



# CASTLE PUMPS LTD

Whatever the process, we have the pump

16 Farrington Way, Eastwood Link Business Park, Eastwood, Nottinghamshire, NG16 3BF, UK

Telephone: +44 (0) 1773 533 283

Fax: + 44 (0) 1773 530 283

[www.castlepumps.com](http://www.castlepumps.com)

[sales@castlepumps.com](mailto:sales@castlepumps.com)

## DM Series Magnetically Driven Centrifugal Pumps



- Flow Range up to 35 m<sup>3</sup>/hr
- Heads up to 25 m
- Viscosity Range up to 150 cPs
- IEC & NEMA Motors available in 1 & 3 Ph / 50-60 Hz
- Seal-less – Leak Free!
- Available in Polypropylene / PVDF
- Require Positive Suction Head Operation
- Quick & Easy to Maintain
- Inexpensive & Readily Available Spares
- Working temperatures:
  - PP min +3°C to +65°C
  - PVDF min +3°C to +95°C



FS 596887



EMS 596 888

Registered in England No. 06307240

VAT No: GB915613630

DUNS No: 21006231



[www.castlepumps.com](http://www.castlepumps.com) | [sales@castlepumps.com](mailto:sales@castlepumps.com)



# CASTLE PUMPS LTD

Whatever the process, we have the pump

16 Farrington Way, Eastwood Link Business Park, Eastwood, Nottinghamshire, NG16 3BF, UK

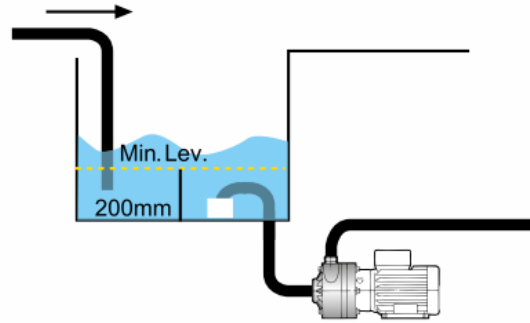
Telephone: +44 (0) 1773 533 283

Fax: + 44 (0) 1773 530 283

[www.castlepumps.com](http://www.castlepumps.com)

[sales@castlepumps.com](mailto:sales@castlepumps.com)

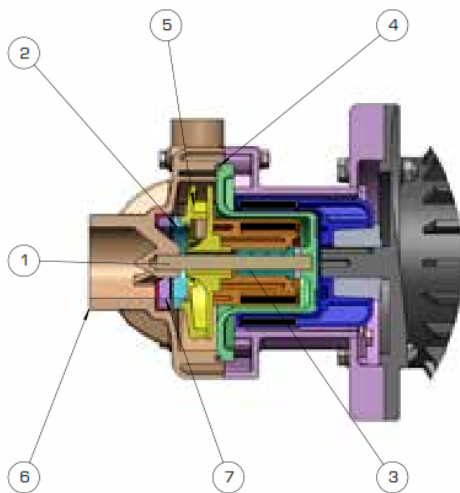
The DM Mag Drive Pumps should only be installed with a positive suction head and the shaft in a horizontal position.



Care should be taken to prevent dry running, the formation of a vortices and possible air ingresses in the suction. Dirty liquids can also reduce the pumps life and performance.

A set of magnets fitted to the drive shaft & impeller enable the operation of the pump. The reverse polarity between the two magnets facilitates the movement of the impeller and therefore the fluid through the pump. The impeller is not physically attached to the drive shaft of the motor, seals (the weak point on mechanically sealed pumps) are therefore eliminated and this consequently avoids leakages of the liquid drawn by the pump which are usually caused by wear and tear.

The pump head is manufactured with very few components therefore maintenance costs and down time are reduced to a minimum.



Component	Material
1 Shaft	Alumina Ceramic, 99.7%
2 Thrust Bearing Washer	PTFE + 30% Graphite
3 Bearing	PTFE + 30% Graphite
4 O-Ring	Viton / EPDM
5 Impeller	PP / PVDF + CF
6 Pump Casing	PP / PVDF + CF
7 Head Thrust Bearing Washer	Alumina Ceramic, 99.7%



FS 596887



EMS 596 888

Registered in England No. 06307240

VAT No: GB915613630

DUNS No: 21006231



[www.castlepumps.com](http://www.castlepumps.com) | [sales@castlepumps.com](mailto:sales@castlepumps.com)



