

PW PUMP RANGE

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



- ∞ CAPACITY <53L/MIN
- ∞ HEAD <108 Metres
- ∞ SEALLESS LEAK FREE DESIGN
- ∞ STAINLESS STEEL BUILD
- ∞ TOTAL CORROSION RESISTANCE
- ∞ UK ASSEMBLY

Part of the **PTCX**
Pump Range



PS



PL



PM



PSJ



PSO

∞ PW OVERVIEW

The PW series is for low flow and high head processes. The structural design is quieter than conventional mechanical seal pumps. Featuring a Low heat-up during minimum flow operation and can be used in reverse operation without any issues.

Stainless Steel magnetic drive pumps, with flow rate up to 53 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 frequency for parts replacement and maintenance.

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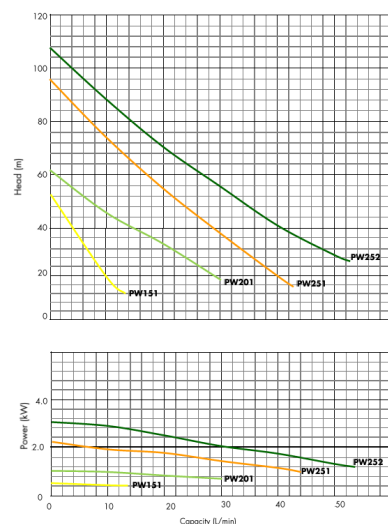
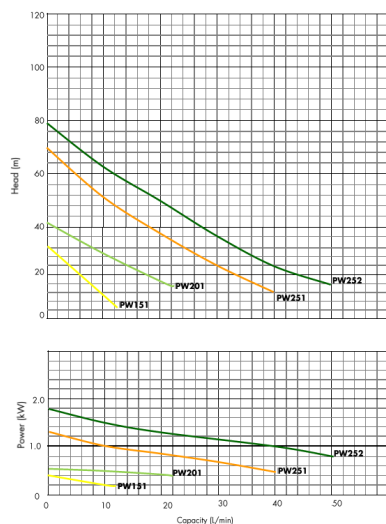
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RANGE CURVES

Performance curve family for the magnetic drive PW Series.

INFORMATION

For more specific model curves, general arrangement drawings or exploded views of individual models, please visit www.crestpumps.co.uk.



TECHNICAL SPECIFICATION

	PW	
Frequency	50Hz	60Hz
Max. Capacity	49L/M	53L/M
Max. Total Head	78m	108m
Suction & Discharge	15 x 15 - 25 x 25	
Temperature Range	-80°C - 280°C	
Specific Gravity	<2	
Viscosity	<300mPa.s (cp)	
Design Pressure	1.6MPaG	
Flange Standard	ANSI Class 150 / JIS 10K / DIN PN16	
Motor Output	0.75KW - 3.7W	
Pump Material	SUS316L (Standard) / Alloy20 (Optional) / HAS -C equivalent (Optional)	

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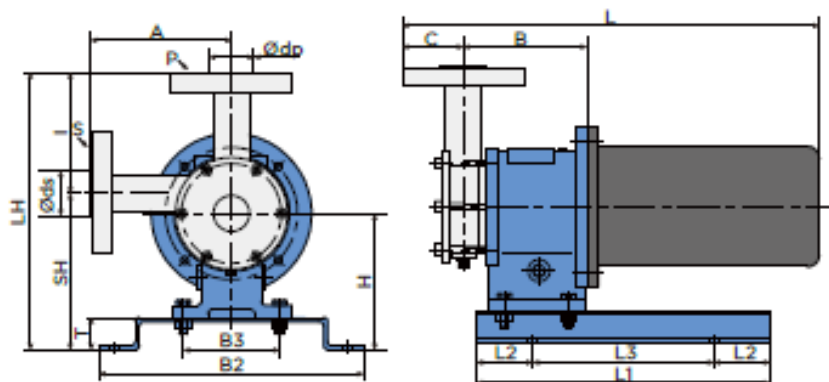
∞ RANGE DIMENSIONS

