



MASTERPRIME

Centrifugal pumps suited to
dewatering and transfer applications
on flooded suction and suction lift
installations

MASTERFLOW

OVERVIEW

MASTERPRIME

Masterprime is a self-priming single stage low pressure centrifugal pump with semi open impeller designed for applications that have a suction lift. The large volume volute with inbuilt water peeler and venting allows separation of air from the water and achieves self-priming ability from a dry starting point.

Available in close and long coupled version. The wet end is manufactured from Cast Iron as standard construction or alternatively from Duplex Stainless construction making it ideal for sea water pumping and other rugged applications. Bearing Pedestal is cast iron with generously sized bearings.

Motor is MEPS compliant with IP66 protection, metric frame TEFC with Class F insulation, IE3 Standard.

Baseplate options include Hot Dip Galvanised, with height saving outriggers for spring mounts or a separate inertia base with springs. Seismic Spring Mounts available as an option.

Ideal for Heat Rejection Sea Water plant. Can be supplied in packaged configuration with Plate Heat Exchangers and Sea water Filters.

FEATURES AND BENEFITS

- Self-Priming.
- Suction line does not have to be primed
- Adjustable wear plate to compensate for wear over time
- Can pump solid in suspension

TYPICAL APPLICATIONS

- HVAC Sea Water heat rejection circuits
- Mine & Quarry Dewatering
- Landfill
- Dam Water transfer
- Harbour Water transfer
- Bilge Pumping
- Septic Systems

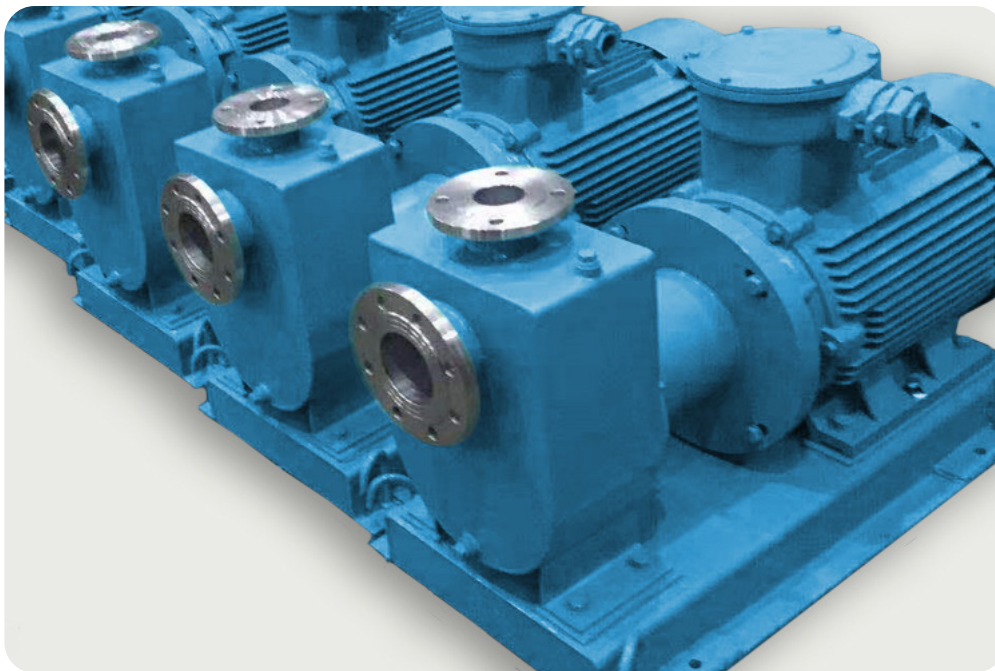
MATERIALS OF CONSTRUCTION

CODE	A	D
Casing	Cast Iron	Duplex SS
Casing Cover	Cast Iron	Duplex SS
Impeller	Cast Iron	Duplex SS
Shaft	Carbon Steel	316 SS
Wear Plate	Cast Iron	Duplex SS
Pedestal	Cast Iron	Cast Iron