# CASTLE PUMPS LTD

Whatever the process, we have the pump

16 Farrington Way, Eastwood Link Business Park, Eastwood, Nottinghamshire, NG16 3BF, UK

Telephone: +44 (0) 1773 533 283

Fax: + 44 (0) 1773 530 283

[www.castlepumps.com](http://www.castlepumps.com)

[sales@castlepumps.com](mailto:sales@castlepumps.com)

## Composition Coding:

Example: DM10P-SD1NE071

DM10 in PP, standard thrust washer, EPDM O-Ring, impeller Ø 98, NPT connections, MEC motor flange, motor frame size 071

<b>DM10</b>	<b>P-</b>	<b>S</b>	<b>D</b>	<b>1</b>	<b>N</b>	<b>E</b>	<b>071</b>
<b>Pump model</b>	<b>Pump body</b>	<b>Thrust washer</b>	<b>O Rings</b>	<b>Impeller</b>	<b>Connection</b>	<b>Motor Flange</b>	<b>Motor Casing</b>
<b>DM06</b> <b>DM10</b> <b>DM15</b> <b>DM30</b>	<b>P</b> - Polypropylene <b>FC</b> - PVDF +Cf	<b>S</b> - Standard (ceramic + PTFE Graphite)	<b>D</b> - EPDM <b>V</b> - Viton	<b>DM06</b> 1=Ø 81 2=Ø 70 3=Ø 65 <b>DM10</b> 1=Ø 98 2=Ø 85 3=Ø 70 <b>DM15</b> 1=Ø 123 2=Ø 108 3=Ø 90 <b>DM30</b> 1=Ø 134 2=Ø 122 3=Ø 110	<b>N</b> - NPT <b>B</b> - BSP	<b>E</b> - MEC <b>U</b> - NEMA	<b>DM06</b> 063 071 <b>DM10</b> 071 080 <b>DM15</b> 090 <b>DM30</b> 090 100 112



FS 596887



EMS 596 888

Registered in England No. 06307240

VAT No: GB915613630

DUNS No: 21006231



[www.castlepumps.com](http://www.castlepumps.com) | [sales@castlepumps.com](mailto:sales@castlepumps.com)



