fluimac®
PUMPS WE TRUST

CENTRIFUGAL **PUMPS**

MINI COMPASS - COMPASS - DRAGON - TYPHOON

50 Hz

INDEX

FLUIMAC.
YOUR INDUSTRY, YOUR NEEDS, **OUR PUMPS**

WE ARE FAST, RESPONSIVE, CURIOUS, AND EXPERIENCED.

Since 2012, we have been redefining the concept of pumping solutions by embracing speed, responsiveness, curiosity, and expertise. Our cutting-edge design and unwavering commitment to quality excellence highlight our effort to innovate in this industry.

Our flexible and dynamic approach allows us to optimize time, simplify processes and minimize waste, while staying focused on the high quality of our products and ensuring impeccable service.

Every day, we create top-quality products that are meticulously tested and certified and developed to maximize their efficiency and operational longevity. We are committed to meeting our partners' needs for customization, support, and assistance, providing solutions that represent excellence in our field.

Why we are your partner in fluid handling.

At Fluimac, everyone is aware of their role and importance in keeping our promise: being your partner for every pumping solution. To make this a reality, everyone is given the opportunity to contribute with their ideas, skills, and added values in search of outstanding solutions, both for our clients and for the improvement of our internal processes.

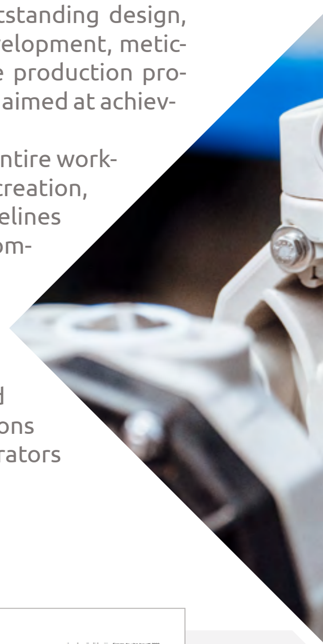
OUR APPROACH IS BASED ON:

Proactive listening
Providing the best solutions for fluid handling and industrial processes means listening to needs and turning them into products that perfectly match clients, systems, and fluid handling requirements in a constantly evolving national and international market.

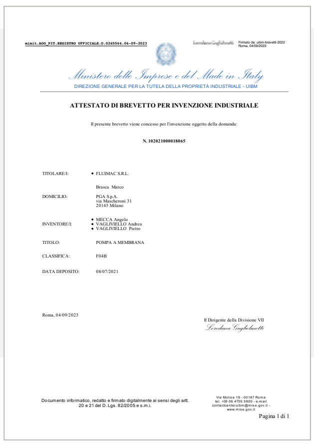
Trust
We consider our clients as more than just clients: they are partners. That is why our approach is based on respect, trust, and collaboration. We make every effort to meet deadlines, communicate transparently, and integrate seamlessly into your supply chain.

360° Quality
We are Italian: for us, quality means outstanding design, ongoing investments in research and development, meticulous attention to detail throughout the production process, and client relationship management aimed at achieving maximum satisfaction.
Our Made in Italy shines throughout the entire workflow, ranging from planning to product creation, to a sense of responsibility towards timelines and results, up to internal and external company relationships.

Collaboration
Bringing innovation means knowing the market, understanding its needs, and working to turn them into concrete solutions by listening to and engaging both collaborators and clients.



ITALY X CERTIFIED ITALIAN EXCELLENCE — ISO 9001 BUREAU VERITAS Certification — ACCREDIA — Ex — CE — EAC — UK CA — IECEx — FDA



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Firmato da: uibm-brevetti-2022
Roma, 04/09/2023

Ministero delle Imprese e del Made in Italy
DIREZIONE GENERALE PER LA TUTELA DELLA PROPRIETÀ INDUSTRIALE - UIBM

ATTESTATO DI BREVETTO PER INVENZIONE INDUSTRIALE

Il presente brevetto viene concesso per l'invenzione oggetto della domanda:

N. 102021000018065

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INVENTORE/I:	• MECCA Angelo • VAGLIVIELLO Andrea • VAGLIVIELLO Pietro
TITOLO:	POMPA A MEMBRANA
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Roma, 04/09/2023

Il Dirigente della Divisione VII
Loredana Guglielmetti

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Pagina 1 di 1

We create pumping solutions for every need, with a cutting-edge design and a constant pursuit of quality.

SINCE 2012 WE HAVE BEEN EXCEEDING ALL EXPECTATIONS

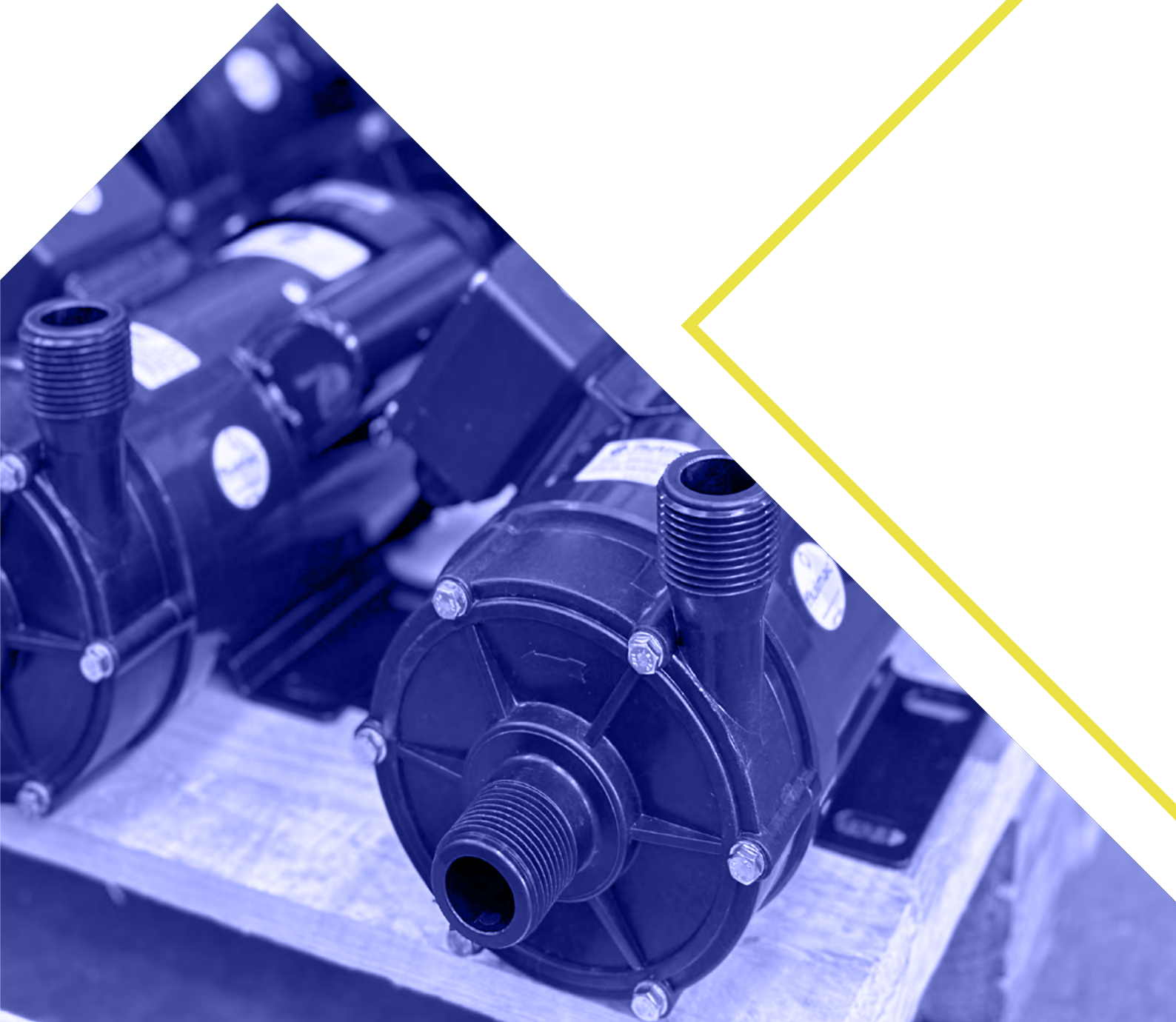
+1.900%

GROWTH IN PRODUCTION CAPACITY

fluimac®
PUMPS WE TRUST

CENTRIFUGAL PUMP
MINI COMPASS

Mag drive centrifugal pump
made of thermoplastic material



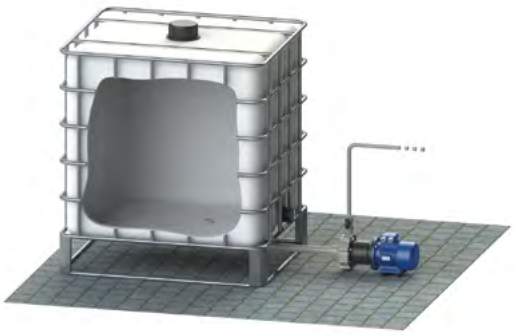
MINI **COMPASS**

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 makes the 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.

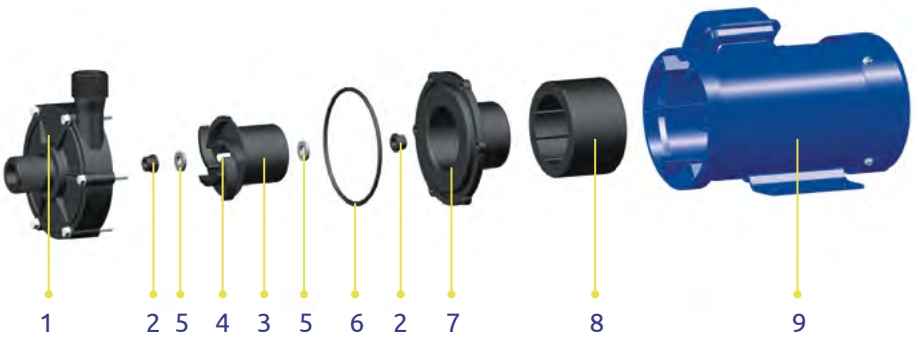
MAIN FEATURES

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

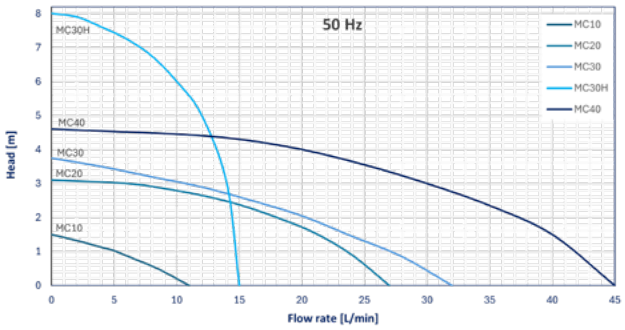
MOTOR FEATURES

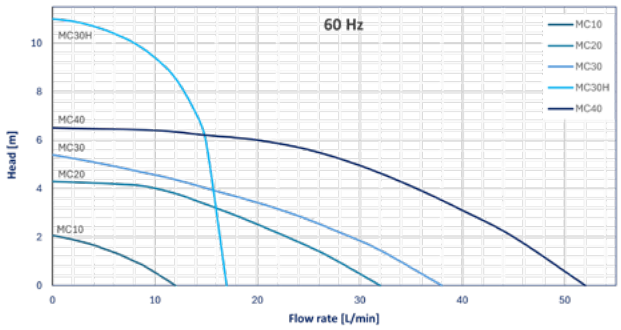
MODEL	POWER	VOLTAGE	FREQUENCY	PROTECTION
MC 10	6W	220/240V	50/60Hz	IP54
MC 20	20W	220/240V	50/60Hz	IP54
MC 30	45W	220/240V	50/60Hz	IP54
MC 30 H	45W	220/240V	50/60Hz	IP54
MC 40	65W	220/240V	50/60Hz	IP54

MINI **COMPASS**

MC 10 MC 20 MC 30 MC 30H MC 40

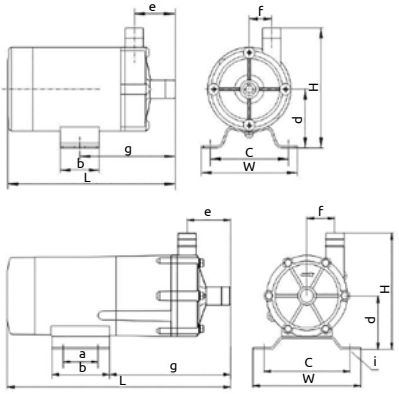
PERFORMANCE





DIMENSIONS

	W	H	L	a	b	c	d	e	f	g	i	in/out	Weight
MC 10	74	83	129	-	30	60	36	31	17	74	2-ø6	14mm	0.9 kg
MC 20	85	115	211	30	50	68	56	38.5	28.5	106	5.5x10	3/4"	1.9 kg
MC 30	120	130	248	40	64	100	60	48	31	131	4-ø9	3/4"	3.1 kg
MC 30H	120	130	234	40	64	100	60	40	40	120	4-ø9	3/4"	3.1 kg
MC40	120	134	260	45	75	100	64	31	48	137	4.9x14	3/4"	3.8 kg



COMPOSITION

MODEL	CASING	O-RING	SHAFT+ BUSHING	MOTOR	MOTOR POWER
MC 10					S06 = 6w
MC 20	**P** = PP	**D** = EPDM	**TA** = PTFC +	**1P** = 1PH	S20 = 20w
MC 30	**K** = PVDF	**V** = VITON	ALLUMINIO 99.7%		S45 = 45w
MC 30 H					S45 = 45w
MC 40					S65 = 65w

fluimac®
PUMPS WE TRUST

COMPASS
CENTRIFUGAL PUMPS

Thermoplastic Magnetic drive centrifugal pumps

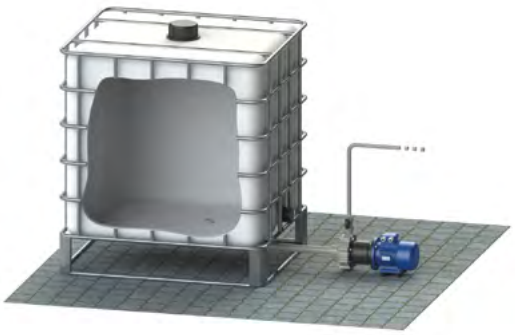
COMPASS SERIES

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 driven 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 must be clean and without solids in suspension.

