

# PPM PUMP RANGE

MULTI STAGE, **MECHANICALLY SEALED**, CENTRIFUGAL PUMPS



 CAPACITY <26 M<sup>3</sup>/HR

 HEAD <66 Metres

 HIGHLY FLEXIBLE DESIGN

 MACHINED FROM SOLID

 LOW FLOW/HIGH HEAD

 CORROSION RESISTANT

 ATEX CERTIFIED

Part of the  
**MECHANICAL  
SEAL**  
Pump Range

PP



PPM



ECC



## PPM PUMP OVERVIEW

The Crest PPM range of mechanical seal centrifugal pumps are designed to deal with some of the most corrosive and arduous, low flow – high head applications in the chemical industry. All wetted parts are machined from solid blocks of plastic for the ultimate in robust construction. All pipeline forces are absorbed by a rugged steel shell.

For higher head applications – compatible for liquids ranging from caustic, to hydrofluoric acid – the PPM range of mechanical seal pumps are the ideal choice for reliable process pumping. Usually for low flow / high head applications, the user is forced to compromise efficiency and energy consumption for a larger pump with a suitable oversized impeller. Because every mechanically sealed plastic pump is manufactured in the UK, we are able to tailor every pump to your exact requirements. Whether this be a specific cartridge seal, or the pump built to match existing pipe-work, we can supply a pump that is right for you with a minimal change in lead time or cost.

The PPM multi stage pump overcomes this unnecessary obstacle by providing an efficient and reliable alternative.

The whole range of mechanical seal pumps come with our no obsolete parts policy guarantee. Meaning if you have a Crest manufactured centrifugal pump (even in service for over 40 years) we guarantee to provide spares, maintenance or an exact replacement of the original pump. Complete with all modifications and specifications.



