

# fluimac<sup>®</sup>

pump solution



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# COMPASS

MAG DRIVEN PUMPS

Made in  
Italy

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

The separation of liquid chamber/atmosphere by means of an isolation shell is the best solution to pump aggressive chemical, high purity liquids and liquids difficult to seal. Hermetic seal-less injection moulded thermoplastic pumps are the best solution for light duty applications.

Mag drive centrifugal pumps series COMPASS are made of Polypropylene and PVDF, and are suitable for high corrosive liquids. Thanks to the innovative mag drive system, COMPASS series reduce the risks of leakage and emissions and the maintenance costs.

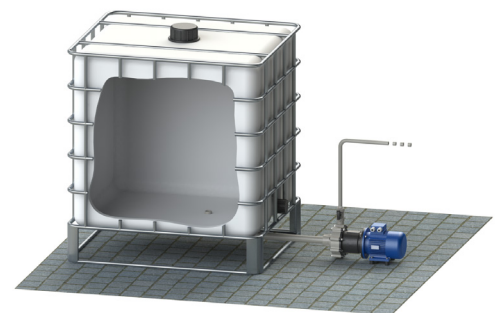
The transmission of the motion occurs through magnetic joints without any mechanical seal and this design guarantees the maximum safety and efficiency.

The pumped liquid has to be clean and without solids in suspension.

## MAIN FEATURES

- Casing and impeller in PP/PVDF
- O-ring in EPDM (standard for PP pumps)
- VITON (standard for PVDF pumps)
- PTFEC + ALLUMINA 99,7% (standard)
- Max flow: 35 m<sup>3</sup>/h; Max head 25 mts
- Temperature: from -5 °C to +90°C
- Max viscosity: 200 CPS
- Max system pressure: 5 bar
- Electric motors from 0,12Kw up to 4kW

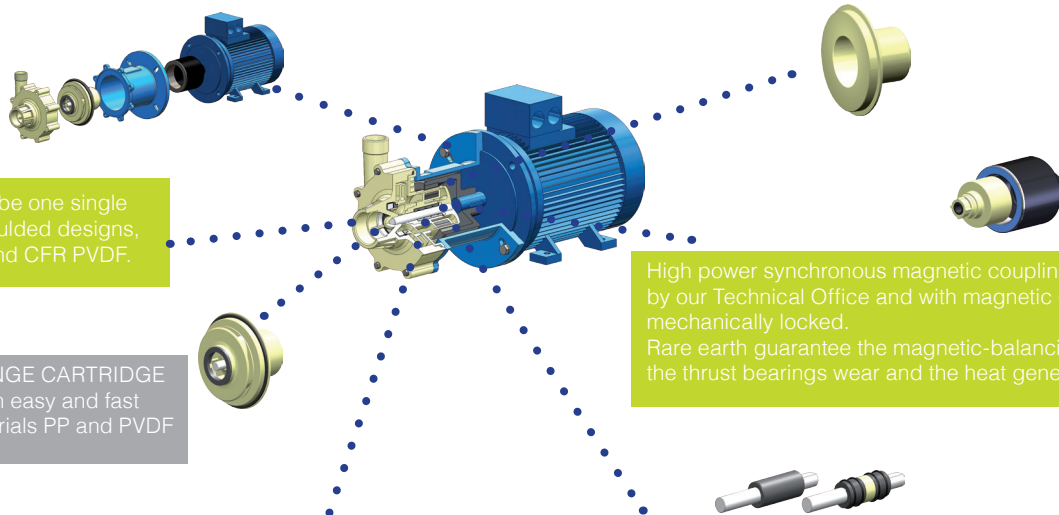
## INSTALLATION



POSITIVE SUCTION

Few components (extremel easy maintenance), competitive prices, guaranteed chemical compatibility

The rear shell is made of thermoplastic materials, ellipsoidal profile, zero magnetic losses, GFR PP or CFR PVDF materials



Pump casing shall be one single piece, injection moulded designs, made of GFR PP and CFR PVDF.