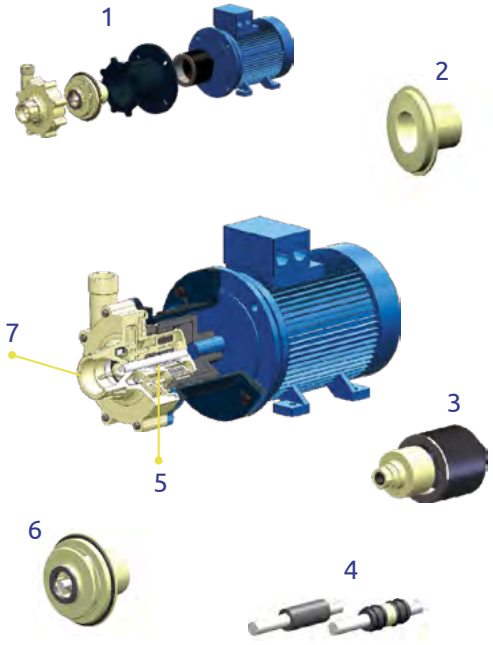
MAIN FEATURES

- Casing and impeller in PP/PVDF
- O-ring in EPDM and VITON
- ALLUMINA + PTFEC 99,7% (standard)
- Max flow: 35 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



1. Few components (extremely easy maintenance), competitive prices, guaranteed chemical compatibility
2. The rear shell is made of thermoplastic materials, ellipsoidal profile, zero magnetic losses, GFR PP or CFR PVDF materials
3. High power synchronous magnetic coupling designed by our Technical Office and with magnetic elements mechanically locked. Rare earth guarantees the magnetic balancing to avoid the thrust bearings wear and the heat generation
4. 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%
5. The sealing system with O-Rings prevents from leaking in the atmosphere – different materials available:
   - EPDM
   - VITON®
6. RWP QUICK CHANGE CARTRIDGE KIT to guarantee an easy and fast maintenance, materials PP and PVDF
7. Pump casing shall be one single piece, injection moulded designs, made of GFR PP and CFR PVDF

COMPASS SERIES

CM 4

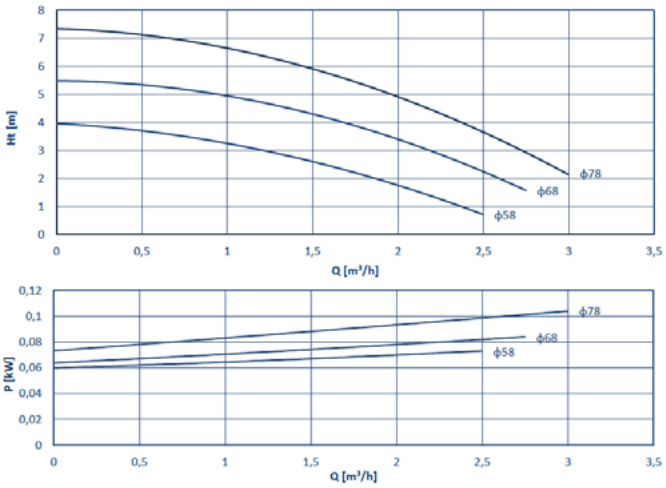
PP

PVDF

TECHNICAL DATA

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

PERFORMANCE



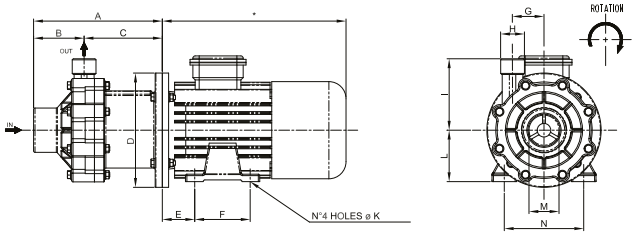
The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz. These data may vary according to the construction materials and hydraulic conditions.

SPECIFIC GRAVITY TABLE

IMPELLER	0.12 KW
⌀ 78 mm	Up to 1,1
⌀ 68 mm	Up to 1,3
⌀ 58 mm	Up to 1,5

MOTOR SPECIFICATION

Size	IEC 56
kw	0.12
RPM	2 poles 2900



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

* It depends on the manufacturer

COMPOSITION

MODEL	CASING	O-RING	BUSHING+SHAFT	INPELLER	CONNECTIONS	MOTOR VERSION
CM04	**P** = PP **K** = PVDF	**D** = EPDM **V** = VITON	**TA** = PTFEC + ALLUMINA 99,7%	**78** = ⌀ 78 mm STD **68** = ⌀ 68 mm **58** = ⌀ 58 mm	**1** = BSP STD **2** = FLANGED	**IE** = IEC FLANGE

COMPASS SERIES

CM 6

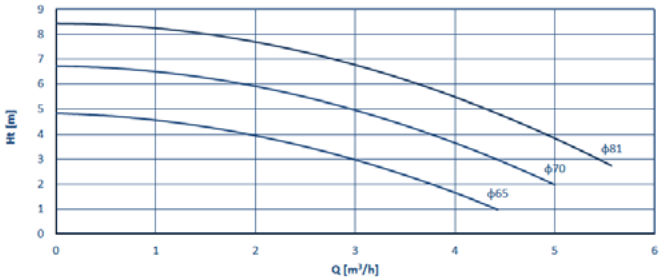
PP

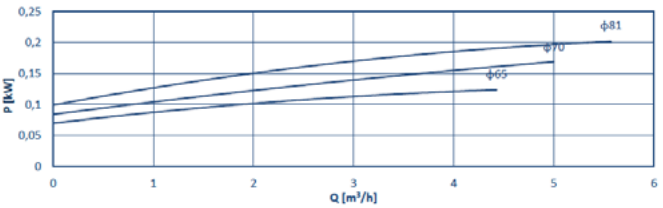
PVDF

TECHNICAL DATA

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

PERFORMANCE





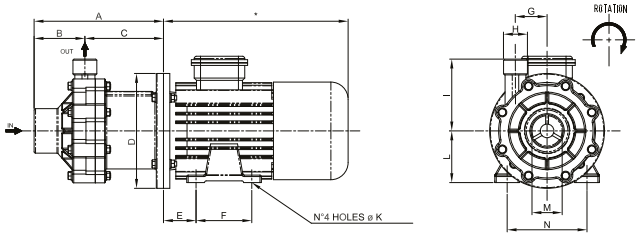
The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz. These data may vary according to the construction materials and hydraulic conditions.

SPECIFIC GRAVITY TABLE

IMPELLER	0.25 KW	0.37 KW
⌀ 81 mm	Up to 1,1	Up to 1,5
⌀ 70 mm	Up to 1,3	Up to 1,8
⌀ 65 mm	Up to 1,5	Up to 2

MOTOR SPECIFICATION

Size	IEC 63
kw	0.25-0.37
RPM	2 poles 2900



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

* It depends on the manufacturer

COMPOSITION

MODEL	CASING	O-RING	BUSHING+SHAFT	INPELLER	CONNECTIONS	MOTOR VERSION
CM06	**P** = PP **K** = PVDF	**D** = EPDM **V** = VITON	**TA** = PTFEC + ALLUMINA 99,7%	**81** = ⌀ 81 mm STD **70** = ⌀ 70 mm **65** = ⌀ 65 mm	**1** = BSP STD **2** = FLANGED	**IE** = IEC FLANGE

COMPASS SERIES

CM 10

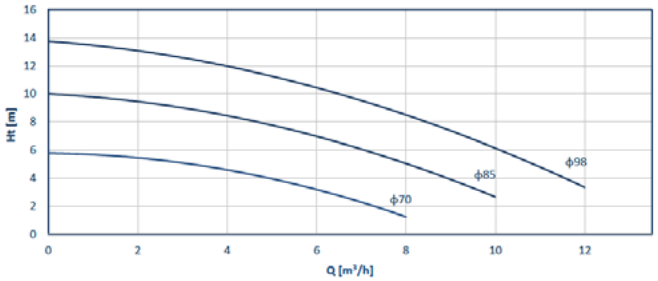
PP

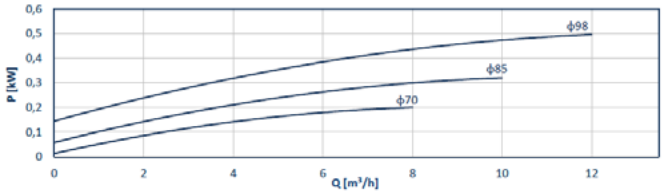
PVDF

TECHNICAL DATA

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

PERFORMANCE





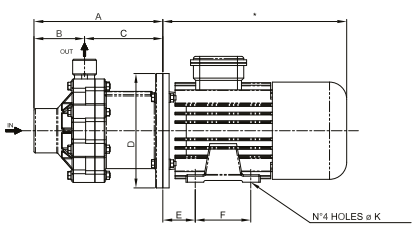
The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz. These data may vary according to the construction materials and hydraulic conditions.

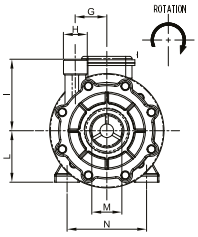
SPECIFIC GRAVITY TABLE

IMPELLER	0.55 KW	0.75 KW
⌀ 98 mm	Up to 1,1	Up to 1,3
⌀ 85 mm	Up to 1,5	Up to 1,8
⌀ 70 mm	Up to 1,8	Up to 2

MOTOR SPECIFICATION

Size	IEC 71
kw	0.55-0.75
RPM	2 poles 2900





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

* It depends on the manufacturer

COMPOSITION

MODEL	CASING	O-RING	BUSHING+SHAFT	INPELLER	CONNECTIONS	MOTOR VERSION
CM10	**P** = PP **K** = PVDF	**D** = EPDM **V** = VITON	**TA** = PTFEC + ALLUMINA 99,7%	**98** = ⌀ 98 mm STD **85** = ⌀ 85 mm **70** = ⌀ 70 mm	**1** = BSP STD **2** = FLANGED	**IE** = IEC FLANGE

COMPASS SERIES

CM 15

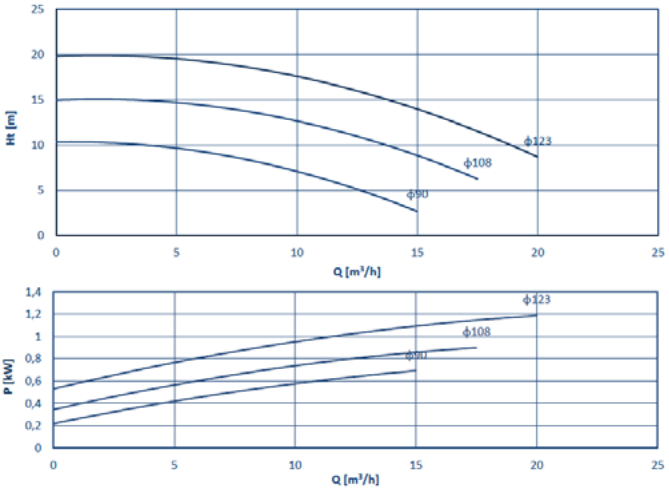
PP

PVDF

TECHNICAL DATA

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

PERFORMANCE



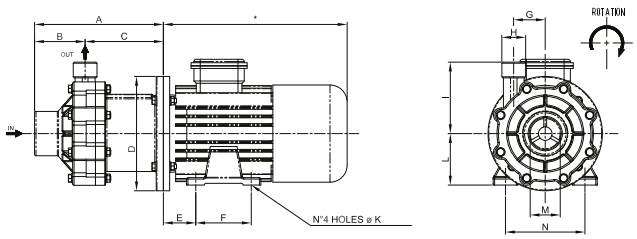
The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz. These data may vary according to the construction materials and hydraulic conditions.