**24 MONTHS  
WARRANTY**



**ATEX ZONE 1/2  
CERTIFIED**



**FLEXIBLE TO  
DESIGN SPEC**



**NO OBSOLETE  
PARTS POLICY**



**HIGH  
EFFICIENCY**

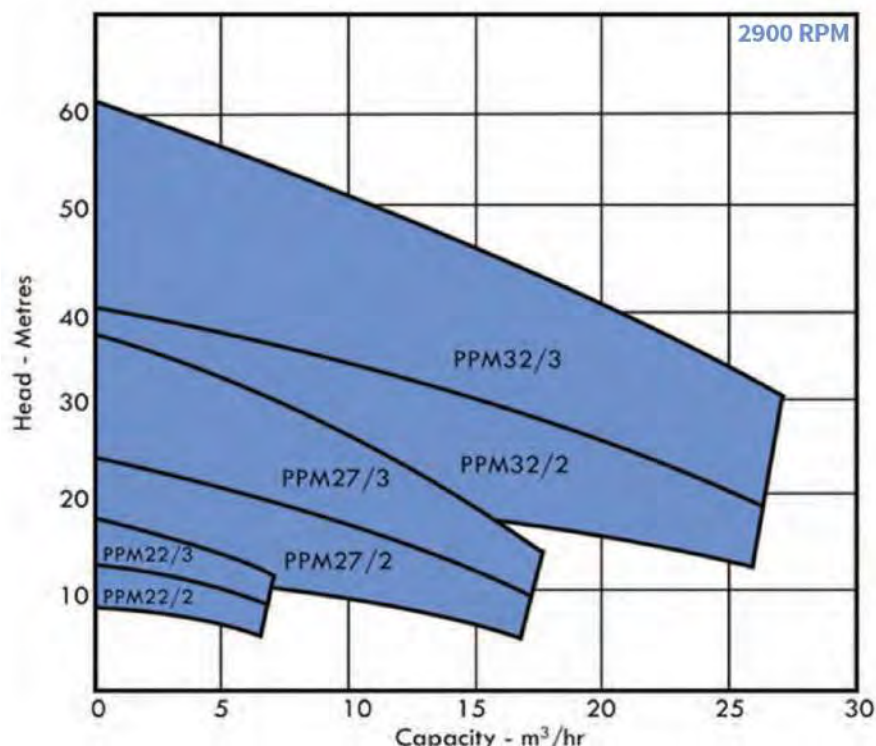


**CORROSION  
RESISTANCE**

# PPM PUMP RANGE

MULTI STAGE, **MECHANICALLY SEALED**, CENTRIFUGAL PUMPS

## PP PUMP RANGE CURVES



## TECHNICAL SPECIFICATIONS

MODEL	SUCTION (inches)	DISCHARGE (inches)	SPEED (rpm)	RATED CAPACITY (m³/hr)	RATED HEAD (m)	MAX CAPACITY (m³/hr)	MAX HEAD (m)	MOTOR OUTPUT (kW)
PPM22	1.25	1	2900	4	20	6	23	1.1
PPM25	1.5	1	2900	6	36	10	60	5.5
PPM27	1.5	1.25	2900	10	32	15	38	2.2
PPM32	2	1.5	2900	20	40	30	60	5.5

## LOW FLOW, HIGH HEAD APPLICATIONS

The PPM range of mechanically sealed pumps have been built to endure all types or applications that require a relatively low flow and high head. Our pumps are manufactured in the UK, meaning we can offer great versatility to modify any standard pump to meet with any plant particular requirements. This can vary from fitting a particular seal type, to modifying the location of the inlet and outlet to fit existing pipework. This is usually with very little difference to the price or lead time.

## NO OBSOLETE PARTS POLICY

Our whole range of mechanical seal pumps come with our no obsolete parts policy guarantee. This means if you have a Crest made centrifugal pump ( even in service for over 40 years - 32 years is the record!) we guarantee to provide spares, maintenance or an exact replacement of the original pump. Complete with all modifications and specifications.

# PPM PUMP RANGE



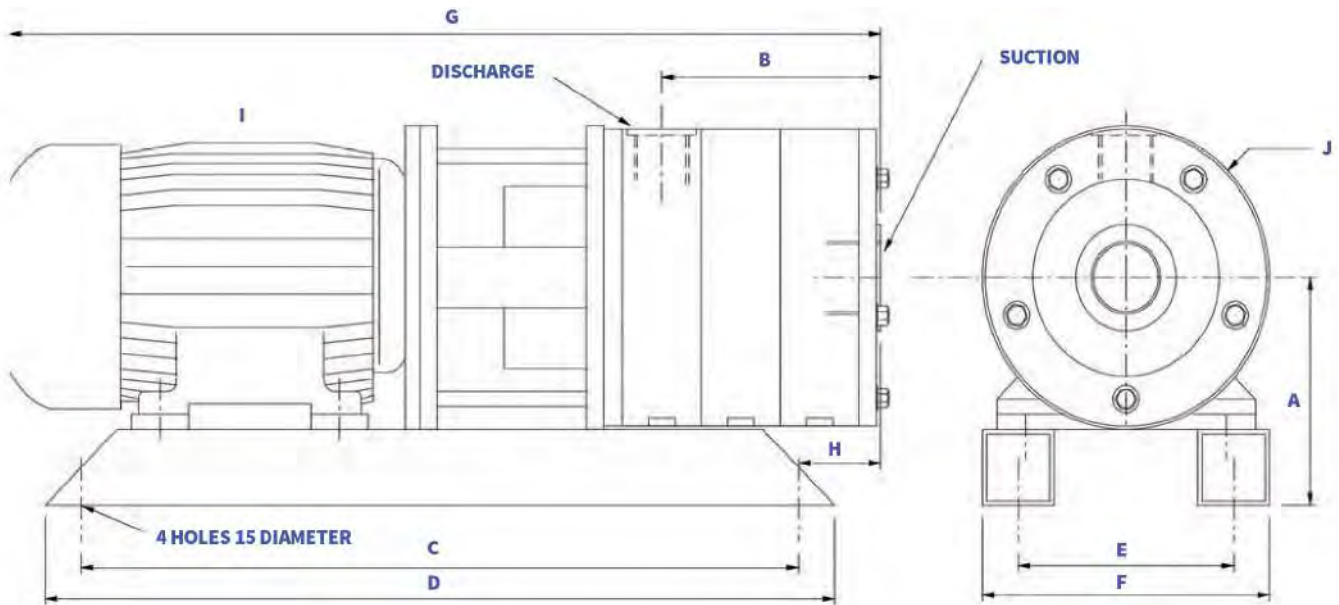
MULTI STAGE, **MECHANICALLY SEALED**, CENTRIFUGAL PUMPS