# CASTLE PUMPS LTD

Whatever the process, we have the pump

16 Farrington Way, Eastwood Link Business Park, Eastwood, Nottinghamshire, NG16 3BF, UK

Telephone: +44 (0) 1773 533 283

Fax: + 44 (0) 1773 530 283

www.castlepumps.com

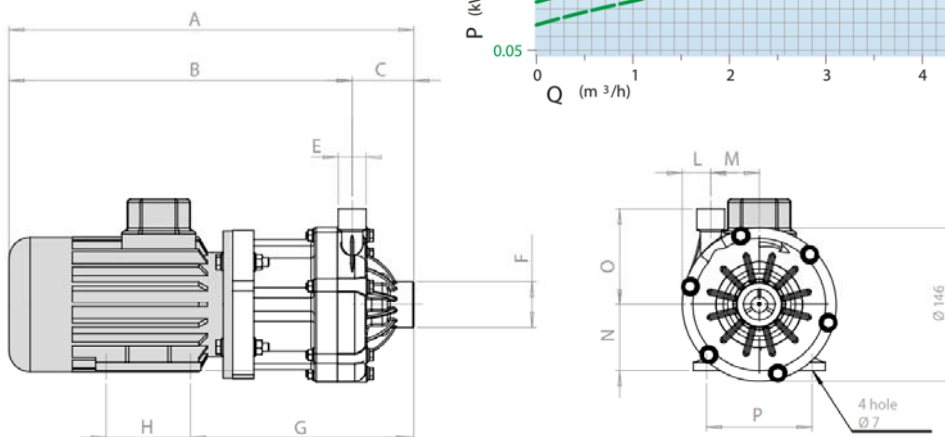
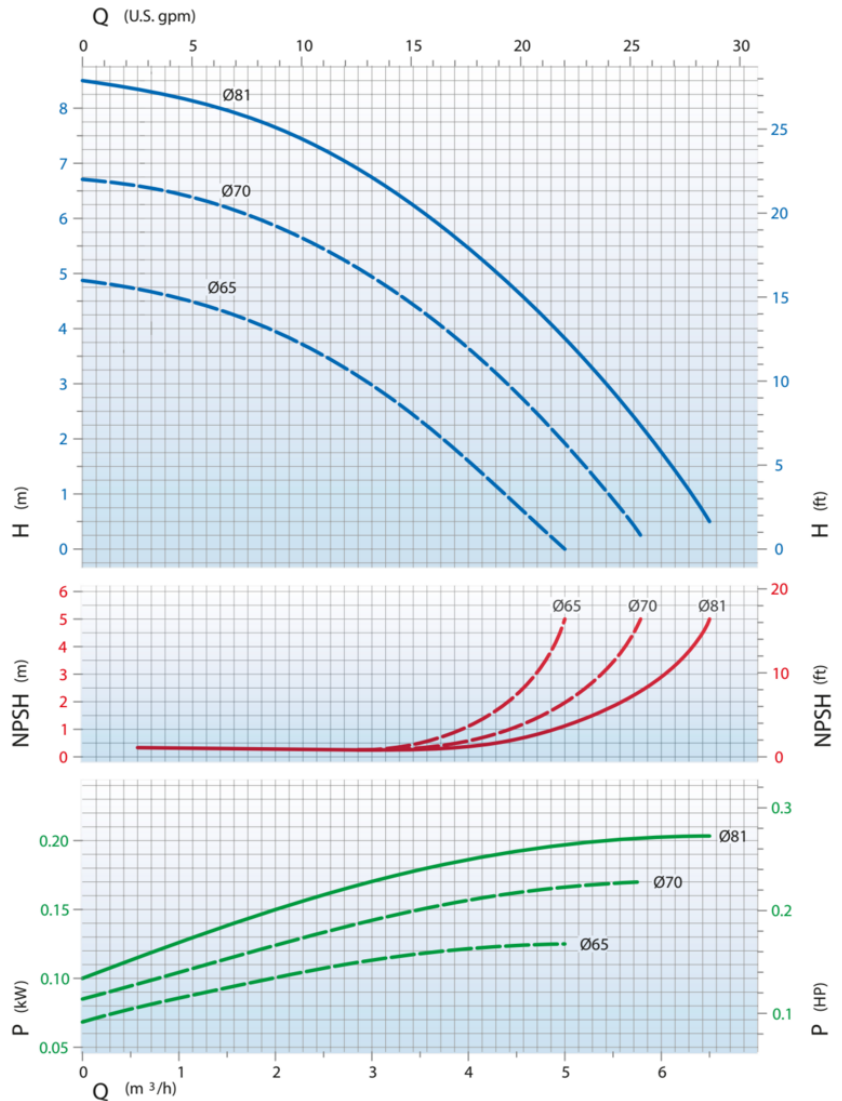
sales@castlepumps.com

## DM 06 Models

### Impeller Selection vs Specific Gravity

Impeller Size	0.25 kW Motor	0.37 kW Motor
81 mm ø	Up to 1.2	Up to 1.8
70 mm ø	Up to 1.5	Up to 2
65 mm ø	Up to 1.8	Up to 2

81 mm Impeller is fitted as standard



model	motor size	power	A	B	C	E	F	G	H	L	M	N	O	P	Kg PP	Kg PVDF
DM06	IEC 63	0,25 Kw	383	325	58	3/4" M <sup>(1)</sup>	1" F <sup>(1)</sup>	211	80	27	46	63	91	100	6,7	7
DM06	IEC 71	0,37 Kw	404	346	58	3/4" M <sup>(1)</sup>	1" F <sup>(1)</sup>	217	90	27	46	71	91	112	7,5	7,8
DM06	NEMA 56C	0,5 Hp	436	377	58	3/4" M <sup>(1)</sup>	1" F <sup>(1)</sup>	228	90	27	46	89	91	112	-	-

