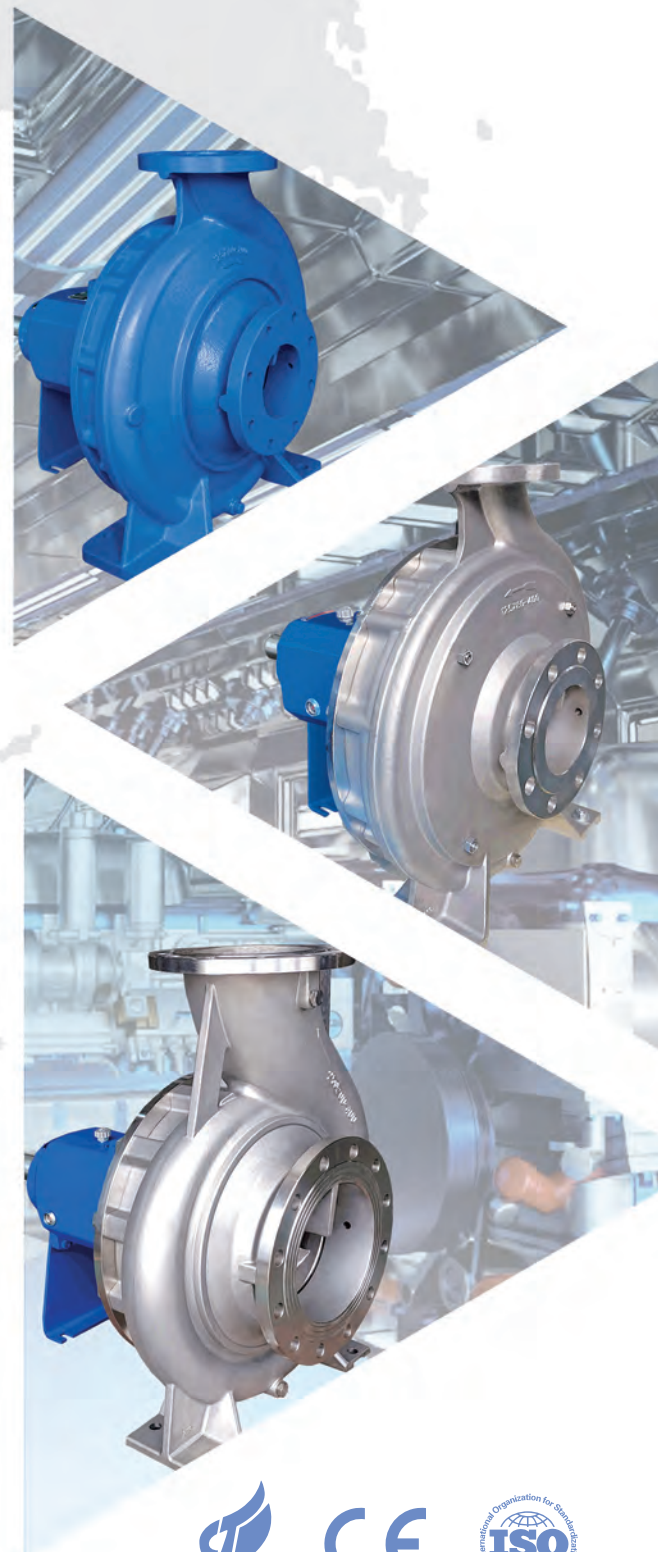




AMEGA GROUP

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国家高新技术企业



ISO9001-2015

Aceflo Engineering



Brief Introduction

AMEGA GROUP: Your Premier Supplier in Municipal & Industrial Sectors

With a legacy of innovation and expertise spanning many years, AMEGA GROUP stands as a trusted name in the global industry. Our relentless dedication to design and development, driven by industry experts, has propelled us to the forefront of innovation, supplying equipment that is used, trusted, and recommended by professional engineers worldwide.

As market continues to grow, we recognize the importance of collaboration and partnership. That’s why we have joined forces with renowned manufacturers to offer a comprehensive range of equipment and products. These offerings, born from the accumulation of years of experience and expertise, are developed in close collaboration with our clients, ensuring optimum performance and tailored solutions that meet their unique needs.

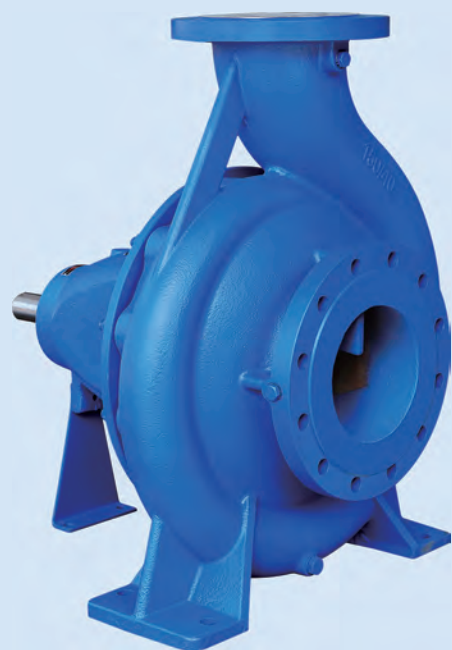
At AMEGA GROUP, quality is non-negotiable. All our products and manufacturing processes undergo rigorous testing and inspection to uphold the highest standards, ensuring consistent quality and peak performance. Our commitment to excellence extends beyond product delivery; it is ingrained in every aspect of our operations.

We pride ourselves on our ability to anticipate and respond to our clients’ needs with speed and professionalism. With an in-depth understanding of our clients’ requirements, we are equipped to provide customized solutions that exceed expectations. At AMEGA GROUP, client satisfaction is paramount, and we are dedicated to delivering unparalleled service and support.

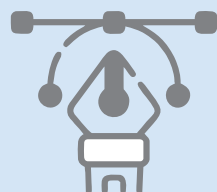
Join us as we continue to lead the way in innovation and excellence. Experience the difference with AMEGA GROUP, where quality meets performance, and customer satisfaction is our top priority.

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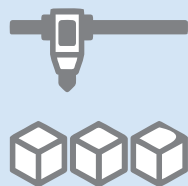




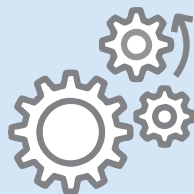
Design



Material



Operating Data



key Benefits

- AMEGA Pumps are all designed, engineered and manufactured at our facility .
In-house casting of all our metals means we can provide competitive pricing and short lead times. We are dedicated to delivering the highest levels of customer satisfaction at all times by offering...
- a dedicated & professional after-sales support team
 - a large inventory of components, parts & assemblies at our stock
 - a diverse range of configurations to suit various applications
 - ISO 9001 certification quality management control system
 - a reputation for rugged and reliable pumps that are easily maintained
 - experienced drafting & fabrication team for complete customised solutions

Design	Performance and dimension as per DIN24255 / BSEN 733
Structure	Horizontal ,End suction, Single suction,Volute casing
DN(mm)	Suction size: 50~300, Discharge size: 32~250
Flange	DIN 2501,PN16

Pump parts	Material
Casing / Impeller	Cast iron, Stainless steel
Shaft	Stainless steel
Shaft seal	Mechanical Seal, Gland Packing,Dynamic seal
Bearing lubrication	Grease Life ,Grease, Oil
Bearing Brand	NTN

Speed	Up to 3600rpm
Flow Rate(Q)	Up to 1100m3/h-1450rpm 1600m3/h-1750rpm
Head(H)	Up to 160m
Pressure	Up to PN16
Liquid Temperature	Up to 105°C

Design & Features



The **PA** series Back-pull-out Pump is a horizontal end suction, vertical top discharge, single stage, foot mounted centrifugal pump ~ Conforming to DIN24255/BESN733.

The **PA** series Back-pull-out Pump is a true back-pull-out (BPO) meaning, when configured with a spacer coupling, the electric/diesel motor remains undisturbed in position, while the back plate and rotating assembly can be removed for servicing.

This effective design reduces equipment down time and allows an identical assembly to be reinstalled with minimal service interruption.

DIN24255/ BSEN 733 standard ensures dimensional interchangeability with other pumps conforming to this recognised international standard.

This means that **PASON** Pumps can provide a pump in superior material to directly interchange with other manufacturer's equipment.(No pipe work or motor changes required)



Applications



Water Supply Systems



Pressure Boosting



Heating Systems for Commercial District Heating



Fire Fighting Systems



General Transport for Industrial Processes



Cooling Plants for Industrial Processing and Air-Conditioning units

Description

Flange connection:

Standard DIN 2533 PN16 / 2532 PN10
Flanges to ANSI 150,JIS10K possible

Maximum authorised pressure levels:

Temperature	-10°C ≤ t° ≤ 105°C
Material	Cast iron,Stainless steel
1)	16 bar
All others	10 bar

1) Pump model: 40/32G,50/32G,65/32G,80/32G,100/32G
Reminder : maximum authorised casing pressure
= fluid pressure at suction end + pressure at discharge
end with zero flow.

Note : technical recommendations and safety
precautions must be followed. (Refer to the
commissioning instructions.)

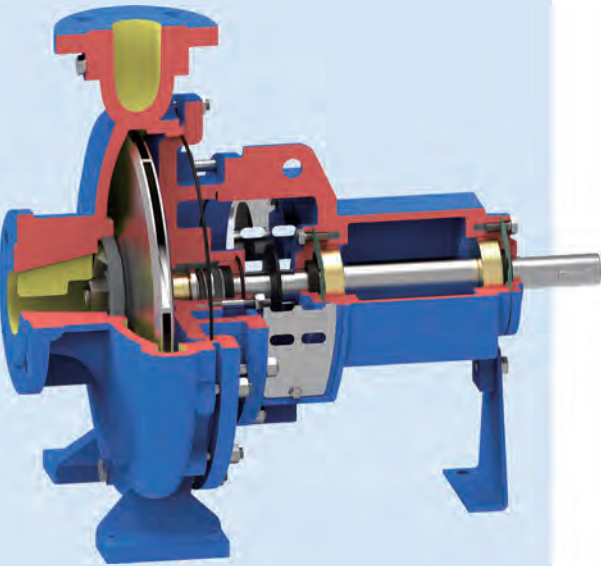
Flange positioning: axial suction flange,
upwards radial discharge flange.

Casing seal:

Standard models are sealed using fibre

Motor power :

As standard, PA pumps are equipped with
IM B3 electric motors.
To determine the drive power, we recommend
the following safety margins :
Up to 4 kW : +25%
from 4 to 7.5 kW : +20%
above 7.5 kW : +15%



Model Designation(Examples): PA 50-32G

PA	50	32	G
Pump Series	Discharge(mm)	Impeller Norminal Diameter(cm)	Special Code G: Bigger shaft

Design Specification

Casing:

Open on drive side to enable the mechanical as-
sembly to be dismantled from behind. Mounting
feet under the volute casing. Axial suction, radial
discharge upwards.
Flanges manufactured to standard NFE 29201
(DIN 2533). PN16.
Cast iron or Stainless Steel SUS304/316 as standard.
Duplex Stainless Steel 2205 or 2507 can require

Casing cover

Mounted between the casing and the bearing
housing and equipped with housing to receive
the mechanical or gland packing shaft seal.

Bearings

Monobloc, oversized (to standard ISO 5199) and
supported by a support foot. Grease-lubricated
deep-groove ball bearings guide the motor
shaft. A centrifugal deflector prevents the lea-
king of liquid.

Shaft

oversized (to standard ISO 5199) for longer me-
chanical-seal service life. Shaft sleeve.

Impeller

Cast iron or Stainless Steel SUS304 as standard.
High-efficiency closed radial impeller with back
seal and balance holes. Adapted trimmed on
request to comply with the Q/H required for the
application.

Shaft seal

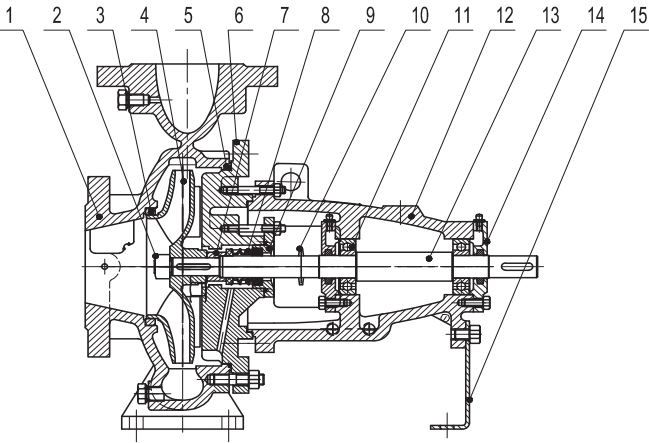
Single standardised mechanical seal adapted
to the liquid being pumped. No servicing requi-
red during operation. stuffing box possible on
request.

Coupling

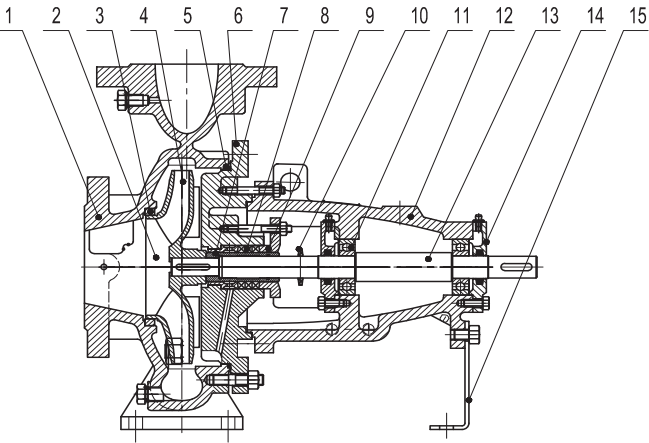
Standard, semi-elastic coupling. Can be fitted
with a spacer coupling on request.

Sectional Drawing-3 Shaft Seal

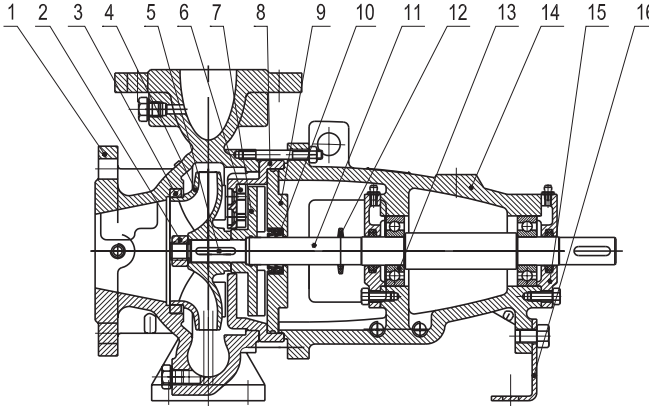
PA pump with Single mechanical seal



PA pump with Gland Packing



PD Pump with Dynamic Seal



Pump with Single mechanical seal

S/N	Part Name
1	Pump Casing
2	Impeller Nut
3	Wear Ring
4	Impeller
5	O-Ring
6	Casing Cover
7	Shaft spacer
8	Mechanical Seal
9	Seal Gland
10	Thrower
11	Bearing
12	Bearing Housing
13	Shaft
14	Bearing Cover
15	Support Foot

Pump with Gland Packing

S/N	Part Name
1	Pump Casing
2	Impeller Nut
3	Wear Ring
4	Impeller
5	O-Ring
6	Casing Cover
7	Shaft Sleeve
8	Gland Packing
9	Packing Gland
10	Thrower
11	Bearing
12	Bearing Housing
13	Shaft
14	Bearing Cover
15	Support Foot

Pump with Dynamic Seal

S/N	Part Name
1	Pump Casing
2	Impeller Nut
3	Wear Ring
4	Impeller
5	Impeller Key
6	casing cover block
7	Vice impeller
8	Casing Cover
9	seal block plate
10	Seal Ring
11	Shaft
12	Thrower
13	Bearing
14	Bearing Housing
15	Bearing Cover
16	Support Foot

Intalling Dimension

Drive Shaft Dimensions

Bearing housing	ød	l	u	t
25/25A	24	50	8	27
35	32	80	10	35
45	42	110	12	45
55	48	110	14	51

Key dimensions are nominal.

Standard Flange Connecting Dimension(ISO 2084,PN16),Option ANSI 150, JIS10K

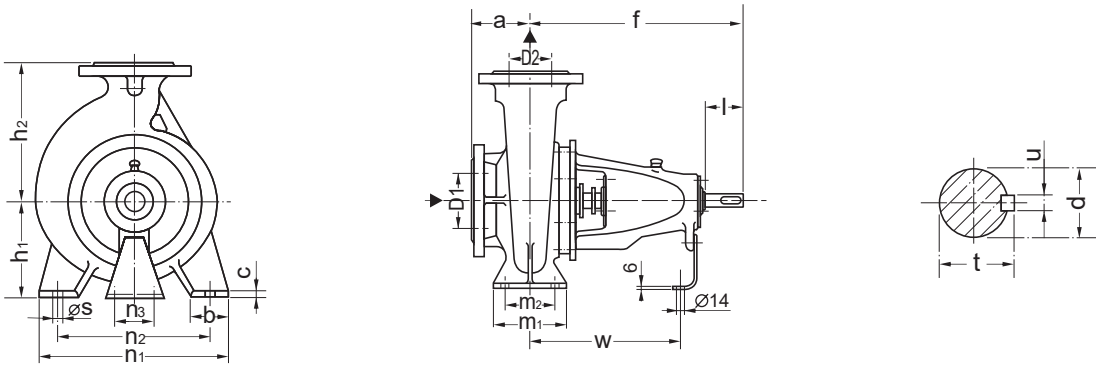
DN	ød	øk	ØD	n	øS
32	73	100	140	4	18
40	83	110	150	4	18
50	98	125	165	4	18
65	118	145	185	4	18
80	133	160	200	8	18
100	153	180	220	8	18
125	183	210	250	8	18
150	209	240	285	8	22
200	264	295	340	12	22
250	320	355	405	12	26
300	375	410	460	12	26

Service Connections

Pump Model	A Casing Drain	B Housing Drain	D Gauge Drain	S Gauge Drain
32-13	1/4	1/4	1/4	1/4
32-16	1/4	1/4	1/4	1/4
32-20	1/4	1/4	1/4	1/4
32-26	1/4	1/4	1/4	1/4
40-13	1/4	1/4	1/4	1/4
40-16	1/4	1/4	1/4	1/4
40-20	1/4	1/4	1/4	1/4
40-26	1/4	1/4	1/4	1/4
40-32	1/4	1/4	1/4	1/4
40-32G	1/4	1/4	1/4	1/4
50-13	1/4	1/4	1/4	1/4
50-16	1/4	1/4	1/4	1/4
50-20	1/4	1/4	1/4	1/4
50-26	1/4	1/4	1/4	1/4
50-26G	1/4	1/4	1/4	1/4
50-32	1/4	1/4	1/4	1/4
50-32G	1/4	1/4	1/4	1/4
65-13	1/4	1/4	1/4	1/4
65-16	1/4	1/4	1/4	1/4
65-20	1/4	1/4	1/4	1/4
65-20G	1/4	1/4	1/4	1/4
65-26	1/4	1/4	1/4	1/4
65-32	1/4	1/4	1/4	1/4
65-32G	1/4	1/4	1/4	1/4
80-16	1/4	1/4	1/4	1/4