RWP QUICK CHANGE CARTRIDGE KIT to guarantee an easy and fast maintenance, materials PP and PVDF

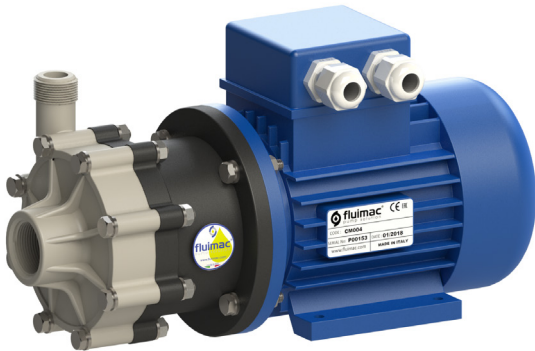
The sealing system with O-Rings prevents from leaking in the atmosphere – different materials available:  
 - EPDM  
 - VITON®

High power synchronous magnetic coupling designed by our Technical Office and with magnetic elements mechanically locked.  
 Rare earth guarantee the magnetic-balancing to avoid the thrust bearings wear and the heat generation

Field assembling of the product lubricated bearing arrangement does not require special tools. The Shaft / Bearing materials are available in two different configurations to provide the best solution for each application:  
 - PTFEC – ALLUMINA 99,7% (standard)  
 - CARBON – ALLUMINA 99,7%



## PP



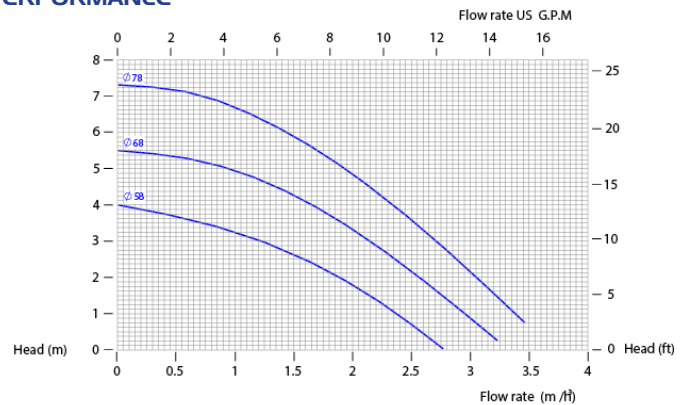
## PVDF



### TECHNICAL DATA

Inlet connections	<b>1" f</b>
Outlet connections	<b>1/2" m</b>
Max. Flow rate	<b>3,5 m3/h</b>
Max. Delivery head	<b>7,5 mts</b>
Max Viscosity	<b>100 CPS</b>
Max Temperature PP	<b>+65°C</b>
Min. Temperature PP	<b>-5°C</b>
Max Temperature PVDF	<b>+90°C</b>
Min. Temperature PVDF	<b>-10°C</b>