SPECIFIC GRAVITY TABLE

IMPELLER	1.1 KW	1.5 KW
⌀ 123 mm	Up to 1	Up to 1,1
⌀ 108 mm	Up to 1,2	Up to 1,5
⌀ 90 mm	Up to 1,5	Up to 1,8

MOTOR SPECIFICATION

Size	IEC 80
kw	1.1-1.5
RPM	2 poles 2900



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

* It depends on the manufacturer

COMPOSITION

MODEL	CASING	O-RING	BUSHING+SHAFT	INPELLER	CONNECTIONS	MOTOR VERSION
CM15	**P** = PP **K** = PVDF	**D** = EPDM **V** = VITON	**TA** = PTFEC + ALLUMINA 99,7%	**123** = ⌀ 123 mm STD **108** = ⌀ 108 mm **90** = ⌀ 90 mm	**1** = BSP STD **2** = FLANGED	**IE** = IEC FLANGE

COMPASS SERIES

CM 30

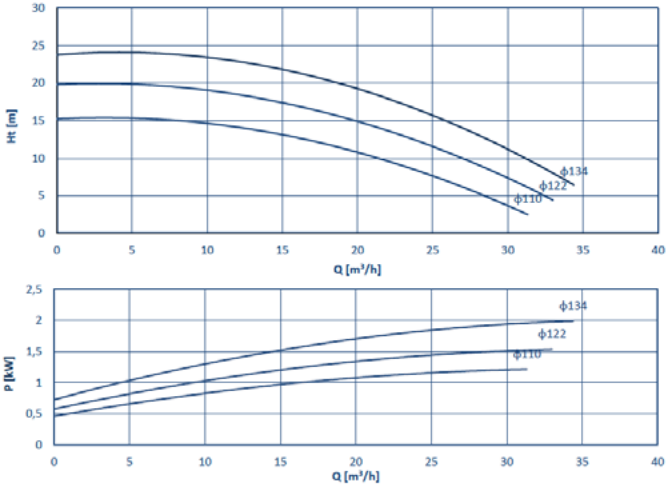
PP

PVDF

TECHNICAL DATA

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

PERFORMANCE



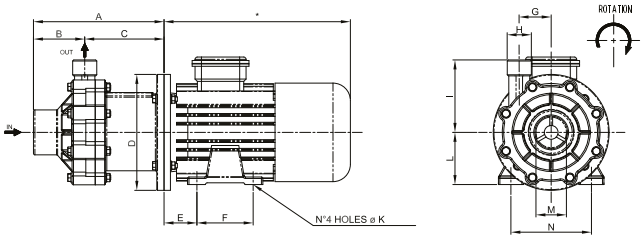
The curves and performance values refer to pumps with free delivery outlet with water at 20 °C, and two poles motor 50 Hz. These data may vary according to the construction materials and hydraulic conditions.

SPECIFIC GRAVITY TABLE

IMPELLER	2.2 KW	3 KW
⌀ 134 mm	Up to 1,1	Up to 1,3
⌀ 122 mm	Up to 1,3	Up to 1,5
⌀ 110 mm	Up to 1,8	Up to 2

MOTOR SPECIFICATION

Size	IEC 90
kw	2.2-3
RPM	2 poles 2900



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

* It depends on the manufacturer

COMPOSITION

MODEL	CASING	O-RING	BUSHING+SHAFT	INPELLER	CONNECTIONS	MOTOR VERSION
CM30	**P** = PP **K** = PVDF	**D** = EPDM **V** = VITON	**TA** = PTFEC + ALLUMINA 99,7%	**134** = ⌀ 134 mm STD **122** = ⌀ 122 mm **110** = ⌀ 110 mm	**1** = BSP STD **2** = FLANGED	**IE** = IEC FLANGE

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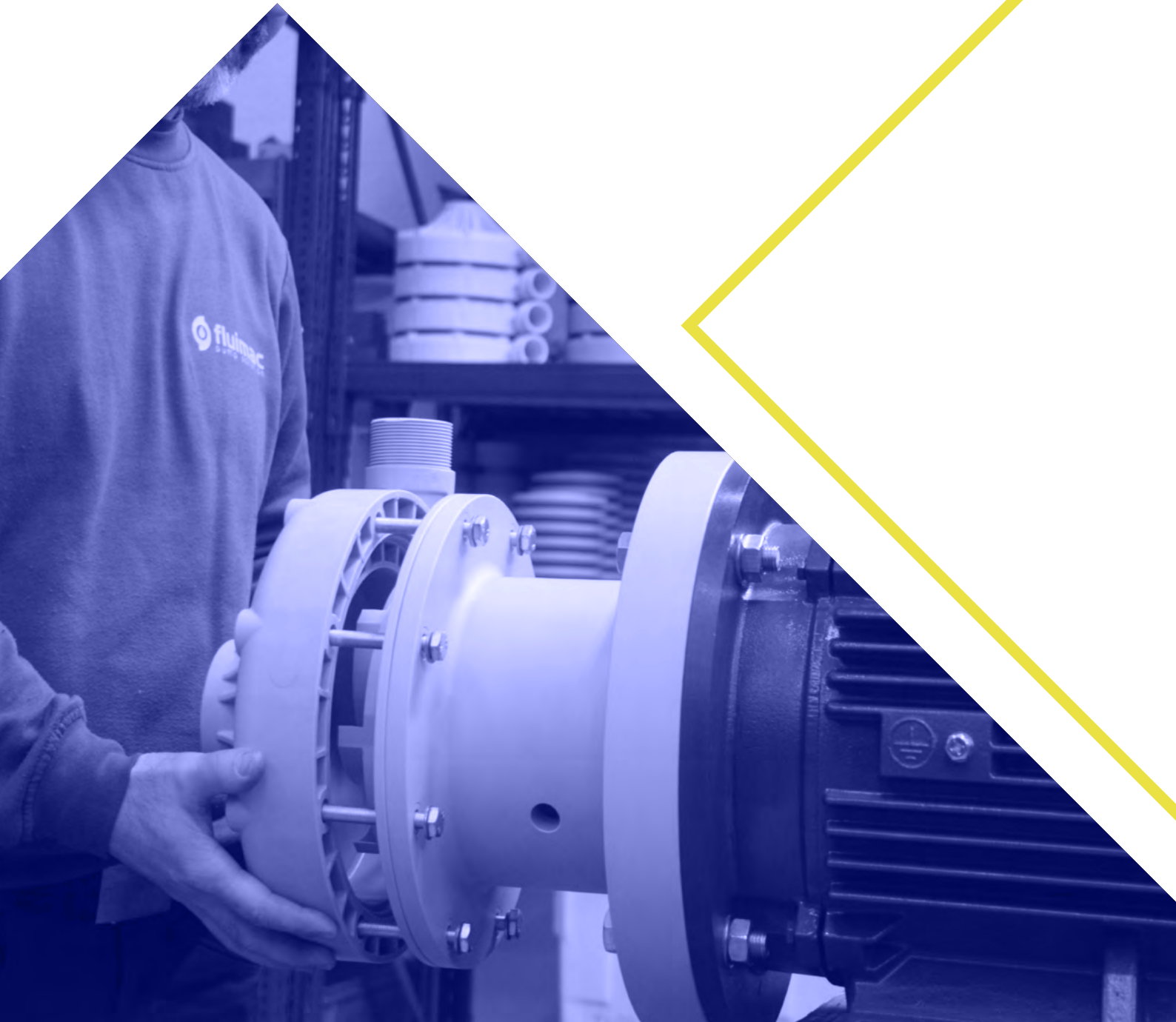
DRAGON
CENTRIFUGAL PUMPS

Thermoplastic centrifugal pumps with mechanical seal



DRAGON SERIES

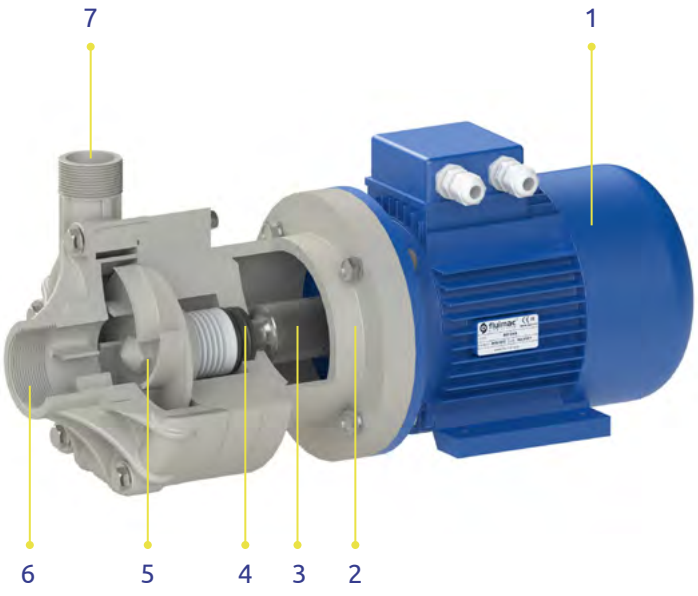
DRAGON plastic horizontal centrifugal pumps are high performance pumps operated by a direct-drive electric motor for fast fluid transfer and drainage with flow-rates ranging from 6 to 40 m3/h. The special semi-opened impeller design allows continuous pumping even with dirty fluids with apparent viscosity up to 500cps. and small suspended solids.
DRAGON centrifugal pumps feature a solid pump casing and a lantern for connecting the electric motor and inspection of the mechanical seal. The semi-opened impeller is fitted to the pump shaft that is integral with the drive shaft of the electric motor. The shaft mechanical seal is housed at the rear of the impeller.

MAIN FEATURES

- Casing and impeller in PP and PVDF
- O-ring in EPDM and VITON
- Single Mechanical Seal
- Max delivery head 25 mts
- Max flow - Rate: 40 m3/h
- Temperature: from -20 °C to + 95°C
- Max viscosity: 500 CPS
- Electric motors from 0,37 Kw up to 5,5kW
- Specific Gravity up to 1.9

INSTALLATION

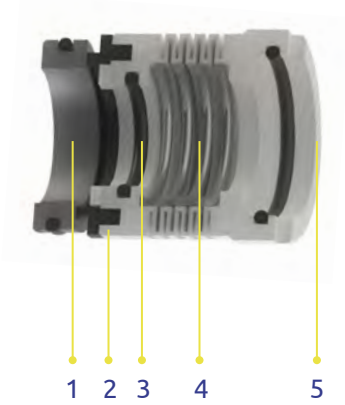
POSITIVE SUCTION:
DRAGON centrifugal pumps should only be installed with the shaft positioned horizontally in a positive suction head arrangement. Suitable devices should be fitted to prevent dry running and the formation of a vortex and possible air suction. Running dry or with air bubbles can cause damage to the mechanical seal.



1. Electric motor
2. Inspection lantern
3. Shaft
4. Mechanical Seal
5. Impeller
6. Inlet
7. Outlet

DRAGON SERIES

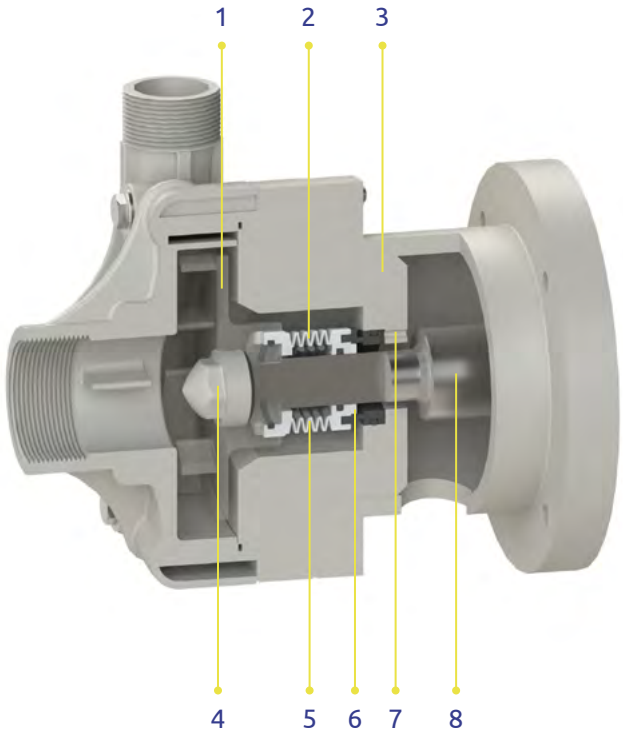
DRAGON mechanical seal is designed with externally 100% virgin PTFE bellows for extreme corrosion resistance applications. The entire seal assembly and component parts employ mechanical drive to prevent slippage on the shaft or sleeve. Seal assembly is outside mounted and internally pressurized.