Pump Model	A Casing Drain	B Housing Drain	D Gauge Drain	S Gauge Drain
80-20	1/4	1/4	1/4	1/4
80-26	1/4	1/4	1/4	1/4
80-32	1/4	1/4	1/4	1/4
80-32G	1/4	1/4	1/4	1/4
80-40	1/4	1/4	1/4	1/4
100-16	3/8	1/4	1/4	1/4
100-20	3/8	1/4	1/4	1/4
100-26	3/8	1/4	1/4	1/4
100-26G	3/8	1/4	1/4	1/4
100-32	3/8	1/4	1/4	1/4
100-32G	3/8	1/4	1/4	1/4
100-40	3/8	1/4	1/4	1/4
125-20	3/8	1/4	1/4	1/4
125-26	3/8	1/4	1/4	1/4
125-32	3/8	1/4	1/4	1/4
125-40	3/8	1/4	1/4	1/4
150-20	3/8	1/4	1/4	1/4
150-26	3/8	1/4	1/4	1/4
150-32	3/8	1/4	1/4	1/4
150-40	3/8	1/4	1/4	1/4
200-26	3/8	1/4	1/4	1/4
200-32	3/8	1/4	1/4	1/4
200-40	3/8	1/4	1/4	1/4
250-32	3/8	1/4	1/4	1/4
250-40	3/8	1/4	1/4	1/4

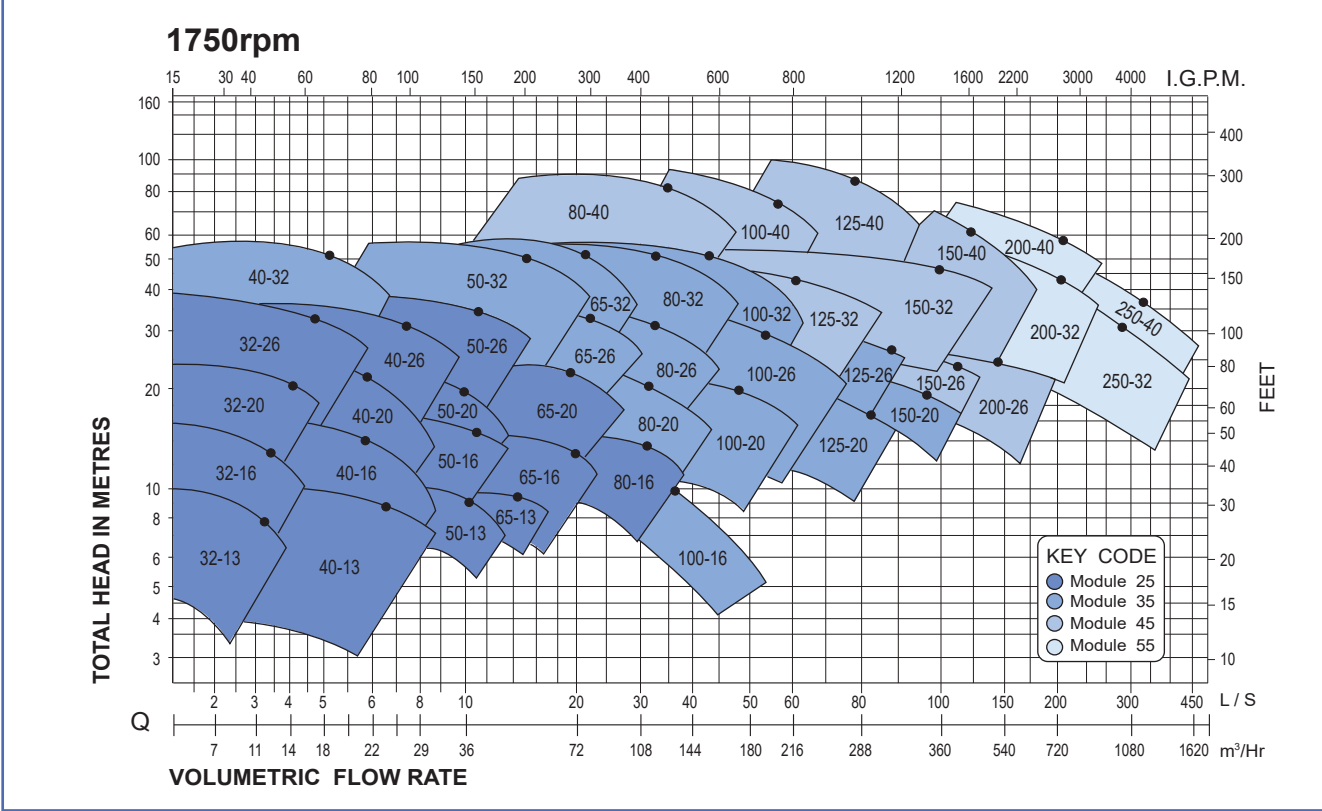
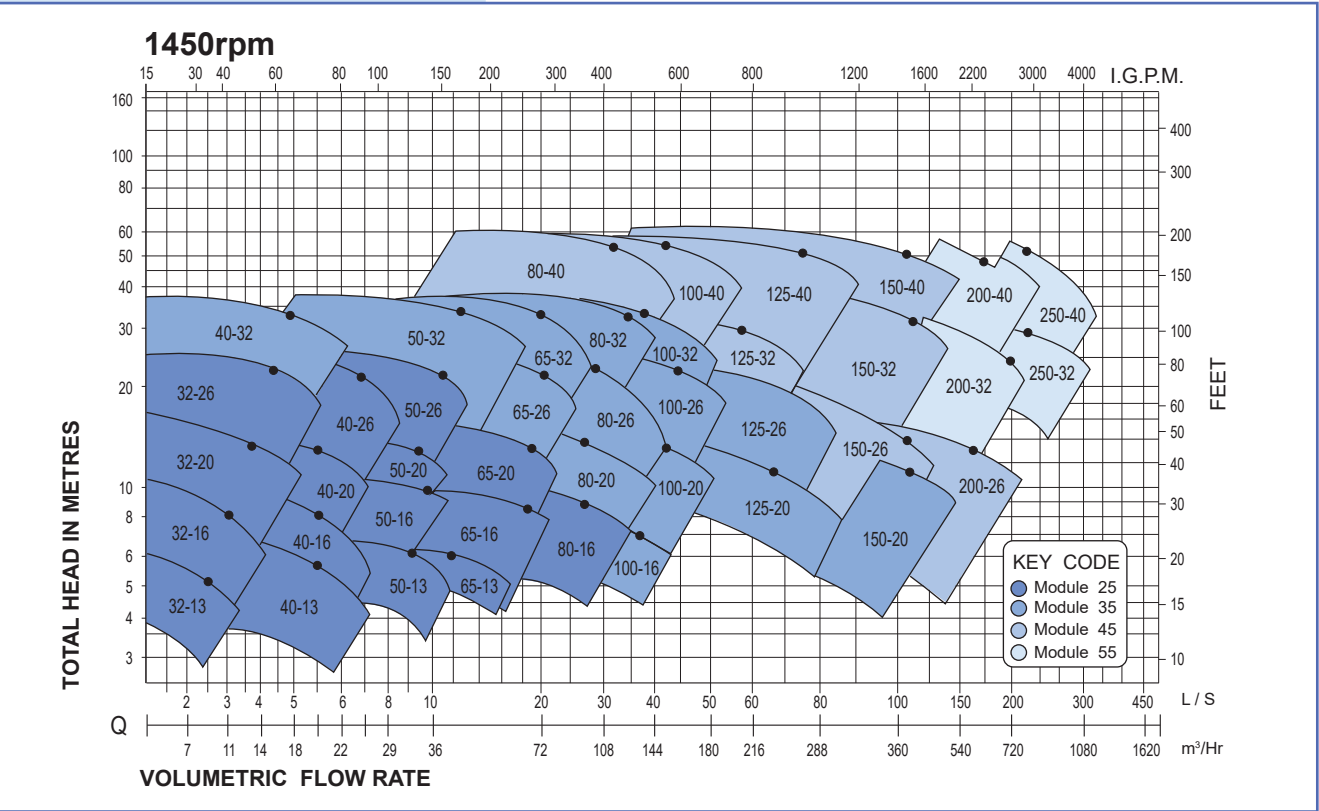
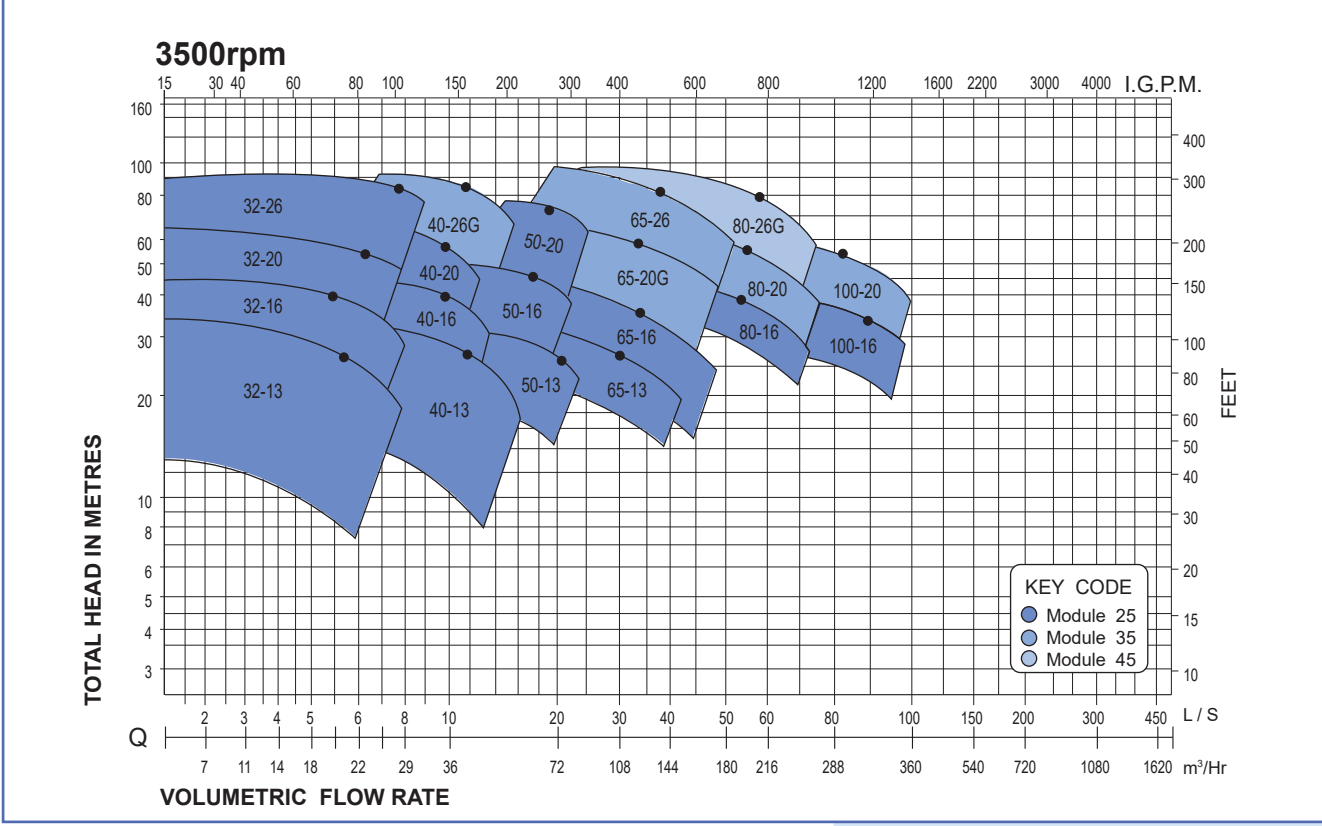
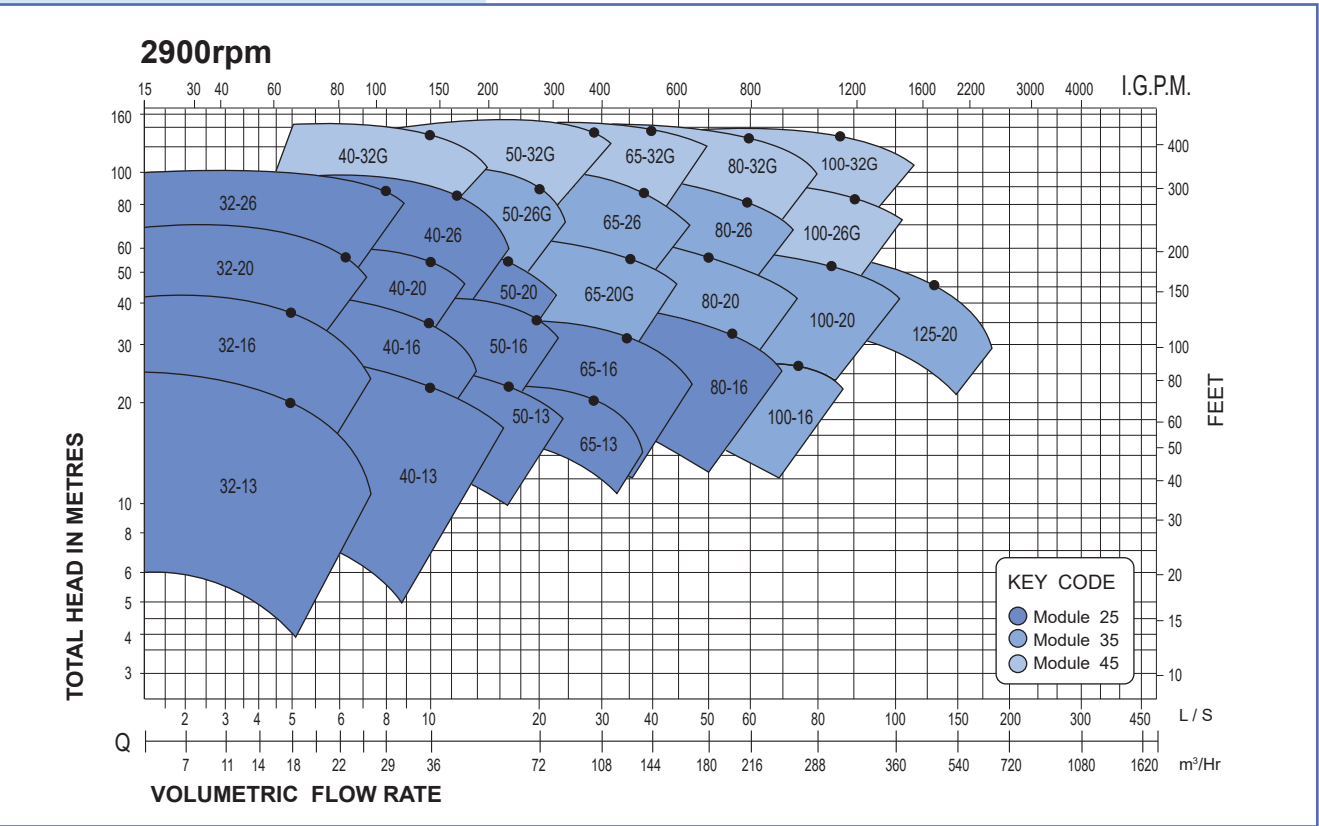
Dimensions-Bare Shaft Pump



Pump Model	Bearing housing	Pump Dimension								Foot Dimension							Shaft End				Net W.G
		D2	D1	a	f	h1	h2	b	c	m1	m2	n1	n2	n3	s	w	d	l	t	u	
32-13	25	32	50	80	360	112	140	50	14	100	70	190	140	100	14	267	24	50	27	8	30
32-16	25A	32	50	80	360	132	160	50	14	100	70	240	190	100	14	267	24	50	27	8	35
32-20	25	32	50	80	360	160	180	50	14	100	70	240	190	110	14	267	24	50	27	8	47
32-26	25A	32	50	100	360	180	225	65	14	125	95	320	250	110	14	267	24	50	27	8	60
40-13	25	40	65	80	360	112	140	50	14	100	70	210	160	100	14	267	24	50	27	8	31
40-16	25A	40	65	80	360	132	160	50	14	100	70	240	190	100	14	267	24	50	27	8	37
40-20	25	40	65	100	360	160	180	50	14	100	70	265	212	110	14	267	24	50	27	8	48
40-26	25A	40	65	100	360	180	225	65	14	125	95	320	250	110	14	267	24	50	27	8	61
40-32	35	40	65	125	470	200	250	65	14	125	95	345	280	110	14	342	32	80	35	10	100
40-32G	45	40	65	125	526	200	250	65	14	125	95	345	280	110	14	367	42	110	45	12	115
50-13	25	50	65	100	360	132	160	50	14	100	70	240	190	100	14	267	24	50	27	8	35
50-16	25A	50	65	100	360	160	180	50	14	100	70	265	212	110	14	267	24	50	27	8	40
50-20	25	50	65	100	360	160	200	50	14	100	70	265	212	110	14	267	24	50	27	8	50
50-26	25A	50	65	100	360	180	225	65	14	125	95	320	250	110	14	267	24	50	27	8	68
50-26G	35	50	65	100	470	180	225	65	14	125	95	320	250	110	14	344	32	80	35	10	80
50-32	35	50	65	125	470	225	280	65	18	125	95	345	280	110	14	342	32	80	35	10	102
50-32G	45	50	65	125	526	225	280	65	18	125	95	345	280	110	14	367	42	110	45	12	120
65-13	25	65	80	100	360	160	180	65	14	125	95	280	212	110	14	267	24	50	27	8	41
65-16	25A	65	80	100	360	160	200	65	14	125	95	280	212	110	14	267	24	50	27	8	47
65-20	25	65	80	105	360	180	225	65	14	125	95	320	250	110	14	267	24	50	27	8	55
65-20G	35	65	80	105	465	180	225	65	14	125	95	320	250	110	14	339	32	80	35	10	70
65-26	35	65	80	100	470	200	250	80	15	160	120	360	280	110	18	342	32	80	35	10	88
65-32	35	65	80	125	470	225	280	80	18	160	120	400	315	110	18	342	32	80	35	10	115
65-32G	45	65	80	125	526	225	280	80	18	160	120	400	315	110	18	367	42	110	45	12	130
80-16	25A	80	100	125	360	180	225	65	14	125	95	320	250	110	14	267	24	50	27	8	53
80-20	35	80	100	125	470	180	250	65	15	125	95	345	280	110	14	342	32	80	35	10	78
80-26	35	80	100	125	470	200	280	80	15	160	120	400	315	110	18	342	32	80	35	10	98
80-32	35	80	100	125	470	250	315	80	16	160	120	400	315	110	18	342	32	80	35	10	120
80-32G	45	80	100	125	526	250	315	80	16	160	120	400	315	110	18	367	42	110	45	12	140
80-40	45	80	100	125	530	280	355	83	18	160	120	440	340	110	18	370	42	110	45	12	169
100-16	35	100	125	125	470	200	250	80	15	160	120	360	280	110	18	342	32	80	35	10	87
100-20	35	100	125	125	470	200	280	80	16	160	120	360	280	110	18	342	32	80	35	10	85
100-26	35	100	125	140	470	225	280	80	16	160	120	400	315	110	18	342	32	80	35	10	105
100-26G	45	100	125	140	526	225	280	80	16	160	120	400	315	110	18	365	42	110	45	12	125
100-32	35	100	125	140	470	250	315	80	16	160	120	400	315	110	18	342	32	80	35	10	121
100-32G	45	100	125	140	526	250	315	80	16	160	120	400	315	110	18	367	42	110	45	12	145
100-40	45	100	125	140	530	280	355	100	20	200	150	500	400	110	23	370	42	110	45	12	176
125-20	35	125	150	145	470	250	315	80	16	160	120	400	315	110	18	342	32	80	35	10	112
125-26	35	125	150	140	470	250	355	80	16	160	120	400	315	110	18	342	32	80	35	10	117
125-32	45	125	150	140	530	280	355	100	18	200	150	500	400	110	23	370	42	110	45	12	160
125-40	45	125	150	160	530	315	400	100	18	200	150	500	400	110	23	370	42	110	45	12	193
150-20	35	150	200	160	497	280	400	100	18	200	150	400	315	110	23	367	32	80	35	10	133
150-26	45	150	200	160	530	250	355	100	18	200	150	450	350	110	23	370	42	110	45	12	163
150-32	45	150	200	160	530	280	400	100	18	200	150	550	450	110	23	370	42	110	45	12	180
150-40	45	150	200	160	530	315	450	100	18	200	150	550	450	110	23	370	42	110	45	12	215
200-26	45	200	250	180	555	315	450	100	20	200	150	550	450	110	28	392	42	110	45	12	226
200-32	55	200	250	180	670	315	480	120	20	220	170	600	480	110	28	505	48	110	51	14	280
200-40	55	200	250	180	670	335	480	120	20	220	170	600	480	110	28	505	48	110	51	14	338
250-32	55	250	300	220	691	355	520	150	26	250	200	660	510	110	28	525	48	110	51	14	370
250-40	55	250	300	220	682	400	560	150	26	250	200	660	510	110	28	516	48	110	51	14	400

