

**FAMCO**  
هایپر صنعت



**water passion**

تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)، روبروی پالایشگاه نفت پارس، پلاک ۱۲

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# 1959

## WHO WE ARE

WE WANT TO CONTINUE THAT WHICH WAS STARTED MANY YEARS AGO BY VINICIO METTIFOGO, FOUNDER AND PIONEER.

Calpeda is a family owned company with an history of 61 years.

Today, we are a reality that has evolved over the years, always looking to the future with a spirit that has brought us to being a respected reference point in the great world of water.

Our history has taken our tradition and strength to you, acknowledged for our professionalism, quality, reliability and service.



2020

## CALPEDA TODAY

Employees: 250  
Offices: Montorso V. (Vicenza) Italy  
Main factory: 30,000 sq. metres (covered)  
Types of pumps: more than 2,000  
Power outputs: from 0.5 kW to 200 kW





### Construction

Close-coupled centrifugal pumps with open impeller.  
Free-flow impeller (vortex or recessed impeller) for type C 16/1E.

C: version with pump casing and lantern bracket in cast iron.  
B-C: version with pump casing and lantern bracket in bronze (the pumps are supplied fully painted).

### Applications

For moderately dirty liquids or emulsions.  
For industry and agriculture.

### Operating conditions

Liquid temperature from -10 °C to +90 °C.  
Ambient temperature up to 40 °C.  
Total suction lift up to 8 m.  
Maximum permissible working pressure: 6 bar.  
Maximum size of solids: 4 mm.  
Continuous duty.

### Motor

2-pole induction motor, 50 Hz ( $n \approx 2900$  rpm).  
C: three-phase 230/400 V  $\pm 10\%$ .  
CM: single-phase 230 V  $\pm 10\%$ , with thermal protector.  
Capacitor inside the terminal box.

Insulation class F.  
Protection IP 54.

Motor suitable for operation with frequency converter from 1,1 kW.

**Classification scheme IE3 for three-phase motors from 0,75 kW.**

Constructed in accordance with: EN 60034-1; EN 60034-30-1.  
EN 60335-1, EN 60335-2-41.

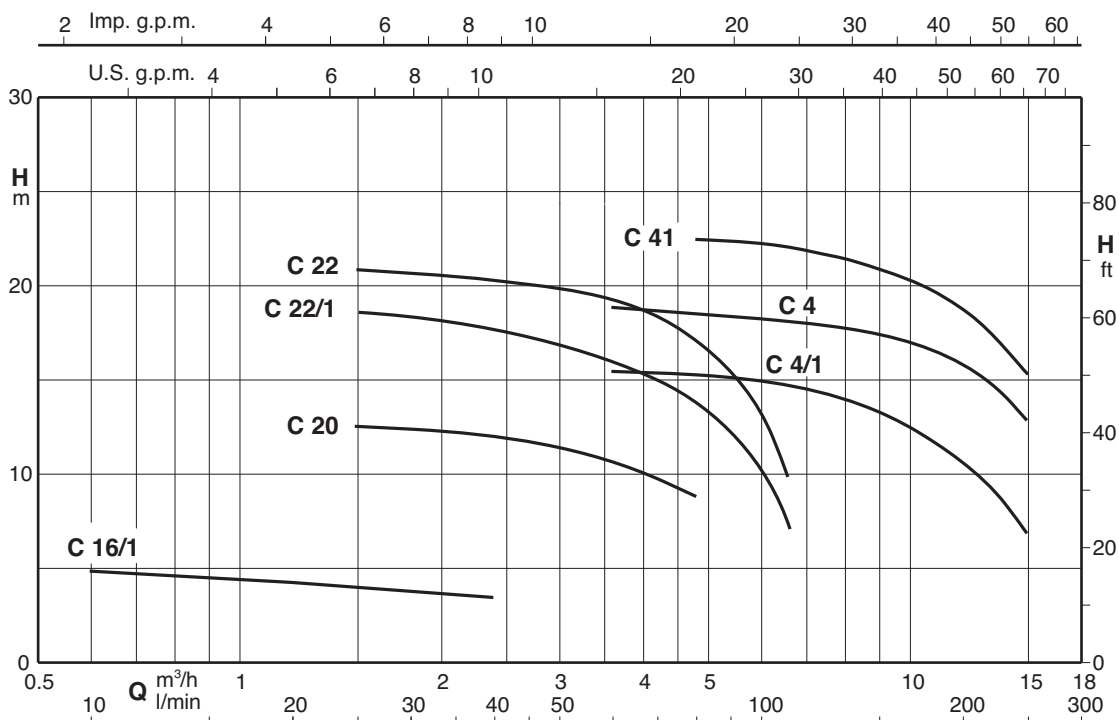
### Special features on request

- Other voltages.
- Frequency 60 Hz (as per 60 Hz data sheet).
- Protection IP 55.
- Special mechanical seal
- Higher or lower liquid or ambient temperatures.
- Motor suitable for operation with frequency converter up to 0,75 kW.
- Construction with bearing bracket.