<sup>(1)</sup> gas bsp o NPT



FS 596887



EMS 596 888

Registered in England No. 06307240

VAT No: GB915613630

DUNS No: 21006231





# CASTLE PUMPS LTD

Whatever the process, we have the pump

16 Farrington Way, Eastwood Link Business Park, Eastwood, Nottinghamshire, NG16 3BF, UK

Telephone: +44 (0) 1773 533 283

Fax: + 44 (0) 1773 530 283

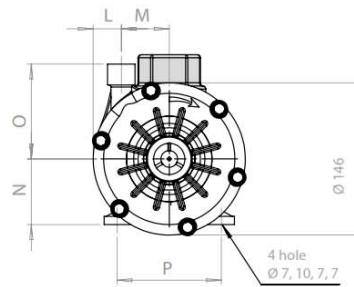
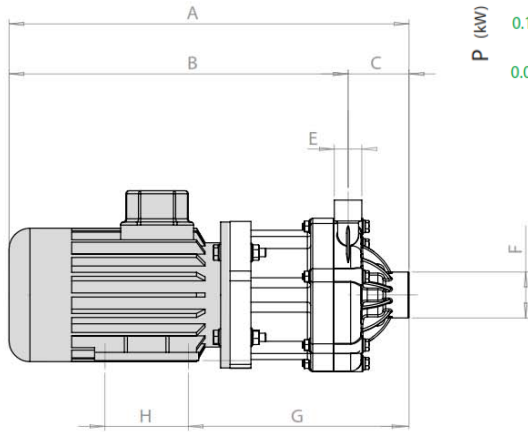
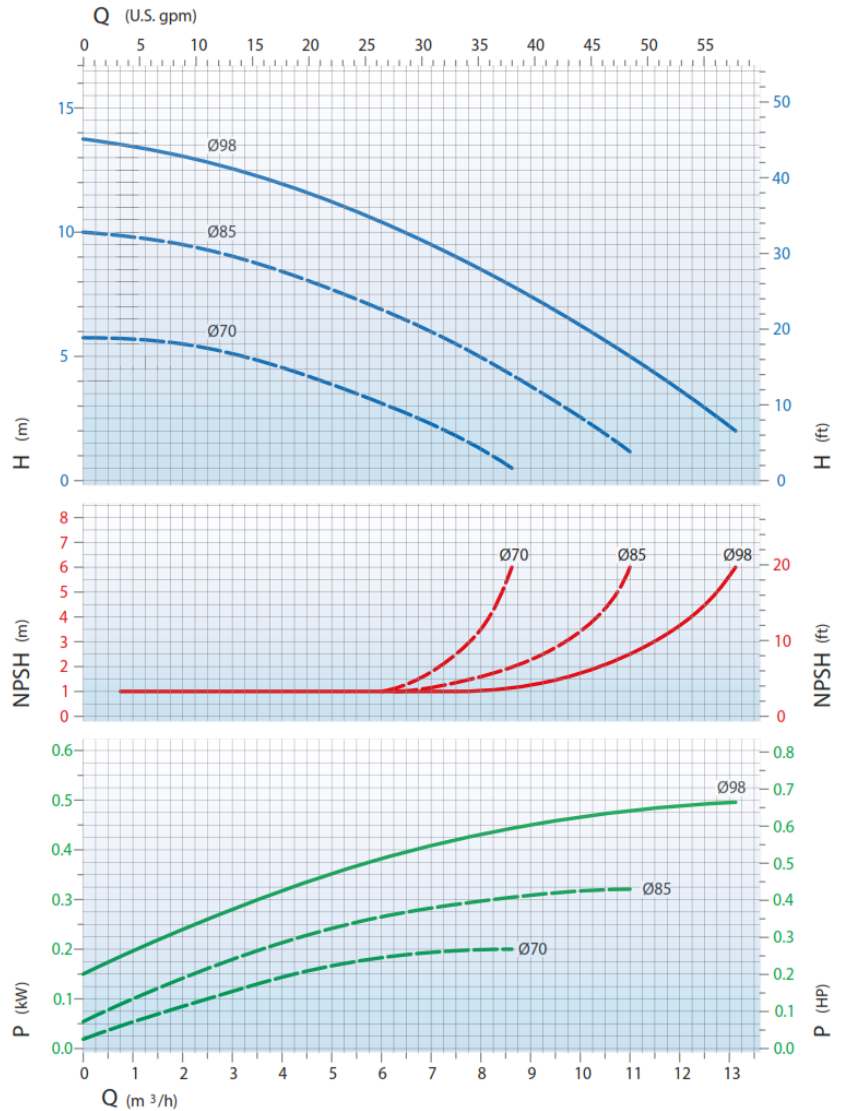
www.castlepumps.com

sales@castlepumps.com

## DM 10 Models

Impeller Selection vs Specific Gravity	0.55 kW Motor	0.75 kW Motor
98 mm ø	Up to 1.1	Up to 1.5
85 mm ø	Up to 1.6	Up to 2
70 mm ø	Up to 2	Up to 2

