

**fluimac**<sup>®</sup>  
pump solution



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# COMPASS

MAG DRIVE PUMPS

Made in  
Italy

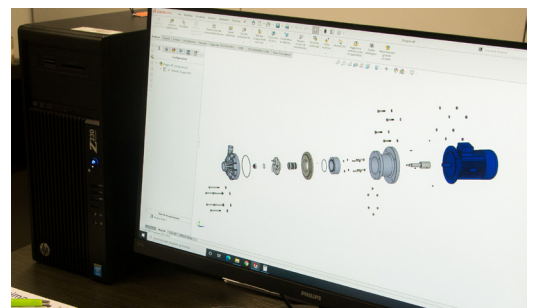
ENGLISH 

**fluimac**  
pump solution



## MAIN FEATURES

Fluimac is an original, young and dynamic company built in 2012 for a new concept of product. It is specialized in providing pump solutions with an innovative and continuously developing design of range. The huge experience, knowledge and efficiency of its team is the starting point of its own business. Fluimac stands out for its reliable and prompt technical support and assistance. The internal research and development department ensures the proficiency of its team, which constantly grows in order to satisfy all the customers' needs. The company keeps up with the constant evolution of the national and international market and its quality control guarantees innovative and certificated products, which respect current legal standards. The organization of the warehouse and the assembly/testing department, allows the company to offer short delivery times, immediate check of availability, speedy shipments and fast service assistance. The policy of Fluimac relies also on excellent customer service and a network of efficient, reliable distributors who ensure willingness, quality and technical support. This makes Fluimac a high quality company, grounded in excellence.



# MINI COMPASS

Fluimac MINI COMPASS are single stage, centrifugal impeller and magnetic drive pumps.

The range includes five models to deliver flows from 11 lt/min to 50 lt/min.

Compact dimension, low noise, absence of seals device make thee pumps ideal for application in any place or plant and can be incorporated into sophisticate equipment or “clean” environment.

The Drive magnet, outside the casing and keyed on the spindle, drives the magnetic impeller inside the hermetic casing. In this way, the traditional shaft seal and the consequent leakage problems are eliminated. So, there is no corrosion of the outer parts (motor and bearings) in the environment.

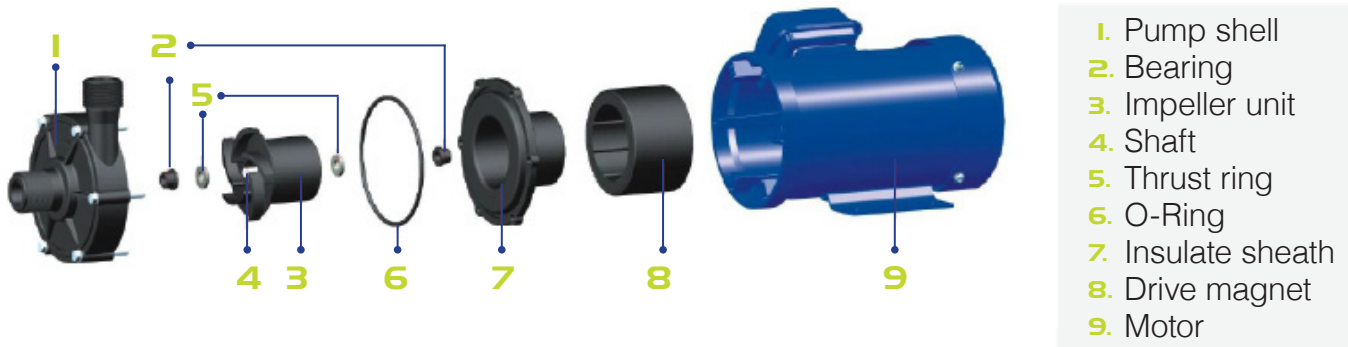
## MAIN FEATURES

- Casing and impeller in PP and PVDF
- O-ring in EPDM and VITON
- Shaft/Bearing in ALLUMINA 99,7%+PTFEC
- Max Flow-Rate: 50 lt/min
- Max Delivery Head: 8mt
- Temperature from -5°C to +90°C
- Max Viscosity: 20cps
- Electric Motors from 6W to 65W
- Max S.G.: 1,1