MAIN FEATURES

- Special design
- Anti-rotation
- High chemical design
- SiC/C/FPM/SS304
- Able to handle dirty fluid

1. Static Seal in SILICON CARBIDE
2. Dynamic Seal in CARBON
3. Gasket in FPM
4. Spring in SS AISI 316
5. Bellow in PTFE



1. Semi-opened impeller
2. Bellows
3. Seal-holding flange
4. Fluid cap
5. Spring
6. Dynamic seal ring
7. Static seal ring
8. Shaft

DRAGON SERIES

DR 6

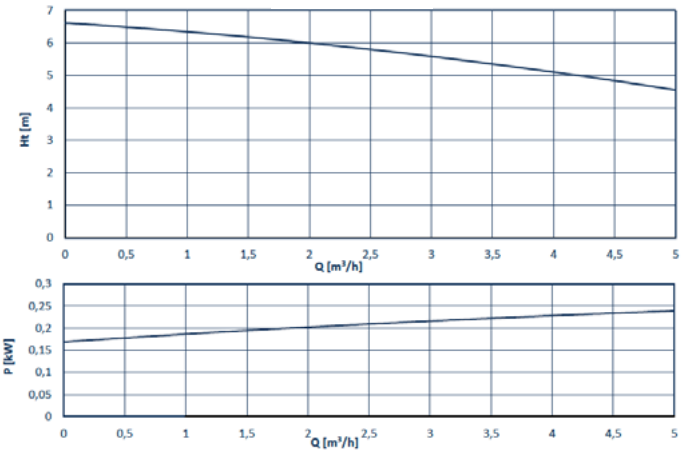
PP

PVDF

TECHNICAL DATA

- Inlet connections **1" 1/2 F BSPP**
- Outlet connections **1" M BSPP**
- Max. Flow rate **9,2 m3/h**
- Max. Delivery head **6,4 m**
- Max Viscosity **100 CPS**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

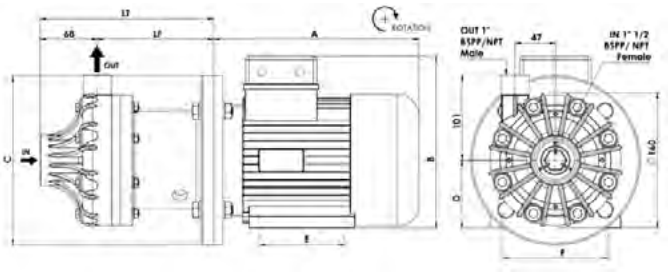
PERFORMANCE



The curves and performance data refer to pumps with free discharge, water at 20°C, and a two poles, 50 Hz motor. Four poles curves are available on page 34.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 71	IEC 71	IEC 80
kW	0,37	0,55	0,75
Weight kg*	5,6	6,1	9,1
A* mm	225	225	250
B* mm	183	183	212
C* mm	160	160	200
D* mm	71	71	80
E* mm	90	90	100
F* mm	112	112	125
LT* mm	204,5	204,5	204,5
LF* mm	137	137	137



Standard motors: 2-pole, B3B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.

COMPOSITION

MODEL	CASING	O-RING	MECHANICAL SEAL	CONNECTIONS	SIZE	MOTOR VERSION
DR006	**P** = PP	**D** = EPDM	**T1** = SIC + C	**1** = BSPP STD	71	**IE** = IEC FLANGE
	K = PVDF	**V** = VITON		**2** = FLANGED	80	**-** = NO MOTOR
				5 = NPT	90	

DRAGON SERIES

DR 10

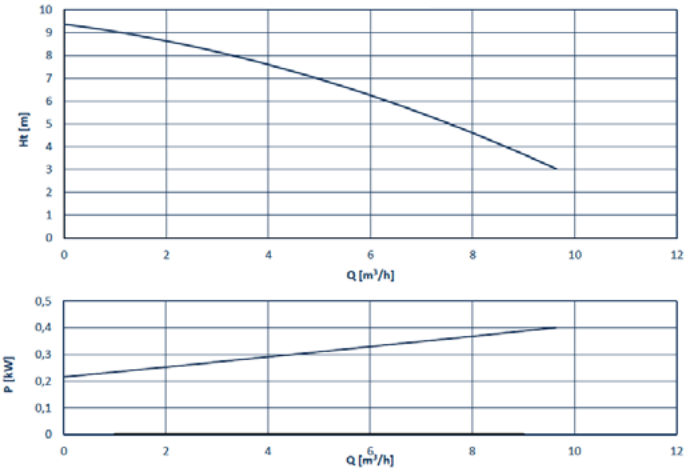
PP

PVDF

TECHNICAL DATA

- Inlet connections **1" 1/2 F BSPP**
- Outlet connections **1" M BSPP**
- Max. Flow rate **11,2 m3/h**
- Max. Delivery head **9 m**
- Max Viscosity **150 CPS**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

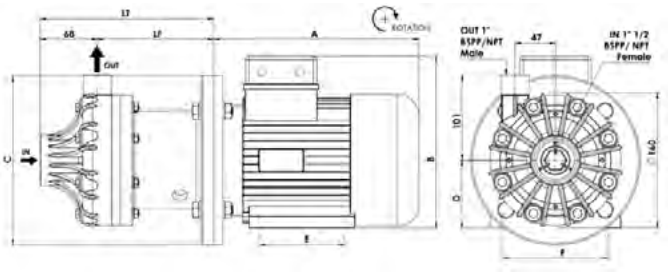
PERFORMANCE



The curves and performance data refer to pumps with free discharge, water at 20°C, and a two poles, 50 Hz motor. Four poles curves are available on page 34.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 71	IEC 80	IEC 80	IEC 90S
kW	0,55	0,75	1,1	1,5
Weight kg*	6,1	9,1	10,2	12
A* mm	250	250	250	260
B* mm	183	212	212	230
C* mm	160	200	200	200
D* mm	71	80	80	90
E* mm	90	100	100	100
F* mm	112	125	125	140
LT* mm	204,5	204,5	204,5	216,5
LF* mm	137	137	137	149



Standard motors: 2-pole, B3B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.

COMPOSITION

MODEL	CASING	O-RING	MECHANICAL SEAL	CONNECTIONS	SIZE	MOTOR VERSION
DR010	**P** = PP	**D** = EPDM	**T1** = SIC + C	**1** = BSPP STD	71	**IE** = IEC FLANGE
	K = PVDF	**V** = VITON		**2** = FLANGED	80	**-** = NO MOTOR
				5 = NPT	90	

DRAGON SERIES

DR 15

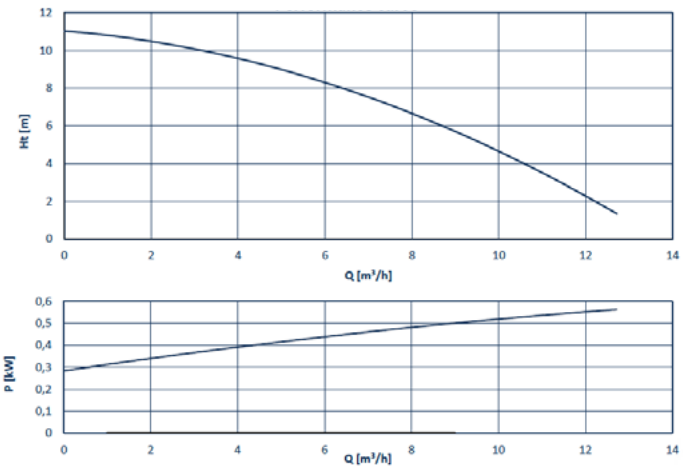
PP

PVDF

TECHNICAL DATA

- Inlet connections **1" 1/2 F BSPP**
- Outlet connections **1" M BSPP**
- Max. Flow rate **13 m3/h**
- Max. Delivery head **11 m**
- Max Viscosity **200 CPS**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

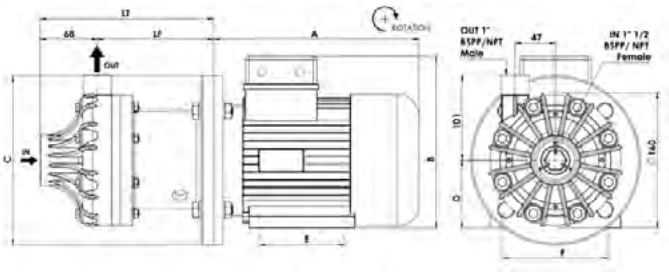
PERFORMANCE



The curves and performance data refer to pumps with free discharge, water at 20°C, and a two poles, 50 Hz motor. Four poles curves are available on page 34.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 80	IEC 80	IEC 90S
kW	0,75	1,1	1,5
Weight kg*	9,1	10,2	12
A* mm	250	250	260
B* mm	212	212	230
C* mm	200	200	200
D* mm	80	80	90
E* mm	100	100	100
F* mm	125	125	140
LT* mm	204,5	204,5	216,5
LF* mm	137	137	149



Standard motors: 2-pole, B3B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.

COMPOSITION

MODEL	CASING	O-RING	MECHANICAL SEAL	CONNECTIONS	SIZE	MOTOR VERSION
DR015	**P** = PP	**D** = EPDM	**T1** = SIC + C	**1** = BSPP STD	71	**IE** = IEC FLANGE
	K = PVDF	**V** = VITON		**2** = FLANGED	80	**-** = NO MOTOR
				5 = NPT	90	

DRAGON SERIES

DR 20

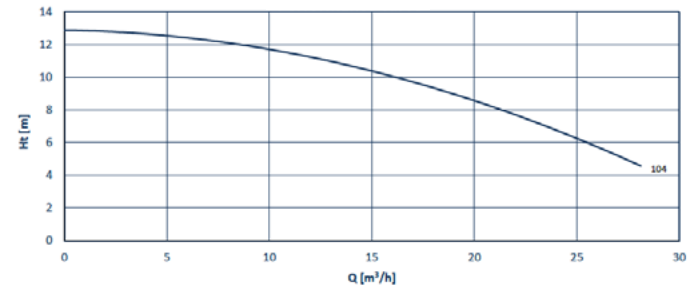
PP

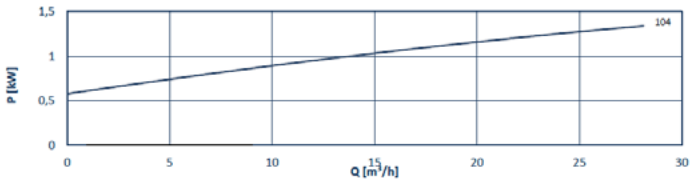
PVDF

TECHNICAL DATA

- Inlet connections **2" F BSPP**
- Outlet connections **1" 1/2 M BSPP**
- Max. Flow rate **28,5 m3/h**
- Max. Delivery head **13 m**
- Max Viscosity **300 CPS**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

PERFORMANCE

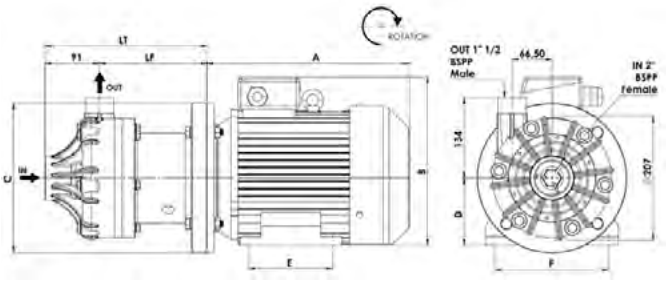




The curves and performance data refer to pumps with free discharge, water at 20°C, and a two poles, 50 Hz motor. Four poles curves are available on page 34.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 90S	IEC 90L	IEC 100L	IEC 112	IEC 132S
kW	1,5	2,2	3	4	5,5
Weight kg*	12	15	22,3	26,7	38,5
A* mm	260	285	326	335	356
B* mm	230	230	247	286	319
C* mm	200	200	250	250	300
D* mm	90	90	100	112	132
E* mm	100	125	140	140	140
F* mm	140	140	160	190	216
LT* mm	270,5	270,5	270,5	270,5	289,5
LF* mm	179,5	179,5	179,5	179,5	198,5



Standard motors: 2-pole, B3B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.