### Materials

Component	C	B-C
Pump casing	Cast iron GJL 200 EN 1561	Bronze G-Cu Sn 10 EN 1982
Lantern bracket	Cast iron GJL 200 EN 1561	Bronze G-Cu Sn 10 EN 1982
Impeller	Brass P- Cu Zn 40 Pb 2 UNI 5705	
Shaft	Chrome steel 1.4104 EN 10088 (AISI 430)	Cr-Ni-Mo steel 1.4401 EN 10088 (AISI 316)
	Chrome-nickel steel 1.4305 EN 10088 (AISI 303) for C 41	
Mechanical seal	Carbon - Ceramic - NBR	

### Coverage chart $n \approx 2900$ rpm



#### Performance n ≈ 2900 rpm

3 ~	230V 400V		1 ~	230V		P <sub>1</sub>		P <sub>2</sub>		Q m <sup>3</sup> /h l/min	0,6	0,9	1,2	1,5	1,8	2,4	3	3,6	4,8	6	6,6	8,4	9,6	10,8	12	13,2	15		
	A	A		A	kW	kW	HP	10	15		20	25	30	40	50	60	80	100	110	140	160	180	200	220	250				
<b>C 16/1E</b> B-C 16/1E	1,7	1	<b>CM 16/1E</b> B-CM 16/1E	1,2	0,16	0,15	0,2	H m	5	4,7	4,4	4,2	4	3,6															
<b>C 20E</b> B-C 20/A	1,9 2,3	1,1 1,3	<b>CM 20E</b> B-CM 20/A	2,5 2,8	0,4	0,37	0,5					12,3	12,2	12	11,5	10,8	9												
<b>C 22/1E</b> B-C 22/1/A	2,4 2,3	1,4 1,3	<b>CM 22/1E</b> B-CM 22/1/A	3 3,6	0,8	0,45	0,6					18	18	17,5	17	16	14	10	7,5										
<b>C 22E</b> B-C 22/A	3	1,7	<b>CM 22E</b> B-CM 22/A	3,5 4,5	0,9	0,55	0,75					20,5	20	20	19	18,5	16,5	14	12										
<b>C 4/1/A</b>	3	1,7	<b>CM 4/1/A</b>	4,5	0,91	0,55	0,75										15,6	15,4	15,2	15	14	13,1	12	10,8	9,5	7			
<b>C 4/B</b> B-C 41/1E	3,7 3,3	2,2 1,9	<b>CM 4/A</b> B-CM 41/1E	5,7 5,8	1,2	0,75	1										19	18,8	18,5	18,3	17,7	17,4	16,8	16	15	13			
<b>C 41/A</b> B-C 41/A	4,7	2,7	<b>CM 41E</b> B-CM 41E	7,4	1,6	1,1	1,5												22,4	22,3	22,2	21,5	21	20,5	19,5	18	15,5		

P<sub>1</sub> Maximum power input.

B-C, B-CM = Bronze construction.

ρ = Density 1000 kg/m<sup>3</sup>.

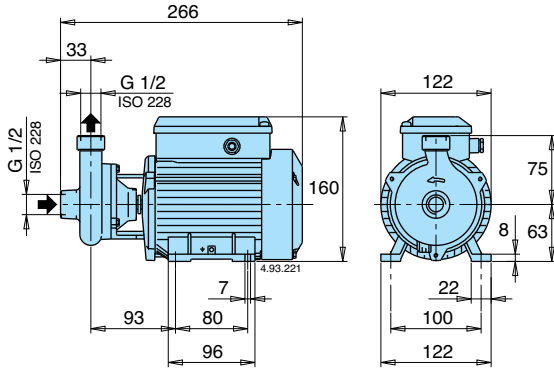
Tolerances according to UNI EN ISO 9906:2012

P<sub>2</sub> Rated motor power output.

H Total head in m.