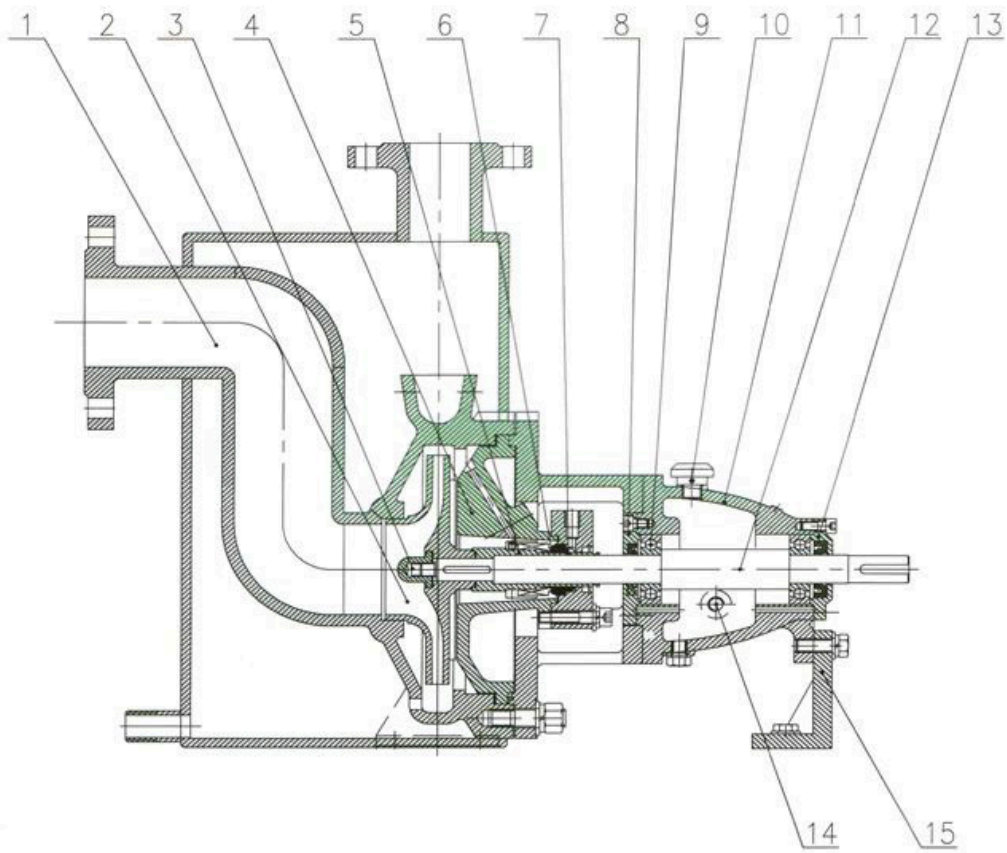
OPERATING LIMITS - 50HZ

HEAD MAX	m	50 m
Max Flow	l/sec	150
Max Operating Temp	°C	110
Min Operating Temp	°C	-5
Max Operating Pressure	bar	10
Max Operating Speed	rpm	2900