## INSTALLATION



POSITIVE SUCTION



1. Pump shell
2. Bearing
3. Impeller unit
4. Shaft
5. Thrust ring
6. O-Ring
7. Insulate sheath
8. Drive magnet
9. Motor

## MOTORS

| MODEL  | POWER | VOLTAGE  | FREQUENCY | PROTECTION |
|--------|-------|----------|-----------|------------|
| MC 10  | 6W    | 220/240V | 50/60Hz   | IP54       |
| MC 20  | 20W   | 220/240V | 50/60Hz   | IP54       |
| MC 30  | 45W   | 220/240V | 50/60Hz   | IP54       |
| MC 30H | 45W   | 220/240V | 50/60Hz   | IP54       |
| MC 40  | 65W   | 220/240V | 50/60Hz   | IP54       |

# MINI COMPASS



MC 10



MC 20



MC 30

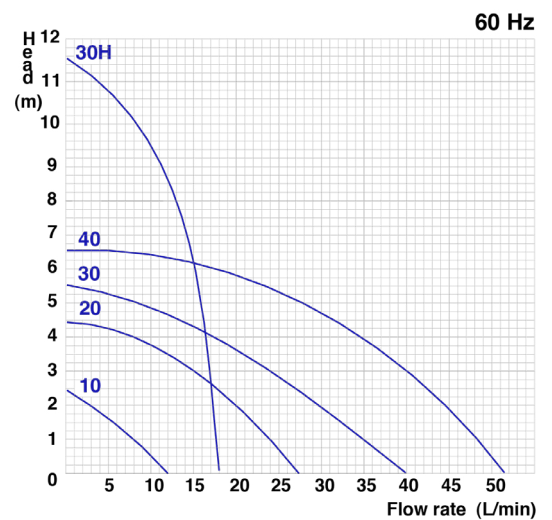
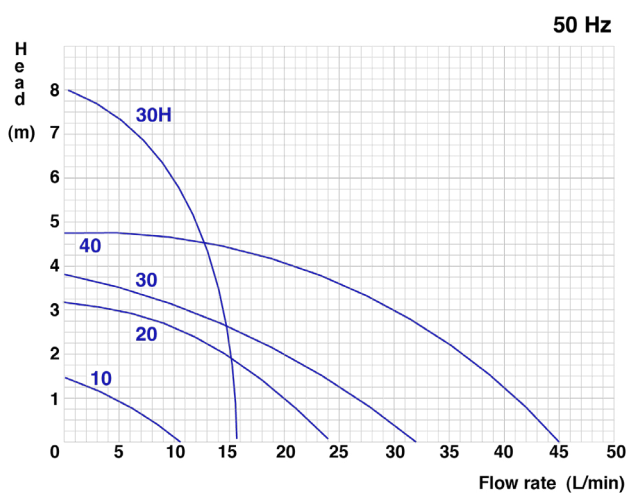


MC 30H

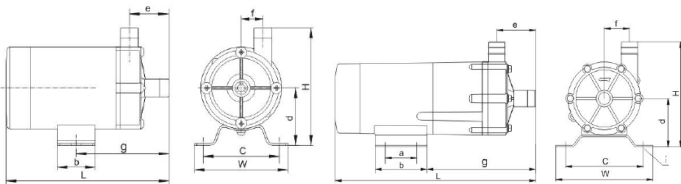


MC 40

## PERFORMANCE



## DIMENSIONS



| MODEL | W   | H   | L   | a  | b  | c   | d  | e    | F    | g   | i        | INLET/OUTLET | WEIGHT |
|-------|-----|-----|-----|----|----|-----|----|------|------|-----|----------|--------------|--------|
| 10    | 74  | 83  | 129 | -  | 30 | 60  | 36 | 31   | 17   | 74  | 2-Ø6     | 14mm         | 0,9 Kg |
| 20    | 85  | 115 | 211 | 30 | 50 | 68  | 56 | 38.5 | 28.5 | 106 | 5,5 x 10 | 3/4"         | 1,9 Kg |
| 30    | 120 | 130 | 248 | 40 | 64 | 100 | 60 | 48   | 31   | 131 | 4-Ø9     | 3/4"         | 3,1 Kg |
| 30H   | 120 | 130 | 234 | 40 | 64 | 100 | 60 | 40   | 40   | 120 | 4-Ø9     | 3/4"         | 3,1 Kg |
| 40    | 120 | 134 | 260 | 45 | 75 | 100 | 64 | 48   | 31   | 137 | 4-9 x 14 | 3/4"         | 3,8 Kg |