COMPOSITION

MODEL	CASING	O-RING	MECHANICAL SEAL	CONNECTIONS	SIZE	MOTOR VERSION
DR020	**P** = PP	**D** = EPDM	**T1** = SIC + C	**1** = BSPP STD	80	**IE** = IEC FLANGE
	K = PVDF	**V** = VITON		**2** = FLANGED	90	**-** = NO MOTOR
					100	
					112	
					132	

DRAGON SERIES

DR 25

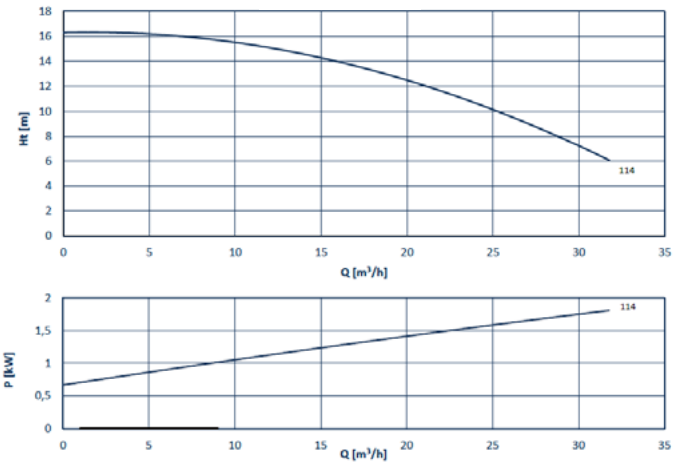
PP

PVDF

TECHNICAL DATA

- Inlet connections **2 F BSPP**
- Outlet connections **1" 1/2 M BSPP**
- Max. Flow rate **31 m3/h**
- Max. Delivery head **17 m**
- Max Viscosity **400 CPS**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

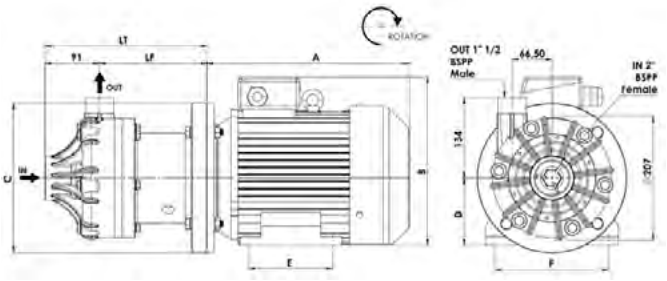
PERFORMANCE



The curves and performance data refer to pumps with free discharge, water at 20°C, and a two poles, 50 Hz motor. Four poles curves are available on page 34.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 90S	IEC 90L	IEC 100L	IEC 112	IEC 132S
kW	1,5	2,2	3	4	5,5
Weight kg*	12	15	22,3	26,7	38,5
A* mm	260	285	326	335	356
B* mm	230	230	247	286	319
C* mm	200	200	250	250	300
D* mm	90	90	100	112	132
E* mm	100	125	140	140	140
F* mm	140	140	160	190	216
LT* mm	270,5	270,5	270,5	270,5	289,5
LF* mm	179,5	179,5	179,5	179,5	198,5



Standard motors: 2-pole, B3B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.

COMPOSITION

MODEL	CASING	O-RING	MECHANICAL SEAL	CONNECTIONS	SIZE	MOTOR VERSION
DR025	**P** = PP	**D** = EPDM	**T1** = SIC + C	**1** = BSPP STD	80	**IE** = IEC FLANGE
	K = PVDF	**V** = VITON		**2** = FLANGED	90	**-** = NO MOTOR
					100	
					112	
					132	

DRAGON SERIES

DR 30

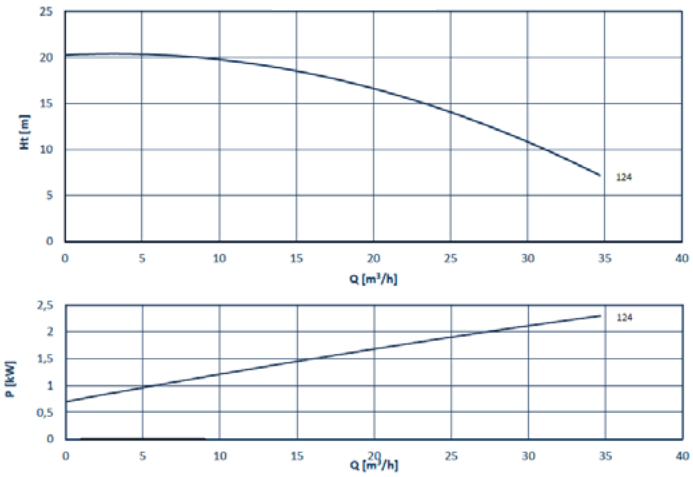
PP

PVDF

TECHNICAL DATA

- Inlet connections **2" F BSPP**
- Outlet connections **1" 1/2 M BSPP**
- Max. Flow rate **34,5 m3/h**
- Max. Delivery head **21 m**
- Max Viscosity **500 CPS**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

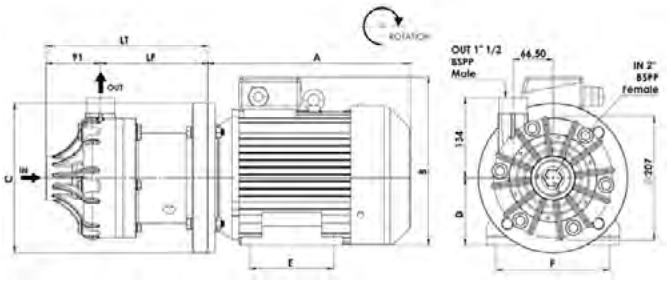
PERFORMANCE



The curves and performance data refer to pumps with free discharge, water at 20°C, and a two poles, 50 Hz motor. Four poles curves are available on page 34.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 90L	IEC 100L	IEC 112	IEC 132S
kW	2,2	3	4	5,5
Weight kg*	15	22,3	26,7	38,5
A* mm	285	326	335	356
B* mm	230	247	286	319
C* mm	200	250	250	300
D* mm	90	100	112	132
E* mm	125	140	140	140
F* mm	140	160	190	216
LT* mm	270,5	270,5	270,5	289,5
LF* mm	179,5	179,5	179,5	198,5



Standard motors: 2-pole, B3B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.

COMPOSITION

MODEL	CASING	O-RING	MECHANICAL SEAL	CONNECTIONS	SIZE	MOTOR VERSION
DR030	**P** = PP **K** = PVDF	**D** = EPDM **V** = VITON	**T1** = SIC + C	**1** = BSPP STD **2** = FLANGED	80 90 100 112 132	**IE** = IEC FLANGE **-** = NO MOTOR

DRAGON SERIES

DR 40

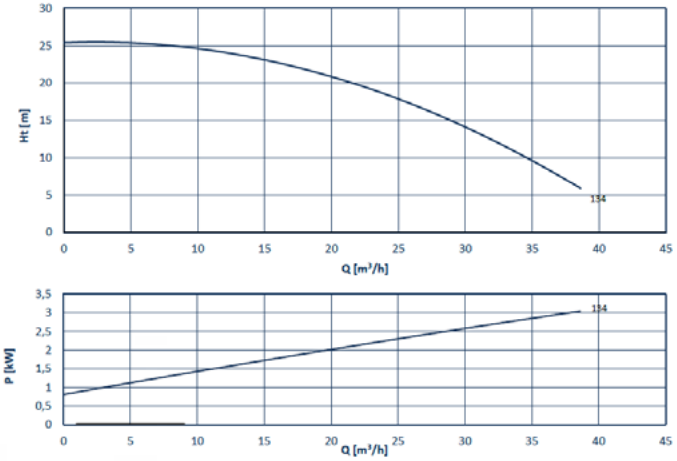
PP

PVDF

TECHNICAL DATA

- Inlet connections **2" F BSPP**
- Outlet connections **1" 1/2 M BSPP**
- Max. Flow rate **38 m3/h**
- Max. Delivery head **21 m**
- Max Viscosity **500 CPS**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

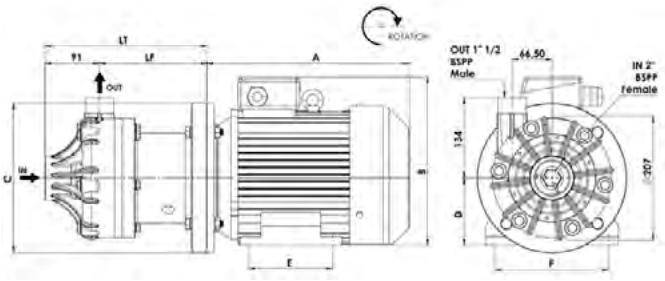
PERFORMANCE



The curves and performance data refer to pumps with free discharge, water at 20°C, and a two poles, 50 Hz motor. Four poles curves are available on page 34.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 90L	IEC 100L	IEC 112	IEC 132S	IEC 132S
kW	2,2	3	4	5,5	7,5
Weight kg*	15	22,3	26,7	38,5	42,2
A* mm	285	326	335	356	356
B* mm	230	247	286	319	319
C* mm	200	250	250	300	300
D* mm	90	100	112	132	132
E* mm	125	140	140	140	140
F* mm	140	160	190	216	216
LT* mm	270,5	270,5	270,5	289,5	326,5
LF* mm	179,5	179,5	179,5	198,5	234



Standard motors: 2-pole, B3B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.

COMPOSITION

MODEL	CASING	O-RING	MECHANICAL SEAL	CONNECTIONS	SIZE	MOTOR VERSION
DR040	**P** = PP	**D** = EPDM	**T1** = SIC + C	**1** = BSPP STD	80	**IE** = IEC FLANGE
	K = PVDF	**V** = VITON		**2** = FLANGED	90	**-** = NO MOTOR
					100	
					112	
					132	

DRAGON SERIES

DR 45

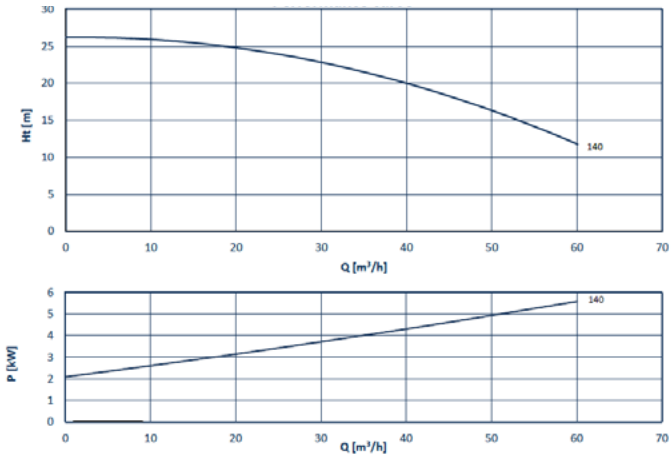
PP

PVDF

TECHNICAL DATA

- Inlet connections **2" 1/2 F BSPP**
- Outlet connections **2" M BSPP**
- Max. Flow rate **60 m3/h**
- Max. Delivery head **26 m**
- Max Viscosity **500 CPS**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

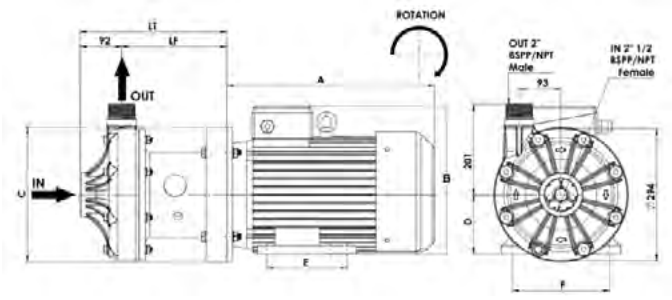
PERFORMANCE



The curves and performance data refer to pumps with free discharge, water at 20°C, and a two poles, 50 Hz motor. Four poles curves are available on page 34.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 112	IEC 132S	IEC 132S	IEC 160M
kW	4	5,5	7,5	11
Weight kg*	26,7	38,5	42,2	101
A* mm	335	356	356	500
B* mm	286	319	319	425
C* mm	250	300	300	350
D* mm	112	132	132	160
E* mm	140	140	140	210
F* mm	190	216	216	254
LT* mm	270,5	326,5	326,5	326,5
LF* mm	179,5	234	234	234



Standard motors: 2-pole, B3B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.

