

# PS PUMP RANGE

STAINLESS STEEL, **MAGNETIC DRIVE**, CENTRIFUGAL PUMPS



- ∞ CAPACITY <850L/MIN
- ∞ HEAD <68 Metres
- ∞ SEALLESS LEAK FREE DESIGN
- ∞ STAINLESS STEEL BUILD
- ∞ TOTAL CORROSION RESISTANCE
- ∞ UK ASSEMBLY

Part of the **PTCX**  
Pump Range



PM



PL



PW



PSJ



PSO

## ∞ PS OVERVIEW

The PS series is a medium capacity series which is commonly used for chemical fluid transfer in general process.

High capacity stainless steel magnetic drive pumps, with flow rate up to 850 LPM.

Our PTCX Stainless Steel magnetic drive pumps are manufactured in 316L stainless steel as standard.



**2 YEARS  
WARRANTY**



**ATEX ZONE 1/2  
AVAILABLE**



**CORROSION  
RESISTANCE**



**FLEXIBLE TO  
DESIGN SPEC**

## ∞ SEALLESS LEAK FREE DESIGN

A fully sealless structure design resolves leakage problems, and makes sealless magnetic drive the best choice for transferring hazardous or volatile chemicals

## ∞ QUICK INSTALLATION & EASY MAINTENANCE

The feature of simple structure requires no special tools to install or to disassemble. Having no mechanical seal saves time on installation and disassembly and will reduce the the frequency for parts replacement and maintenance.

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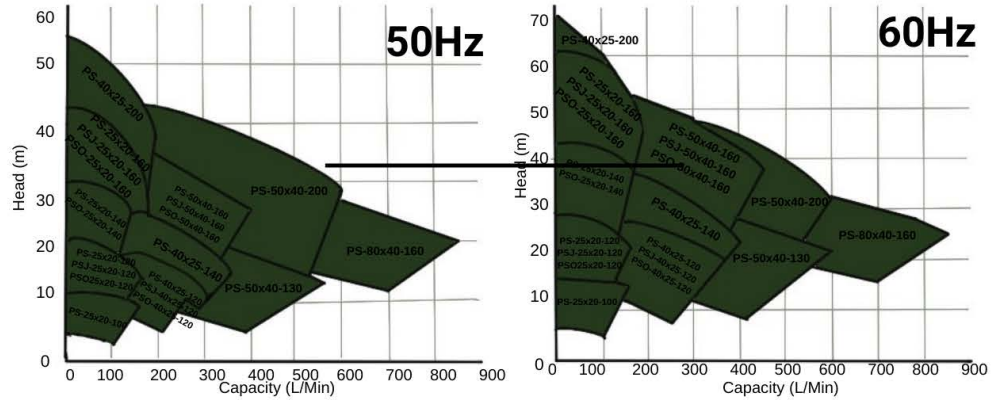
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## ∞ RANGE CURVES

Performance curve family for the magnetic drive PS Series.

## ∞ INFORMATION

For more specific model curves, general arrangement drawings or exploded views of individual models, please visit [www.crestpumps.co.uk](http://www.crestpumps.co.uk).



## ∞ TECHNICAL SPECIFICATION

	PS	
	50Hz	60Hz
<b>Frequency</b>	50Hz	60Hz
<b>Max. Capacity</b>	850L/M	850L/M
<b>Max. Total Head</b>	55.7m	68m
<b>Suction &amp; Discharge</b>	25 x 20 - 80 x 40	
<b>Temperature Range</b>	-80°C - 280°C	
<b>Specific Gravity</b>	<2	
<b>Viscosity</b>	<300mPa.s (cp)	
<b>Design Pressure</b>	1.0MPaG	
<b>Flange Standard</b>	ANSI Class 150 / JIS 10K / DIN PN16	
<b>Motor Output</b>	0.75KW - 7.5KW	
<b>Pump Material</b>	SUS316L (Standard) / Alloy20 (Optional) / HAS -C equivalent (Optional)	

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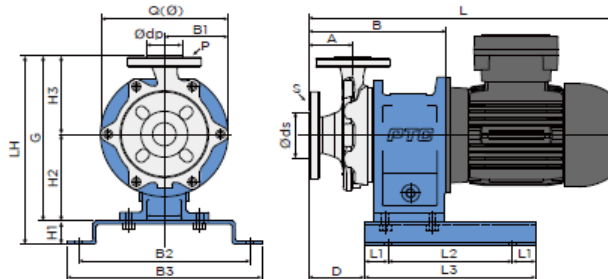
## RANGE DIMENSIONS

For specific 3D CAD drawings or specific pump dimensions, please contact us at [info@crestpumps.co.uk](mailto:info@crestpumps.co.uk) or telephone +44 (0)1425 627700.