### PERFORMANCE



The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz

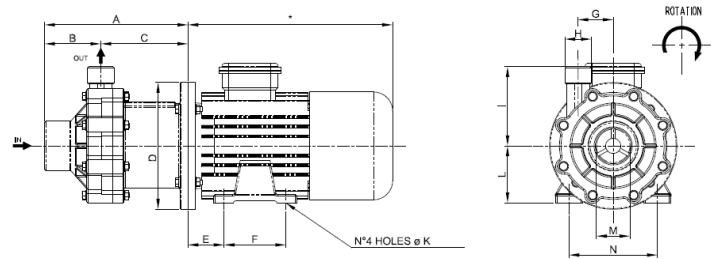
### SPECIFIC GRAVITY TABLE

IMPELLER	0,13 Kw
ø 78 mm	up to 1,2
ø 68 mm	up to 1,5
ø 58 mm	up to 1,8

### MOTOR SPECIFICATION

SIZE	Kw	RPM
IEC3 56	0,13	2900

### DIMENSIONS



A	B	C	D	E	F	G	H	I	L	M	N	K
114	38,5	75,5	120	36	71	34	1/2"	80	56	1"	90	5,8

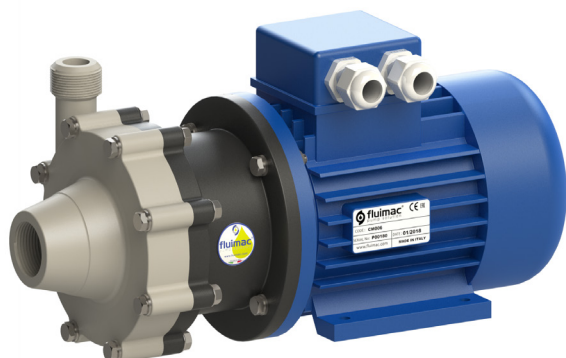
\*Depend on the manufacturer

### COMPOSITION

MODEL	CASING	O RING	SHAFT + BUSHING	IMPELLER	CONNECTIONS	MOTOR	MOTOR POWER
<b>CM004</b>	<b>P</b> = PP <b>K</b> = PVDF	<b>D</b> = EPDM <b>V</b> = VITON	<b>TA</b> = PTFEC + ALLUMINA 99,7%	<b>78</b> = ø 78 mm <i>STD</i> <b>68</b> = ø 68 mm <b>58</b> = ø 58 mm	<b>1</b> = BSP <i>STD</i> <b>2</b> = FLANGED <b>5</b> = NPT	<b>IE</b> = IEC 3PH <i>STD</i> <b>X</b> = ATEX - = NO MOTOR	<b>0,13</b> = 0,13 Kw <i>STD</i>



## PP



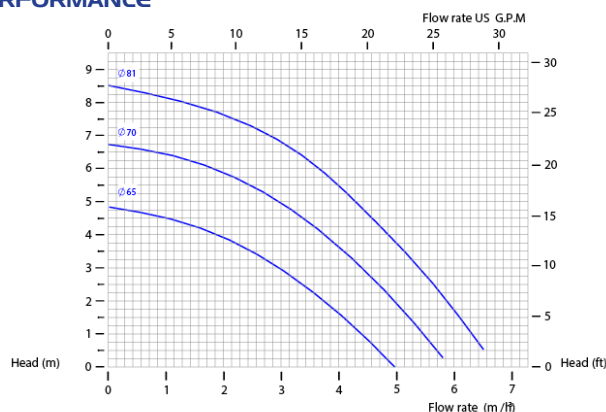
## PVDF



### TECHNICAL DATA

Inlet connections	<b>1" f</b>
Outlet connections	<b>3/4" m</b>
Max. Flow rate	<b>7 m3/h</b>
Max. Delivery head	<b>8,5 mts</b>
Max Viscosity	<b>150 CPS</b>
Max Temperature PP	<b>+65°C</b>
Min. Temperature PP	<b>-5°C</b>
Max Temperature PVDF	<b>+90°C</b>
Min. Temperature PVDF	<b>-10°C</b>