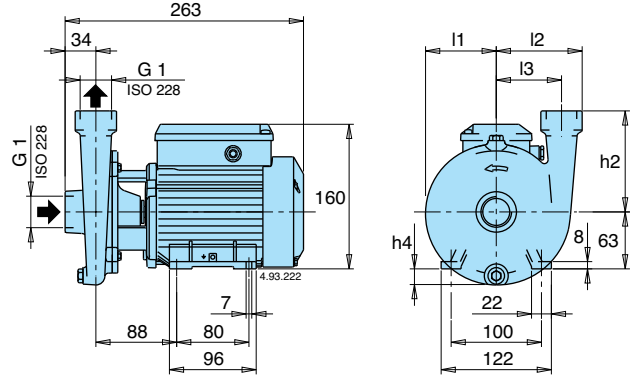
ν = Kinematic viscosity max 20 mm<sup>2</sup>/sec.

### Dimensions and weights

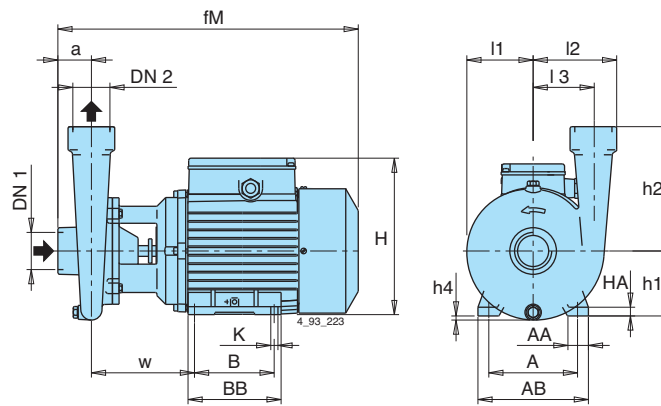


TYPE	kg
C 16/1E	5,2
CM 16/1E	5,2

TYPE	kg
B-C 16/1E	5,6
B-CM 16/1E	5,6



TYPE	mm					kg	
	h2	h4	l1	l2	l3	C	CM
C 20E	90	5	67	82	60	6,8	6,8
C 22/1E - C 22E	110	17	77	94	71	8 - 8,3	8 - 8,3



TYPE	DN1 ISO 228	DN2 ISO 228	mm															kg					
			a	fM	h1	h2	H	h4	BB	B	AB	A	AA	K	l1	l2	l3	w	HA	C	CM	B-C	B-CM
- B-C 20/A	G 1	G 1	35	303	71	90	182	-	106	90	134	112	22	7	70	84	60	105	10	-	-	9,1	9,1
- B-C 22/1/A	G 1	G 1	35	303	71	110	182	9	106	90	134	112	22	7	81	93	71	106	10	-	-	9,3	10,3
- B-C 22/A																						9,6	10,6
C 4/1/A -	G 11/2	G 11/2	43	304	71	160	182	18	106	90	134	112	22	7	85	108	78	100	10	10,8	11,8	-	-
C 4/B -																				12,6	12,8	-	-
- B-C 41/1E	G 11/2	G 11/2	43	380	80	160	208	9	125	100	155	125	30	9,5	85	108	78	132	10	-	-	16,3	17,9
C 41/A B-C 41/A																				18,5	19,3	19,2	20,1