### NOTE:

1. The total length and weight of the pump will differ depending on the brand of the motor.
2. All dimensions are in mm.
3. Assembly tolerances are +/- 3mm.

Model range is full polypropylene range. Please see our website for more details on cast iron models.

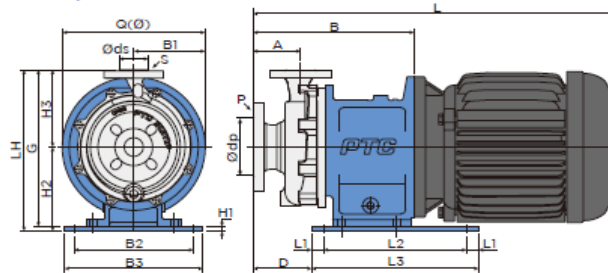


Unit:mm

Model	Motor		Bore				Pump size																
	Frame Size	Output (KW)	Suct. ds	S s	Disch. dp	P	LH	G	H1	H2	H3	B1	B2	B3	Q (Ø)	A	B	L	D	L1	L2	L3	
PS-25x20-100	80L	0,75	25	15	20	16	290	250	40	130	120	100	290	330	200	75	229	91	40	210	290		
	90L	1,5/2,2																					
PS-25x20-120	80L	0,75	25	15	20	16	290	250	40	130	120	100	290	330	200	60	214,5	76,5	40	210	290		
	90L	1,5/2,2																					
PS-25x20-140	90L	1,5/2,2	25	15	20	16	320	280	40	150	130	108	290	330	216	65	215,5	77,5	40	210	290	240	320
	112L	3,7																					
PS-25x20-160	90L	1,5/2,2	25	15	20	16	330	290	40	150	140	127,5	290	330	255	65	216,5	78,5	40	210	290	240	320
	112L	3,7																					
PS-40x25-120	90L	1,5/2,2	40	15	25	16	325	285	40	150	135	108	290	330	216	75	233	95	40	210	290	240	320
	112L	3,7																					
PS-40x25-140	90L	1,5/2,2	40	15	25	16	330	290	40	150	140	108	290	330	216	75	231	93	40	210	290	240	320
	112L	3,7																					
PS-50x40-130	90L	1,5/2,2	50	15	40	16	330	290	40	150	140	108	290	330	216	80	236,5	98,5	40	210	290	240	320
	112L	3,7																					
PS-50x40-160	90L	1,5/2,2	50	15	40	16	345	305	40	150	155	127,5	290	330	255	65	227	79	40	210	290	240	320
	112L	3,7																					

\*Note1. Dimension of (L) will differ depending on the brand and installation of the motor

### PS-40x25-200, 50x40-200, 80x40-160



Unit:mm

Model	Motor		Bore				Pump size																
	Frame Size	Output (KW)	Suct. ds	S s	Disch. dp	P	LH	G	H1	H2	H3	B1	B2	B3	Q (Ø)	A	B	L	D	L1	L2	L3	
PS-40x25-200	132L	5,5/7,5	40	15	25	16	345	335	10	180	165	150	250	290	300	100	338	123	25	300	350		
PS-50x40-200	132L	5,5/7,5	50	15	40	16	345	335	10	180	165	150	250	290	300	100	338	123	25	300	350		
PS-80x40-160	132L	5,5/7,5	80	15	40	16	345	335	10	180	165	150	250	290	300	100	338	123	25	300	350		

\*Note1. Dimension of (L) will differ depending on the brand and installation of the motor

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## EXPLODED VIEW

### Modular Design Interchangeable Parts Reduce Cost



**Front Casing**  
Precision casting method is used to bring a **universal flange design** for three types of piping connections which are ANSI, JIS, and DIN.

**Casing Cover**  
Special flow channel and easy disassembly design make easy maintenance.

**Gasket**  
PTFE is used as gasket standard material which compatibility is used for most chemicals in the industry.

**Impeller**  
Precision casting method is used to bring **one-piece design** of structure without welding which improves durability and better corrosion resistance.

**Bearing Thrust ring Sleeve**  
Parts are made with **SIC material** which provides low friction with minimum wear and excellent chemical corrosion resistance.

**Shaft**  
High precision forging unit is used to improve balance during operation. Shaft reaming design helps inner flow channel for better cooling and improve durability.

**Inner Magnet**  
High-performance rear earth magnet is used to provide for the inner magnet, temperature use range from minus 80 degree to 280 degree Celsius.