### PERFORMANCE



The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz

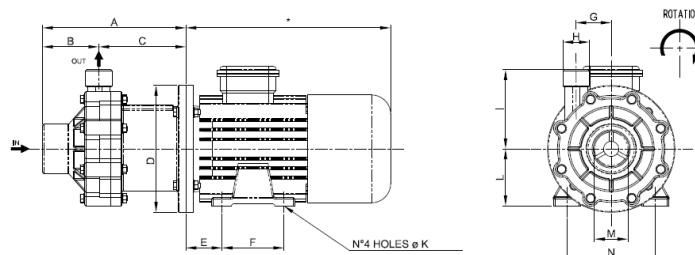
### SPECIFIC GRAVITY TABLE

IMPELLER	0,25 KW
ø 81 mm	up to 1,2
ø 70 mm	up to 1,5
ø 65 mm	up to 1,8

### MOTOR SPECIFICATION

SIZE	Kw	RPM
IEC3 63	0,25	2900

### DIMENSIONS



A	B	C	D	E	F	G	H	I	L	M	N	K
143	59	84	140	40	80	46	3/4"	91	63	1"	100	7

\*Depend on the manufacturer

### COMPOSITION

MODEL	CASING	O RING	SHAFT + BUSHING	IMPELLER	CONNECTIONS	MOTOR	MOTOR POWER
<b>CM006</b>	<b>P</b> = PP <b>K</b> = PVDF	<b>D</b> = EPDM <b>V</b> = VITON	<b>TA</b> = PTFEC + ALLUMINA 99,7%	<b>81</b> = ø 81 mm <i>STD</i> <b>70</b> = ø 70 mm <b>65</b> = ø 65 mm	<b>1</b> = BSP <i>STD</i> <b>2</b> = FLANGED <b>5</b> = NPT	<b>IE</b> = IEC 3PH <i>STD</i> <b>X</b> = ATEX - = NO MOTOR	<b>0,25</b> = 0,25 Kw <i>STD</i>



## PP



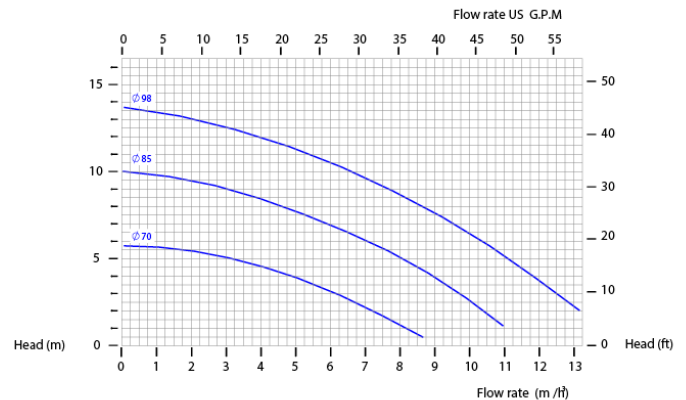
## PVDF



### TECHNICAL DATA

Inlet connections	<b>1" 1/2 f</b>
Outlet connections	<b>1" m</b>
Max. Flow rate	<b>13 m3/h</b>
Max. Delivery head	<b>14 mts</b>
Max Viscosity	<b>200 CPS</b>
Max Temperature PP	<b>+65°C</b>
Min. Temperature PP	<b>-5°C</b>
Max Temperature PVDF	<b>+90°C</b>
Min. Temperature PVDF	<b>-10°C</b>