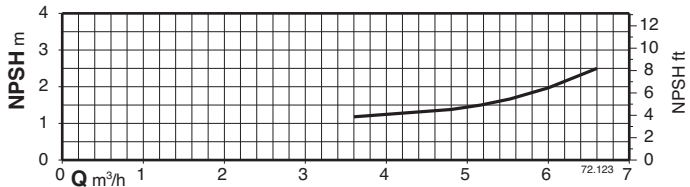
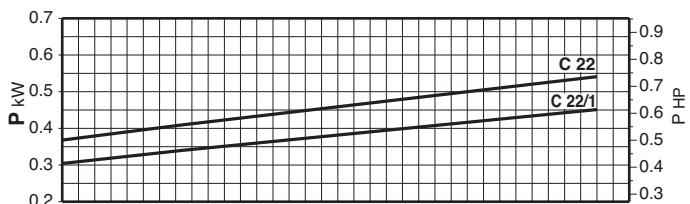
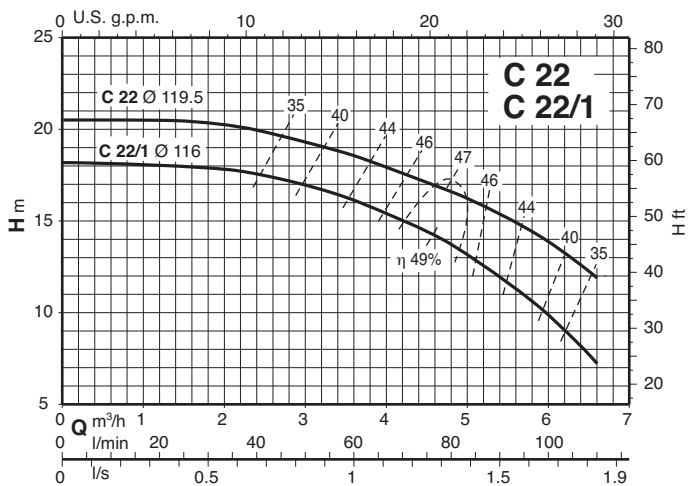
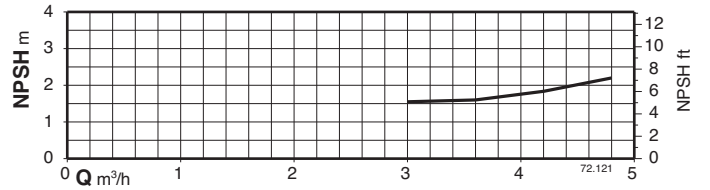
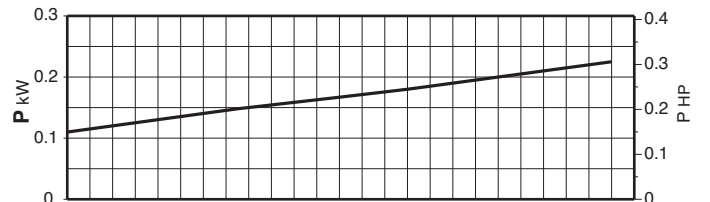
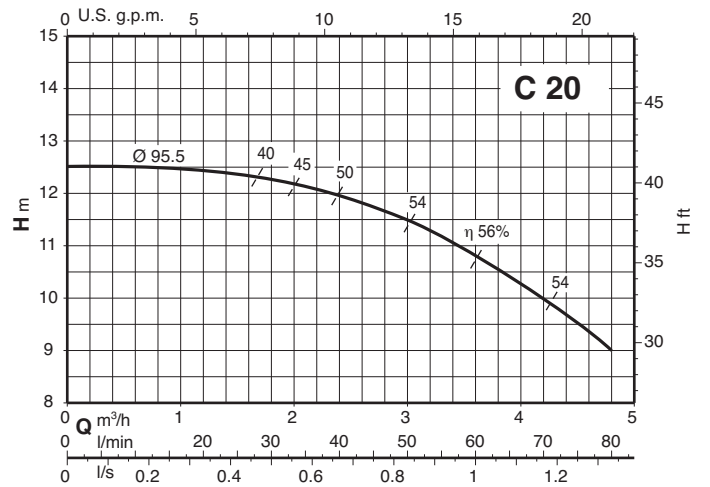
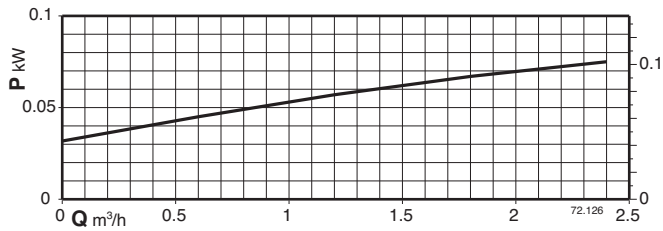
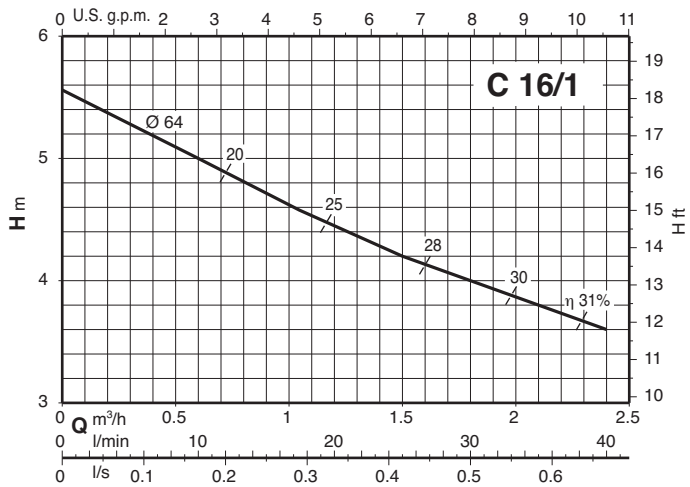