COMPOSITION

MODEL	CASING	O-RING	MECHANICAL SEAL	CONNECTIONS	SIZE	MOTOR VERSION
DR045	**P** = PP	**D** = EPDM	**T1** = SIC + C	**1** = BSPP STD	100	**IE** = IEC FLANGE
	K = PVDF	**V** = VITON		**2** = FLANGED	112	**-** = NO MOTOR
				5 = NPT	132	
					160	

DRAGON SERIES

DR 50

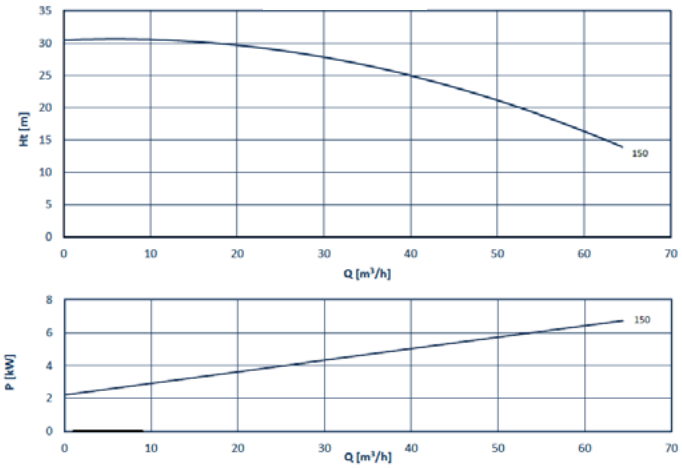
PP

PVDF

TECHNICAL DATA

- Inlet connections **2" 1/2 F BSPP**
- Outlet connections **2" M BSPP**
- Max. Flow rate **64 m3/h**
- Max. Delivery head **30,5 m**
- Max Viscosity **600 CPS**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

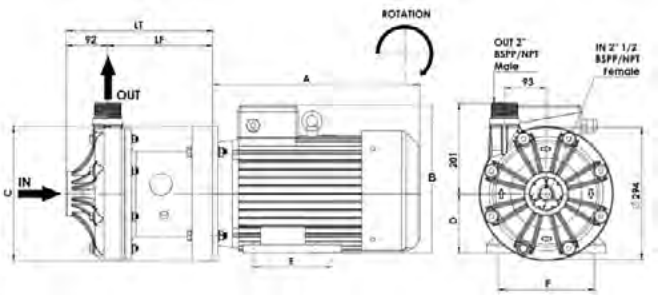
PERFORMANCE



The curves and performance data refer to pumps with free discharge, water at 20°C, and a two poles, 50 Hz motor. Four poles curves are available on page 34.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 132S	IEC 132S	IEC 160M	IEC 160M
kW	5,5	7,5	11	15
Weight kg*	38,5	42,2	101	111
A* mm	356	356	500	500
B* mm	319	319	425	425
C* mm	300	300	350	350
D* mm	132	132	160	160
E* mm	140	140	210	210
F* mm	216	216	254	254
LT* mm	326,5	326,5	326,5	326,5
LF* mm	234	234	234	234



Standard motors: 2-pole, B3B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.

COMPOSITION

MODEL	CASING	O-RING	MECHANICAL SEAL	CONNECTIONS	SIZE	MOTOR VERSION
DR050	P = PP	D = EPDM	T1 = SIC + C	1 = BSPP STD	100	IE = IEC FLANGE
	K = PVDF	V = VITON		2 = FLANGED	112	- = NO MOTOR
				5 = NPT	132	
					160	

DRAGON SERIES

DR 60

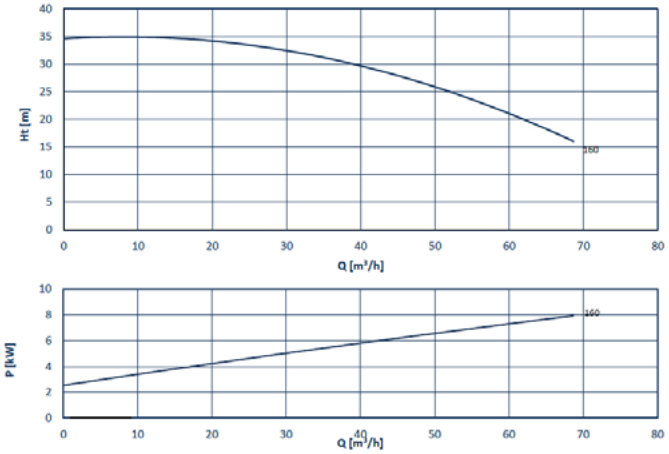
PP

PVDF

TECHNICAL DATA

- Inlet connections **2" 1/2 F BSPP**
- Outlet connections **2" M BSPP**
- Max. Flow rate **68,5 m3/h**
- Max. Delivery head **35 m**
- Max Viscosity **700 CPS**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

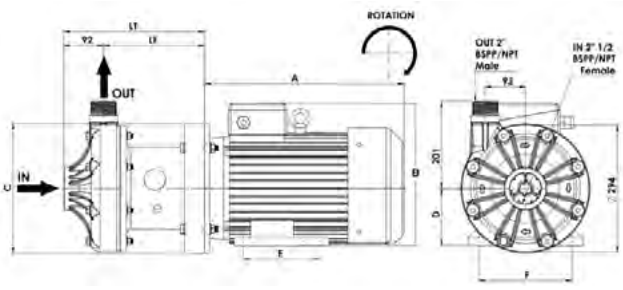
PERFORMANCE



The curves and performance data refer to pumps with free discharge, water at 20°C, and a two poles, 50 Hz motor. Four poles curves are available on page 34.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 132S	IEC 132S	IEC 160M	IEC 160M	IEC 160L
kW	5,5	7,5	11	15	18,5
Weight kg*	38,5	42,2	101	111	126
A* mm	356	356	500	500	545
B* mm	319	319	425	425	425
C* mm	300	300	350	350	350
D* mm	132	132	160	160	160
E* mm	140	140	210	210	254
F* mm	216	216	254	254	254
LT* mm	326,5	326,5	326,5	326,5	326,5
LF* mm	234	234	234	234	234



Standard motors: 2-pole, B3B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.

COMPOSITION

MODEL	CASING	O-RING	MECHANICAL SEAL	CONNECTIONS	SIZE	MOTOR VERSION
DR060	P = PP	D = EPDM	T1 = SIC + C	1 = BSPP STD	100	IE = IEC FLANGE
	K = PVDF	V = VITON		2 = FLANGED	112	- = NO MOTOR
				5 = NPT	132	
					160	

DRAGON SERIES

DR 70

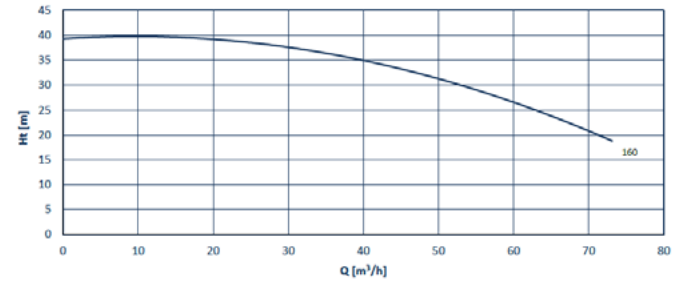
PP

PVDF

TECHNICAL DATA

- Inlet connections **2" 1/2 F BSPP**
- Outlet connections **2" M BSPP**
- Max. Flow rate **73 m3/h**
- Max. Delivery head **40 m**
- Max Viscosity **800 CPS**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

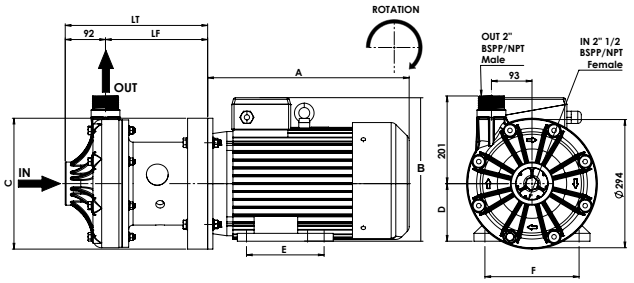
PERFORMANCE



The curves and performance data refer to pumps with free discharge, water at 20°C, and a two poles, 50 Hz motor. Four poles curves are available on page 34.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 132S	IEC 160M	IEC 160M	IEC 160L
kW	7,5	11	15	18,5
Weight kg*	42,2	101	111	126
A* mm	356	500	500	545
B* mm	319	425	425	425
C* mm	300	350	350	350
D* mm	132	160	160	160
E* mm	140	210	210	254
F* mm	216	254	254	254
LT* mm	326,5	326,5	326,5	326,5
LF* mm	234	234	234	234



Standard motors: 2-pole, B3B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.

COMPOSITION

MODEL	CASING	O-RING	MECHANICAL SEAL	CONNECTIONS	SIZE	MOTOR VERSION
DR070	P = PP	D = EPDM	T1 = SIC + C	1 = BSPP STD	100	IE = IEC FLANGE
	K = PVDF	V = VITON		2 = FLANGED	112	- = NO MOTOR
				5 = NPT	132	
					160	

DRAGON SERIES

DR 80

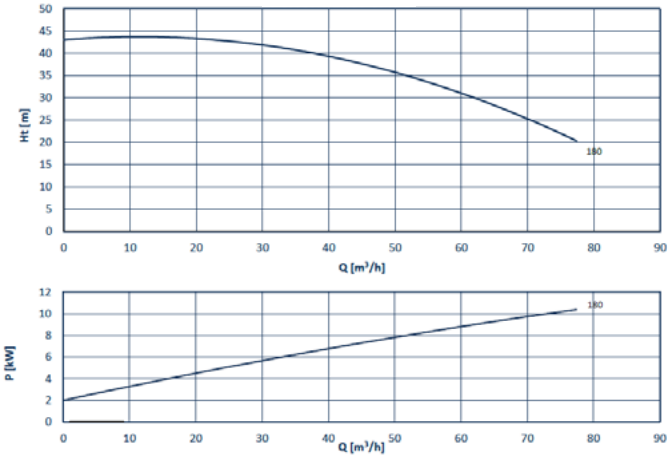
PP

PVDF

TECHNICAL DATA

- Inlet connections **2" 1/2 F BSPP**
- Outlet connections **2" M BSPP**
- Max. Flow rate **78 m3/h**
- Max. Delivery head **55 m**
- Max Viscosity **800 CPS**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

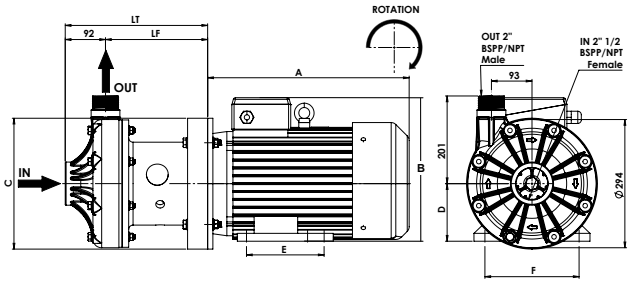
PERFORMANCE



The curves and performance data refer to pumps with free discharge, water at 20°C, and a two poles, 50 Hz motor. Four poles curves are available on page 34.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 132S	IEC 160M	IEC 160M	IEC 160L
kW	7,5	11	15	18,5
Weight kg*	42,2	101	111	126
A* mm	356	500	500	545
B* mm	319	425	425	425
C* mm	300	350	350	350
D* mm	132	160	160	160
E* mm	140	210	210	254
F* mm	216	254	254	254
LT* mm	326,5	326,5	326,5	326,5
LF* mm	234	234	234	234



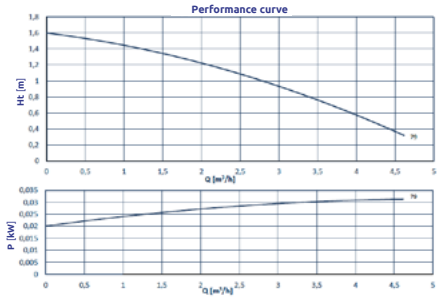
Standard motors: 2-pole, B3B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.

COMPOSITION

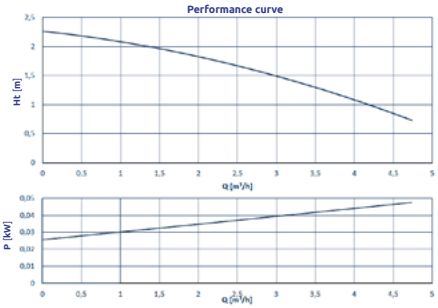
MODEL	CASING	O-RING	MECHANICAL SEAL	CONNECTIONS	SIZE	MOTOR VERSION
DR080	P = PP	D = EPDM	T1 = SIC + C	1 = BSPP STD	100	IE = IEC FLANGE
	K = PVDF	V = VITON		2 = FLANGED	112	- = NO MOTOR
				5 = NPT	132	
					160	