For specific 3D CAD drawings or specific pump dimensions, please contact us at info@crestpumps.co.uk 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.		Disch.		A	B	C	H	I	SH	LH	L	L1	L2	L3	B2	B3	T
			ds	S	dp	P														
PW151	80M	0.75	15	ANSI Class 150 / JIS 10K / DIN PN16	15	ANSI Class 150 / JIS 10K / DIN PN16	120	152	47.5	170	120	195	315	*Note1.	290	40	210	330	120	40
PW201	80M	0.75	20		20		120	155	52.5	170	120	195	315		290	40	210	330	120	40
	90	1.5					120	155	57.5	170	120	195	315		290	40	210	330	120	40
PW251	90	1.5/2.2	25		25		120	155	57.5	170	120	195	315		290	40	210	330	120	40
	100L	3						165				220	340		320		240		140	
PW252	90	2.2	25		25		120	155	57.5	170	120	195	315		290	40	210	330	120	40
	(100L)/112M	(3)/4		165		220		340				320	240	140						

*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.



Main Material

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



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.



Anti-Vortex

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



Outer Magnet

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



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.



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.



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.



INFORMATION

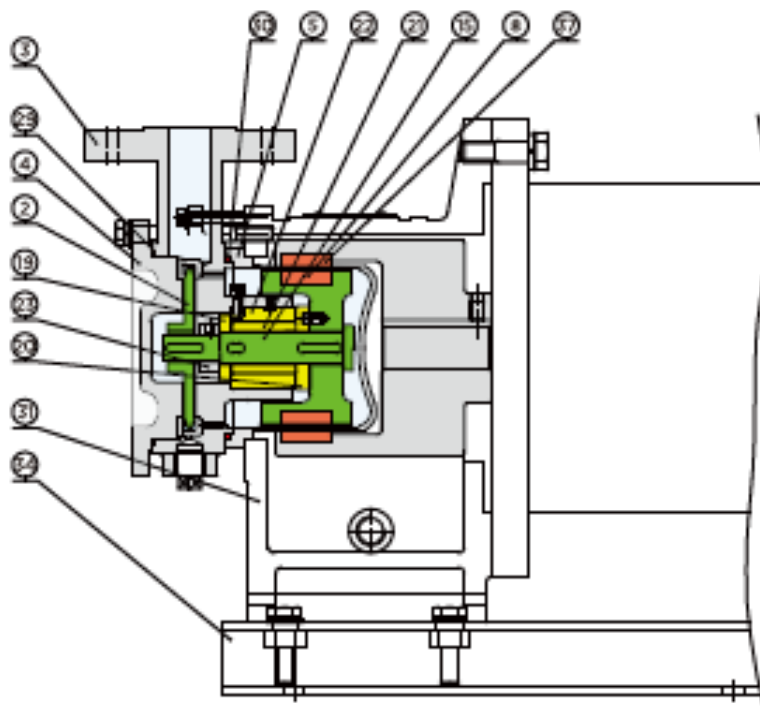
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If you need 3D CAD models of the range, please contact one of our team and we will arrange for a copy to be sent to you by email.

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PARTS LIST & MATERIAL CONSTRUCTION



MATERIAL CODE	PARTS NAME	MATERIAL
2	IMPELLER	SUS316L
3	FRONT CASING	SUS316L
4	CASING COVER	SUS316L
5	REAR CASING	SUS316L
8	INNER MAGNET	SUS316L + RARE EARTH
15	SHAFT	SUS316L
19	THRUST RING (A)	SiC
20	THRUST RING (B)	SiC
21	SLEEVE	SiC
22	BEARING	SiC
23	SET RING	SUS316L
29	O RING (1)	PTFE
30	O RING (2)	PTFE
31	FRAME ADAPTER	FC25
34	BASEPLATE	SS400
37	OUTER MAGNET	SS400 + RARE EARTH