Centrifugal Pumps  
with open impeller

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Characteristic curves  $n \approx 2900$  rpm



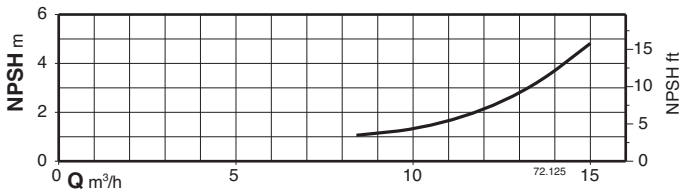
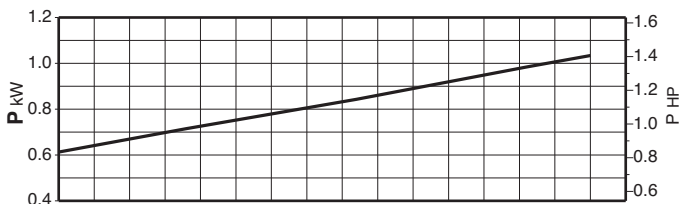
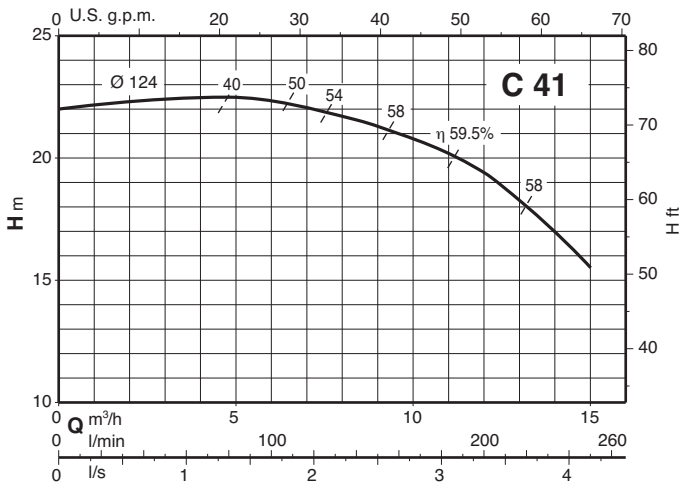
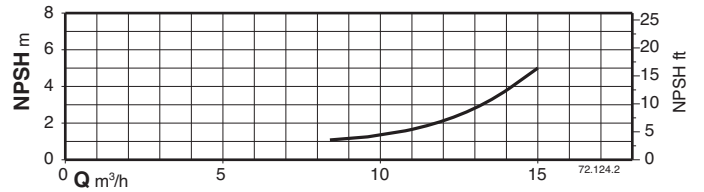
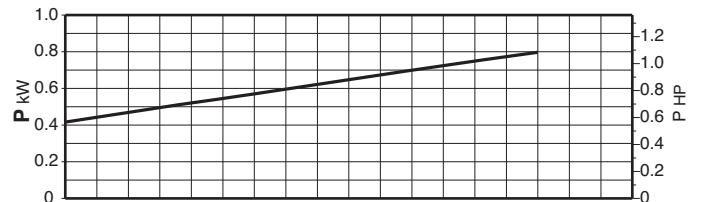
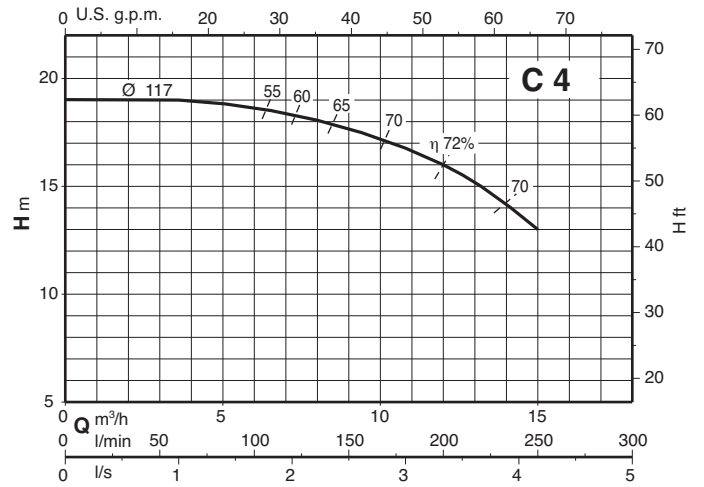
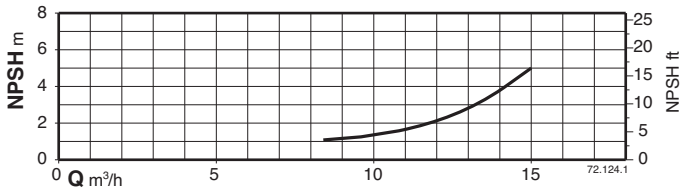
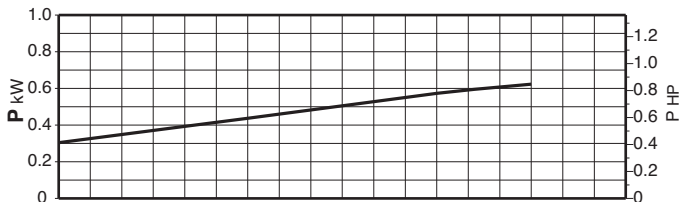
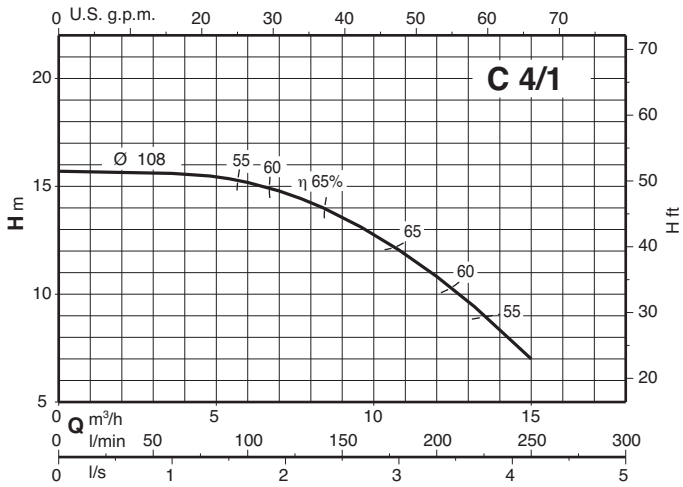