### PERFORMANCE



The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz

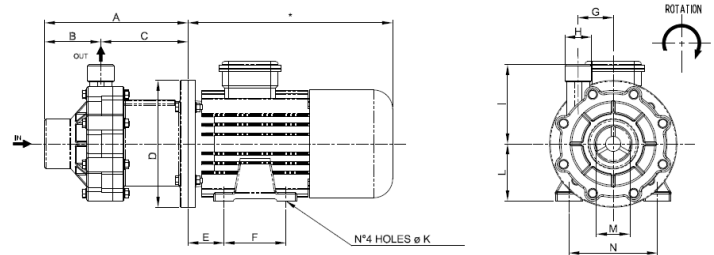
### SPECIFIC GRAVITY TABLE

IMPELLER	0,55 KW
ø 98 mm	up to 1,1
ø 85 mm	up to 1,6
ø 70 mm	up to 2

### MOTOR SPECIFICATION

SIZE	Kw	RPM
IEC3 71	0,55	2900

### DIMENSIONS



A	B	C	D	E	F	G	H	I	L	M	N	K
180	70,8	109,5	160	45	90	44	1"	100	71	1"1/2	112	7

\*Depend on the manufacturer

### COMPOSITION

MODEL	CASING	O RING	SHAFT + BUSHING	IMPELLER	CONNECTIONS	MOTOR	MOTOR POWER
<b>CM010</b>	<b>P</b> = PP <b>K</b> = PVDF	<b>D</b> = EPDM <b>V</b> = VITON	<b>TA</b> = PTFEC + ALLUMINA 99,7%	<b>98</b> = ø 98 mm <i>STD</i> <b>85</b> = ø 85 mm <b>70</b> = ø 70 mm	<b>1</b> = BSP <i>STD</i> <b>2</b> = FLANGED <b>5</b> = NPT	<b>IE</b> = IEC 3PH <i>STD</i> <b>X</b> = ATEX - = NO MOTOR	<b>0,55</b> = 0,55 Kw <i>STD</i>



## PP



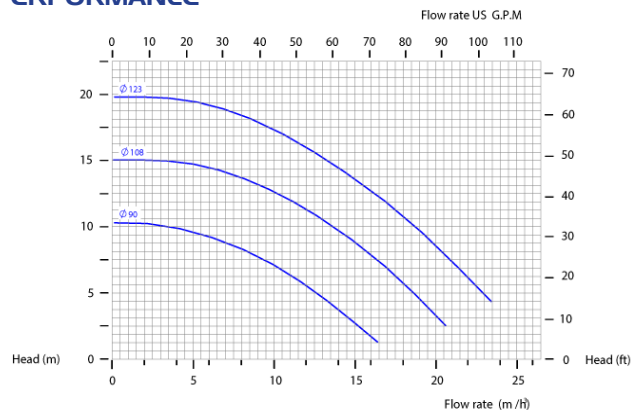
## PVDF



### TECHNICAL DATA

Inlet connections	<b>2" f</b>
Outlet connections	<b>1"1/4 m</b>
Max. Flow rate	<b>23,5 m3/h</b>
Max. Delivery head	<b>20 mts</b>
Max Viscosity	<b>200 CPS</b>
Max Temperature PP	<b>+65°C</b>
Min. Temperature PP	<b>-5°C</b>
Max Temperature PVDF	<b>+90°C</b>
Min. Temperature PVDF	<b>-10°C</b>

### PERFORMANCE



The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz

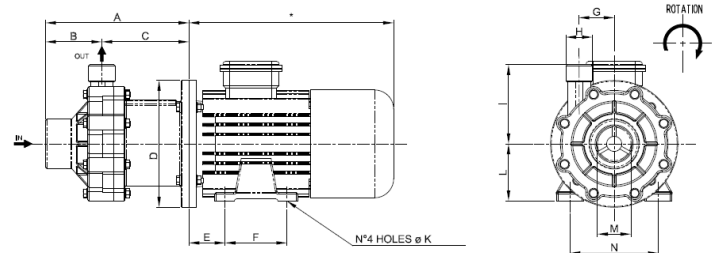
### SPECIFIC GRAVITY TABLE

IMPELLER	1,5 KW
ø 123 mm	up to 1,1
ø 108 mm	up to 1,6
ø 90 mm	up to 2

### MOTOR SPECIFICATION

SIZE	Kw	RPM
IEC3 80	1,5	2900

### DIMENSIONS



A	B	C	D	E	F	G	H	I	L	M	N	K
231	81	150	200	50	100	62,5	1"-1/4	125	80	2"	125	9,5

\*Depend on the manufacturer

### COMPOSITION

MODEL	CASING	O RING	SHAFT + BUSHING	IMPELLER	CONNECTIONS	MOTOR	MOTOR POWER
<b>CM015</b>	<b>P</b> = PP <b>K</b> = PVDF	<b>D</b> = EPDM <b>V</b> = VITON	<b>TA</b> = PTFEC + ALLUMINA 99,7%	<b>123</b> = ø 123 mm <i>STD</i> <b>108</b> = ø 108 mm <b>90</b> = ø 90 mm	<b>1</b> = BSP <i>STD</i> <b>2</b> = FLANGED <b>5</b> = NPT	<b>IE</b> = IEC 3PH <i>STD</i> <b>X</b> = ATEX - = NO MOTOR	<b>1,5</b> = 1,5 Kw <i>STD</i>





