

CENTRIFUGAL PUMPS CN series

Closed coupled single-stage centrifugal pumps. A range of 6 models with open impellers, independent shafts and IEC standard motors.

Optimised design to ensure high levels of hygiene - The absence of product hold-up and no dead-legs ensures efficient cleaning by standard CIP methods and effective sterilisation by SIP.

Wetted parts are in pressed polished plate and investment cast electropolished CF3M 1.4409 / AISI 316L (1.4404) stainless steel. Investment cast and electro-chemical polishing. Internal finishes of 0,5 micron Ra are available on request.

ATEX-compliant versions also available on request.



HYGIENE



BIOTECHNOLOGY

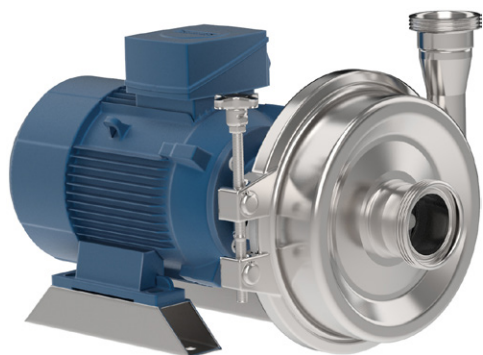


INDUSTRIAL



Applications

Food processing, dairy, beverage, chemical, cosmetics and pharmaceutical industries. The open impeller allows a large range of products such as purified water, juices, creams, ice-cream mix, milk, wine, spirits, whey and WFI to be safely transferred.



Pump without shroud and stainless steel motor shims.



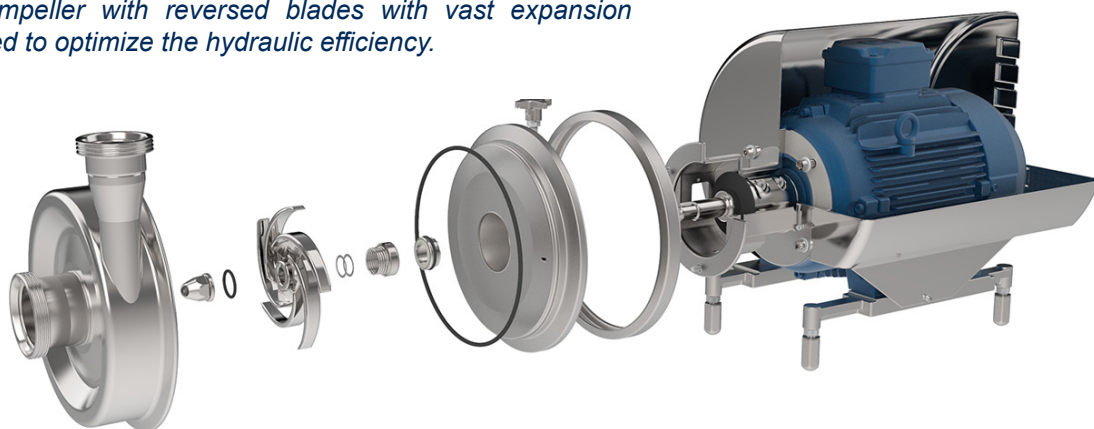
All stainless construction, with standard motor, separate pump shaft with clamp coupling, internal product seal and an open impeller.

The clamp casing and seal design allow quick disassembly for inspection, cleaning and maintenance. It also enables the delivery port to be rotated to any position for easy installation and drainage.