Centrifugal Pumps  
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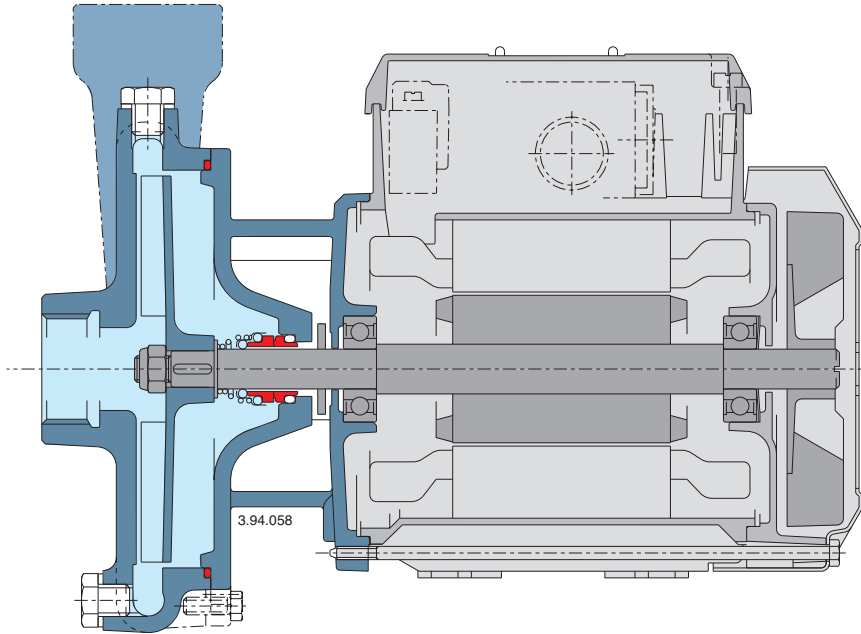


**Characteristic curves  $n \approx 2900$  rpm**





## Features



### Flexible

The option to choose between cast iron and bronze materials for the hydraulic parts in contact with the pumped liquid allows C series pumps to be selected for use with different types of liquids.

### Solid parts

The open impeller allows for the passage of suspended solids in pumped liquid.

### Reliable

The bearing and shaft are designed to ensure the reduction of the stress, providing high reliability under all operating conditions.