Performance Chart (50Hz)

Performance Chart (60Hz)

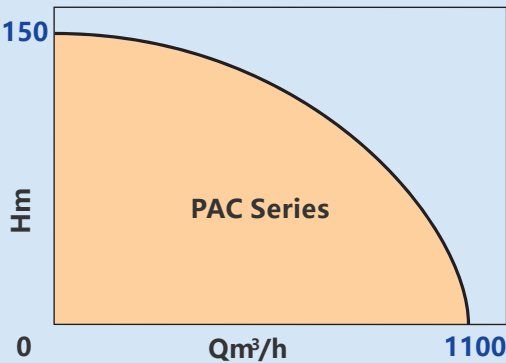


PAC pump is the premier solution for pumping clean thin liquids in a very cost-effective way. The pump is part of AMEGA Pump's Combi-system, amodular programme of Din24255/En 733 standard single stage centrifugal pumps with a high degree of interchangeability of parts between the PA series pump constructions

Operating Limits

Flow up to:	1100 m³/h
Head up to:	150 m
Temperature range:	-10 °C +105°C
Service pressure up to:	up to 16 bar*

* depending on model



Model Designation(Examples): PAC 65-16-7.5/2

PAC	65	16	7.5	2
Pump Series	Discharge(mm)	Impeller Nominal Diameter(cm)	Motor power (Kw)	Motor Speed (2Pole or 4Pole)

PAC series represents a range of horizontal centrifugal pumps close-coupled to IEC standard electric motors. The pump is suitable for handling low-viscosity, clean or slightly contaminated and aggressive liquids.

Characteristic of the PAC pump is the compact configuration of the pump and the electric motor assembly. The use of a stub shaft allows standard IEC electric motors to be used.

Thanks to the small number of components and the use of a mechanical seal, the PAC requires little maintenance. This is further supported by Back Pull Out of the rotating assembly.

The PAC has applications in crop farming and market gardening, on board ships and in handling various chemicals .

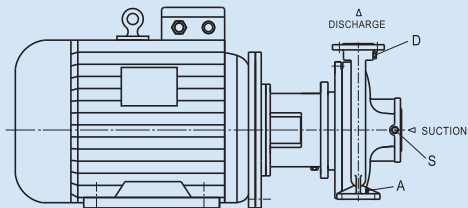
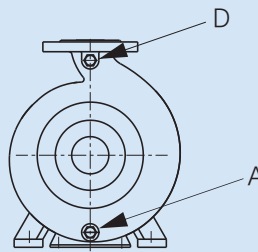
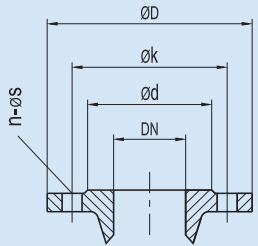
Drive Motor:
1.By customary IEC standard electric motors, type IM B 35 resp.
2.For the determination of the drive power we recommend the following additional power:
- up to 4 kW: 25 % ;
- 4 up to 7,5 kW: 20 % ;
- 7,5 up to 37 kW: 15 %
- Above 37kw : 10%
Please note: The max. motor power allowed for some construction sizes as shown in the individual curves

Flange Connecting Dimension(ISO 2084,PN16)

DN	ød	øk	ØD	n	øS
32	73	100	140	4	18
40	83	110	150	4	18
50	98	125	165	4	18
65	118	145	185	4	18
80	133	160	200	8	18
100	153	180	220	8	18
125	183	210	250	8	18
150	209	240	285	8	22
200	264	295	340	12	22
250	320	355	405	12	26
300	375	410	460	12	26

Service Connections

Pump Model	A	D	S
	Casing Drain	Gauge Drain	Gauge Drain
32-13	1/4	1/4	1/4
32-16	1/4	1/4	1/4
32-20	1/4	1/4	1/4
32-26	1/4	1/4	1/4
40-13	1/4	1/4	1/4
40-16	1/4	1/4	1/4
40-20	1/4	1/4	1/4
40-26	1/4	1/4	1/4
40-32	1/4	1/4	1/4
40-32G	1/4	1/4	1/4
50-13	1/4	1/4	1/4
50-16	1/4	1/4	1/4
50-20	1/4	1/4	1/4
50-26	1/4	1/4	1/4
50-26G	1/4	1/4	1/4
50-32	1/4	1/4	1/4
50-32G	1/4	1/4	1/4
65-13	1/4	1/4	1/4
65-16	1/4	1/4	1/4
65-20	1/4	1/4	1/4
65-20G	1/4	1/4	1/4
65-26	1/4	1/4	1/4
65-32	1/4	1/4	1/4
65-32G	1/4	1/4	1/4
80-16	1/4	1/4	1/4
80-20	1/4	1/4	1/4
80-26	1/4	1/4	1/4
80-32	1/4	1/4	1/4
80-32G	1/4	1/4	1/4
80-40	1/4	1/4	1/4
100-16	3/8	1/4	1/4
100-20	3/8	1/4	1/4
100-26	3/8	1/4	1/4
100-26G	3/8	1/4	1/4
100-32	3/8	1/4	1/4
100-32G	3/8	1/4	1/4
100-40	3/8	1/4	1/4
125-20	3/8	1/4	1/4
125-26	3/8	1/4	1/4
125-32	3/8	1/4	1/4
125-40	3/8	1/4	1/4
150-20	3/8	1/4	1/4
150-26	3/8	1/4	1/4
150-32	3/8	1/4	1/4
150-40	3/8	1/4	1/4
200-26	3/8	1/4	1/4
200-32	3/8	1/4	1/4
200-40	3/8	1/4	1/4
250-32	3/8	1/4	1/4
250-40	3/8	1/4	1/4



Features and benefits

Pump casing

- flanges according to ISO 7005
- max. working pressure 10 bar
- drain opening
- wide range of applications
- complete and fast draining of the casing

Pump cover

- O-ring seal, fully chambered
- machined fits
- perfectly aligned

Suction capabilities

- smooth suction entry in pump casing
- smooth surface
- anti rotation vane
- optimum suction capabilities
- minimal flow distortion giving better suction capabilities

Impeller locking

- impeller nut with lock washer
- reliable locking

Hydraulic balancing

- flat cover for hydraulic balancing
- back vanes for hydraulic balancing
- extended bearing life time

Foot

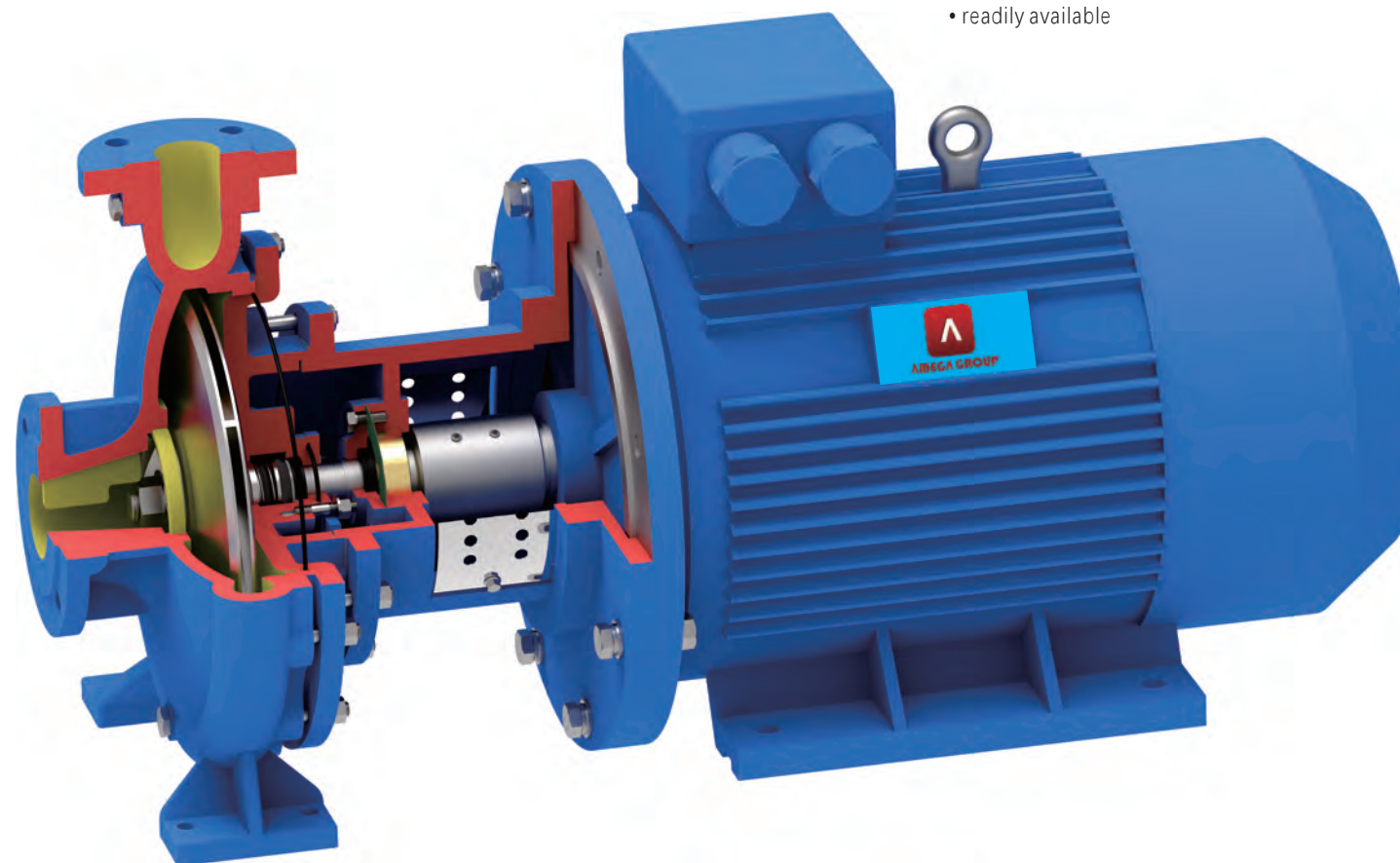
- machined foot
- exact positioning on base and in pipework

Materials

- pump casing: cast iron - stainless steel
- impeller: cast iron - stainless steel
- stub shaft: stainless steel
- Shaft seal: Single Mechanical seal

Electric motor

- standard IEC-B35 size mounted with foot-flange motor
- fixed bearings
- independance of motor make
- economic
- reliable
- readily available



Wear rings

Replaceable wear rings are fitted as standard to all casing and also casing cover on larger pumps which reduces maintenance and cost

Coupling guard

- consisting of 2 identical parts with snap fit
- Stainless steel
- quick and easy mounting
- for increased safety
- non sparking

Easy and low cost maintenance
- pump cover and lantern piece mounted to pump casing as one unit, no separate bolting

- quick and easy impeller replacement
- only 4 mechanical seal sizes
- changeable wear ring
- easy to disassemble pump cover
- economic maintenance
- extended pump life time

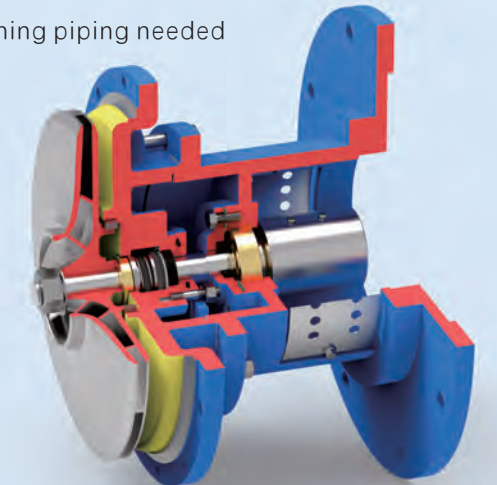
Lantern piece

- rigid cast iron construction
- machined fits
- large openings
- exact alignment
- easy access for inspection and service

Seal chamber / Mechanical Seal

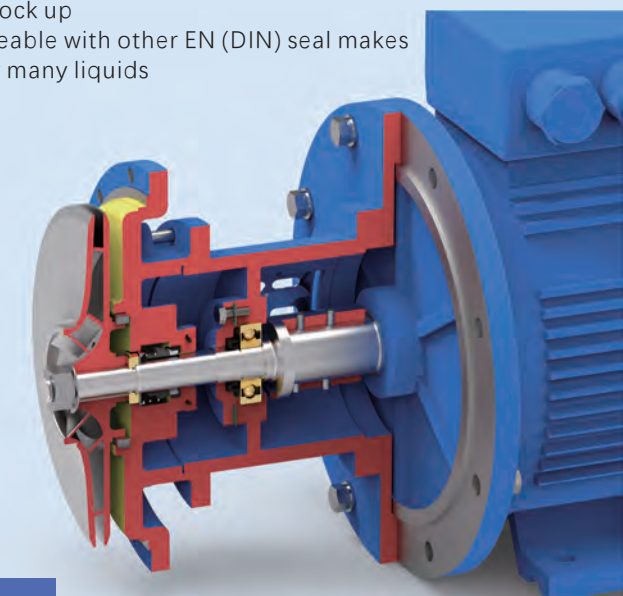
The standard pumps are fitted with single mechanical seal

- the casing cover which are only for mechanical seals have open chambers allowing more water to flush mechanical seal.
- no external flushing piping needed



Shaft sealing

- mechanical bellows seal according to EN 12756 (DIN 24960 L_{1k})
- several material combinations
- no O-ring lock up
- interchangeable with other EN (DIN) seal makes
- suitable for many liquids

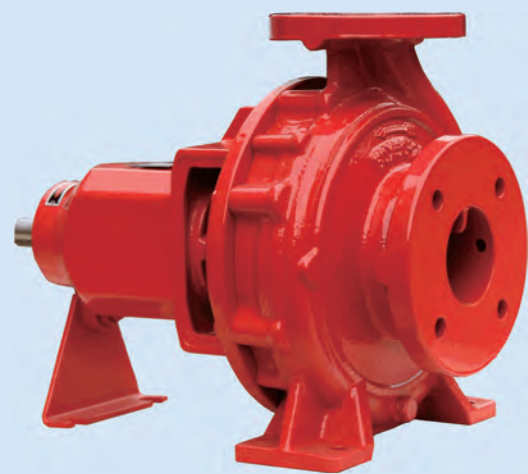


Stub shaft

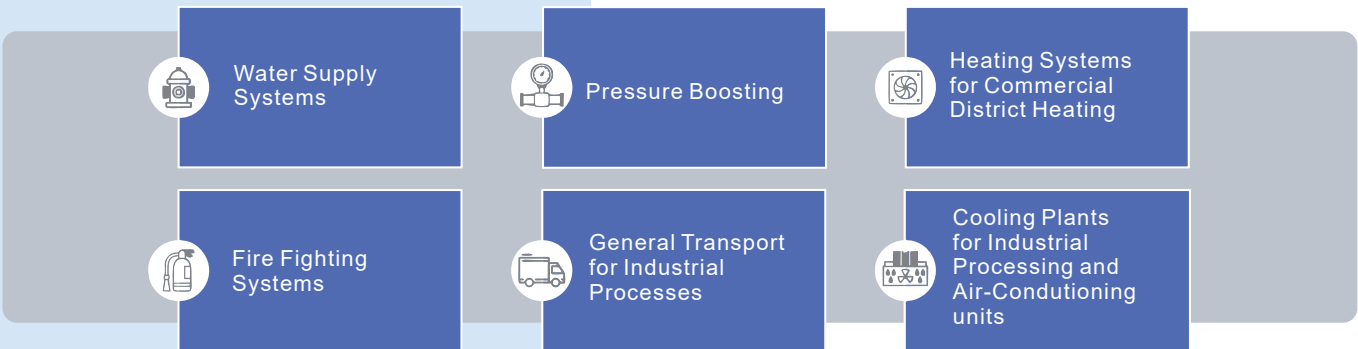
- stainless steel
- fits to IEC electric motors
- axial fixation with set screws
- 4 shaft diameters
- no shaft sleeve needed
- easy impeller replacement
- adjustable axial impeller position
- low maintenance cost

Design & Features

PISO design is in accordance with international standards of ISO2858/5199, which means **PISO** Series pumps are interchangeable with other similar pumps, conforming to the same standards. This ensures a robust, long lasting, high performing product consumers can come to depend on from Preeminence.



Applications



Model Designation(Examples): PISO 300X250-500

PISO	300	250	500
Series	Suction(mm)	Discharge(mm)	Impeller Normal Diameter(mm)

Pump Casing

highly efficient cast iron volute casings, with flanges rated to PN1.6MPa (16bar), drilled to ISO7005.2 : 1988).

Enlarge Shaft

reduces shaft deflection.
Standard in 420SS, 304SS&316SS as an option.
Tapered & keyed shaft design allowing ease of removal in maintenance & positive locking whilst in operation

Bearings

Heavy duty NTN or approved equivalent, greased for life, reducing maintenance. Protected by a quality manufactured lip seal reducing ingress of moisture or foreign matter. Housed within removable bearing cap cover assembly

Bearing housing

Robust / heavy duty, manufactured in high strength cast iron providing trouble-free life complete with lifting provision and support foot.