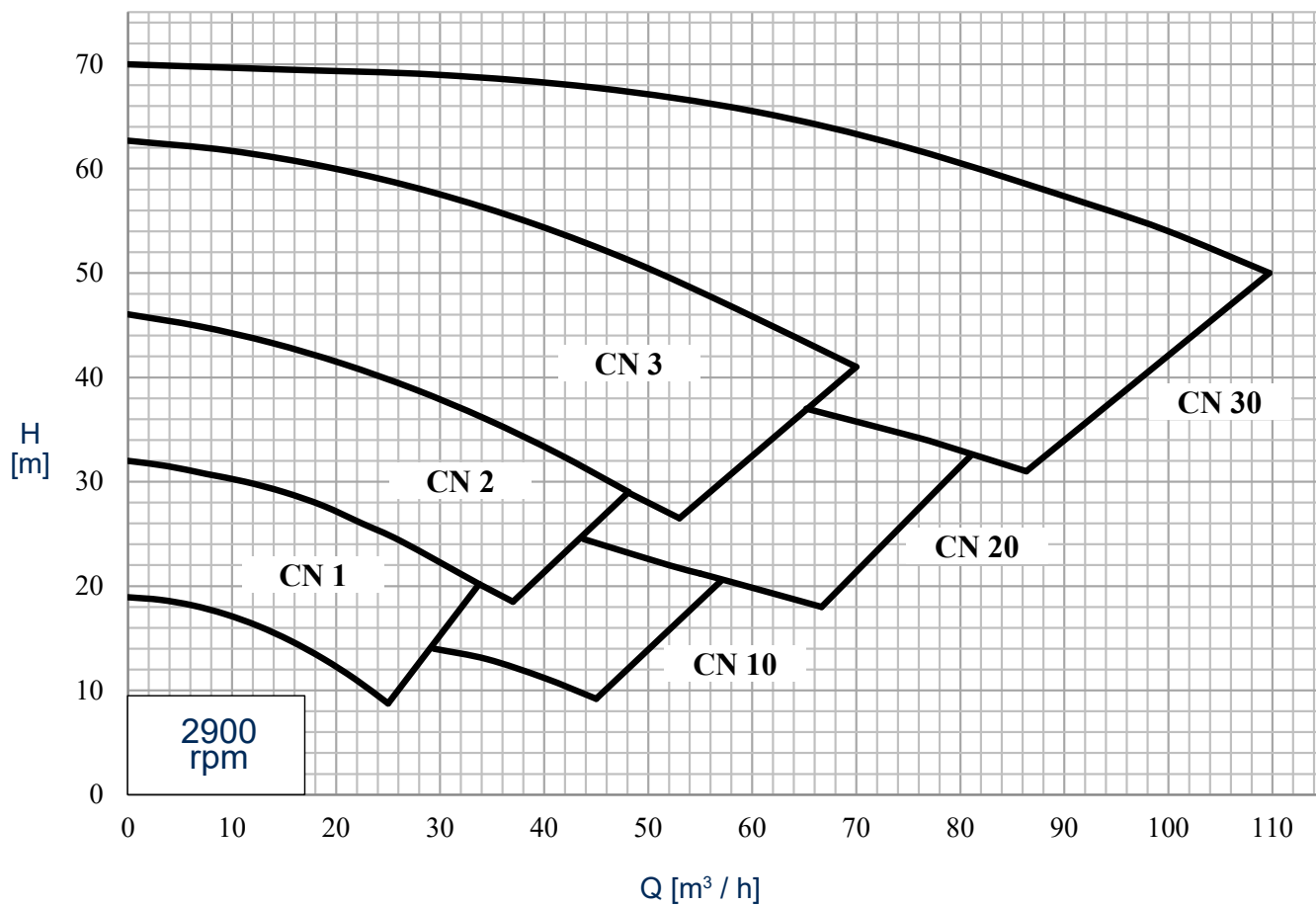