98 mm Impeller is fitted as standard



model	motor size	power	A	B	C	E	F	G	H	L	M	N	O	P	Kg PP	Kg PVDF
DM10	IEC 71	0,55 Kw	417	349	68	1" M <sup>(*)</sup>	1 1/2" F <sup>(*)</sup>	229	90	25	47	71	91	112	8,6	9
DM10	IEC 80	0,75 Kw	459	391	68	1" M <sup>(*)</sup>	1 1/2" F <sup>(*)</sup>	346	100	25	47	80	91	125	10,6	11
DM10	NEMA 56C	0,75 Hp	448	380	68	1" M <sup>(*)</sup>	1 1/2" F <sup>(*)</sup>	240	90	25	47	89	91	112	-	-
DM10	NEMA 143TC	1,00 Hp	482	414	68	1" M <sup>(*)</sup>	1 1/2" F <sup>(*)</sup>	245	90	25	47	89	91	112	-	-

(\*) gas bsp o NPT



FS 596887



EMS 596 888

Registered in England No. 06307240

VAT No: GB915613630

DUNS No: 21006231





# CASTLE PUMPS LTD

Whatever the process, we have the pump

16 Farrington Way, Eastwood Link Business Park, Eastwood, Nottinghamshire, NG16 3BF, UK

Telephone: +44 (0) 1773 533 283

Fax: + 44 (0) 1773 530 283

www.castlepumps.com

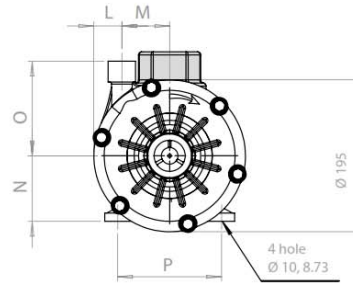
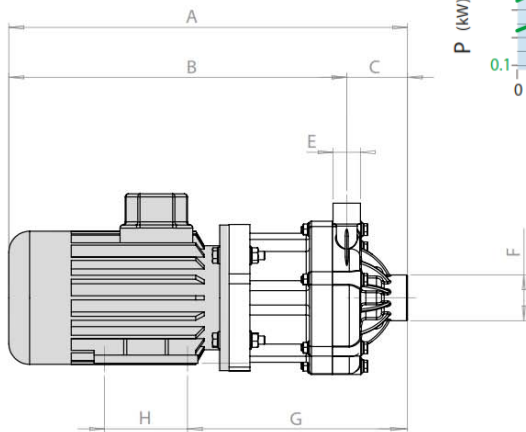
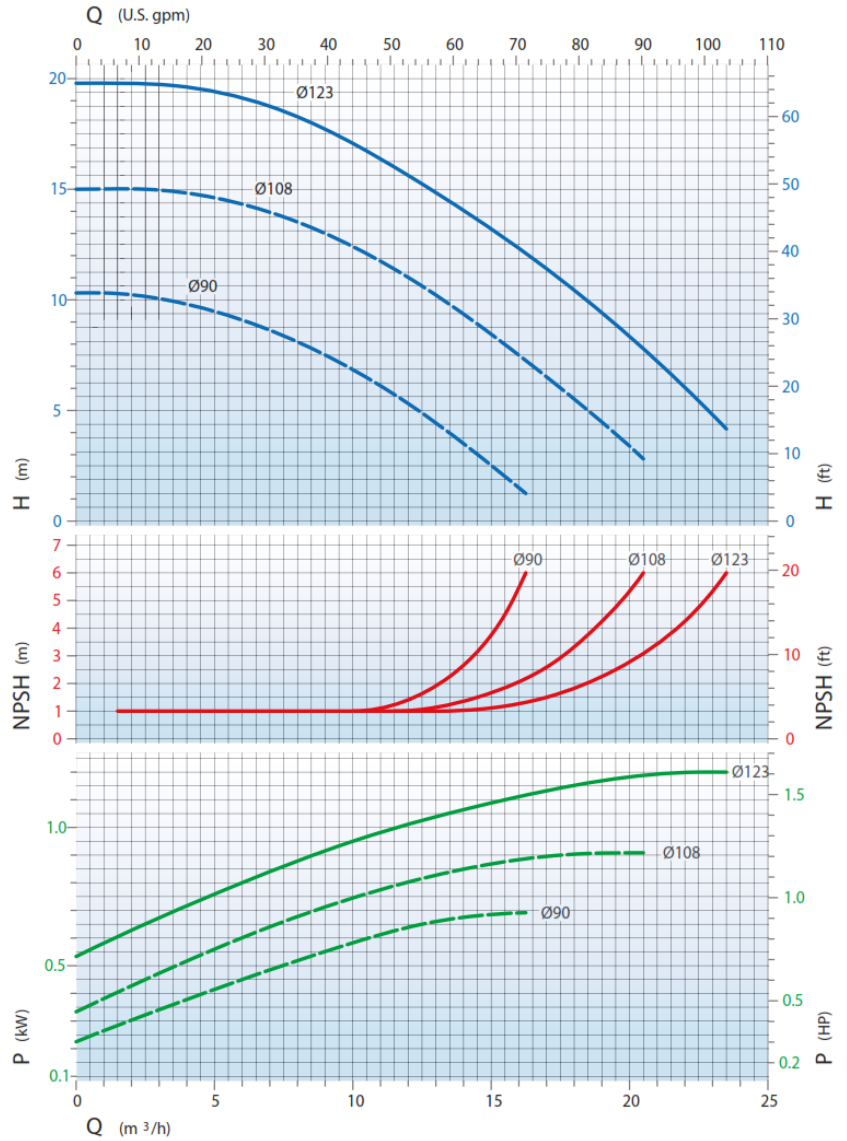
sales@castlepumps.com