Shaft seal

single, high quality John Crane or approved equivalent mechanical seal with carbon vs ceramic/viton fitted as standard to all **PISO** Series pumps with other options such as Silicone vs Silicone or high temp also available.

Wear Ring

Cast Iron wear rings - fitted as standard, replaceable front & rear wear rings with optional materials, for a trouble-free lifecycle.

Casing O-Ring

Re-usable o-rings in Nitrile for ease of re-assembly

Tappings

Convenient suction & discharge pressure gauge tappings plus volute drain, fitted as standard to all **PISO** Series pumps.

Painting

Prior to painting, the pump is thoroughly cleaned of foreign material. The pump is then painted with a high quality/ undercoat/ primer and industrial enamel paint.

Accessories

Drive

The pump is only recommended for direct drive via a flexible spacer coupling. Spacer couplings enable the utilization of the back pull out feature.

Where belt drives are necessary a separate jack (intermediate) shaft with bearings to carry the belt loads may be required.

All drive systems, where supplied by **PASON PUMP** are appropriately protected by suitable guards.

Pump Selection

For pump selection the hydraulic performance curves should be used. These curves are based on water at 15°C and SG equal to 1.0.

NPSH values are indicated on the performance curves. At least 0.5m should be added as a safety margin

To overcome variations between actual and design requirements it is recommended that the driver power exceeds the absorbed pump shaft power.

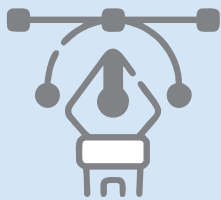
Absorbed Pump Shaft kW	Driver Power Reserve
up to 7.5	Approx. 20%
7.5~40	Approx. 15%
Above 40	Approx. 10%

Impeller

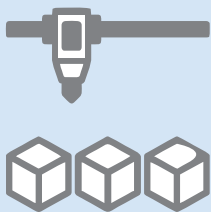
Cast Iron/SS304/SS316 impeller-fitted as standard, in a closed design is fitted as standard to prevent corrosion in stationary or inactive situations. The use of 3-D solid model (CAD) Computer Aided Design and (CFD) Computational Fluid Dynamics ensures high efficiencies, reducing overall running costs. Impeller diameters can be trimmed to suit specified performance. **PISO** impellers are dynamically balanced, providing smooth, vibration free operation, preventing premature bearing failure.

Back pull-out design - allowing for easy removal of rotating element without disturbing the pipework, lagging or pump volute casing. This is proven to reduce downtime whilst performing routine maintenance.

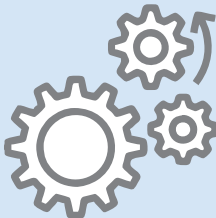
Design



Material



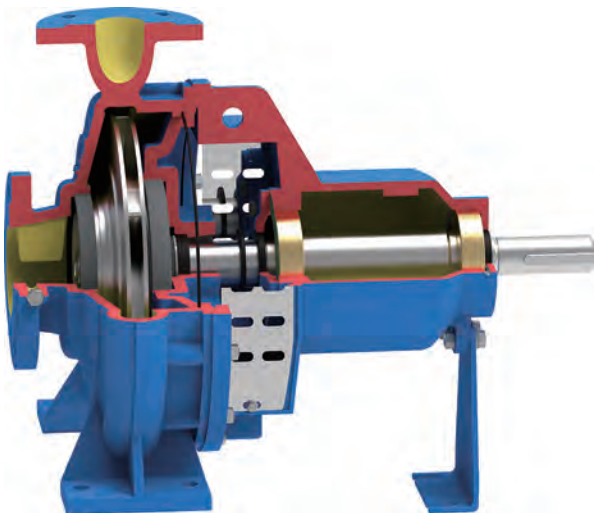
Operating Data



Design	Performance and dimension as per ISO 2858/5199
Structure	Horizontal ,End suction, Single suction,Volute casing
DN(mm)	Suction size: 50~350, Discharge size: 32~300
Flange	DIN 2501,PN16

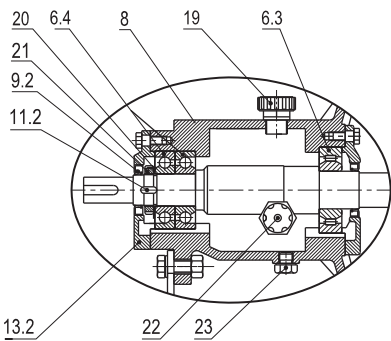
Pump parts	Material
Casing / Impeller	Cast iron/Stainless steel
Shaft	Stainless steel
Shaft seal	Mechanical Seal
Bearing lubrication	Grease Life
Bearing Brand	NTN

Speed	Up to 3600rpm
Flow Rate(Q)	Up to 1900m3/h-1450rpm 2430m3/h-1750rpm
Head(H)	Up to 160m
Pressure	PN16 as standard
Liquid Temperature	Up to 105°C

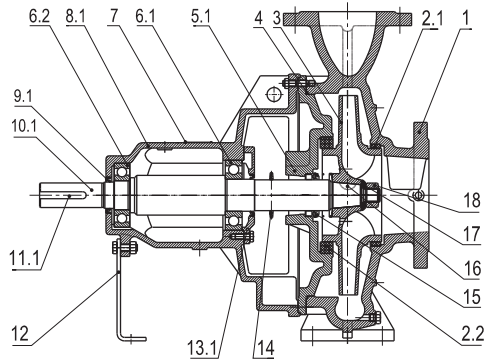


Section Drawing

Optional-Heavy Duty

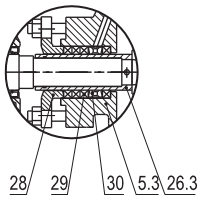


Standard - - Single seal

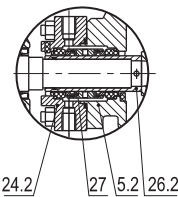


Optional

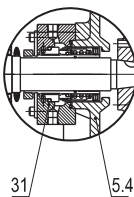
Packing Seal



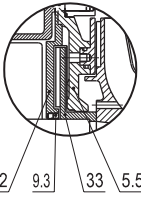
Double Seal



Cartridge Seal



Dynamic Seal



S/N	Part Name
1	Pump Casing
2.1/2.2	Wear Ring
3	Impeller
4	O-Ring
5.1	Casing Cover
5.2	Casing Cover (Double Mech seal)
5.3	Casing Cover (Gland Packing)
5.4	Casing Cover (Cartridge seal)
5.5	Casing Cover (Dynamic seal)
6.1/6.2	Deep groove ball bearing
6.3	Cylindrical roller bearing
6.4	Angular contact ball bearing
7	Nameplate
8/8.1	Bearing Housing
9	Oil Seal
10	Shaft
11	Impeller Key
12	Support Foot
13	Bearing cover
14	Slinger

S/N	Part Name
15	Single mechanical seal
16	Woodruff key
17	Impeller Washer
18	Impeller Nut
19	Oil hole cover
20	Tab washer
21	Nut
22	Oil indicator
23	Drain plug
24.2	Seal Gland
26.2	Mech.shaft sleeve
26.3	Packing. Shaft Sleeve
27	Double mechanical seal
28	Packing Gland
29	Gland Packing
30	Lantern Ring
31	Cartridge seal
32	Seal plate
33	Vice impeller

Intalling Dimensions-1

Drive Shaft Dimensions

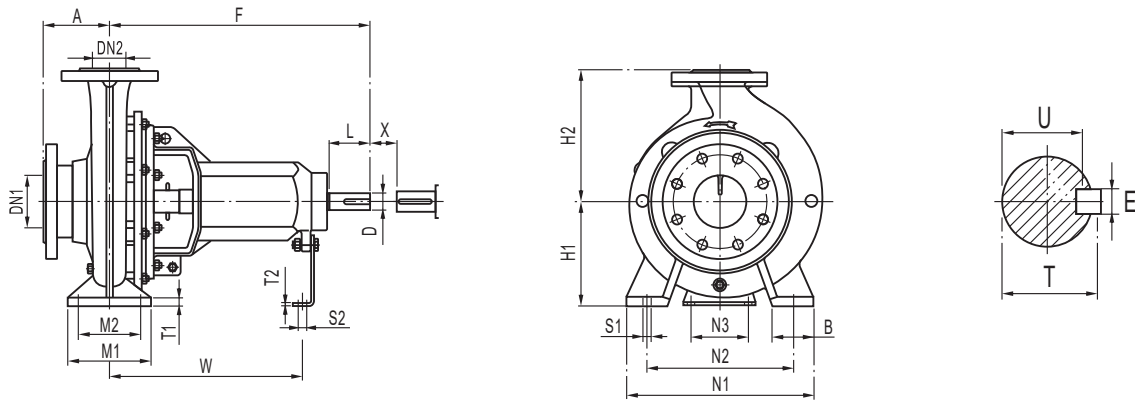
Shaft No	ød	l	u	t
1	24	50	8	27
2	32	80	10	35
3	42	110	12	45
4	48	110	14	51.5
5	65	140	18	69
6	75	170	20	79.5

Flange Connecting Dimension(ISO 2084,PN16)

DN	ød	øk	ØD	n	øS
32	76	100	140	4	18
40	84	110	150	4	18
50	99	125	165	4	18
65	118	145	185	4	18
80	132	160	200	8	18
100	156	180	220	8	18
125	184	210	250	8	18
150	211	240	285	8	22
200	266	295	340	12	22
250	319	355	405	12	26
300	370	410	460	12	26
350	429	470	520	16	26

Notes: 1. Optional Flange: AS2129-1982, ANSI 16.1-1975, JISB 2210-1984

Intalling Dimensions-2



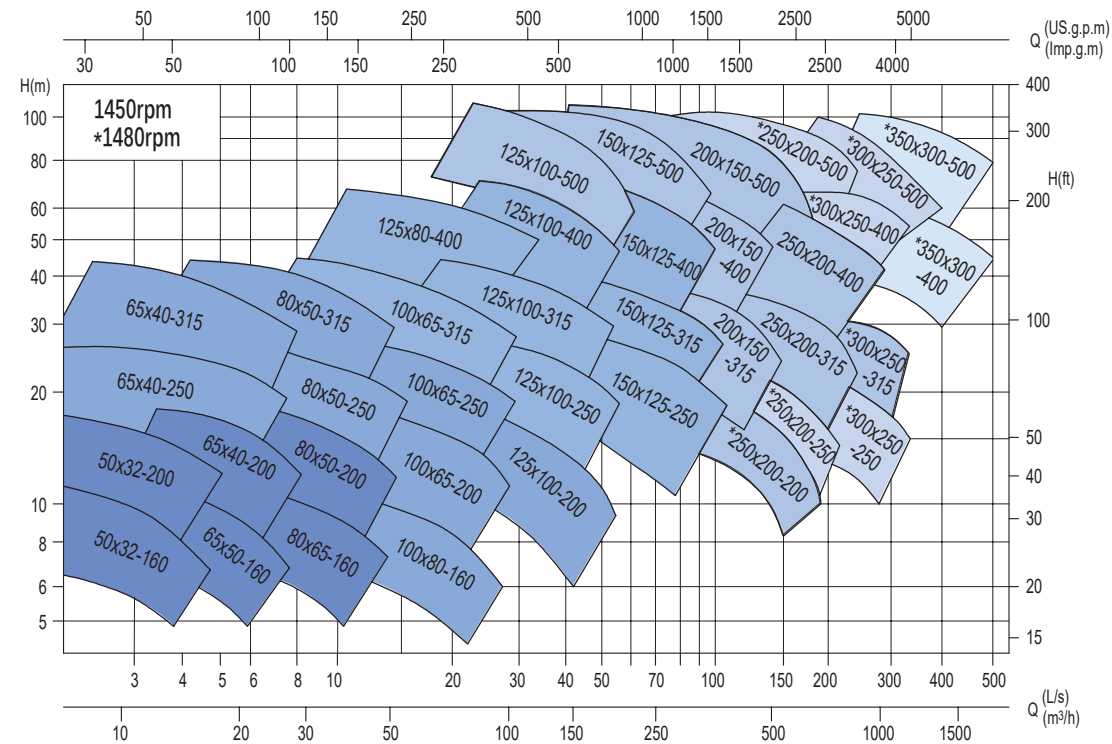
Pump Model	Shaft No.	Flange Size		Pump Dimensions				Foot Dimensions										Bolt Holes		Shaft End						Spacer	Net. Weight
		DN1	DN2	A	F	H1	H2	B	M1	M2	N1	N2	N3	W	T1	T2	S1	S2	D	L	T	E	U	X ≥			
50X32-160	1	50	32	80	385	132	160	50	100	70	240	190	110	285	12	6	M12	M12	24	50	27	8	20	100	38		
50X32-200	1	50	32	80	385	160	180	50	100	70	240	190	110	285	12	6	M12	M12	24	50	27	8	20	100	46		
65X40-200	1	65	40	100	385	160	180	50	100	70	265	212	110	285	13	6	M12	M12	24	50	27	8	20	100	48		
65X40-250	2	65	40	100	500	180	225	65	125	95	320	250	110	370	14	6	M12	M12	32	80	35	10	27	100	70		
65X40-315	2	65	40	125	500	200	250	65	125	95	345	280	110	370	16	6	M12	M12	32	80	35	10	27	100	80		
65X50-160	1	65	50	80	385	132	160	50	100	70	240	190	110	285	11	6	M12	M12	24	50	27	8	20	100	40		
80X50-200	1	80	50	100	385	160	200	50	100	70	265	212	110	285	13	6	M12	M12	24	50	27	8	20	100	52		
80X50-250	2	80	50	125	500	180	225	65	125	95	320	250	110	370	15	6	M12	M12	32	80	35	10	27	100	72		
80X50-315	2	80	50	125	500	225	280	65	125	95	345	280	110	370	18	6	M12	M12	32	80	35	10	27	100	87		
80X65-160	1	80	65	100	385	160	180	50	100	70	265	212	110	285	11	6	M12	M12	24	50	27	8	20	100	46		
100X65-200	2	100	65	100	500	180	225	65	125	95	320	250	110	370	14	6	M12	M12	32	80	35	10	27	140	70		
100X65-250	2	100	65	125	500	200	250	80	160	120	360	280	110	370	16	6	M16	M12	32	80	35	10	27	140	80		
100X65-315	3	100	65	125	530	225	280	80	160	120	400	315	110	370	18	6	M16	M12	42	110	45	12	37	140	142		
100X80-160	2	100	80	100	500	160	200	65	125	95	280	212	110	370	14	6	M12	M12	32	80	35	10	27	100	68		
125X80-400	3	125	80	125	530	280	355	80	160	120	435	355	110	370	20	6	M16	M12	42	110	45	12	37	140	165		
125X100-200	2	125	100	125	500	200	280	80	160	120	360	280	110	370	17	6	M16	M12	32	80	35	10	27	140	85		
125X100-250	3	125	100	140	530	225	280	80	160	120	400	315	110	370	18	6	M16	M12	42	110	45	12	37	140	126		
125X100-315	3	125	100	140	530	250	315	80	160	120	400	315	110	370	19	6	M16	M12	42	110	45	12	37	140	135		
125X100-400	3	125	100	140	530	280	355	100	200	150	500	400	110	370	20	6	M20	M12	42	110	45	12	37	140	175		
125X100-500	4	125	100	160	670	355	450	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	338		
150X125-250	3	150	125	140	530	250	355	80	160	120	400	315	110	370	19	6	M16	M12	42	110	45	12	37	140	140		
150X125-315	3	150	125	140	530	280	355	100	200	150	500	400	110	370	20	6	M20	M12	42	110	45	12	37	140	150		
150X125-400	3	150	125	140	530	315	400	100	200	150	500	400	110	370	21	6	M20	M12	42	110	45	12	37	140	186		
150X125-500	4	150	125	160	670	355	450	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	350		
200X150-315	4	200	150	160	670	315	400	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	222		
200X150-400	4	200	150	160	670	315	450	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	300		
200X150-500	4	200	150	160	670	400	500	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	382		
250X200-200	4	250	200	180	670	315	450	100	200	150	550	450	140	500	22	10	M20	M16	48	110	51.5	14	42.5	180	345		
250X200-250	5	250	200	180	885	315	450	100	200	150	550	450	180	670	25	12	M24	M16	65	140	69	18	58	250	490		
250X200-315	4	250	200	180	670	315	450	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	277		
250X200-400	4	250	200	180	670	355	500	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	380		
250X200-500	5	250	200	225	885	400	580	150	315	250	760	630	180	670	28	12	M24	M16	65	140	69	18	58	250	600		
300X250-250	5	300	250	225	885	355	560	125	250	190	630	500	180	670	24	12	M24	M16	65	140	69	18	58	250	450		
300X250-315	4	300	250	225	670	355	500	125	250	190	690	560	180	500	24	12	M20	M16	48	110	51.5	14	42.5	180	350		
300X250-400	5	300	250	225	885	450	560	150	250	190	690	560	180	670	28	12	M24	M16	65	140	69	18	58	250	603		
300X250-500	5	300	250	225	885	450	630	150	315	250	760	630	180	670	28	12	M24	M16	65	140	69	18	58	250	690		
350X300-400	6	350	300	250	975	450	600	180	315	250	760	630	180	730	24	12	M24	M16	75	170	79.5	20	67.5	250	780		
350X300-500	6	350	300	250	975	500	650	225	360	270	900	750	180	730	32	12	M30	M16	75	170	79.5	20	67.5	250	910		