## PP



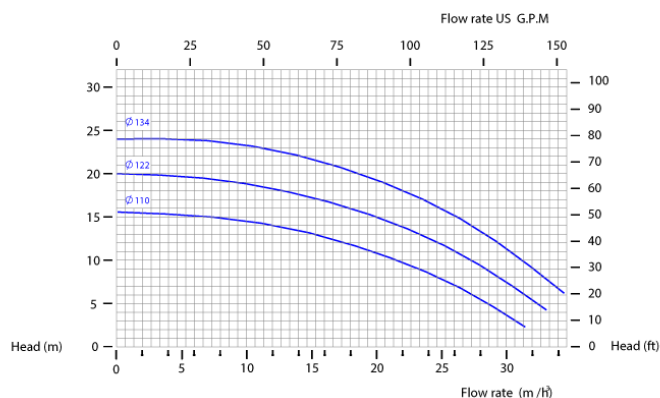
## PVDF



### TECHNICAL DATA

Inlet connections	<b>2" f</b>
Outlet connections	<b>1" 1/2 m</b>
Max. Flow rate	<b>35 m3/h</b>
Max. Delivery head	<b>24 mts</b>
Max Viscosity	<b>200 CPS</b>
Max Temperature PP	<b>+65°C</b>
Min. Temperature PP	<b>-5°C</b>
Max Temperature PVDF	<b>+90°C</b>
Min. Temperature PVDF	<b>-10°C</b>

### PERFORMANCE



The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz

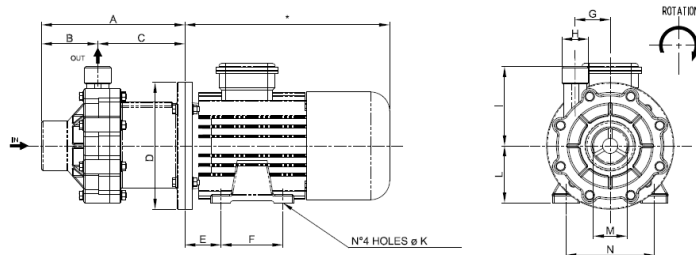
### SPECIFIC GRAVITY TABLE

IMPELLER	2,2 KW
Ø 134 mm	up to 1,1
Ø 122 mm	up to 1,4
Ø 110 mm	up to 1,8

### MOTOR SPECIFICATION

SIZE	Kw	RPM
IEC3 90	2,2	2900

### DIMENSIONS



A	B	C	D	E	F	G	H	I	L	M	N	K
278	91	187	200	56	100	66,5	1-1/2"	140	90	2"	140	10

\*Depend on the manufacturer

### COMPOSITION

MODEL	CASING	O RING	SHAFT + BUSHING	IMPELLER	CONNECTIONS	MOTOR	MOTOR POWER
<b>CM030</b>	<b>P</b> = PP <b>K</b> = PVDF	<b>D</b> = EPDM <b>V</b> = VITON	<b>TA</b> = PTFEC + ALLUMINA 99,7%	<b>134</b> = Ø 134 mm <i>STD</i> <b>122</b> = Ø 122 mm <b>110</b> = Ø 110 mm	<b>1</b> = BSP <i>STD</i> <b>2</b> = FLANGED <b>5</b> = NPT	<b>IE</b> = IEC 3PH <i>STD</i> <b>X</b> = ATEX - = NO MOTOR	<b>2,2</b> = 2,2 Kw <i>STD</i>



# fluimac®

pump solution

Made in  
Italy



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