## COMPOSITION

| MODEL  | CASING             | O RING                | BUSHING + SHAFT                | MOTOR     | MOTOR POWER |
|--------|--------------------|-----------------------|--------------------------------|-----------|-------------|
| MC 10  |                    |                       |                                |           | S06 = 6w    |
| MC 20  |                    |                       |                                |           | S20 = 20w   |
| MC 30  | P = PP<br>K = PVDF | D = EPDM<br>V = VITON | TA = PTFEC +<br>ALLUMINA 99,7% | 1 P = 1PH | S45 = 45w   |
| MC 30H |                    |                       |                                |           | S45 = 45w   |
| MC 40  |                    |                       |                                |           | S65 = 65w   |

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.

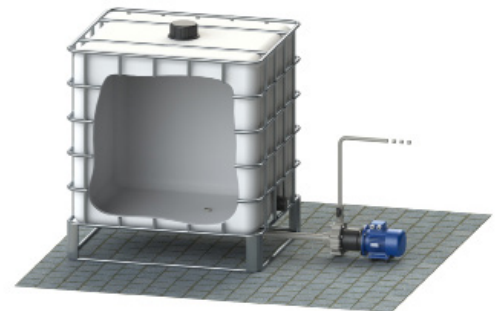
The transmission of the motion occurs through magnetic joints without any mechanical seal and this design guarantees the maximum safety and efficiency.

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

## MAIN FEATURES

- Casing and impeller in PP/PVDF
- O-ring in EPDM and VITON
- ALLUMINA + PTFEC 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 (extremely 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

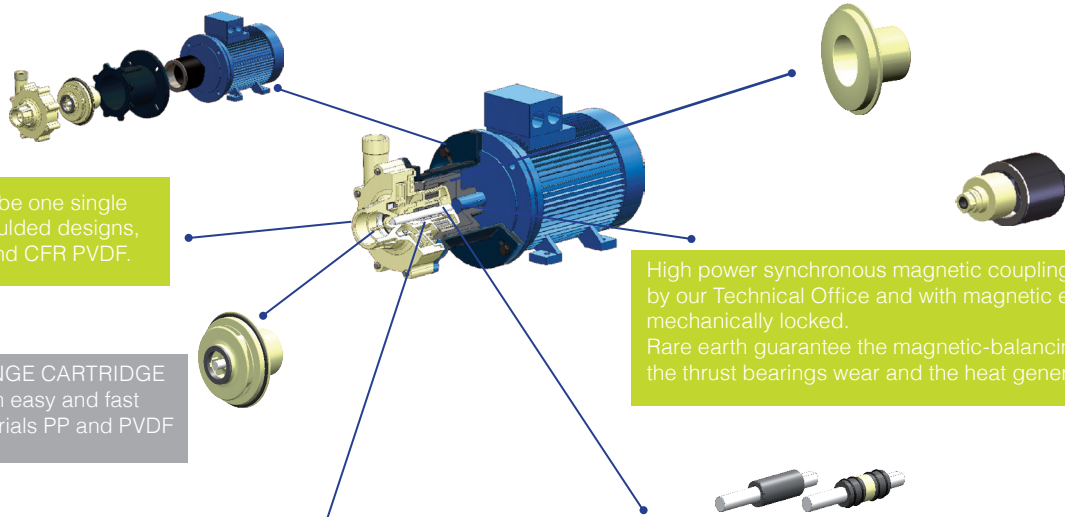
The sealing system with O-Rings prevents from leaking in the atmosphere – different materials available:

- 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



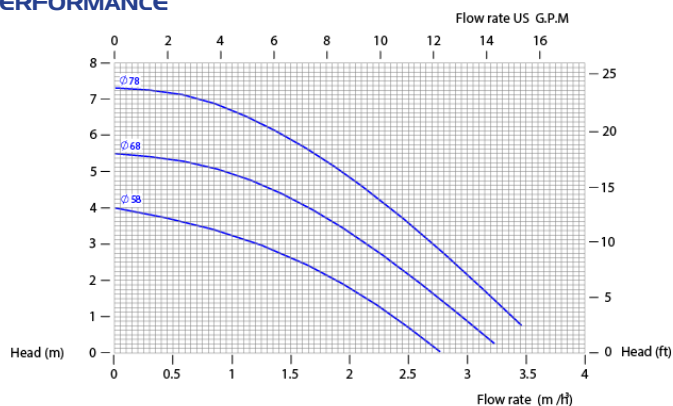
## PVDF



### 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>     |
| Temperature PP     | <b>-5°C +65°C</b>  |
| Temperature PVDF   | <b>-10°C +90°C</b> |
| Impeller           | <b>Semi-opened</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. These data may vary according to the construction materials and hydraulic conditions.

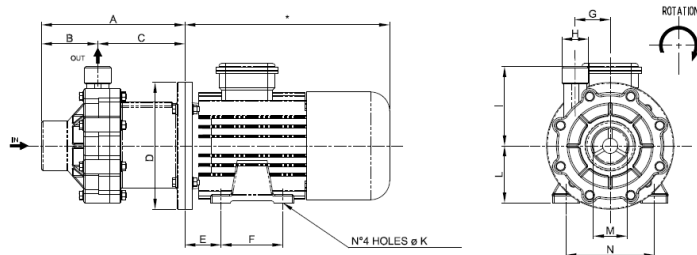
### SPECIFIC GRAVITY TABLE

| IMPELLER | 0,12 Kw   |
|----------|-----------|
| ø 78 mm  | up to 1,1 |
| ø 68 mm  | up to 1,3 |
| ø 58 mm  | up to 1,5 |

### MOTOR SPECIFICATION

| SIZE   | Kw   | RPM            |
|--------|------|----------------|
| IEC 56 | 0,12 | 2 poles - 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                              | BUSHING+SHAFT                                | IMPELLER  | CONNECTIONS                              | MOTOR VERSION          |
|-------------|----------------------------------|-------------------------------------|--|---|--|------------------------|
| <b>CM04</b> | <b>P = PP</b><br><b>K = PVDF</b> | <b>D = EPDM</b><br><b>V = VITON</b> | <b>TA = PTFEC +</b><br><b>ALLUMINA 99,7%</b> | <b>78 = ø 78 mm STD</b><br><b>68 = ø 68 mm</b><br><b>58 = ø 58 mm</b> | <b>1 = BSP STD</b><br><b>2 = FLANGED</b> | <b>IE = IEC FLANGE</b> |

## PP



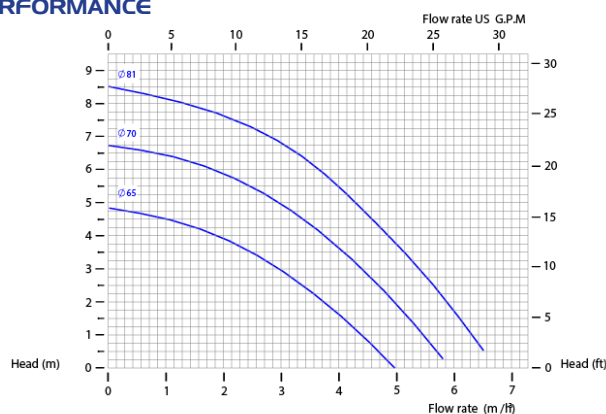
## PVDF



### 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>     |
| Temperature PP     | <b>-5°C +65°C</b>  |
| Temperature PVDF   | <b>-10°C +90°C</b> |
| Impeller           | <b>closed</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. These data may vary according to the construction materials and hydraulic conditions.