## 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.

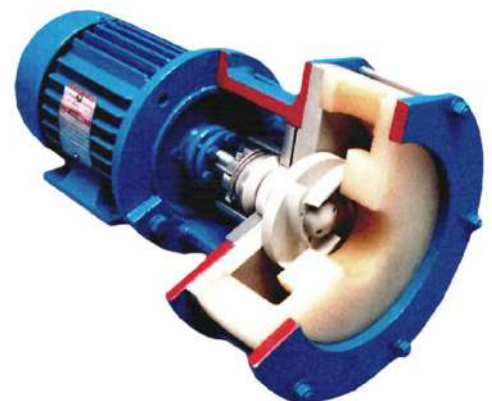


MODEL	A	B	C	D	E	F	G	H	I	J	SUCTION ("BSPF)	DISCHARGE ("BSPF)
PPM 22/2 (D80)	150	94	500	550	150	200	514	0	*	170	1.25	1
PPM 22/3 (D90S)	152	143	475	515	150	200	562	98	*	170	1.25	1
PPM 27/2 (D90L)	150	98	475	515	150	200	529	50	*	200	1.5	1.25
PPM 27/3 (D100)	167	153	500	550	150	200	640	107	*	200	1.5	1.25
PPM 32/2 (D112)	215	122	670	750	170	250	645	-52	*	280	2	1.5
PPM 32/3 (D132)	222	202	820	900	220	300	824	-38	*	280	2	1.5



**40+ YEARS EXPERIENCE**

Crest pumps group began designing and manufacturing our mechanical seal range from solid in 1973, and have continued to improve and enhance the specifications of the range to make the pumps even more efficient and reliable. We have a great sense of pride when we receive a spares enquiry for a pump supplied and built over 25 years.



**PLASTIC MECHANICAL SEAL PUMPS**

# PPM PUMP RANGE



MULTI STAGE, **MECHANICALLY SEALED**, CENTRIFUGAL PUMPS

## CASE STUDY - CONOCOPHILLIPS

**“ConocoPhillips reduced running costs thanks to the lower energy consumption and higher efficiency design.”**

As part of a process refurbishment on the oil rig ‘Judy’ in the J-Area infrastructure on the Britannia oil field in the North Sea; ConocoPhillips required a custom-built pump to fit within the confines of the limited space and the existing pipework. These pumps would need to pump sea water with chlorine to flush out different parts of the system throughout the operations.

ConocoPhillips submitted their enquiry to Crest Pumps Group for a process pump that would be built to the exacting rig requirements, including a seal flush plan, long coupled and with a bronze coupling guard. Crest Pumps Group supplied the PPM32/2 mechanical seal pump in thermoplastic polypropylene manufactured from solid in our UK manufacturing plant.

As a result of choosing Crest Pumps Group for their flushing process, ConocoPhillips has been able to drastically reduce operational costs thanks to the energy efficiency of the Crest Range.



## CREST PLASTIC MECHANICAL SEAL PPM PUMPS - UTILISED BY



## APPLICATIONS



### CHEMICAL

Chemical application include chemical transfer, dosing, re-circulation, filtration, fume scrubbing and tanker off-loading.



### PETROCHEMICAL

Previous petrochemical installations include high temperature, high pressure, highly viscous applications as well as chemical injection, re-circulation, off-loading and solid handling.



### WATER TREATMENT

Providing reliable process pumps to the UK's largest waste-water treatment providers, for chemical transfer, desalination, reverse osmosis, water treatment and tanker unloading.



### PHARMACEUTICAL

Pharmaceutical companies have relied on Crest Pumps to provide pumps for ATEX requirements, chemical injection, CIP pumping, solid handling, high viscous medias and highly toxic applications.



### BIOFUELS

Fully ATEX certified process pumps for transfer of liquids in explosive atmospheres, solids handling, tanker unloading, recirculation and transfer.



### ENERGY GENERATION

Pumps supplied for various energy generation applications, including wind turbine, solar, and Vanadium redox flo batteries.



### MARINE

Centrifugal pumps supplied for various below deck applications including ballast water treatment, electrolysis, desalination and sea water cooling systems.

**Available in New Zealand from:**

Prime Fluid Management

Head Office: 10 Chesterfield St

Greymouth, West Coast

0800 482 747

[primefluid.co.nz](http://primefluid.co.nz)