## DM 15 Models

### Impeller Selection vs Specific Gravity

Impeller Size	1.5 kW Motor	2.2 kW Motor
123 mm ø	Up to 1.1	Up to 1.8
108 mm ø	Up to 1.6	Up to 2
90 mm ø	Up to 2	Up to 2

123 mm Impeller is fitted as standard



model	motor size	power	A	B	C	E	F	G	H	L	M	N	O	P	Kg PP	Kg PVDF
DM15	IEC 90	1,5 Kw	489	408	81	1"1/4 M <sup>(*)</sup>	1"1/2 F <sup>(*)</sup>	298	125	35	62	90	125	140	-	-
DM15	IEC 90	2,2 Kw	489	408	81	1"1/4 M <sup>(*)</sup>	1"1/2 F <sup>(*)</sup>	298	125	35	62	90	125	140	-	-
DM15	NEMA 145TC	3 Hp	530	449	81	1"1/4 M <sup>(*)</sup>	1"1/2 F <sup>(*)</sup>	327	127	34	62	88	125	139	-	-

<sup>(\*)</sup> gas bsp o NPT



FS 596887



EMS 596 888

Registered in England No. 06307240

VAT No: GB915613630

DUNS No: 21006231





# CASTLE PUMPS LTD

Whatever the process, we have the pump

16 Farrington Way, Eastwood Link Business Park, Eastwood, Nottinghamshire, NG16 3BF, UK

Telephone: +44 (0) 1773 533 283

Fax: + 44 (0) 1773 530 283

www.castlepumps.com

sales@castlepumps.com

## DM 30 Models

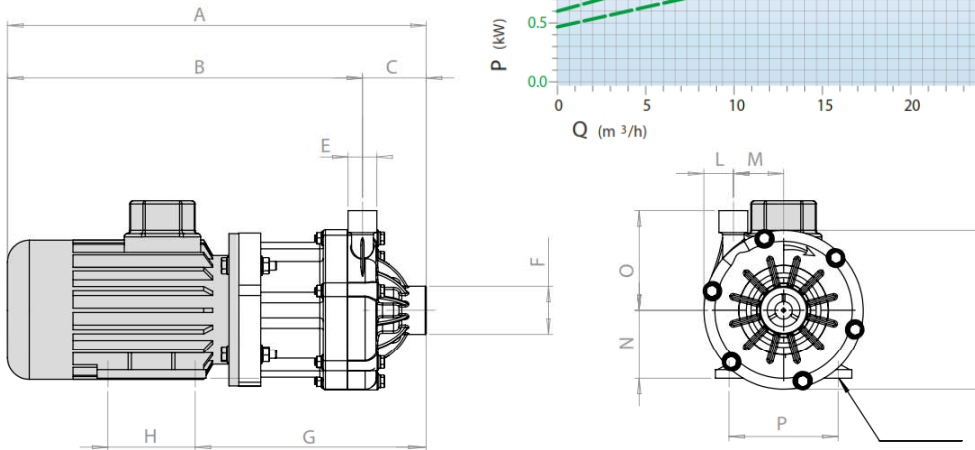
