

fluimac[®]
pump solution



COMPASS
MAG DRIVE PUMPS

Made in
Italy

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 m³/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

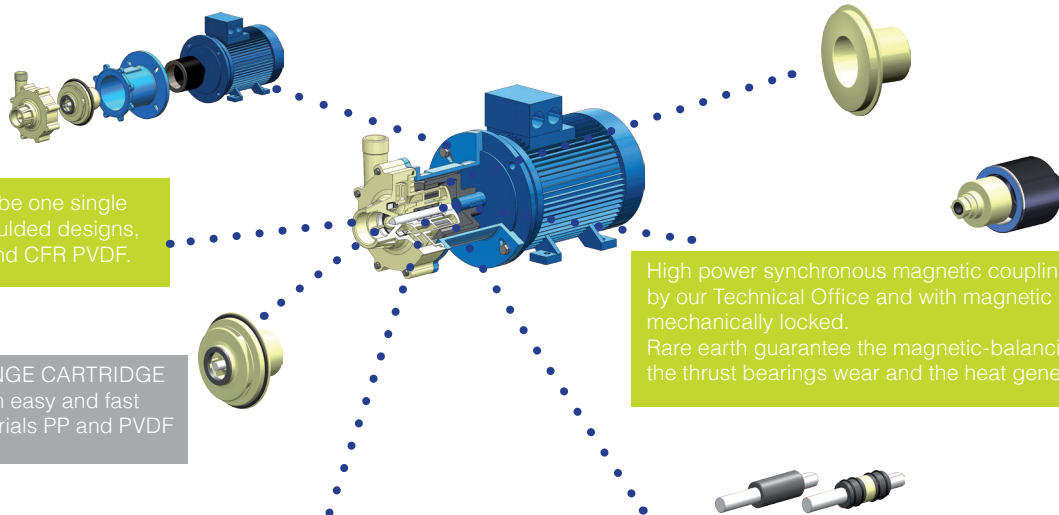
INSTALLATION



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



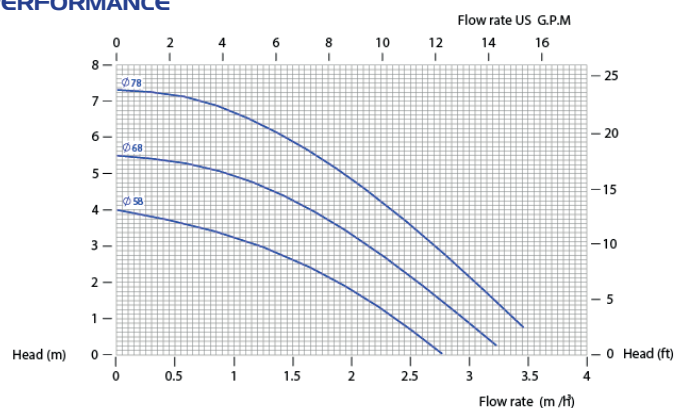
PVDF



TECHNICAL DATA

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

PERFORMANCE



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

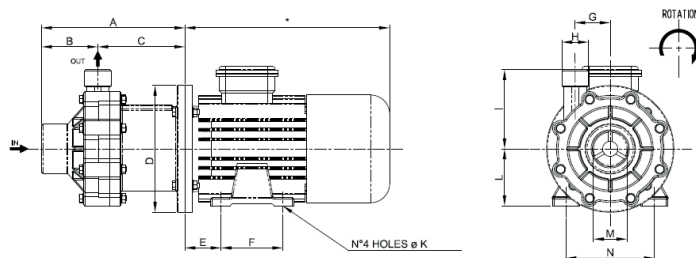
SPECIFIC GRAVITY TABLE

IMPELLER	0,12 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	SHAFT + BUSHING	IMPELLER	CONNECTIONS	MOTOR	MOTOR POWER
CM04	P = PP K = PVDF	D = EPDM V = VITON	TA = PTFEC + ALLUMINA 99,7%	78 = Ø 78 mm <i>STD</i> 68 = Ø 68 mm 58 = Ø 58 mm	1 = BSP <i>STD</i> 2 = FLANGED	IE = 3PH <i>STD</i> X = ATEX 1P = 1PH - = NO MOTOR	0,12 = 0,12 Kw <i>STD</i>