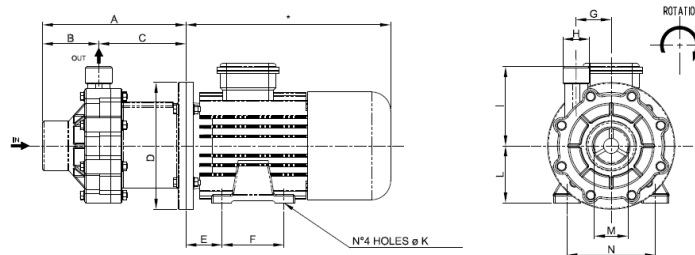
### SPECIFIC GRAVITY TABLE

| IMPELLER | 0,25 KW   | 0,37 KW   |
|----------|-----------|-----------|
| ø 81 mm  | up to 1,1 | up to 1,5 |
| ø 70 mm  | up to 1,3 | up to 1,8 |
| ø 65 mm  | up to 1,6 | up to 2   |

### MOTOR SPECIFICATION

| SIZE   | Kw   | RPM            |
|--------|------|----------------|
| IEC 63 | 0,25 | 2 poles - 2900 |
| IEC 63 | 0,37 | 2 poles - 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                              | BUSHING+SHAFT                                | IMPELLER  | CONNECTIONS                              | MOTOR VERSION          |
|-------------|----------------------------------|-------------------------------------|--|---|--|------------------------|
| <b>CM06</b> | <b>P = PP</b><br><b>K = PVDF</b> | <b>D = EPDM</b><br><b>V = VITON</b> | <b>TA = PTFEC +</b><br><b>ALLUMINA 99,7%</b> | <b>81 = ø 81 mm STD</b><br><b>70 = ø 70 mm</b><br><b>65 = ø 65 mm</b> | <b>1 = BSP STD</b><br><b>2 = FLANGED</b> | <b>IE = IEC FLANGE</b> |

## PP



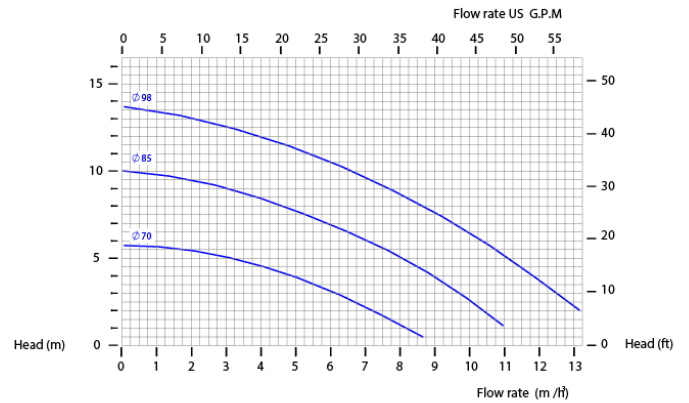
## PVDF



### 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>     |
| Temperature PP     | <b>-5°C +65°C</b>  |
| Temperature PVDF   | <b>-10°C +90°C</b> |
| Impeller           | <b>closed</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. These data may vary according to the construction materials and hydraulic conditions.

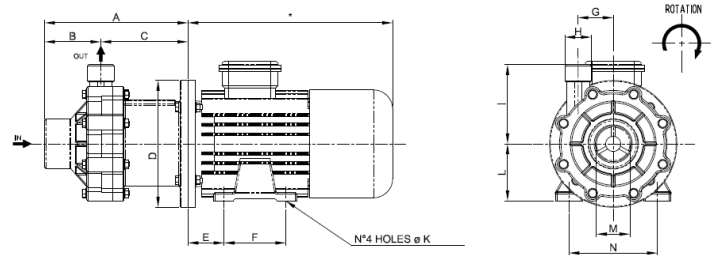
### SPECIFIC GRAVITY TABLE

| IMPELLER | 0,55 KW   | 0,75 KW   |
|----------|-----------|-----------|
| ø 98 mm  | up to 1,1 | up to 1,3 |
| ø 85 mm  | up to 1,5 | up to 1,8 |
| ø 70 mm  | up to 1,8 | up to 2   |