Service Connections

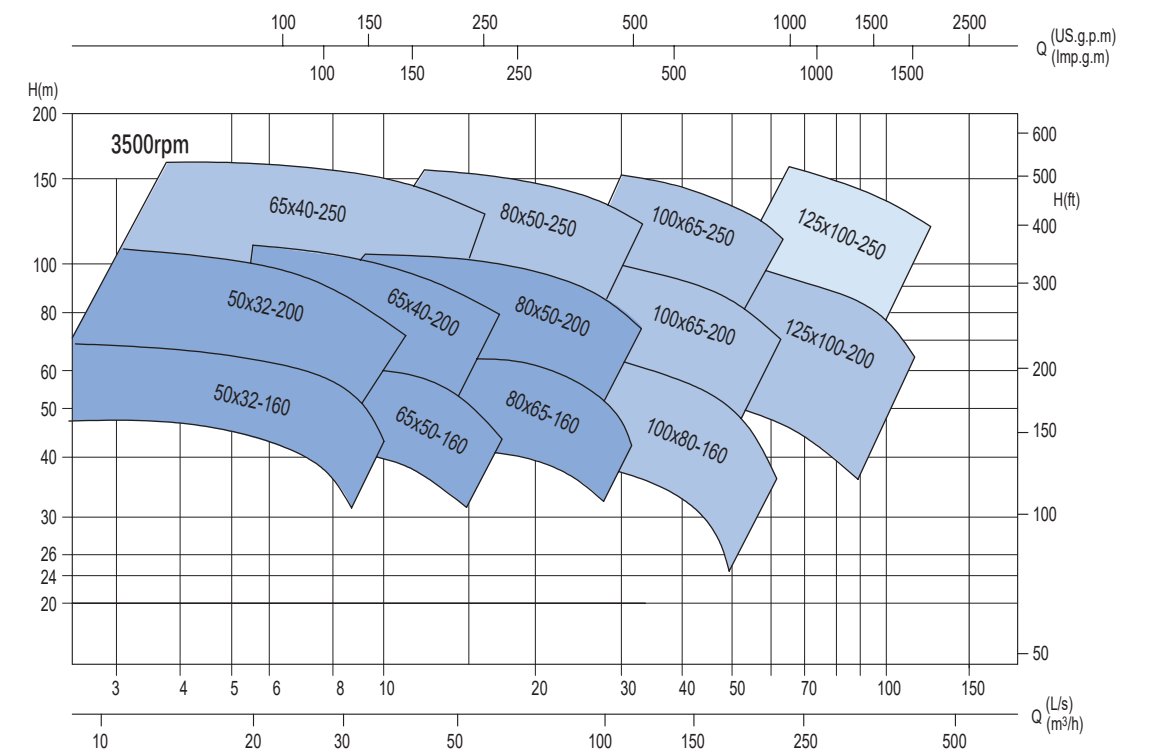
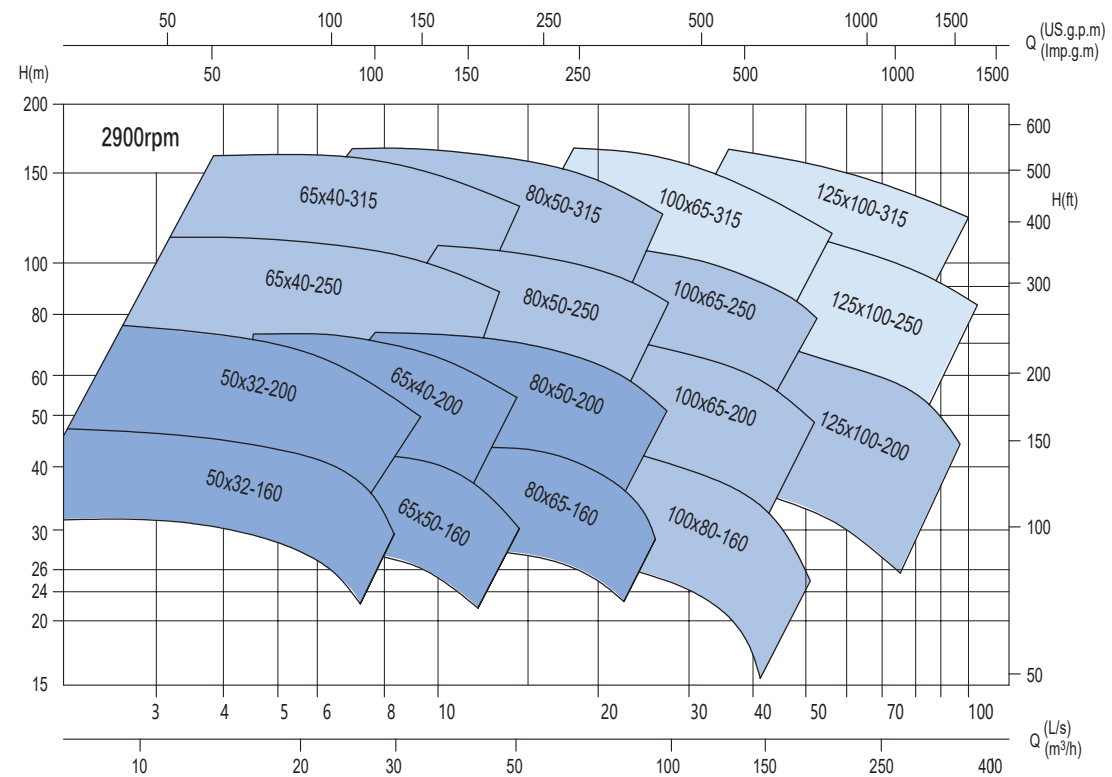
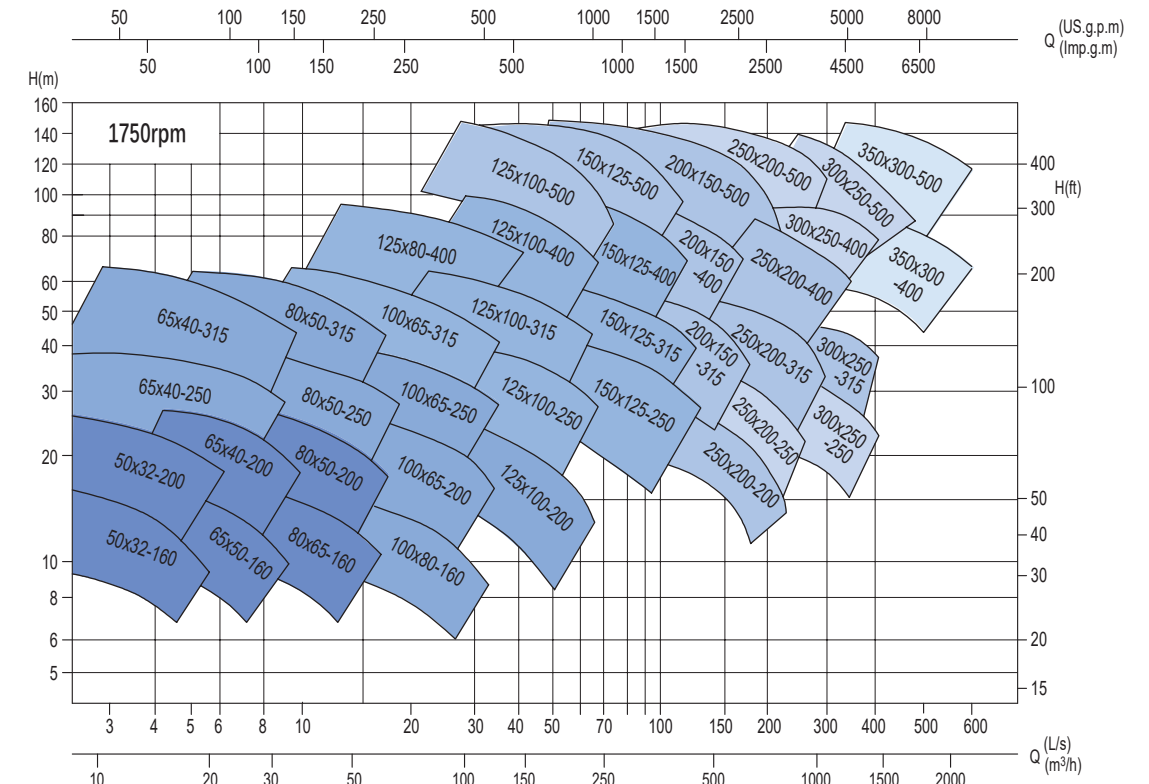
Pump Model	A	B	D	S
	Casing Drain	Housing Drain	Gauge Drain	Gauge Drain
50X32-160	1/4	3/8	1/4	1/4
50X32-200	1/4	3/8	1/4	1/4
65X40-200	1/4	3/8	1/4	1/4
65X40-250	1/4	3/8	1/4	1/4
65X40-315	1/4	3/8	1/4	1/4
65X50-160	1/4	3/8	1/4	1/4
80X50-200	1/4	3/8	1/4	1/4
80X50-250	1/4	3/8	1/4	1/4
80X50-315	1/4	3/8	1/4	1/4
80X65-160	1/4	3/8	1/4	1/4
100X65-200	1/4	3/8	1/4	1/4
100X65-250	1/4	3/8	1/4	1/4
100X65-315	1/4	3/8	1/4	1/4
100X80-160	1/4	3/8	1/4	1/4
125X80-400	1/4	3/8	1/4	1/4
125X100-200	1/4	3/8	1/4	1/4
125X100-250	1/4	3/8	1/4	1/4
125X100-315	1/4	3/8	1/4	1/4
125X100-400	1/4	3/8	1/4	1/4

Pump Model	A	B	D	S
	Casing Drain	Housing Drain	Gauge Drain	Gauge Drain
125X100-500	3/8	3/8	3/8	3/8
150X125-250	1/4	3/8	1/4	1/4
150X125-315	1/4	3/8	1/4	1/4
150X125-400	1/4	3/8	1/4	1/4
150X125-500	3/8	3/8	3/8	3/8
200X150-315	3/8	3/8	3/8	3/8
200X150-400	3/8	3/8	3/8	3/8
200X150-500	3/8	3/8	3/8	1/4
250X200-200	3/8	3/8	3/8	3/8
250X200-250	1/2	3/8	1/2	1/2
250X200-315	3/8	3/8	3/8	3/8
250X200-400	3/8	3/8	3/8	3/8
250X200-500	1/2	3/8	1/2	1/2
300X250-250	1/2	3/8	1/2	1/2
300X250-315	3/8	3/8	3/8	3/8
300X250-400	1/2	3/8	1/2	1/2
300X250-500	1/2	3/8	1/2	1/2
350X300-400	1/2	3/8	1/2	1/2
350X300-500	1/2	3/8	1/2	1/2

Performance Chart (50Hz)



Performance Chart (60Hz)





Design & Features

PCC design is in accordance with international standards of ISO5199/2858, EN 25199/22858, DIN24256, which means **PCC** Series pumps are interchangeable with other similar pumps, conforming to the same standards. This ensures a robust, long lasting, high performing product consumers can come to depend on from Preeminence.



Applications



Chemical and Petrochemical Industry



Oil refining plants



Paper making industry



Sugar Industry



Waste Water Treatment



Pharmaceutical Food Industry

Model Designation(Examples): PCC 125X100-315

PCC

Series

125

Suction(mm)

100

Discharge(mm)

315

Impeller Nominal Diameter(mm)

Design

Performance and dimension as per ISO 2858/5199

Structure

Horizontal ,End suction, Single suction,Volute casing

DN(mm)

Suction size: 50~350, Discharge size: 32~300

Flange

DIN 2501,PN16

Pump parts

Material

Casing / Impeller

Stainless steel 304/316/316L/2205/2507

Shaft

Stainless steel

Shaft seal

Mechanical Seal

Bearing lubrication

Grease life,Grease, Oil lubrication

Bearing Brand

NTN

Speed

Up to 3600rpm

Flow Rate(Q)

Up to 1900m³/h-1450rpm
2430m³/h-1750rpm

Head(H)

Up to 160m

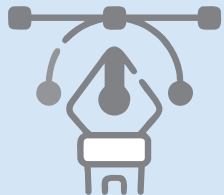
Pressure

Up to PN24

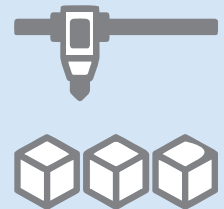
Liquid Temperature

Up to 120 °C

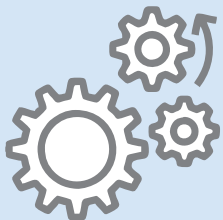
Design



Material



Operating Data



Intalling Dimensions-1

Drive Shaft Dimensions

Shaft No	ød	l	u	t
1	24	50	8	27
2	32	80	10	35
3	42	110	12	45
4	48	110	14	51.5
5	65	140	18	69
6	75	170	20	79.5

Flange Connecting Dimension(ISO 2084,PN16)

DN	ød	øk	ØD	n	øS
32	76	100	140	4	18
40	84	110	150	4	18
50	99	125	165	4	18
65	118	145	185	4	18
80	132	160	200	8	18
100	156	180	220	8	18
125	184	210	250	8	18
150	211	240	285	8	22
200	266	295	340	12	22
250	319	355	405	12	26
300	370	410	460	12	26
350	429	470	520	16	26

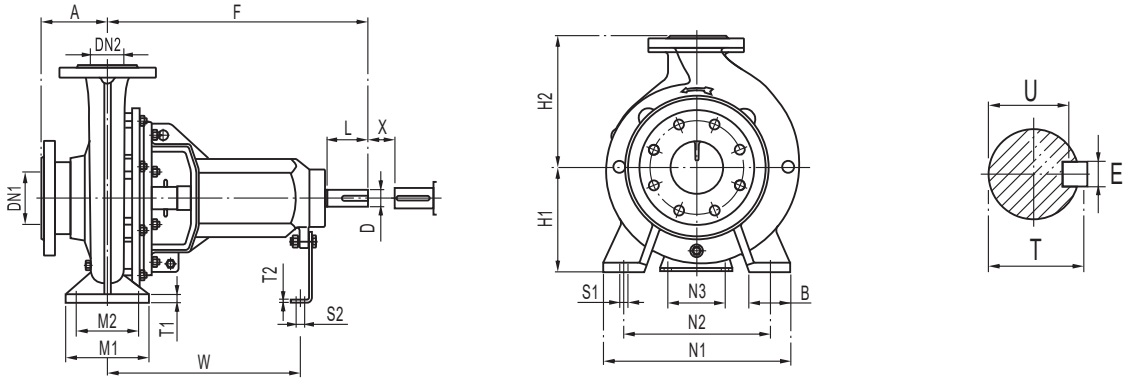
Notes: 1. Optional Flange: AS2129-1982, ANSI 16.1-1975, JISB 2210-1984

Service Connections

Pump Model	A	B	D	S
	Casing Drain	Housing Drain	Gauge Drain	Gauge Drain
50X32-160	1/4	3/8	1/4	1/4
50X32-200	1/4	3/8	1/4	1/4
65X40-200	1/4	3/8	1/4	1/4
65X40-250	1/4	3/8	1/4	1/4
65X40-315	1/4	3/8	1/4	1/4
65X50-160	1/4	3/8	1/4	1/4
80X50-200	1/4	3/8	1/4	1/4
80X50-250	1/4	3/8	1/4	1/4
80X50-315	1/4	3/8	1/4	1/4
80X65-160	1/4	3/8	1/4	1/4
100X65-200	1/4	3/8	1/4	1/4
100X65-250	1/4	3/8	1/4	1/4
100X65-315	1/4	3/8	1/4	1/4
100X80-160	1/4	3/8	1/4	1/4
125X80-400	1/4	3/8	1/4	1/4
125X100-200	1/4	3/8	1/4	1/4
125X100-250	1/4	3/8	1/4	1/4
125X100-315	1/4	3/8	1/4	1/4
125X100-400	1/4	3/8	1/4	1/4

Pump Model	A	B	D	S
	Casing Drain	Housing Drain	Gauge Drain	Gauge Drain
125X100-500	3/8	3/8	3/8	3/8
150X125-250	1/4	3/8	1/4	1/4
150X125-315	1/4	3/8	1/4	1/4
150X125-400	1/4	3/8	1/4	1/4
150X125-500	3/8	3/8	3/8	3/8
200X150-315	3/8	3/8	3/8	3/8
200X150-400	3/8	3/8	3/8	3/8
200X150-500	3/8	3/8	3/8	1/4
250X200-200	3/8	3/8	3/8	3/8
250X200-250	1/2	3/8	1/2	1/2
250X200-315	3/8	3/8	3/8	3/8
250X200-400	3/8	3/8	3/8	3/8
250X200-500	1/2	3/8	1/2	1/2
300X250-250	1/2	3/8	1/2	1/2
300X250-315	3/8	3/8	3/8	3/8
300X250-400	1/2	3/8	1/2	1/2
300X250-500	1/2	3/8	1/2	1/2
350X300-400	1/2	3/8	1/2	1/2
350X300-500	1/2	3/8	1/2	1/2

Intalling Dimensions-2



Pump Model	Shaft No.	Flange Size		Pump Dimensions				Foot Dimensions								Bolt Holes		Shaft End						Spacer	Net. Weight
		DN1	DN2	A	F	H1	H2	B	M1	M2	N1	N2	N3	W	T1	T2	S1	S2	D	L	T	E	U	X ≥	
50X32-160	1	50	32	80	385	132	160	50	100	70	240	190	110	285	12	6	M12	M12	24	50	27	8	20	100	38
50X32-200	1	50	32	80	385	160	180	50	100	70	240	190	110	285	12	6	M12	M12	24	50	27	8	20	100	46
65X40-200	1	65	40	100	385	160	180	50	100	70	265	212	110	285	13	6	M12	M12	24	50	27	8	20	100	48
65X40-250	2	65	40	100	500	180	225	65	125	95	320	250	110	370	14	6	M12	M12	32	80	35	10	27	100	70
65X40-315	2	65	40	125	500	200	250	65	125	95	345	280	110	370	16	6	M12	M12	32	80	35	10	27	100	80
65X50-160	1	65	50	80	385	132	160	50	100	70	240	190	110	285	11	6	M12	M12	24	50	27	8	20	100	40
80X50-200	1	80	50	100	385	160	200	50	100	70	265	212	110	285	13	6	M12	M12	24	50	27	8	20	100	52
80X50-250	2	80	50	125	500	180	225	65	125	95	320	250	110	370	15	6	M12	M12	32	80	35	10	27	100	72
80X50-315	2	80	50	125	500	225	280	65	125	95	345	280	110	370	18	6	M12	M12	32	80	35	10	27	100	87
80X65-160	1	80	65	100	385	160	180	50	100	70	265	212	110	285	11	6	M12	M12	24	50	27	8	20	100	46
100X65-200	2	100	65	100	500	180	225	65	125	95	320	250	110	370	14	6	M12	M12	32	80	35	10	27	140	70
100X65-250	2	100	65	125	500	200	250	80	160	120	360	280	110	370	16	6	M16	M12	32	80	35	10	27	140	80
100X65-315	3	100	65	125	530	225	280	80	160	120	400	315	110	370	18	6	M16	M12	42	110	45	12	37	140	142
100X80-160	2	100	80	100	500	160	200	65	125	95	280	212	110	370	14	6	M12	M12	32	80	35	10	27	100	68
125X80-400	3	125	80	125	530	280	355	80	160	120	435	355	110	370	20	6	M16	M12	42	110	45	12	37	140	165
125X100-200	2	125	100	125	500	200	280	80	160	120	360	280	110	370	17	6	M16	M12	32	80	35	10	27	140	85
125X100-250	3	125	100	140	530	225	280	80	160	120	400	315	110	370	18	6	M16	M12	42	110	45	12	37	140	126
125X100-315	3	125	100	140	530	250	315	80	160	120	400	315	110	370	19	6	M16	M12	42	110	45	12	37	140	135
125X100-400	3	125	100	140	530	280	355	100	200	150	500	400	110	370	20	6	M20	M12	42	110	45	12	37	140	175
125X100-500	4	125	100	160	670	355	450	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	338
150X125-250	3	150	125	140	530	250	355	80	160	120	400	315	110	370	19	6	M16	M12	42	110	45	12	37	140	140
150X125-315	3	150	125	140	530	280	355	100	200	150	500	400	110	370	20	6	M20	M12	42	110	45	12	37	140	150
150X125-400	3	150	125	140	530	315	400	100	200	150	500	400	110	370	21	6	M20	M12	42	110	45	12	37	140	186
150X125-500	4	150	125	160	670	355	450	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	350
200X150-315	4	200	150	160	670	315	400	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	222
200X150-400	4	200	150	160	670	315	450	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	300
200X150-500	4	200	150	160	670	400	500	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	382
250X200-200	4	250	200	180	670	315	450	100	200	150	550	450	140	500	22	10	M20	M16	48	110	51.5	14	42.5	180	345
250X200-250	5	250	200	180	885	315	450	100	200	150	550	450	180	670	25	12	M24	M16	65	140	69	18	58	250	490
250X200-315	4	250	200	180	670	315	450	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	277
250X200-400	4	250	200	180	670	355	500	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	340
250X200-500	5	250	200	225	885	400	580	150	315	250	760	630	180	670	28	12	M24	M16	65	140	69	18	58	250	600
300X250-250	5	300	250	225	885	355	560	125	250	190	630	500	180	670	24	12	M24	M16	65	140	69	18	58	250	450
300X250-315	4	300	250	225	670	355	500	125	250	190	690	560	180	500	24	12	M20	M16	48	110	51.5	14	42.5	180	350
300X250-400	5	300	250	225	885	450	560	150	250	190	690	560	180	670	28	12	M24	M16	65	140	69	18	58	250	603
300X250-500	5	300	250	225	885	450	630	150	315	250	760	630	180	670	28	12	M24	M16	65	140	69	18	58	250	690
350X300-400	6	350	300	250	975	450	600	180	315	250	760	630	180	730	24	12	M24	M16	75	170	79.5	20	67.5	250	780
350X300-500	6	350	300	250	975	500	650	225	360	270	900	750	180	730	32	12	M30	M16	75	170	79.5	20	67.5	250	910

Main Construction Features:

Impeller/Shaft connection and seal

The impeller and shaft are fitted with taper, which increase the strength of the shaft

Impeller / Casing

Optimized Hydraulic design with impeller diameter up to 547mm, PCC pumps have wider performance coverage than EN 25199/22858

Shaft seal

Single,Double mechanical seal, Cartridge mechanical seal, Gland packing are available

Axial Force Balance

The axial force are mostly balance by the front/rear wearing rings and balanceing holes in impeller design, The residual axial force are balanced by the back to back arranged contact ball bearings at the drive end.