PP



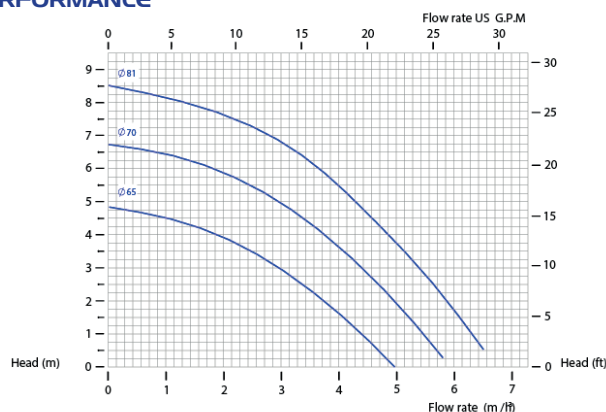
PVDF



TECHNICAL DATA

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

PERFORMANCE



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

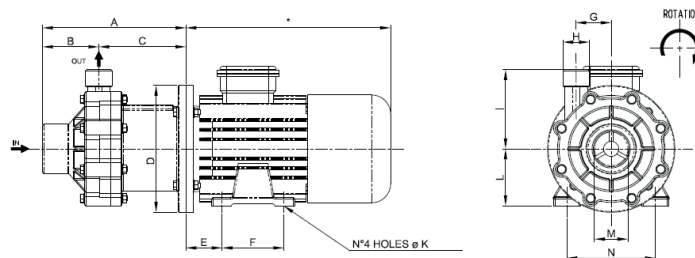
SPECIFIC GRAVITY TABLE

IMPELLER	0,25 KW	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	SHAFT + BUSHING	IMPELLER	CONNECTIONS	MOTOR	MOTOR POWER
CM06	P = PP K = PVDF	D = EPDM V = VITON	TA = PTFEC + ALLUMINA 99,7%	81 = ø 81 mm <i>STD</i> 70 = ø 70 mm 65 = ø 65 mm	1 = BSP <i>STD</i> 2 = FLANGED	IE = 3PH <i>STD</i> X = ATEX 1P = 1PH - = NO MOTOR	0,25 = 0,25 Kw <i>STD</i> 0,37 = 0,37 Kw

PP



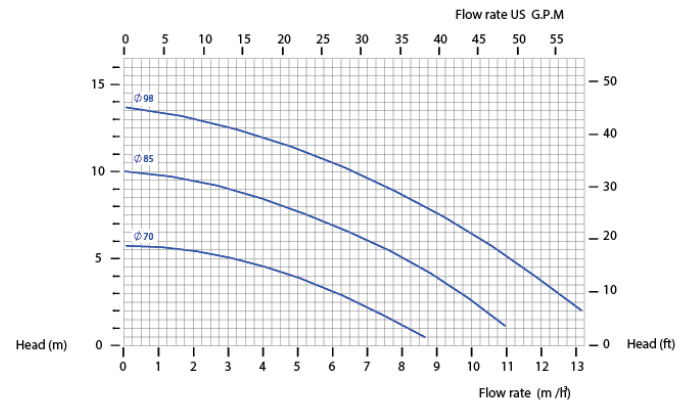
PVDF



TECHNICAL DATA

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

PERFORMANCE



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

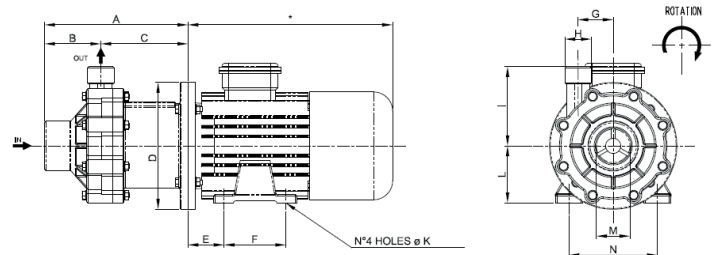
SPECIFIC GRAVITY TABLE

IMPELLER	0,55 KW	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



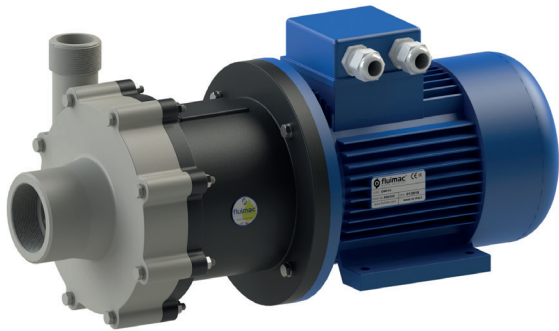
A	B	C	D	E	F	G	H	I	L	M	N	K
180	70,8	109,5	160	45	90	44	1"	100	71	1"1/2	112	7

*Depend on the manufacturer

COMPOSITION

MODEL	CASING	O RING	SHAFT + BUSHING	IMPELLER	CONNECTIONS	MOTOR	MOTOR POWER
CM10	P = PP K = PVDF	D = EPDM V = VITON	TA = PTFEC + ALLUMINA 99,7%	98 = ø 98 mm <i>STD</i> 85 = ø 85 mm 70 = ø 70 mm	1 = BSP <i>STD</i> 2 = FLANGED	IE = 3PH <i>STD</i> X = ATEX 1P = 1PH - = NO MOTOR	0,55 = 0,55 Kw <i>STD</i> 0,75 = 0,75 Kw

