670	930	16	550	140		0	360	565	50	100
	132÷180													665		
	200													765		
100-250	100÷112	125	100	864	570	520	814	16	-	-		0	285	565	50	100
	132÷180													665		
150-250	132÷180	200	150	930	600	550	880	16	-	-		0	300	665	55	100
	200÷225													765		
150-315	160÷180	200	150	1145	620	570	1095	16	-	-		0	310	665	55	100
	200÷280													765		







Note generali

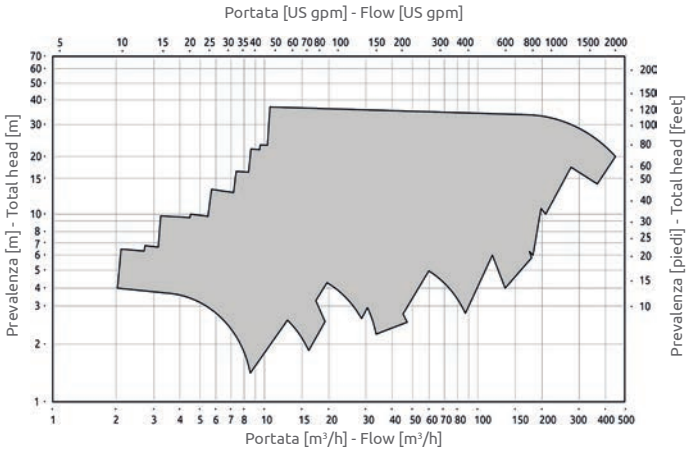
A Tutte le dimensioni sono espresse in millimetri.

General notes

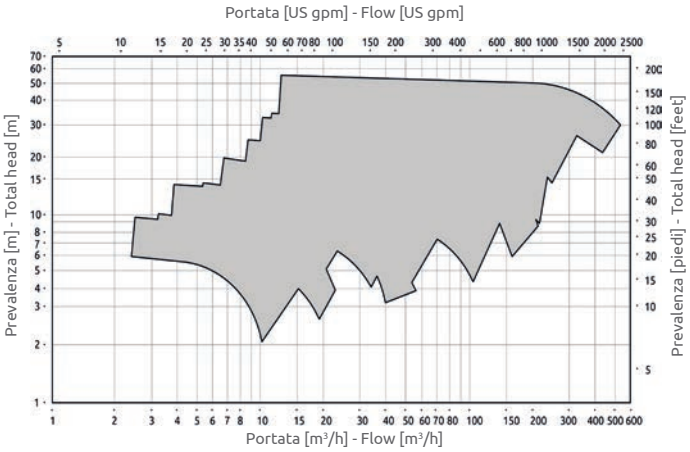
A All dimensions are in millimeters.