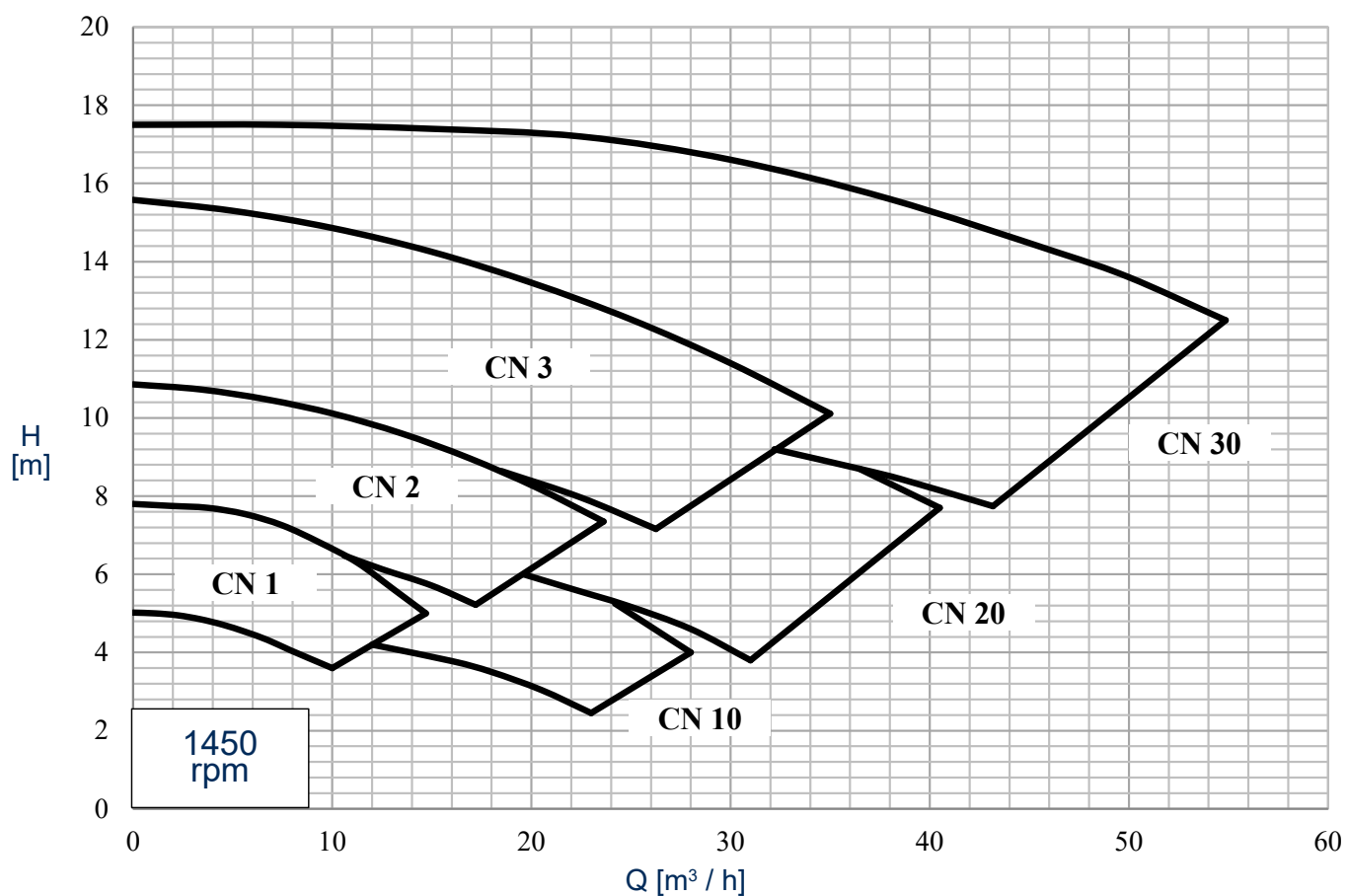
Motor shroud.