Flange

Flange dimensions comply to ISO 7005-1:1992 PN16 Mpa as standard,other flange(including ANSI flange) are also available by request

Heavy Duty Bearings

Cylindrical roller bearing at the impeller end, two of angular contact ball bearing(back to back arrangment) at the drive end. Design bearing life up to 25000 hours.

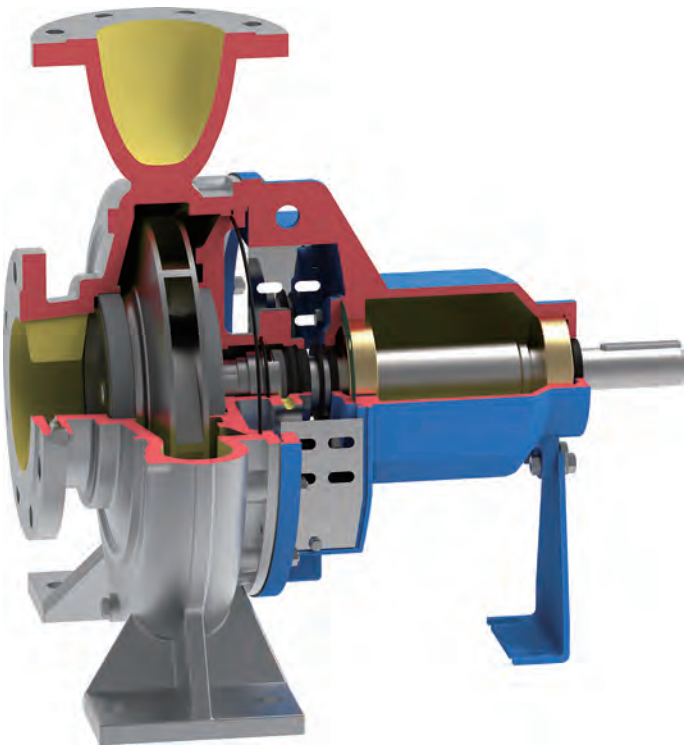
Application

The PCC centrifugal pump is suitable for handling water or similar liquids mainly used in the following.

- Chemical and Petrochemical Industry
- Oil refining plants
- Paper making industry
- Waste water treatment
- Pharmaceutical
- Food Industry

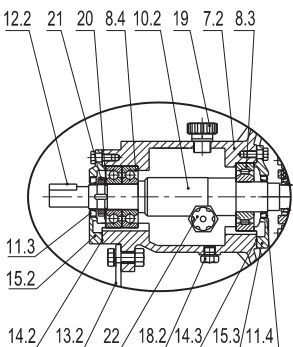
Pumped Liquids

- Water
- Acid
- Alkaline
- Ammonia
- Other corrosive and abrasive liquids

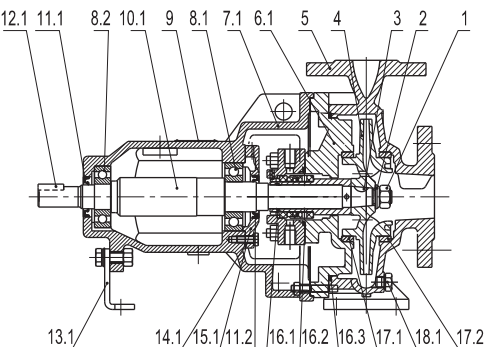


Section Drawing

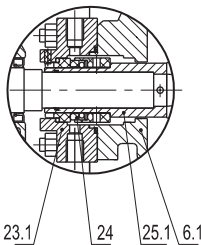
Option-Heavy Duty



Standard-Single seal

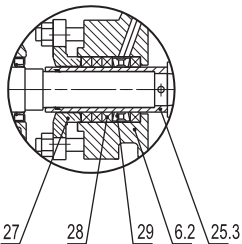


Single Seal

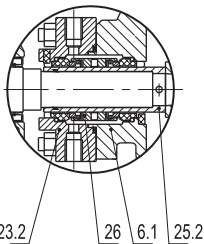


Optional

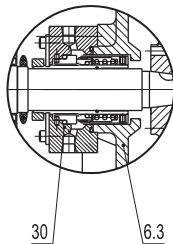
Packing Seal



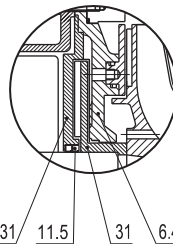
Double Seal



Cartridge Seal



Dynamic Seal



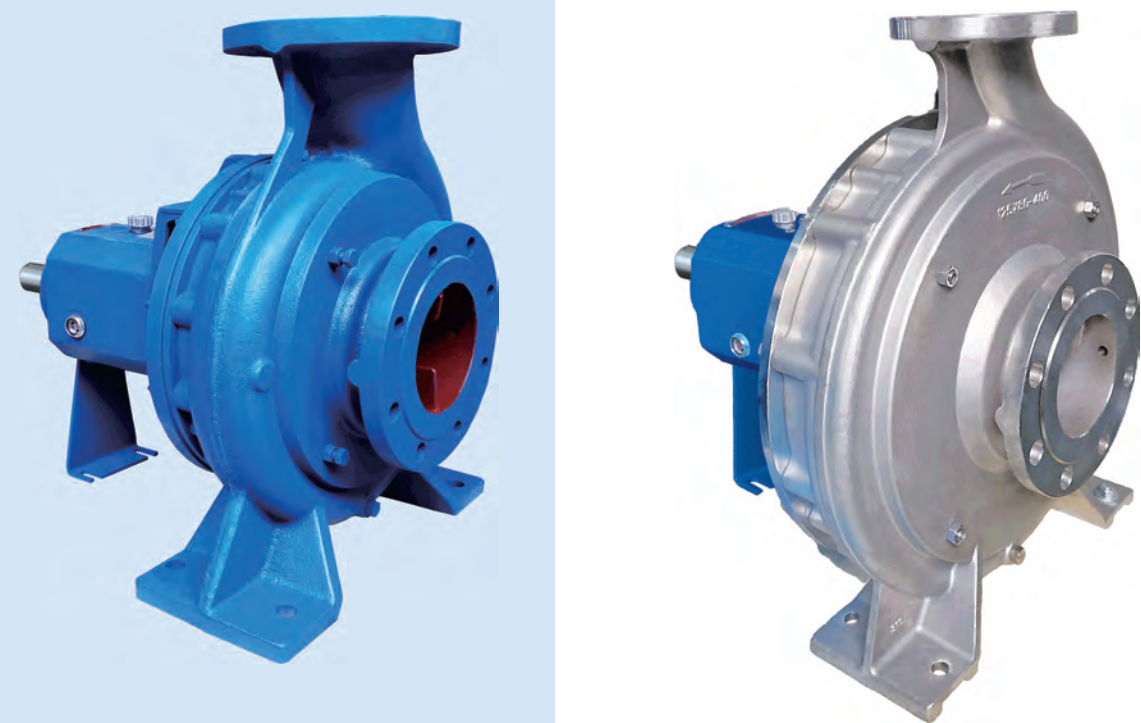
S/N	Part Name
1	Impeller Nut
2	Impeller Washer
3	Woodruff key
4	Impeller
5	Pump Casing
6.1	Casing Cover(Single/Double mech seal)
6.2	Casing Cover(Packing seal)
6.3	Casing Cover(Cartridge Seal)
6.4	Casing Cover(Dynamic seal)
7.1	Bearing Housing (Standard)
7.2	Bearing Housing(Heavy duty)
8.1/8.2	Deep groove ball bearing
8.3	Cylindrical roller bearing
8.4	Angular contact ball bearing
9	Nameplate
10.1	Shaft(standard)
10.2	Shaft(Heavy)
11.1~11.5	Oil Seal
12.1/12.2	Key
13.1/13.2	Support Foot
14.1/14.2/14.3	Gasket Paper

S/N	Part Name
15.1/15.2/15.3	Bearing Cover
16.1/16.2/16.3	O-Ring
17.1/17.2	Wear Ring
18.1/18.2	Drain plug
19	Oil hole cover
20	Tab washer
21	Nut
22	Oil Indicator
23.1/23.2	Seal Gland
24	Single Mechanical seal
25.1	Shaft Sleeve (Single mech.)
25.2	Shaft Sleeve(Double Mech.)
25.3	Shaft Sleeve(Packing)
26	Double mechanical seal
27	Packing Gland
28	Gland Packing
29	Lantern Ring
30	Cartridge Seal
31	Seal Plate
32	Vice impeller

Design & Features

PPS design is in accordance with international standards of ISO2858/5199.PPS pumps with Semi open impeller and front/back wear plate,And it can transfer a certain amount of gas medium,with a good meet for pulp and paper making process requirements, ensures a robust, long lasting, high performing product consumers have come to depend on from Preeminence.

PPS type pulp pump digest and absorbs the advantages of foreign advanced products, summarizes the research experience of our company engaged in paper industry for many years and cooperated with the institute technical research. it is a successfully developed upgarding products.



Applications

 Chemical and Petrochemical Industry

 Oil refining plants

 Paper making industry

 Sugar Industry

 Waste Water Treatment

 Pharmaceutical Food Industry

Model Designation(Examples): PPS 125X100-315

PPS

125

100

315

Series

Suction(mm)

Discharge(mm)

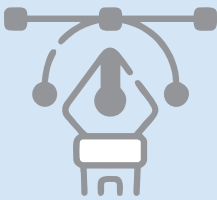
Impeller Norminal Diameter(mm)

Design	Performance and dimension as per ISO 2858/5199
Structure	Horizontal ,End suction, Single suction,Volute casing
DN(mm)	Suction size: 50~350, Discharge size: 32~300
Flange	DIN 2501,PN16

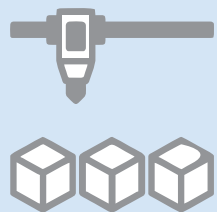
Pump parts	Material
Casing / Impeller	Cast iron/Stainless steel
Shaft	Stainless steel
Shaft seal	Mechanical Seal
Bearing lubrication	Oil lubrication
Bearing Brand	Heavy Duty NTN

Speed	Up to 3600rpm
Flow Rate(Q)	Up to 1900m3/h-1450rpm 2430m3/h-1750rpm
Head(H)	Up to 160m
Pressure	PN16 as standard
Liquid Temperature	Up to 120 °C

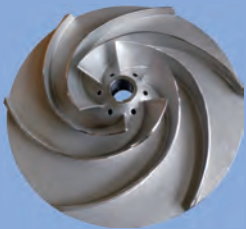
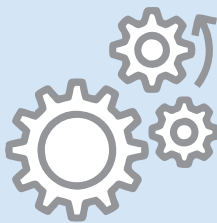
Design



Material



Operating Data



semi-open impeller



wear plate(Front and Back)

Impeller

Optimized Hydraulic design with semi-open impeller diameter up to 547mm, **PPS** pumps have wider performance coverage EN 25199/22858

Heavy Duty Tough Bearings

Cylindrical roller bearing at the impeller end, two angular contact ball bearing (back to back arrangement) at the drive end. Design bearing life up to 25000 hours. Long service life

Sturdy Shaft

Ensures minimum shaft deflection and low mechanical vibration

Wear Plate

Two of wear plate according to impeller design To protect the pump casing

Shaft sealing

Single as standard, Double mechanical seal, Cartridge mechanical seal, Gland packing are available

Single mechanical seal for stock conveyance with sealing and rinsing water
Capital investment and operating cost savings

Operating Data -50Hz

Pump sizes		32mm to 350mm
Flow	up to	2000 m³/h
Head	up to	160 m
Temperature	up to	175°C
Speed	up to	3600 rpm
Pressure	up to	24 Bar

Application

The **PPS** pulp pump is suitable for handling water or similar liquids mainly used in the following.

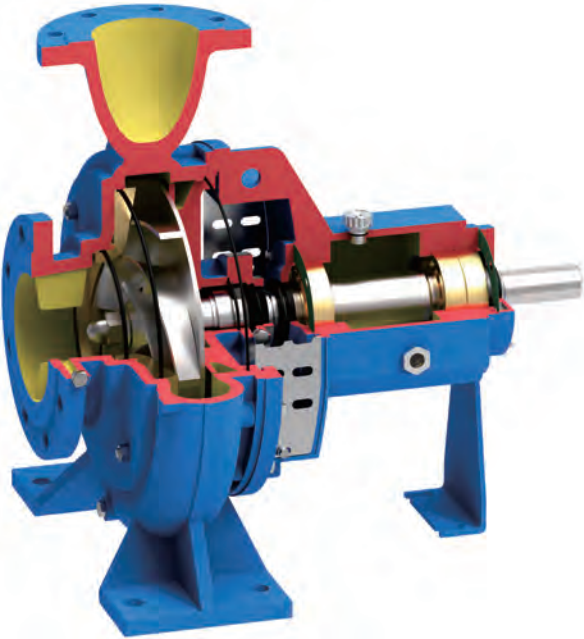
- Chemical and Petrochemical Industry
- Oil refining plants
- Pulp and Paper making industry
- Waste water treatment
- Pharmaceutical
- Food Industry(e.g.sugar)

Axial Force Balance

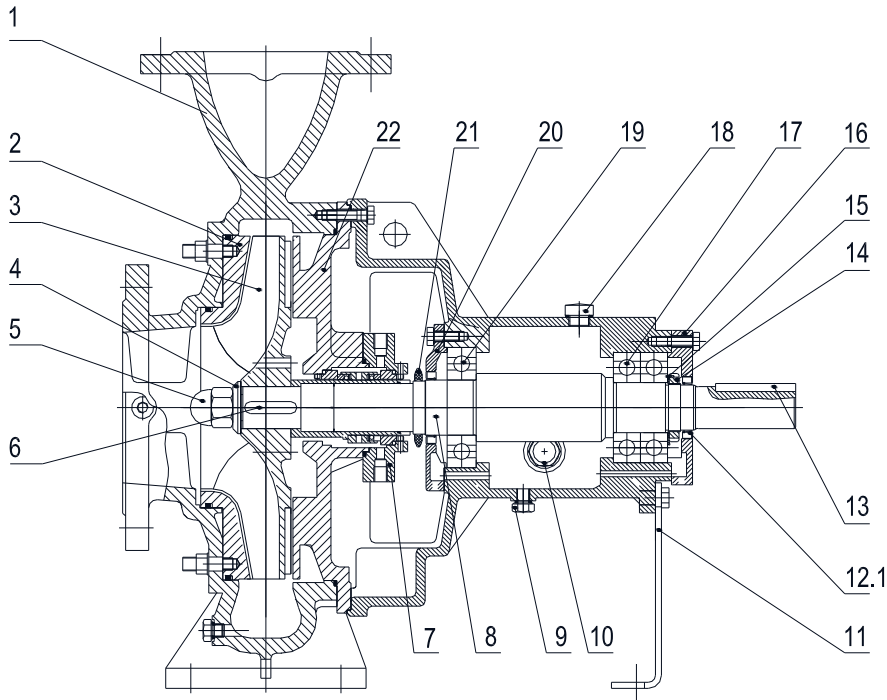
The axial force are mostly balance by the front/rear wear plate and balancing holes in impeller design, The residual axial force are balanced by the back to back arranged contact ball bearings at the drive end.