Campi di copertura | Coverages

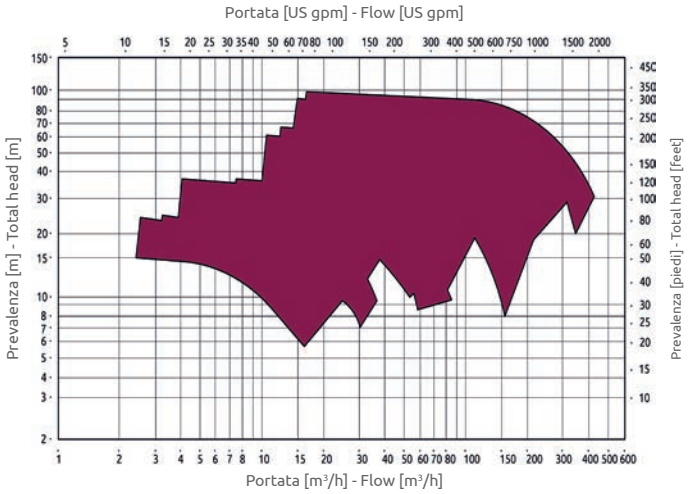
1450 - 50Hz



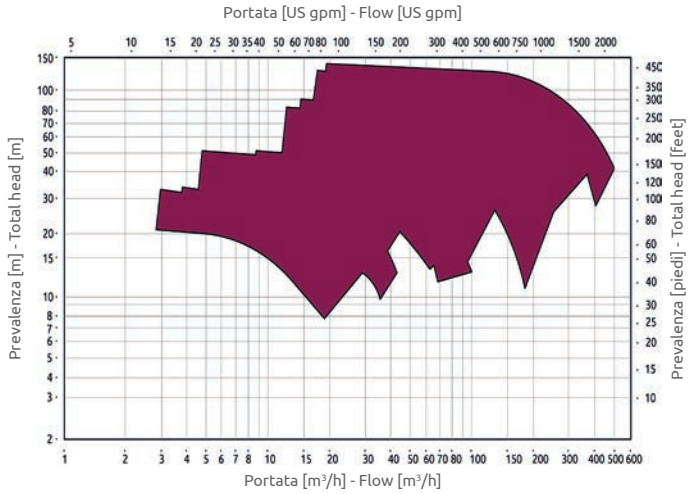
1750 - 60Hz



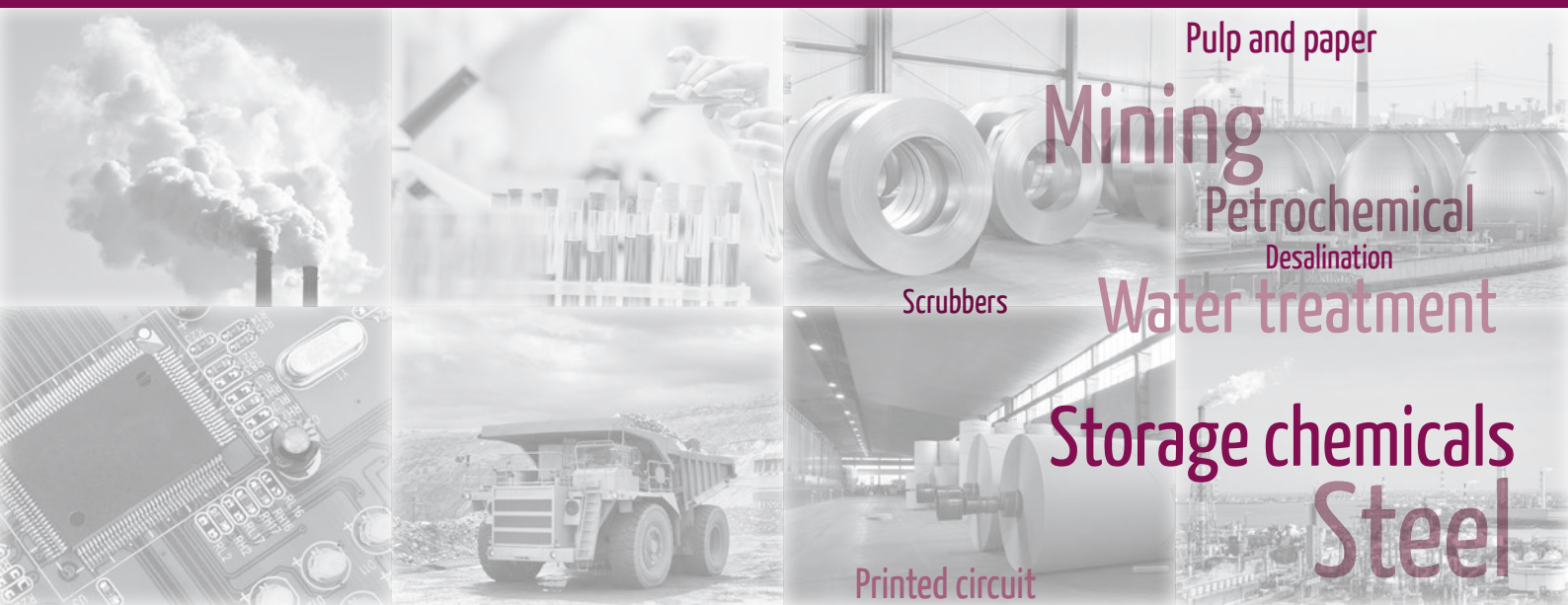
2900 - 50Hz



3500 - 60Hz



Settori di applicazione | Application fields



Affetti Pumps s.r.l.

Via Pietro Maroncelli 4 | 21013 Castellanza (VA) | Italy

Ph. +39 (0) 331 503358 / 505595 | Fax +39 (0) 331 483007

www.affetti.com

Mail for Italy vendite@affetti.com

Mail for other countries export@affetti.com

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Danmark
Lobe ApS
Tlf. +45 7684 3484
Mail: sales@lobe.dk
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Norge
Lobe AS
Tlf. +47 6710 5000
Mail: sales@lobe.no
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