DRAGON SERIES 4 POLES CURVES

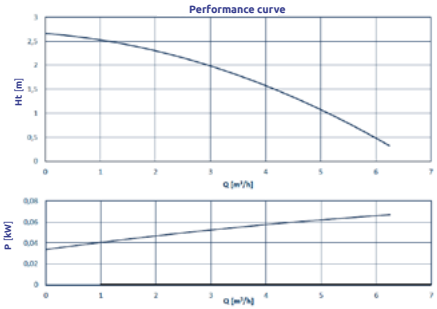
DR6



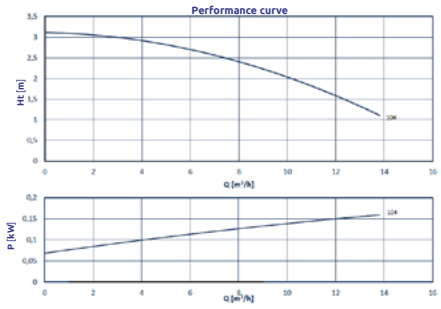
DR10



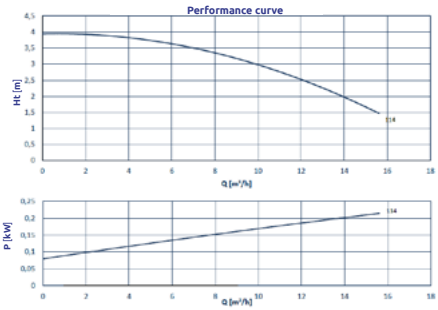
DR15



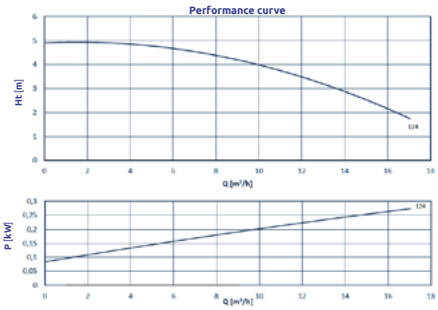
DR20



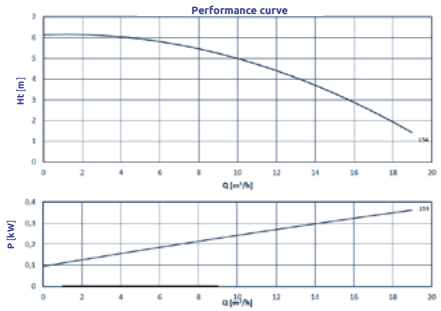
DR25



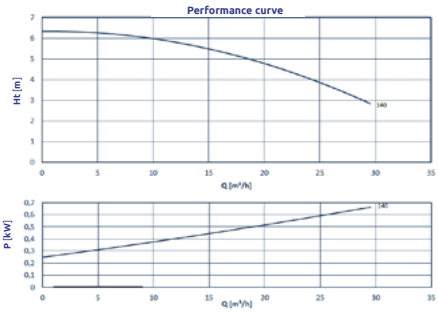
DR30



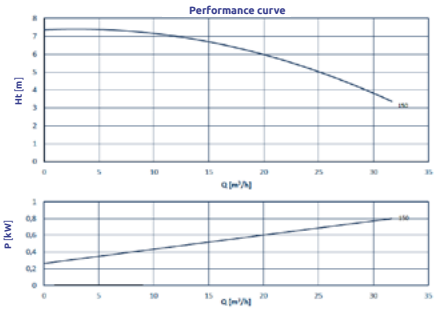
DR40



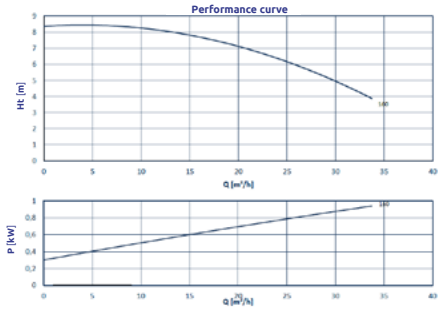
DR45



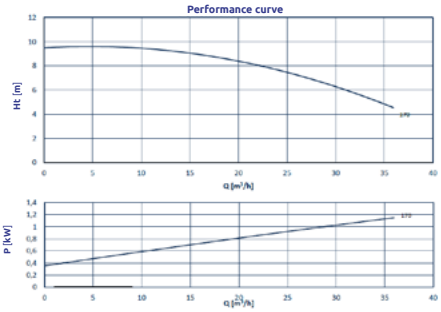
DR50



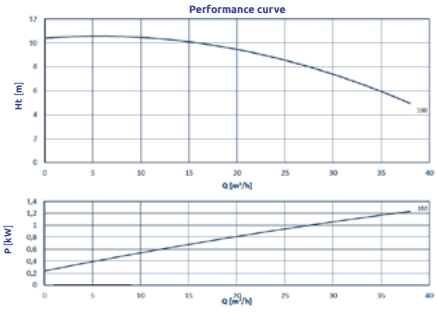
DR60



DR70



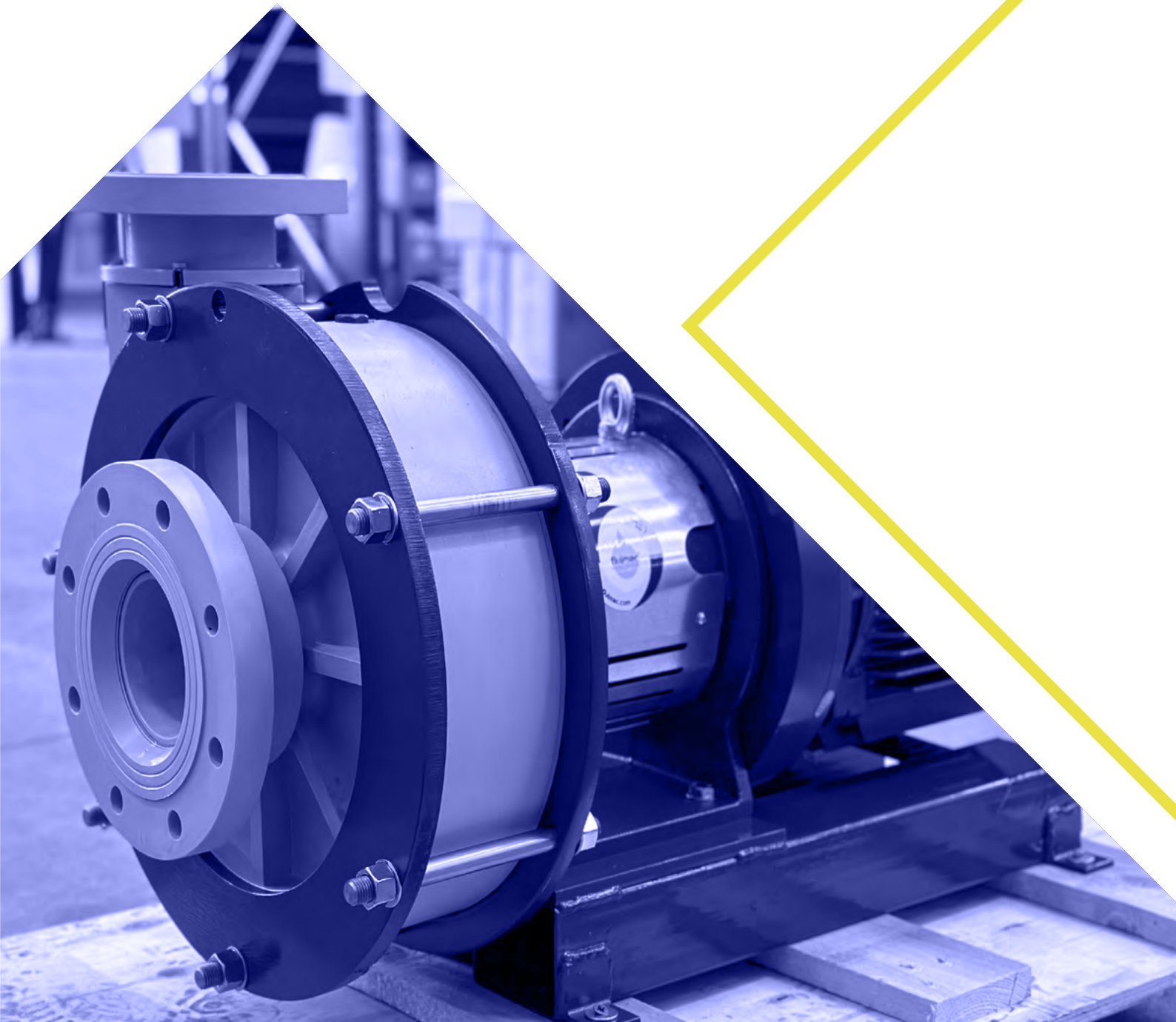
DR80



fluimac®
PUMPS WE TRUST

DRAGON ZN HORIZONTAL CENTRIFUGAL PUMPS

Thermoplastic centrifugal pumps with mechanical seal for flow rates up to 200 m3/h



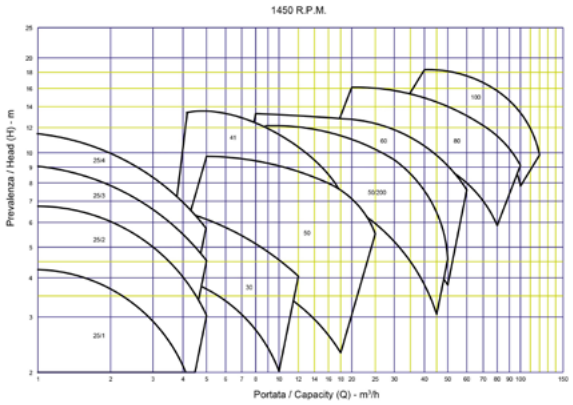
DRAGON ZN SERIES

The Dragon ZN horizontal centrifugal pump is specifically designed for the safe and efficient transfer of chemically aggressive liquids, even in applications with high flow rates (up to 200 m3/h) and high heads. Equipped with IEC type B5 electric motors, this version combines lightweight, compactness, and reliability. The reciprocating design, thanks to a rigid coupling, allows for coupling with standardized IEC electric motors or, upon request, NEMA motors. This version features a single external ceramic/PTFE mechanical seal that operates on the shaft with a PTFE sleeve. The seal is internally flushed according to API PLAN 01. It is also possible to provide an API PLAN 32 type flush with a compatible liquid from an external source that mixes with the pumped fluid to cool and clean the seal chamber and prevent any small deposits.

TECHNICAL DATA

- Polypropylene, PVDF, glass-filled Moplen®, impellers also available in Ryton®.
- AISI 316L shaft with PTFE or Hastelloy-C sleeve.
- Single or double external mechanical seal in ceramic and PTFE or silicon carbide/silicon carbide.
- No metallic materials come into contact with the pumped liquid.

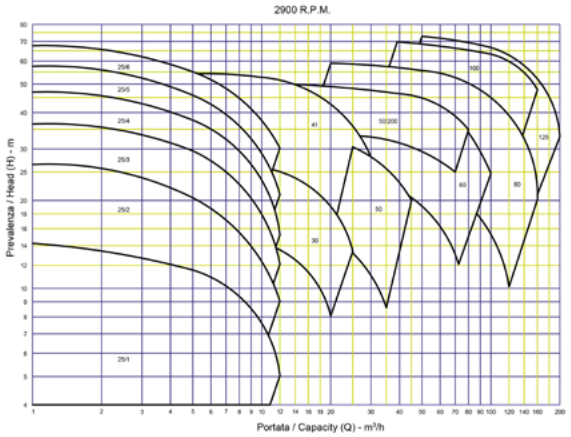
PERFORMANCE



APPLICATIONS

- Chemical and pharmaceutical production processes
- Galvanic treatments
- Toxic fume abatement systems
- Incinerators
- Fish farming
- Agri-food industries
- Steel industries
- Textile industries
- Sugar refineries
- Paper mills

PERFORMANCE



Upon request, the ZN series, for more demanding applications, is also available with a joint and support with two grease-lubricated bearings.

fluimac®
PUMPS WE TRUST

TYPHOON VERTICAL CENTRIFUGAL PUMPS

Thermoplastic vertical centrifugal pumps

TYPHOON SERIES

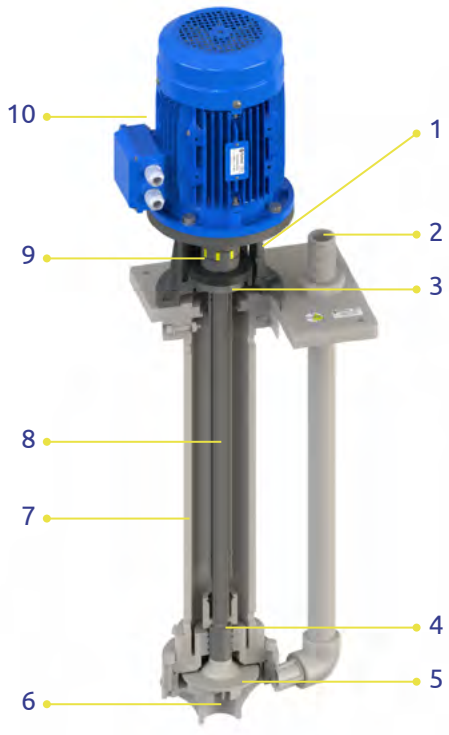
TYPHOON vertical centrifugal pumps are high-efficiency, fixed-installation pumps, with the pump directly immersed in the storage tank. These pumps are used to rapidly empty fluids, with flows ranging from 6 to 80 m3/hour. The special design of the semi-open impeller allows continuous pumping even with dirty fluids, with an apparent viscosity of up to 500 cps, and possibly with small, suspended solids. TYPHOON pumps are electrically driven pumps that, through a flexible coupling, transmit rotation to the shaft, and the impeller, thanks to the centrifugal effect, draws in air from the central duct and releases it into the peripheral tube.