Flange

Flange dimensions comply to ISO 7005-1:1992 PN16 Mpa as standard, other flange (including ANSI flange) are also available by request



Section Drawing



Standard

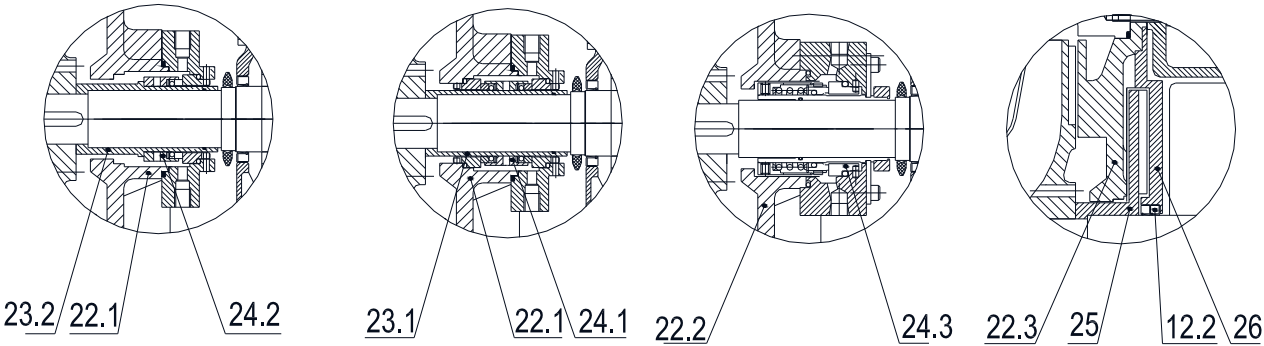
Optional

Single Seal

Double Seal

Cartridge Seal

Dynamic Seal



S/N	Part Name
1	Pump Casing
2	Casing wear plate
3	Impeller
4	Impeller Washer
5	Impeller nut
6	Impeller key
7	Seal Cover
8	Pump Shaft
9	Drain plug

S/N	Part Name
10	Oil Indicator
11	Support Foot
12.1/12.2	Oil Seal
13	Key(coupling)
14	Nut
15	Tab washer
16	Bearing Cover
17	Angular contact ball bearing
18	Oil hole cover

S/N	Part Name
19	Cylindrical roller bearing
20	Bearing Cover
21	Slinger
22.1/22.2/22.3	Casing Cover
23.1/23.2	Shaft Sleeve
24.1/24.2/24.3	Mechanical seal
25	Vice impeller
26	Seal plate

Intalling Dimensions-1

Drive Shaft Dimensions

Shaft No	ød	l	u	t
1	24	50	8	27
2	32	80	10	35
3	42	110	12	45
4	48	110	14	51.5
5	65	140	18	69
6	75	170	20	79.5

Flange Connecting Dimension (ISO 2084,PN16)

DN	ød	øk	ØD	n	øS
32	76	100	140	4	18
40	84	110	150	4	18
50	99	125	165	4	18
65	118	145	185	4	18
80	132	160	200	8	18
100	156	180	220	8	18
125	184	210	250	8	18
150	211	240	285	8	22
200	266	295	340	12	22
250	319	355	405	12	26
300	370	410	460	12	26
350	429	470	520	16	26

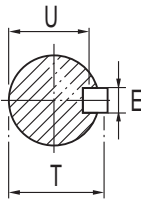
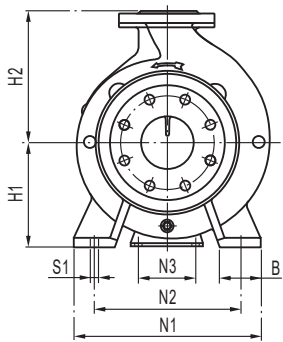
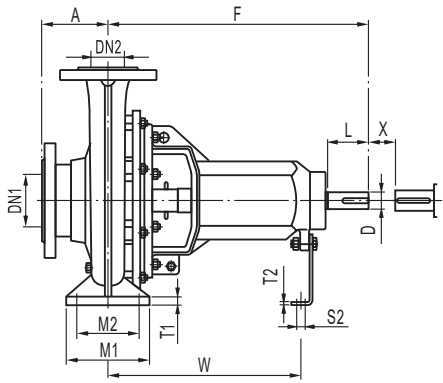
Notes: 1. Optional Flange: AS2129-1982, ANSI 16.1-1975, JISB 2210-1984

Service Connections

Pump Model	A	B	D	S
	Casing Drain	Housing Drain	Gauge Drain	Gauge Drain
50X32-160	1/4	3/8	1/4	1/4
50X32-200	1/4	3/8	1/4	1/4
65X40-200	1/4	3/8	1/4	1/4
65X40-250	1/4	3/8	1/4	1/4
65X40-315	1/4	3/8	1/4	1/4
65X50-160	1/4	3/8	1/4	1/4
80X50-200	1/4	3/8	1/4	1/4
80X50-250	1/4	3/8	1/4	1/4
80X50-315	1/4	3/8	1/4	1/4
80X65-160	1/4	3/8	1/4	1/4
100X65-200	1/4	3/8	1/4	1/4
100X65-250	1/4	3/8	1/4	1/4
100X65-315	1/4	3/8	1/4	1/4
100X80-160	1/4	3/8	1/4	1/4
125X80-400	1/4	3/8	1/4	1/4
125X100-200	1/4	3/8	1/4	1/4
125X100-250	1/4	3/8	1/4	1/4
125X100-315	1/4	3/8	1/4	1/4
125X100-400	1/4	3/8	1/4	1/4

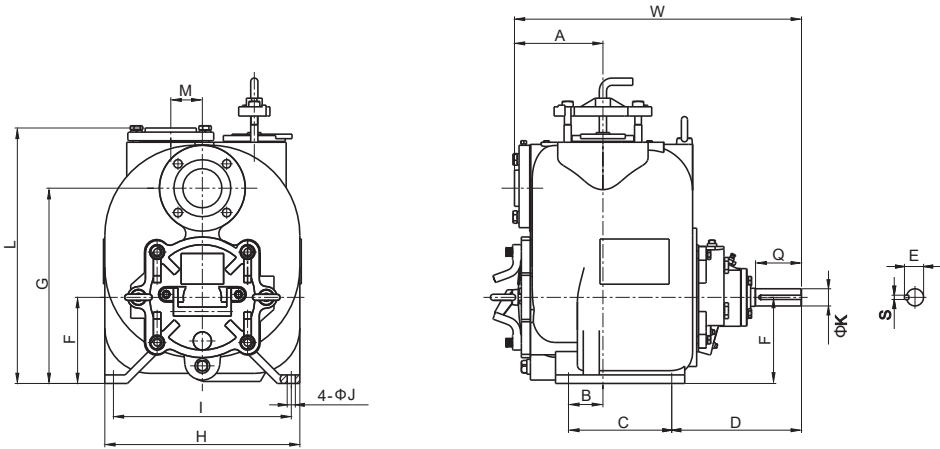
Pump Model	A	B	D	S
	Casing Drain	Housing Drain	Gauge Drain	Gauge Drain
125X100-500	3/8	3/8	3/8	3/8
150X125-250	1/4	3/8	1/4	1/4
150X125-315	1/4	3/8	1/4	1/4
150X125-400	1/4	3/8	1/4	1/4
150X125-500	3/8	3/8	3/8	3/8
200X150-315	3/8	3/8	3/8	3/8
200X150-400	3/8	3/8	3/8	3/8
200X150-500	3/8	3/8	3/8	1/4
250X200-200	3/8	3/8	3/8	3/8
250X200-250	1/2	3/8	1/2	1/2
250X200-315	3/8	3/8	3/8	3/8
250X200-400	3/8	3/8	3/8	3/8
250X200-500	1/2	3/8	1/2	1/2
300X250-250	1/2	3/8	1/2	1/2
300X250-315	3/8	3/8	3/8	3/8
300X250-400	1/2	3/8	1/2	1/2
300X250-500	1/2	3/8	1/2	1/2
350X300-400	1/2	3/8	1/2	1/2
350X300-500	1/2	3/8	1/2	1/2

Intalling Dimensions-2



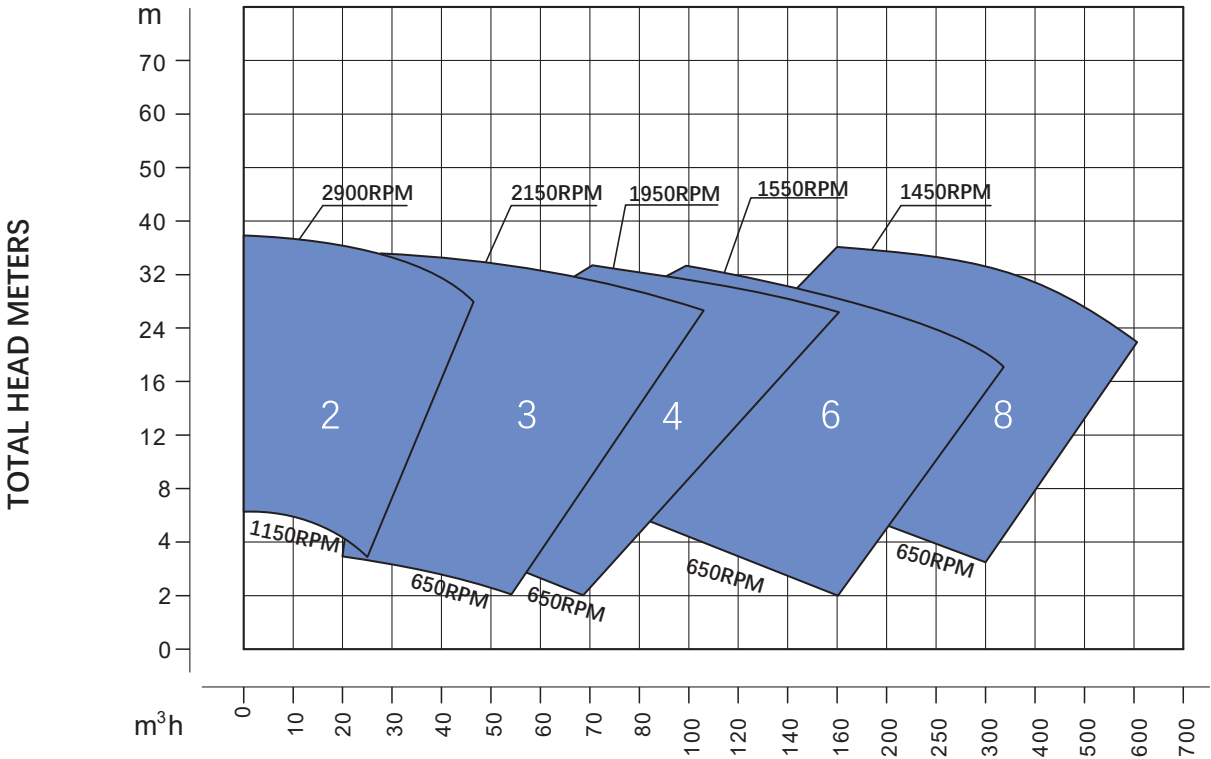
Pump Model	Shaft No.	Flange Size		Pump Dimensions				Foot Dimensions										Bolt Holes		Shaft End						Spacer X ≥	Net. Weight
		DN1	DN2	A	F	H1	H2	B	M1	M2	N1	N2	N3	W	T1	T2	S1	S2	D	L	T	E	U				
50X32-160	1	50	32	80	385	132	160	50	100	70	240	190	110	285	12	6	M12	M12	24	50	27	8	20	100	50		
50X32-200	1	50	32	80	385	160	180	50	100	70	240	190	110	285	12	6	M12	M12	24	50	27	8	20	100	55		
65X40-200	1	65	40	100	385	160	180	50	100	70	265	212	110	285	13	6	M12	M12	24	50	27	8	20	100	52		
65X40-250	2	65	40	100	500	180	225	65	125	95	320	250	110	370	14	6	M12	M12	32	80	35	10	27	100	85		
65X40-315	2	65	40	125	500	200	250	65	125	95	345	280	110	370	16	6	M12	M12	32	80	35	10	27	100	108		
65X50-160	1	65	50	80	385	132	160	50	100	70	240	190	110	285	11	6	M12	M12	24	50	27	8	20	100	40		
80X50-200	1	80	50	100	385	160	200	50	100	70	265	212	110	285	13	6	M12	M12	24	50	27	8	20	100	53		
80X50-250	2	80	50	125	500	180	225	65	125	95	320	250	110	370	15	6	M12	M12	32	80	35	10	27	100	90		
80X50-315	2	80	50	125	500	225	280	65	125	95	345	280	110	370	18	6	M12	M12	32	80	35	10	27	100	108		
80X65-160	1	80	65	100	385	160	180	50	100	70	265	212	110	285	11	6	M12	M12	24	50	27	8	20	100	46		
100X65-200	2	100	65	100	500	180	225	65	125	95	320	250	110	370	14	6	M12	M12	32	80	35	10	27	140	70		
100X65-250	2	100	65	125	500	200	250	80	160	120	360	280	110	370	16	6	M16	M12	32	80	35	10	27	140	98		
100X65-315	3	100	65	125	530	225	280	80	160	120	400	315	110	370	18	6	M16	M12	42	110	45	12	37	140	142		
100X80-160	2	100	80	100	500	160	200	65	125	95	280	212	110	370	14	6	M12	M12	32	80	35	10	27	100	68		
125X80-400	3	125	80	125	530	280	355	80	160	120	435	355	110	370	20	6	M16	M12	42	110	45	12	37	140	175		
125X100-200	2	125	100	125	500	200	280	80	160	120	360	280	110	370	17	6	M16	M12	32	80	35	10	27	140	89		
125X100-250	3	125	100	140	530	225	280	80	160	120	400	315	110	370	18	6	M16	M12	42	110	45	12	37	140	143		
125X100-315	3	125	100	140	530	250	315	80	160	120	400	315	110	370	19	6	M16	M12	42	110	45	12	37	140	151		
125X100-400	3	125	100	140	530	280	355	100	200	150	500	400	110	370	20	6	M20	M12	42	110	45	12	37	140	200		
125X100-500	4	125	100	160	670	355	450	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	338		
150X125-250	3	150	125	140	530	250	355	80	160	120	400	315	110	370	19	6	M16	M12	42	110	45	12	37	140	140		
150X125-315	3	150	125	140	530	280	355	100	200	150	500	400	110	370	20	6	M20	M12	42	110	45	12	37	140	165		
150X125-400	3	150	125	140	530	315	400	100	200	150	500	400	110	370	21	6	M20	M12	42	110	45	12	37	140	201		
150X125-500	4	150	125	160	670	355	450	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	350		
200X150-315	4	200	150	160	670	315	400	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	248		
200X150-400	4	200	150	160	670	315	450	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	325		
200X150-500	4	200	150	160	670	400	500	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	382		
250X200-200	4	250	200	180	670	315	450	100	200	150	550	450	140	500	22	10	M20	M16	48	110	51.5	14	42.5	180	345		
250X200-250	5	250	200	180	885	315	450	100	200	150	550	450	180	670	25	12	M24	M16	65	140	69	18	58	250	490		
250X200-315	4	250	200	180	670	315	450	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	281		
250X200-400	4	250	200	180	670	355	500	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	340		
250X200-500	5	250	200	225	885	400	580	150	315	250	760	630	180	670	28	12	M24	M16	65	140	69	18	58	250	600		
300X250-250	5	300	250	225	885	355	560	125	250	190	630	500	180	670	24	12	M24	M16	65	140	69	18	58	250	450		
300X250-315	4	300	250	225	670	355	500	125	250	190	690	560	180	500	24	12	M20	M16	48	110	51.5	14	42.5	180	350		
300X250-400	5	300	250	225	885	450	560	150	250	190	690	560	180	670	28	12	M24	M16	65	140	69	18	58	250	603		
300X250-500	5	300	250	225	885	450	630	150	315	250	760	630	180	670	28	12	M24	M16	65	140	69	18	58	250	690		
350X300-400	6	350	300	250	975	450	600	180	315	250	760	630	180	730	24	12	M24	M16	75	170	79.5	20	67.5	250	780		
350X300-500	6	350	300	250	975	500	650	225	360	270	900	750	180	730	32	12	M30	M16	75	170	79.5	20	67.5	250	910		

Outline Dimensions (Unit: mm)

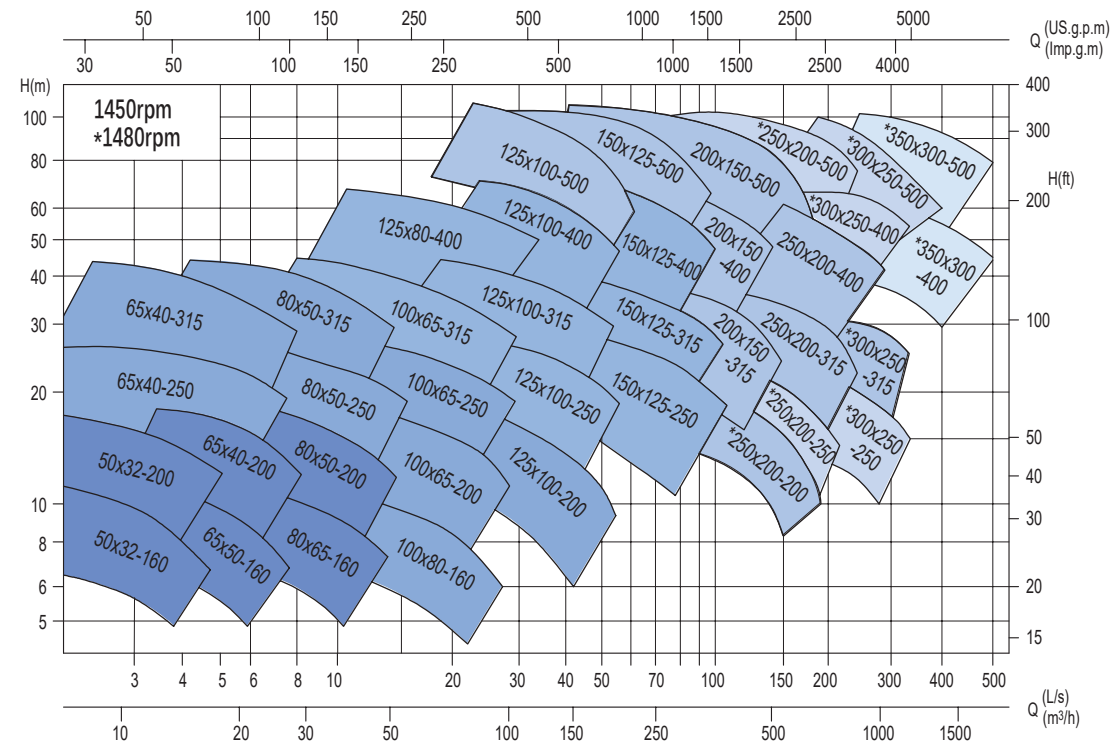


Pump Model	Pump Dimension						Foot Dimension						Shaft Dimension				Wight (kgs)
	L	G	F	M	W	A	J	I	H	B	C	D	K	Q	S	E	
PT-2	430	318	151.5	69.9	520.5	141	14	281	308	54	163.2	270.3	38.1	101.6	9.6	42.3	95
PT-3	565	431.8	190.5	69.9	625.2	185.7	18	393.7	431.8	76.2	228.6	287.1	38.1	101.6	9.6	42.3	183
PT-4	654	495.3	222.3	69.8	724	227	18	457.2	508	77.9	279.4	295.5	38.1	127	9.6	42.3	261
PT-6	759	568.2	257.2	69.8	765	268	18	527	577.8	77.7	279.4	295.3	38.1	127	9.6	42.3	365
PT-8	960	723.9	330.2	-	1025	411.7	23	635	705	101.6	304.8	410.1	44.4	171.4	9.6	48.7	582