ALL DUPLEX CONSTRUCTION PUMP FOR CORROSIVE LIQUIDS



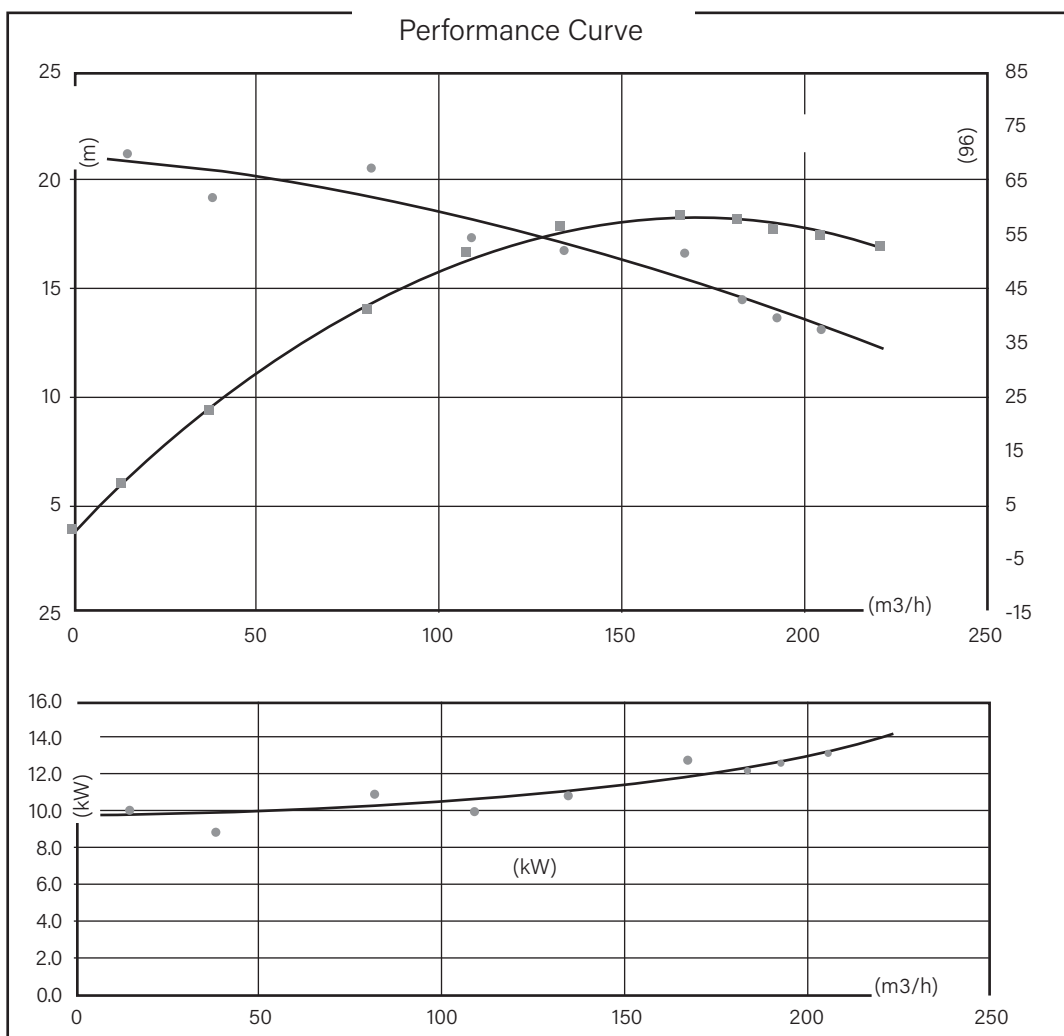
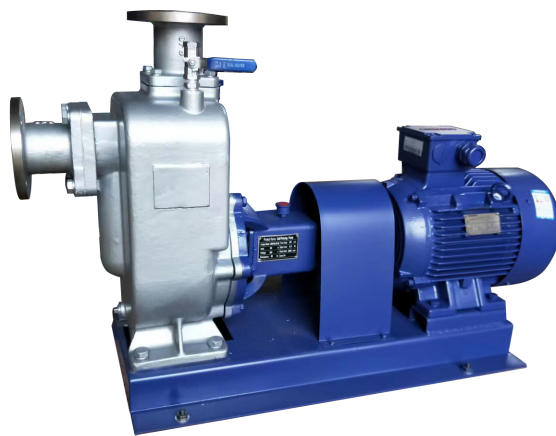
SECTIONAL VIEW: SELF-PRIMING PUMP MODEL SPD



ITEM NO.	DESCRIPTION
1	PUMP BODY
2	IMPELLER
3	IMPELLER NUT
4	PUMP COVER
5	SHAFT SLEEVE
6	MECHANICAL SEAL
7	SHAFT SLEEVE
8	FRONT SHAFT BEARING COVER
9	BALL BEARING
10	VENT PLUG
11	BEARING BOX
12	SHAFT
13	REAR SHAFT BEARING COVER
14	OIL MIRROR / OIL SIGHT GLASS
15	LEG SUPPORT BRACKET

ALL DIMENSIONS IN MM.

PERFORMANCE CURVE



Flow (m ³ /h)	180	Frequency (Hz)	50	Flowmeter range table	900
Head(m)	14	Speed (r/min)	1470	position difference (m)	0.44
Inlet diameter (mm)	150	Power (kW)	15	Inlet table position difference	0
Outlet diameter (mm)	125	Phase	three phase	(m) Atmospheric pressure	0.102(MPa)
NPSH (m)	4.5	Voltage (V)	380	water temperature	30



MASTERFLOW

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All content is subject to change without notice.