PP



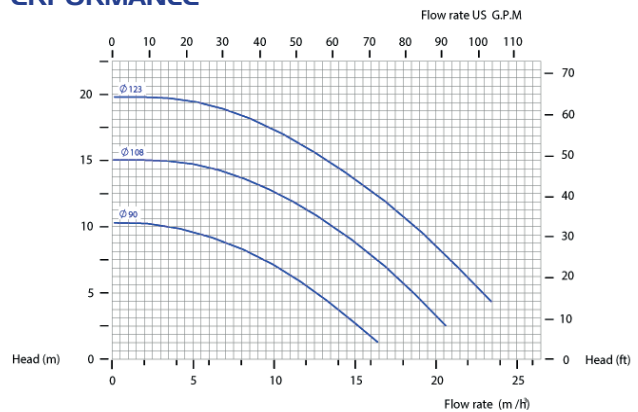
PVDF



TECHNICAL DATA

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

PERFORMANCE



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

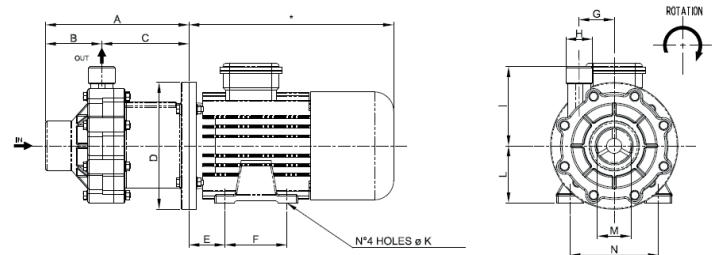
SPECIFIC GRAVITY TABLE

IMPELLER	1,1 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	SHAFT + BUSHING	IMPELLER	CONNECTIONS	MOTOR	MOTOR POWER
CM15	P = PP K = PVDF	D = EPDM V = VITON	TA = PTFEC + ALLUMINA 99,7%	123 = ø 123 mm <i>STD</i> 108 = ø 108 mm 90 = ø 90 mm	1 = BSP <i>STD</i> 2 = FLANGED	IE = 3PH <i>STD</i> X = ATEX - = NO MOTOR	1,1 = 1,1 Kw <i>STD</i> 1,5 = 1,5 Kw

PP



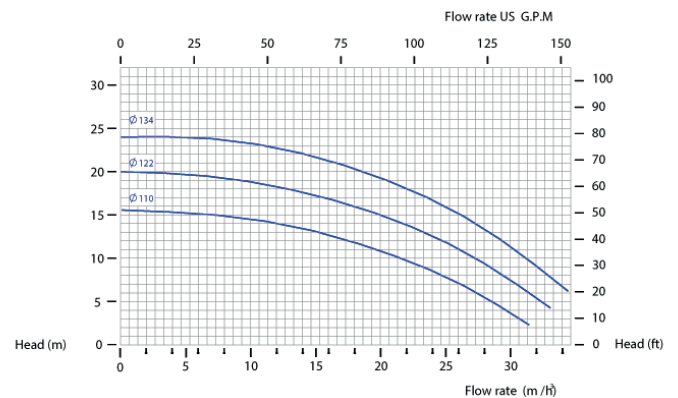
PVDF



TECHNICAL DATA

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

PERFORMANCE



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

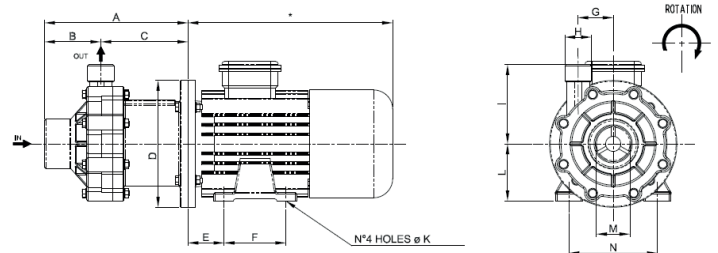
SPECIFIC GRAVITY TABLE

IMPELLER	2,2 KW	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	SHAFT + BUSHING	IMPELLER	CONNECTIONS	MOTOR	MOTOR POWER
CM30	P = PP K = PVDF	D = EPDM V = VITON	TA = PTFEC + ALLUMINA 99,7%	134 = ø 134 mm <i>STD</i> 122 = ø 122 mm 110 = ø 110 mm	1 = BSP <i>STD</i> 2 = FLANGED	IE = 3PH <i>STD</i> X = ATEX - = NO MOTOR	2,2 = 2,2 Kw <i>STD</i> 3 = 3 Kw

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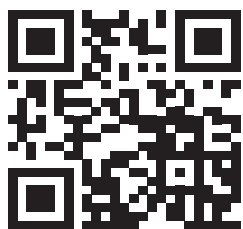
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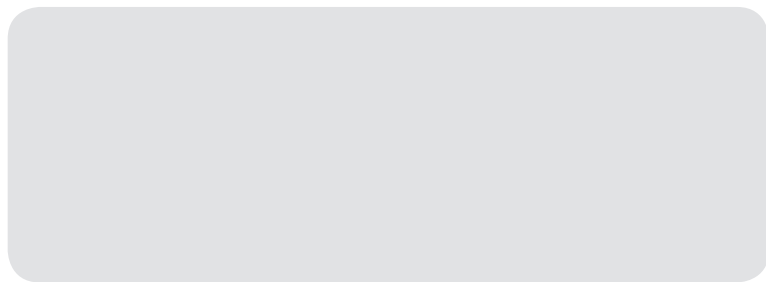
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