### MOTOR SPECIFICATION

| SIZE   | Kw   | RPM            |
|--------|------|----------------|
| IEC 71 | 0,55 | 2 poles - 2900 |
| IEC 71 | 0,75 | 2 poles - 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                              | BUSHING+SHAFT                                | IMPELLER   | CONNECTIONS                              | MOTOR VERSION          |
|-------------|----------------------------------|-------------------------------------|--|--|--|------------------------|
| <b>CM10</b> | <b>P = PP</b><br><b>K = PVDF</b> | <b>D = EPDM</b><br><b>V = VITON</b> | <b>TA = PTFEC +</b><br><b>ALLUMINA 99,7%</b> | <b>98= ø 98 mm STD</b><br><b>85= ø 85 mm</b><br><b>70= ø 70 mm</b> | <b>1 = BSP STD</b><br><b>2 = FLANGED</b> | <b>IE = IEC FLANGE</b> |



## PP



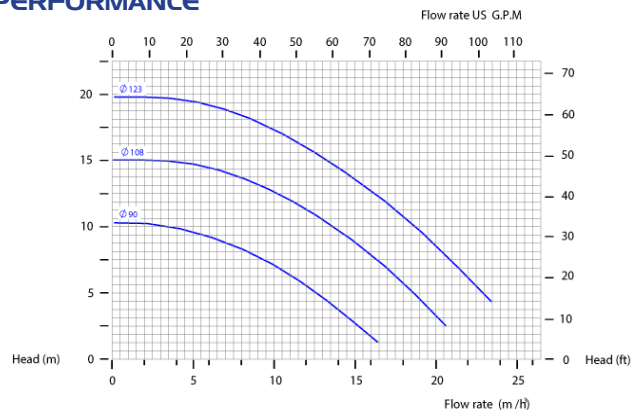
## PVDF



### 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>     |
| Temperature PP     | <b>-5°C +65°C</b>  |
| Temperature PVDF   | <b>-10°C +90°C</b> |
| Impeller           | <b>closed</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. These data may vary according to the construction materials and hydraulic conditions.

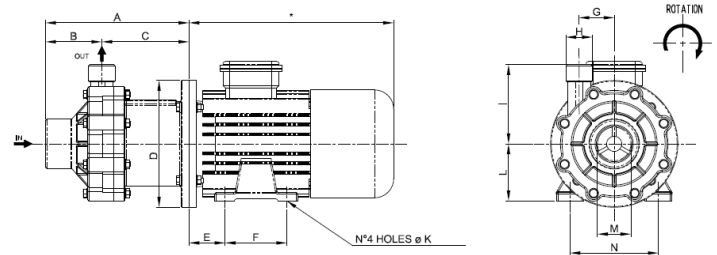
### SPECIFIC GRAVITY TABLE

| IMPELLER | 1,1 KW    | 1,5 KW    |
|----------|-----------|-----------|
| ø 123 mm | up to 1   | up to 1,1 |
| ø 108 mm | up to 1,2 | up to 1,5 |
| ø 90 mm  | up to 1,5 | up to 1,8 |

### MOTOR SPECIFICATION

| SIZE   | Kw  | RPM            |
|--------|-----|----------------|
| IEC 80 | 1,1 | 2 poles - 2900 |
| IEC 80 | 1,5 | 2 poles - 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                              | BUSHING+SHAFT                         | IMPELLER  | CONNECTIONS                              | MOTOR VERSION          |
|-------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|------------------------|
| <b>CM15</b> | <b>P</b> = PP<br><b>K</b> = PVDF | <b>D</b> = EPDM<br><b>V</b> = VITON | <b>TA</b> = PTFEC +<br>ALLUMINA 99,7% | <b>123</b> = ø 123 mm STD<br><b>108</b> = ø 108 mm<br><b>90</b> = ø 90 mm | <b>1</b> = BSP STD<br><b>2</b> = FLANGED | <b>IE</b> = IEC FLANGE |