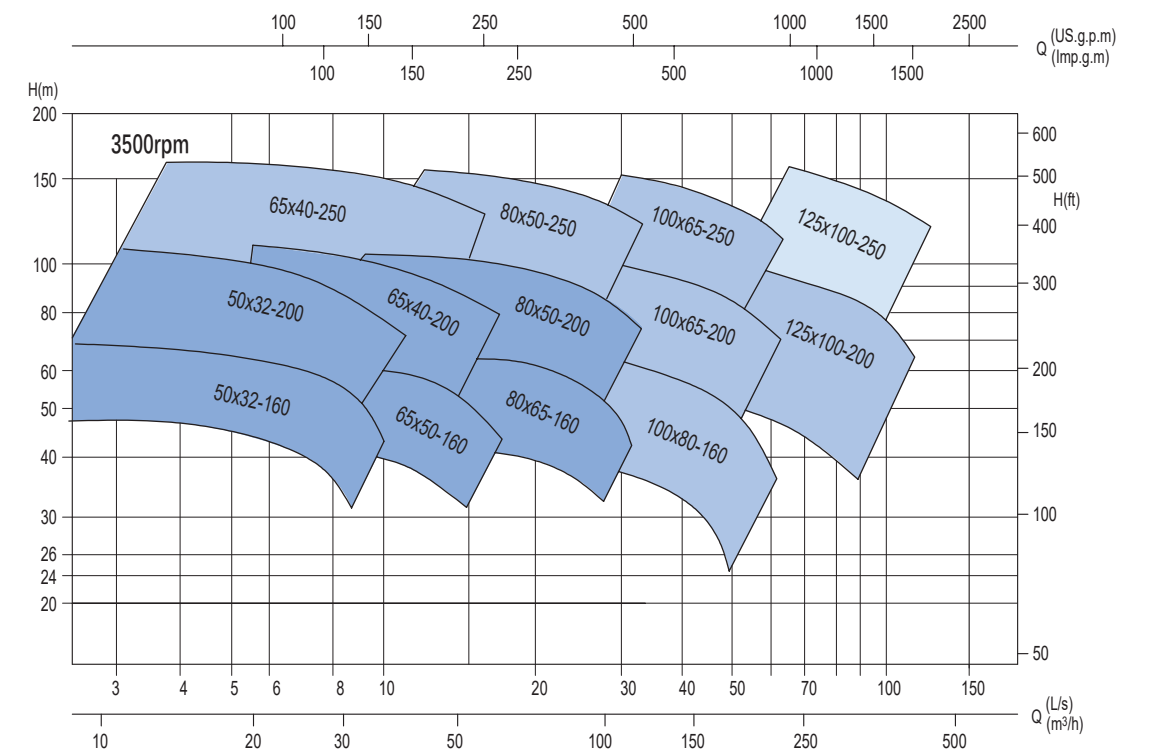
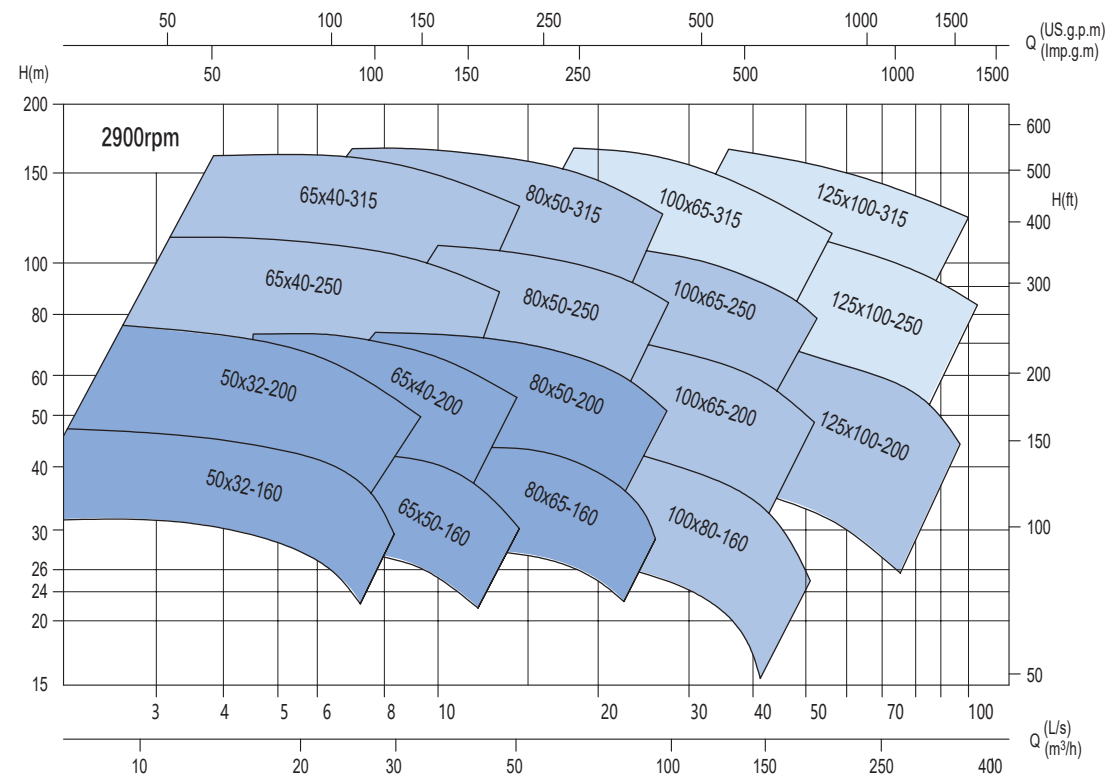
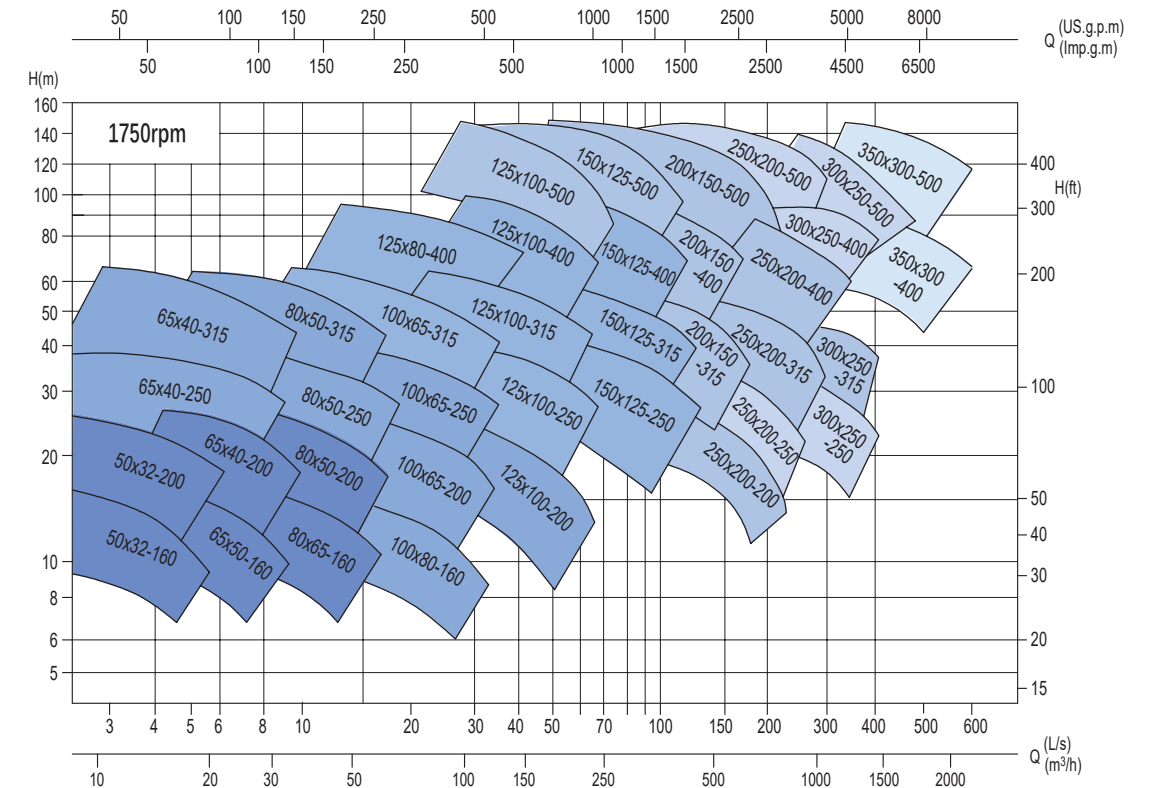
Performance Charts



Performance Chart (50Hz)



Performance Chart (60Hz)



Introduction

PT Non-clogging self priming sewage pump is our latest developed product, and is suitable for the treatment project of municipal sewage and industrial sewage as well as stage treatment and concentrated treatment system of various sewages. It's known as "King of Self priming Sewage Pump", and the most ideal new-generation sewage product.



1、Application

- Non flammable and non-explosive liquid;
- Rain water and common sewage;
- Municipal drainage project, construction site, drainage station of people's air defense system;
- Industrial sewage of light industry, paper mil, textile, food processing plant, chemical industry, electric utility, deep mines, etc;
- Sewage discharge in the residential area;
- Sewage and deposit of water purifying system;
- Tanning industry, sewage of slaughter house, fish breeding in the river and pond;
- Wine and sugar industry;
- Sewage discharge not having strong corrosiveness but seriously polluted.

2、Model Code

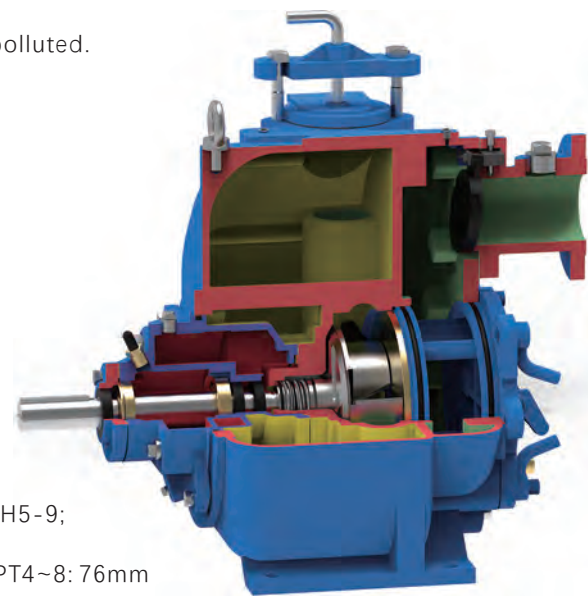
PT - 4

_____ Inlet and outlet: 4"(φ100mm)

_____ Self-priming Sewage pump

3、Operating condition

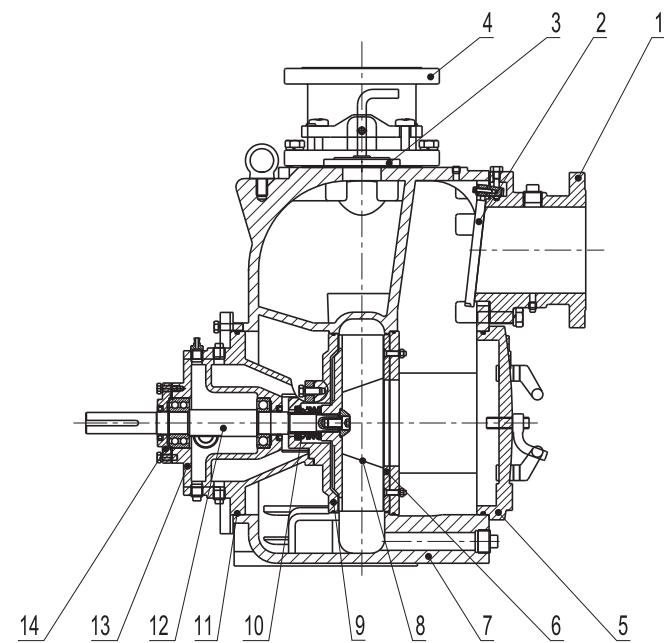
- Liquid temperature: 0°C-40°C, medium density $\leq 1.2 \times 103\text{kg/m}^3$,PH5-9;
- Volume ratio of solids in the medium $\leq 2\%$;
- Diameter of maximum grain free pass: PT-2:44mm; PT-3: 63mm; PT4~8: 76mm
- Ambient temperature: $\leq 40^\circ\text{C}$;
- Altitude: Max. 1, 000m;
- Max. working pressure: see Performance Curve;
- Max. Suction head: see Performance Table.



4、Features

- Stable performance, reliable operation;
- The motors clockwise rotation from drive;
- The pump shall be installed on the pedestal. axial suction and radial discharge;
- Back-pull-out construction: Convenient for maintenance and troubleshooting. Daily maintenance can be performed rapidly by common head tools, saving time and labor; The removable cover plate with handle and pusher bolt can provides access to the pump interior without disconnecting piping easily. Clogs can be removed and the pump can be returned to service in minutes.
- Semi-open impeller structure and non-clogging design: Strong passing capacity.
- Convenient usage: The pump can be mounted high and dry at floor level. With only the suction line down in the liquid(the pump shall be filled with water for first start).

Section Drawing



NO	Parts name	Material
1	Suction Inlet	HT250
2	Flap Valve	NBR+Carbon steel
3	Infusion cover	HT250
4	Discharge Outlet	HT250
5	End Cover	HT250
6	Wear Plate	ASTM 1045
7	Volute	HT250
8	Impeller	QT500 SS304/SS316
9	Impeller Cover	HT250
10	Mechanical Seal	TC/TC/Viton
11	O-Ring	NBR
12	Shaft	SS420
13	Bearing Body	HT 250
14	Bearing Cover	HT200

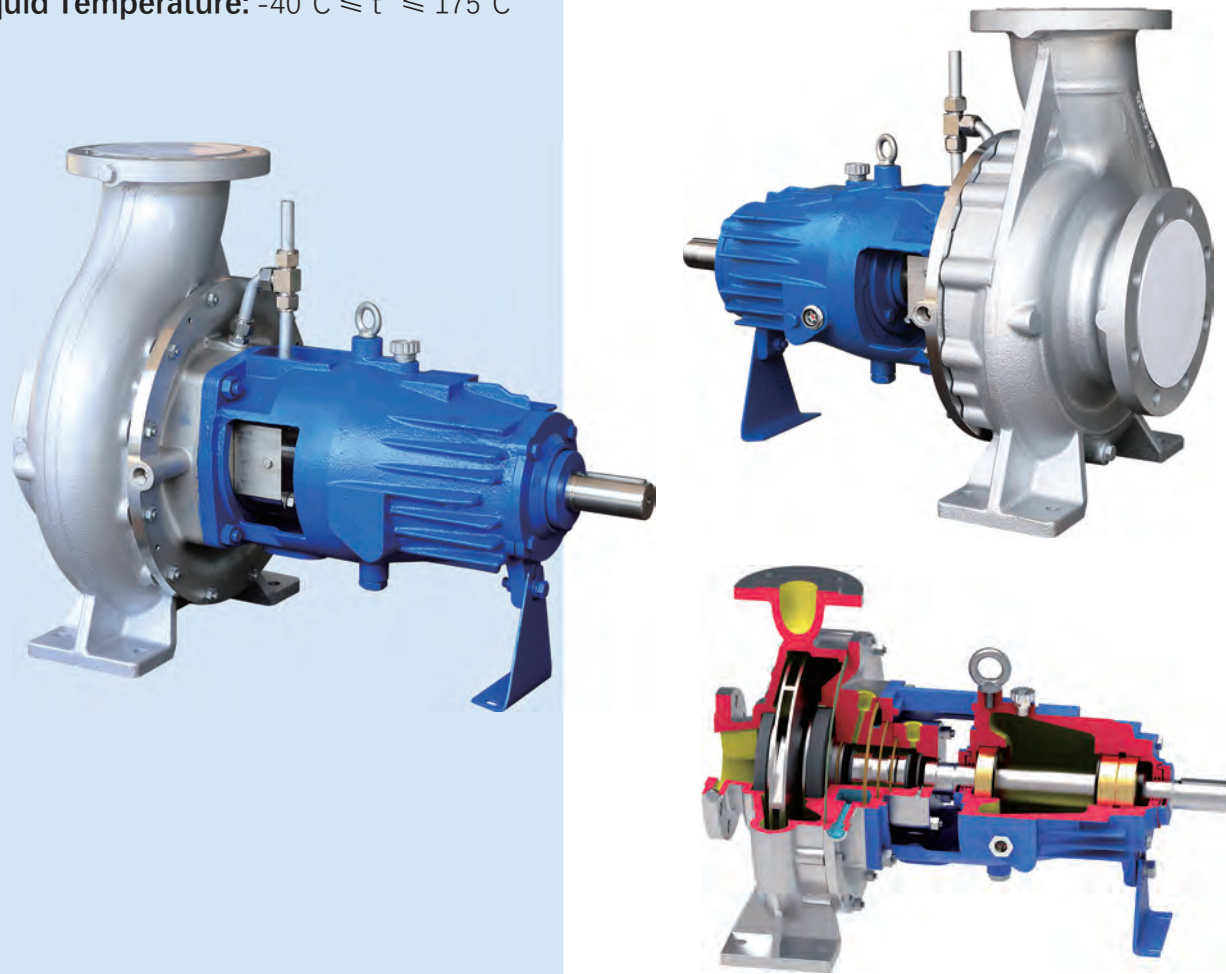
Performance Table

Model	Speed (rpm)	Max Q (m³/h)	Max H (m)	Npsh (m)	Power (HP)	Max Solids (mm)
PT-2	1150~2900	46	35	7.3~7.6	1~10	44.45
PT-3	650~2150	110	35	1.5~7.6	1~20	63.5
PT-4	650~1950	160	36	1.5~7.6	1~30	76.2
PT-6	650~1550	350	32	2.4~7.6	2~40	76.2
PT-8	650~1450	600	36.5	2.7~7	7.5~75	76.2

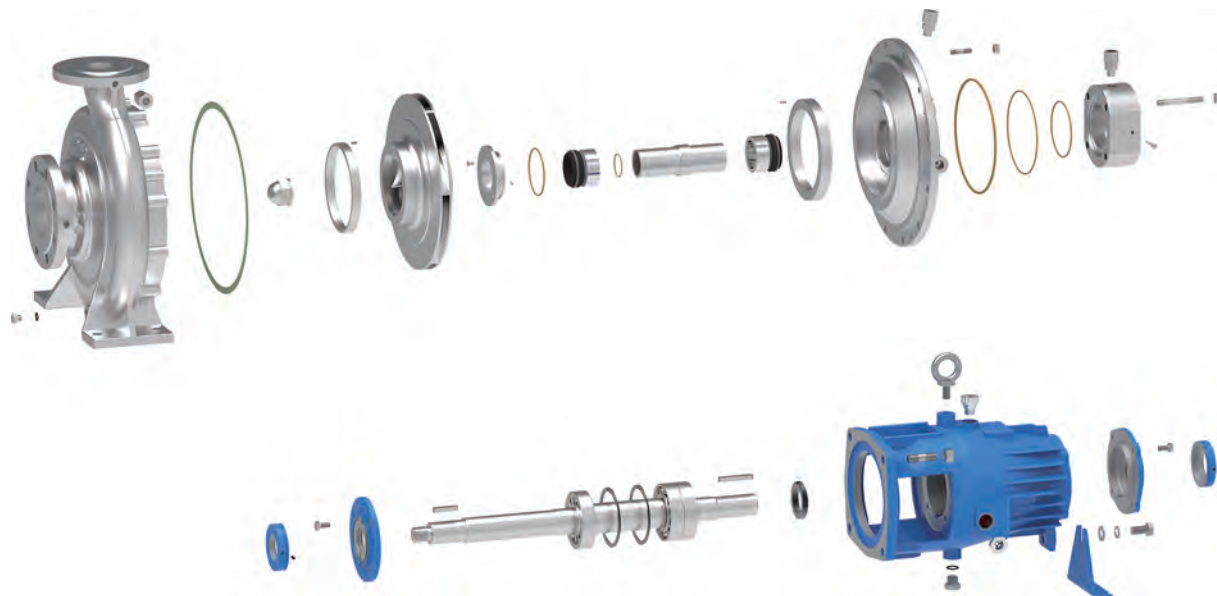
New Products coming

PZA Series Petrol-Chemical Pump

Liquid Temperature: $-40^{\circ}\text{C} \leq t^{\circ} \leq 175^{\circ}\text{C}$



PZA Pump Explosive View



AMEGA GROUP