Open impeller with reversed blades with vast expansion designed to optimize the hydraulic efficiency.



GENERAL DIAGRAMS CN series
(Performance applies to H₂O at 20 °C, 1013 mbar, Data not binding)



TECHNICAL DATA CN series

Flow rates up to 110 m³/h
Heads up to 70 m
Maximum operating pressure 10 bar up to 100°C
Temperature range -10°C ÷ +121°C
High performance, with low NPSH values.

Mechanical seals:

With seats to EN 12756, ISO 3069 standards.

Connections:

DIN - SMS - IDF - BS / RJT - DS - CLAMP and EN1092-1 PN16 flanges suitable for all international standards.

Elastomers (FDA Regulation (EC) No. 1935/2004):

Ethylene propylene (EPDM)
Special fluorocarbon seal
Fluorocarbon seal (FPM - FKM)
FFPM - FFKM

AUTOMATION ACCESSORIES

Pump with integrated inverter and pressure sensor



Compact and functional application which includes a pressure sensor installed on the pump delivery so as to modulate its speed according to the pressure value detected.

The sensor is powered directly by the inverter and communicates with it via an analog signal. This allows a continuous modulation of the pump speed when the pressure detected at the delivery is within the range set on the sensor. Below the minimum pressure, the pump speed is not modulated, while once the maximum pressure is reached, the pump stops.

The pressure sensor can be parameterized through the IO-LINK® communication protocol with a specific interface and a dedicated software. The interface is available upon specific request.

Pump with integrated inverter and flow meter

Electromagnetic flow meter for conductive liquids. It is able to measure the instantaneous flow rate and temperature of the fluid and also acts as a liter counter (totalizer).

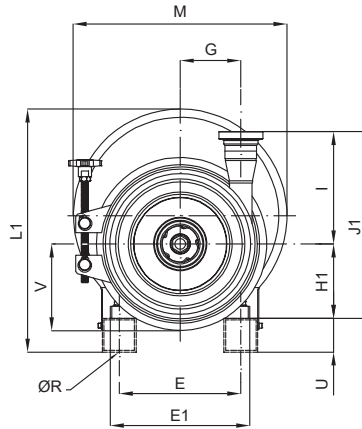
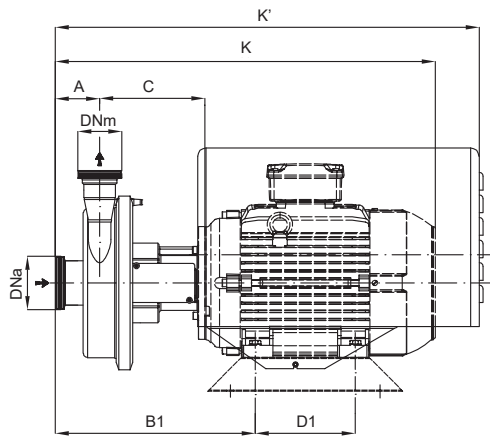
Thanks to the instrument's ability to generate digital, analog and pulse output signals, it allows integration into a wide variety of automations. It is possible to modulate the pump speed according to the set flow rate value, program automated filling cycles and communicate with PLC or inverter.

The flow meter features an IO-LINK® communication interface for direct access to process and diagnostic data and Bluetooth® connection via App.

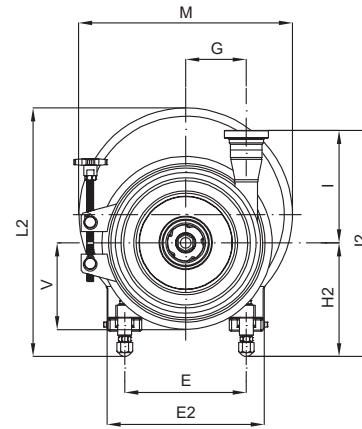
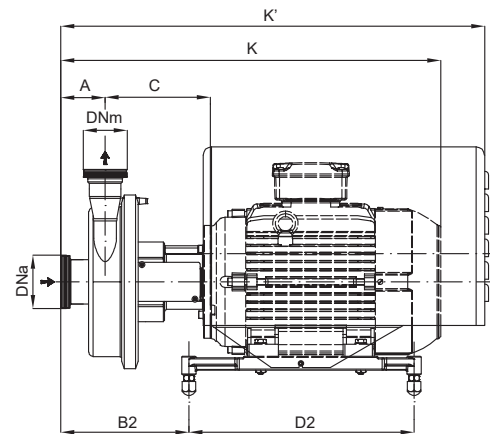