## PP



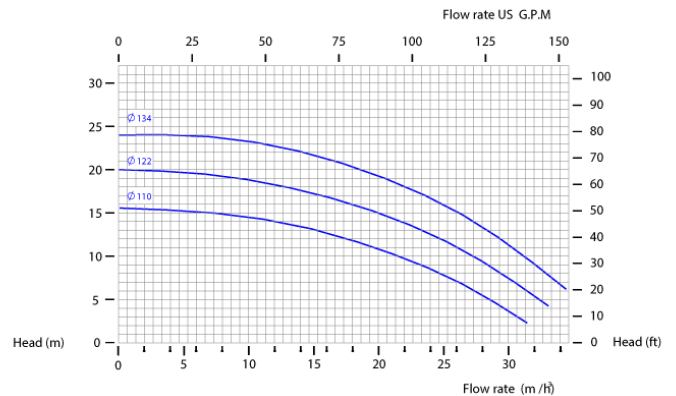
## PVDF



### 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>     |
| Temperature PP     | <b>-5°C +65°C</b>  |
| Temperature PVDF   | <b>-10°C +90°C</b> |
| Impeller           | <b>closed</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. These data may vary according to the construction materials and hydraulic conditions.

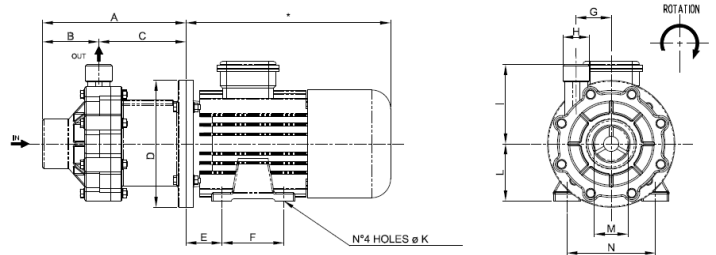
### SPECIFIC GRAVITY TABLE

| IMPELLER | 2,2 KW    | 3 KW      |
|----------|-----------|-----------|
| Ø 134 mm | up to 1,1 | up to 1,3 |
| Ø 122 mm | up to 1,3 | up to 1,5 |
| Ø 110 mm | up to 1,8 | up to 2   |

### MOTOR SPECIFICATION

| SIZE   | Kw  | RPM            |
|--------|-----|----------------|
| IEC 90 | 2,2 | 2 poles - 2900 |
| IEC 90 | 3   | 2 poles - 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                              | BUSHING+SHAFT                         | IMPELLER  | CONNECTIONS                              | MOTOR VERSION          |
|-------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|------------------------|
| <b>CM30</b> | <b>P</b> = PP<br><b>K</b> = PVDF | <b>D</b> = EPDM<br><b>V</b> = VITON | <b>TA</b> = PTFEC +<br>ALLUMINA 99,7% | <b>134</b> = Ø 134 mm STD<br><b>122</b> = Ø 122 mm<br><b>110</b> = Ø 110 mm | <b>1</b> = BSP STD<br><b>2</b> = FLANGED | <b>IE</b> = IEC FLANGE |



# ACCESSORIES



## BASKET STRAINER FILTERS IN PP

Installed on the suction of the pumps, protects them from suspended solids and impurity.



## REINFORCED PVC HOSE

With metal reinforcement for suction/discharge, also food-grade.



## INOX TROLLEY

It makes pumps transportable.



## FOOT BALL VALVE

Realized in PP and PVDF. Size available 1" - 1"1/4 - 1"1/2 - 2" Used to prevent the suction hose from emptying.



## ANTI VIBRATION FEET KIT

Reduces physical vibration from AODD pump operation.



## VALVES FITTINGS WAND CONNECTIONS IN PP, PVC, INOX



## PP, PVDF, ALU SS NOZZLE

Dispenser to delivery control and batching.



## FLANGE CONNECTION KIT

It modifies a pump with BSP connection into a flanged pump.

**BTS**  
ENGINEERING

<https://prom-nasos.pro>

<https://bts.net.ua>

<https://prom-nasos.com.ua>

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**fluimac**®  
pump solution



*Made in  
Italy*