**Anti-Vortex**  
Anti-vortex design for rear casing is to prevent abrasion caused by impurity substances.

**Rear Casing**  
One-piece design of rear casing is of excellent pressure and corrosion resistance. Coupling type material provide SUS316L, additionally an optional Hastelloy-C equivalent material to reduce the magnetic loss and improve the operation efficiency.

**Outer Magnet**  
Outer magnet surface with **anti-corrosion coating** is avoid corrosion caused external environmental influences.

**Baseplate Adapter**  
Two-piece design for baseplate adapter can be customized adjusted according to the installation height on site. The installation of motor is designed for **star IEC motor frames** and closed piped design requires no special nor shaft alignment.

**Main Material**  
SUS316L is provided for better corrosion resistance. Alloy20 and Hastelloy-C equivalent are also provided for optional selection.

## INFORMATION

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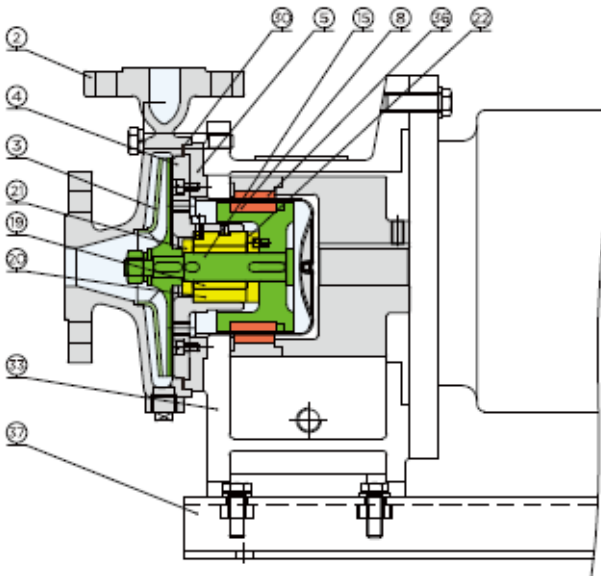
If you need 3D CAD models of the range, please contact one of our team and we will arrange for a copy to be sent to you by email.

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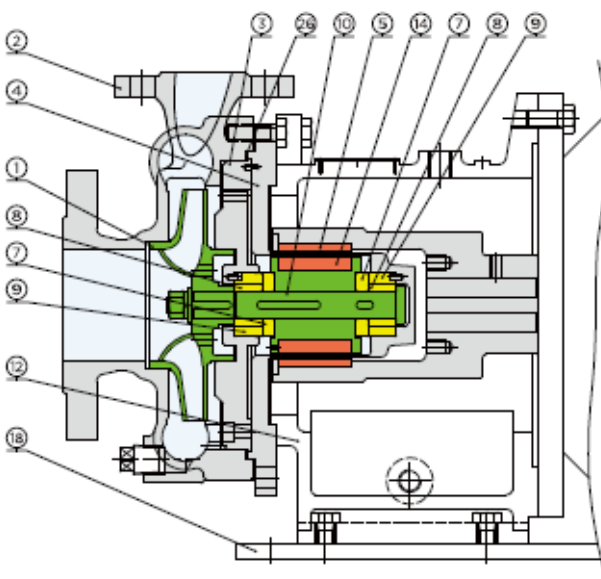
## PARTS LIST & MATERIAL CONSTRUCTION

PS-25x20-100 / 25x20-120 / 25x20-140 / 25x20-160 / 40x25-120 / 40x25-140 / 50x40-130 / 50x40-160



No.	Parts Name	Material
②	Front casing	SUS316L
③	Impeller	SUS316L
④	Casing cover	SUS316L
⑤	Rear casing	SUS316L
⑧	Inner magnet	SUS316L+Rare earth
⑮	Shaft	SUS316L
⑲	Sleeve	SiC
⑳	Bushing	SiC
㉑	Thrust ring(A)	SiC
㉒	Thrust ring(B)	SiC
㉔	Gasket	PTFE
㉓	Frame adapter	FC25
㉖	Outer magnet	SS400+Rare earth
㉗	Baseplate	SS400

PS-40x25-200 / 50x40-200 / 80x40-160



No.	Parts Name	Material
①	Impeller	SUS316L
②	Front casing	SUS316L
③	Casing cover	SUS316L
④	Rear casing	SUS316L
⑤	Outer magnet	SS400+Rare earth
⑦	Thrust ring	SiC
⑧	Sleeve	SiC
⑨	Bushing	SiC
⑩	Shaft	SUS316L
⑫	Frame adapter	FC25
⑭	Inner magnet	SUS316L+Rare earth
⑱	Baseplate	SS400
㉔	Gasket	PTFE