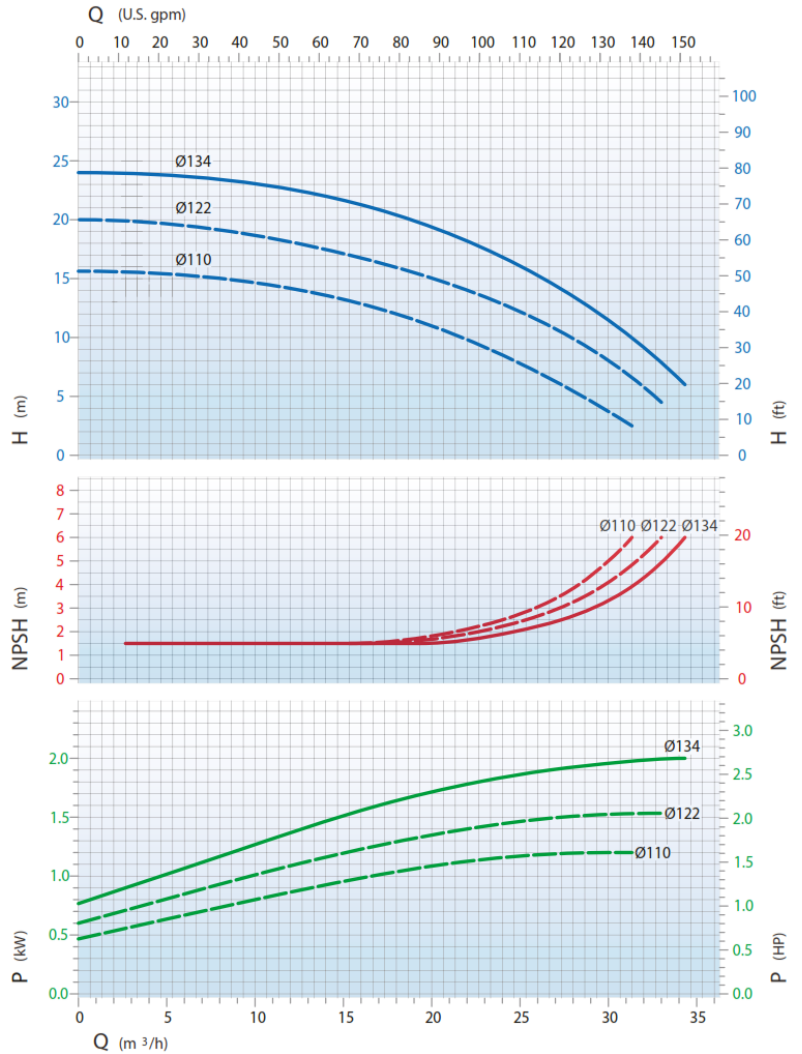
### Impeller Selection vs Specific Gravity

Impeller Size	2.2 kW Motor	3 kW Motor
134 mm ø	Up to 1.1	Up to 1.5
122 mm ø	Up to 1.4	Up to 2
110 mm ø	Up to 1.8	Up to 2

### Impeller Size 4 kW Motor

134 mm ø	Up to 1.8
122 mm ø	Up to 2
110 mm ø	Up to 2

134 mm Impeller is fitted as standard



model	motor size	power	A	B	C	E	F	G	H	L	M	N	O	P	Kg PP	Kg PVDF
DM30	IEC 90	2,2 Kw	499	408	91	1"1/2 M <sup>(*)</sup>	2 F <sup>(*)</sup>	308	125	31	66	90	140	140	-	-
DM30	IEC 100	3 Kw	524	433	91	1"1/2 M <sup>(*)</sup>	2 F <sup>(*)</sup>	315	140	31	66	100	140	160	-	-
DM30	IEC 112	4 Kw	549	458	91	1"1/2 M <sup>(*)</sup>	2 F <sup>(*)</sup>	322	140	31	66	112	140	190	-	-
DM30	NEMA 145TC	3 Hp	541	450	91	1"1/2 M <sup>(*)</sup>	2 F <sup>(*)</sup>	337	127	31	66	88	140	139	-	-
DM30	NEMA 184TC	5 Hp	608	517	91	1"1/2 M <sup>(*)</sup>	2 F <sup>(*)</sup>	328	139	31	66	114	140	190	-	-

(\*) gas bsp o NPT



FS 596887



EMS 596 888

Registered in England No. 06307240

VAT No: GB915613630

DUNS No: 21006231