OVERALL DIMENSIONS CN series

Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors



MOTOR "B3-B14"
EXEC. WITH SHIMS



MOTOR "B3-B14"
EXEC. WITH ADJUSTABLE FEET

Pumps	IEC motors	DNa	DNm	A	B1	B2	C	D1	D2	E	E1	E2	G	H1	H2	K	K'	ØR	I	J1	J2	L1	L2	M	U	V
CN 1	80	50	40	73	276	186	155	100	220	125	155	160	86	80	158	462	-	10	183	263	341	-	-	-	40	127
	90				282	210		125	270	140	165	210		90	160	505,5	597			273	343	317,5	347,5	303		
	100				319	247		140	285	160	196	240		100	170	572	-			283	353	389,5	409,5	-		
	112				326	239	185	178	315	190	226	276		112	182	592	674			295	365	401,5	421,5	369		
	132				345	218		400	400	216	256	276		132	202	666	744			315	385	432	442	380		
CN 2	80	65	50	79	286	196	159	100	220	125	155	160	108	80	158	478	-	10	200	280	358	-	-	-	40	154
	90				292	219		125	270	140	165	210		90	160	515	607			290	360	317,5	347,5	303		
	100				129	257		140	285	160	196	240		100	170	582	684			300	370	389,5	432,5	369		
	112				336	249	189	178	315	190	226	276		112	182	600	754			312	382	401,5	444,5	380		
	132				355	228		400	400	216	256	276		132	202	675	754			332	402	432	442	380		
CN 3	160	80	65	81	404	251	219	254	475	254	300	326	129	160	210	821	912	14	255	360	410	536,5	526,5	473	70	179
	90				295	223	159	125	270	140	165	210		90	160	521	611			315	415	317,5	378,5	303		
	100				332	260	189	140	285	160	196	240		100	170	587	-			355	425	389,5	440,5	369		
	112				339	252		178	315	190	226	276		112	182	606	688			367	437	401,5	452,5	380		
	132				358	231		400	400	216	256	276		132	202	678	758			387	457	432	473	380		
CN 10	160	65	50	79	407	217,5	219	254	475	254	300	326	80	160	210	823	793	15	180	415	465	536,5	536,5	473	70	127
	80				287	197	155	100	220	125	155	160		80	158	474	-			260	338	-	-	-		
	90				286	215		125	270	140	165	210		90	160	517	608			270	340	317,5	347,5	303		
	100				320	252	185	140	285	160	196	240		100	170	583	686			280	350	389,5	409,5	369		
	112				237	244		178	315	190	226	276		112	182	601	-			292	362	401,5	421,5	380		
CN 20	132	80	65	84	346	224	215	178	400	216	256	276	98	132	202	676	756	12	218	312	382	432	442	380	60	154
	160				405	252		254	475	254	300	326		160	210	821	912			340	390	536,5	340	473		
	80				299	299	145	100	220	125	155	160		80	158	485	606			298	376	-	-	-		
	90				305	305		125	270	140	165	210		90	160	521	619			308	378	317,5	347,5	303		
	100				341	269	175	140	285	160	196	240		100	170	594	695			318	388	355	432,5	369		
CN 30	112	100	80	88	367	240		178	400	216	256	276	127	112	182	612	-	12	273	330	400	401,5	444,5	380	60	179
	132				367	240		178	400	216	256	276		132	202	687	765			350	420	432	442	380		
	160				416	263	205	254	475	254	300	326		160	210	832	923			378	428	546,5	526,5	473		
	180				449	198		279	600	282,5	350	354,5		180	240	912	-			398	458	-	-	-		
	90				310	238	147	125	270	140	165	210		90	160	534	624			363	433	317,5	378,5	303		
CN 30	100	80	88	88	347	275		140	285	160	196	240	127	100	170	600	701	12	273	373	443	389,5	440,5	369	50	179
	112				354	267		178	315	190	226	276		112	182	618	-			385	455	401,5	452,5	380		
	132				273	246		400	400	216	256	276		132	202	693	771			405	475	432	473	380		
	160				423	269	207	254	475	254	300	326		160	210	800	929			433	483	546,5	536,5	473		
	180				452	201		279	600	282,5	350	354,5		180	240	918	-			453	513	-	-	-		