MAIN FEATURES

- Casing and impeller in PP and PVDF
- EPDM and VITON o-ring
- Length from 250mm to 2000mm
- Max. flow rate: 80 m3/h; Max. delivery head 45 mts
- Temperature: from -20°C to +95°C
- Max viscosity: 500 CPS
- Electric motors from 0,37 Kw up to 18,5kW
- Specific Gravity up to 1.9

INSTALLATION

DRY RUNNING
Suitable devices must be positioned to prevent dry running and the formation of vortices, which could cause subsequent air suction. Dry running or running with air bubbles could damage the pump.



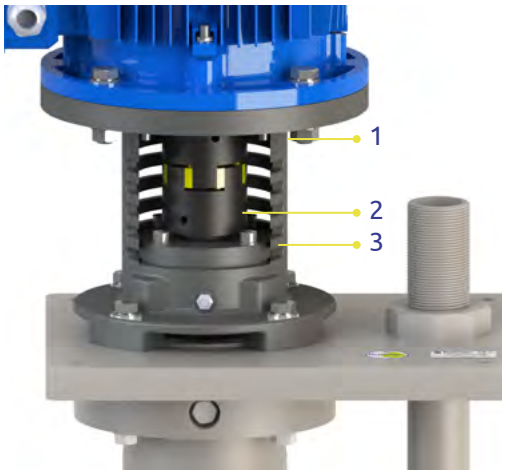
1 Lantern
2 Outlet
3 Bearing
4 Bushing
5 Impeller
6 Inlet
7 Column
8 Shaft
9 Coupling
10 Electric motor

TYPHOON SERIES

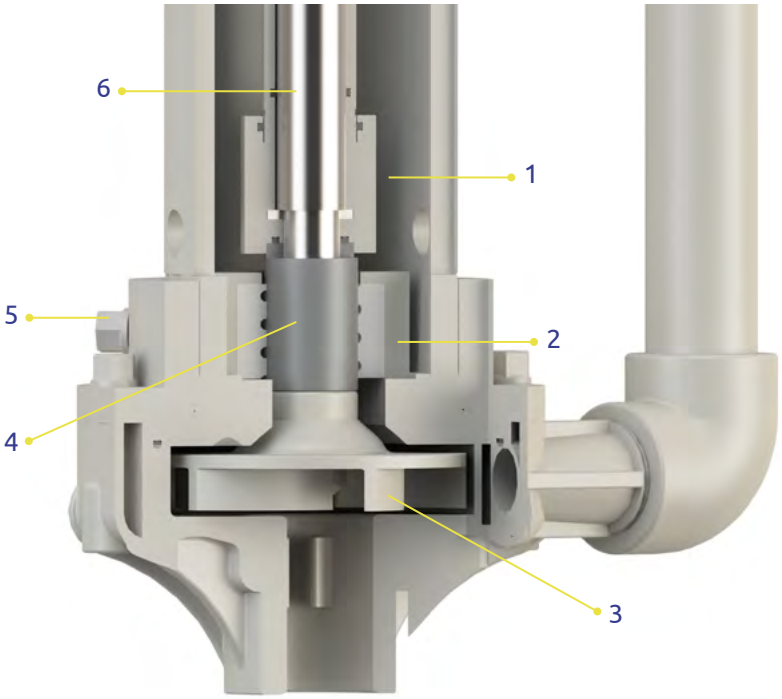
FLUIMAC coupling is the flexible and homokinetic coupling that assures the best performance in relation to the physical space occupied in its class. It has a very compact design and allows safe power transmission by absorbing peak loads and torsional vibrations. Moreover, the elastic design of the polyurethane gear ring compensates for angular and radial misalignments and also absorbs small shaft length variation.

MAIN FEATURES

- Compact Design
- Safe power transmission by absorbing peak loads and torsional vibrations
- Compensates for axial misalignments
- Elastic gear ring resistant to Chemical agents



1. Lantern
2. Flexible coupling
3. Radial bearing



1. Shaft guide cover
2. PTFE drive bushing
3. PP/PVDF impeller
4. SiC bushing
5. PVDF bolts
6. Shaft

TYPHOON SERIES

TY 6

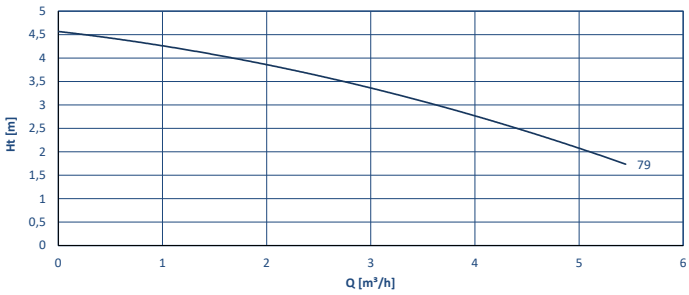
PP

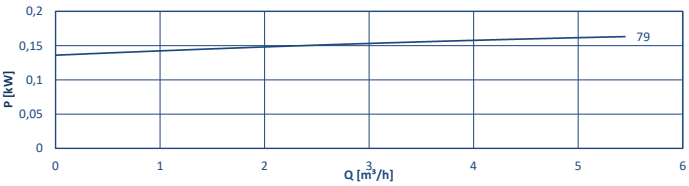
PVDF

TECHNICAL DATA

- Inlet connections **1" 1/2 F BSPP**
- Outlet connections **1" M BSPP**
- Max. Flow rate **6,2 m3/h**
- Max. Delivery head **6 m**
- Max Viscosity **100 cps**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

PERFORMANCE



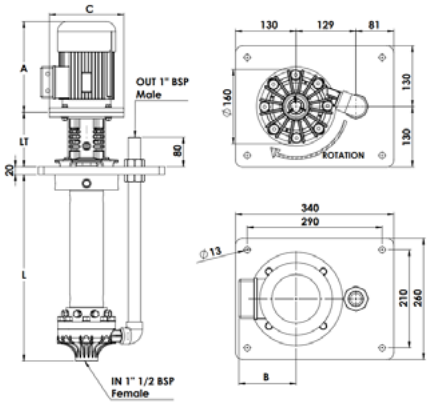


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 71	IEC 71	IEC 80
kW	0,37	0,55	0,75
Weight kg*	5,6	6,1	9,1
A* mm	225	225	250
B* mm	183	183	212
C* mm	160	160	200
LT* mm	147	147	147

Standard motors: 2 poles, B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.



COMPOSITION

MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	SIZE	MOTOR
TY006	P = PP	D = EPDM	250	1 = BSPP STD	71	IE = IEC FLANGE
	K = PVDF	V = VITON	500	2 = FLANGED	80	- = NO MOTOR
			800		90	
			1000			

TYPHOON SERIES

TY 10

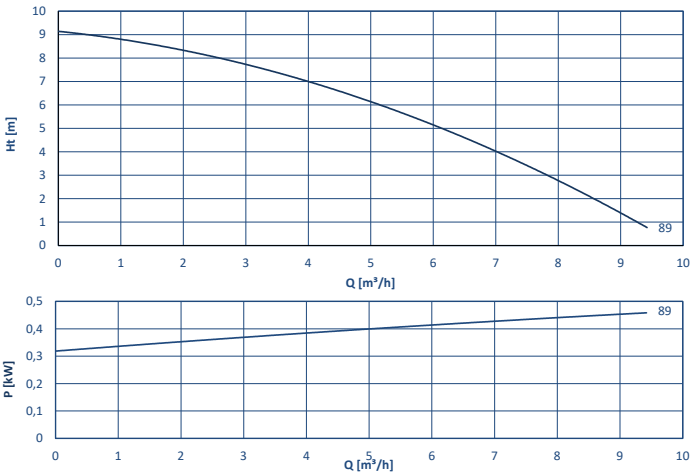
PP

PVDF

TECHNICAL DATA

- Inlet connections **1" 1/2 F BSPP**
- Outlet connections **1" M BSPP**
- Max. Flow rate **9,2 m3/h**
- Max. Delivery head **8,8 m**
- Max Viscosity **150 cps**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

PERFORMANCE

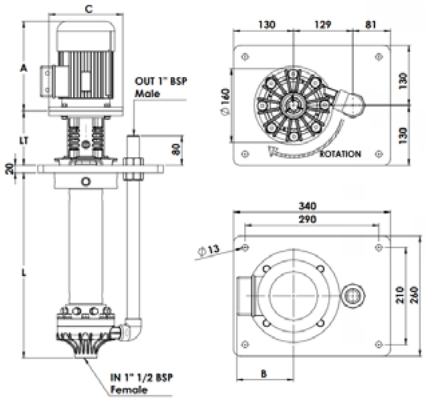


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 71	IEC 80	IEC 80	IEC 90S
kW	0,55	0,75	1,1	1,5
Weight kg*	6,1	9,1	10,2	12
A* mm	225	250	250	260
B* mm	183	212	212	230
C* mm	160	200	200	200
LT* mm	147	147	147	157

Standard motors: 2 poles, B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.



COMPOSITION

MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	SIZE	MOTOR
TY010	P = PP	D = EPDM	250	1 = BSPP STD	71	IE = IEC FLANGE
	K = PVDF	V = VITON	500	2 = FLANGED	80	- = NO MOTOR
			800		90	
			1000			

TYPHOON SERIES

TY 15

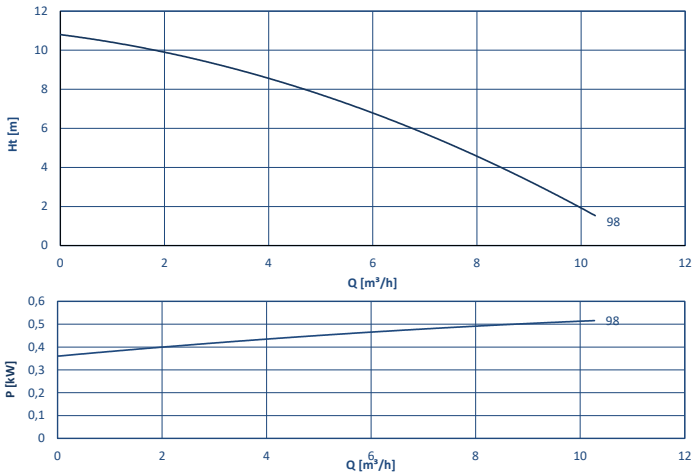
PP

PVDF

TECHNICAL DATA

- Inlet connections **1" 1/2 F BSPP**
- Outlet connections **1" M BSPP**
- Max. Flow rate **10,5 m3/h**
- Max. Delivery head **11,4 m**
- Max Viscosity **200 cps**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

PERFORMANCE

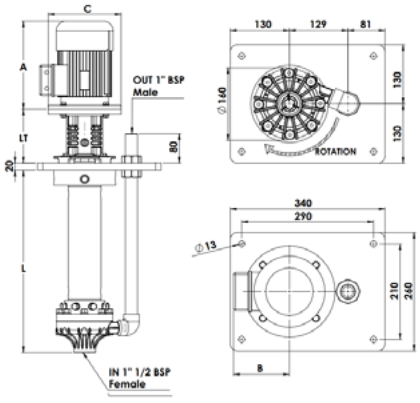


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 80	IEC 80	IEC 90S
kW	0,75	1,1	1,5
Weight kg*	9,1	10,2	12
A* mm	250	250	260
B* mm	212	212	230
C* mm	212	212	230
LT* mm	147	147	157

Standard motors: 2 poles, B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.



COMPOSITION

MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	SIZE	MOTOR
TY015	P = PP	D = EPDM	250	1 = BSPP STD	71	IE = IEC FLANGE
	K = PVDF	V = VITON	500	2 = FLANGED	80	- = NO MOTOR
			800		90	
			1000			

TYPHOON SERIES

TY 20

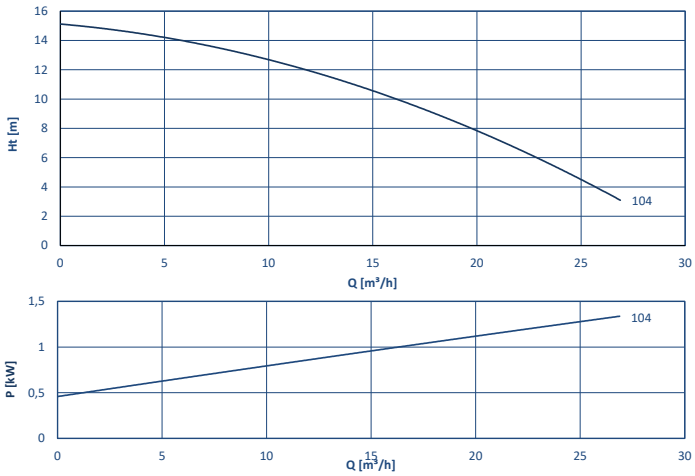
PP

PVDF

TECHNICAL DATA

- Inlet connections **2" F BSPP**
- Outlet connections **1" 1/2 M BSPP**
- Max. Flow rate **27 m3/h**
- Max. Delivery head **15 m**
- Max Viscosity **300 cps**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

PERFORMANCE

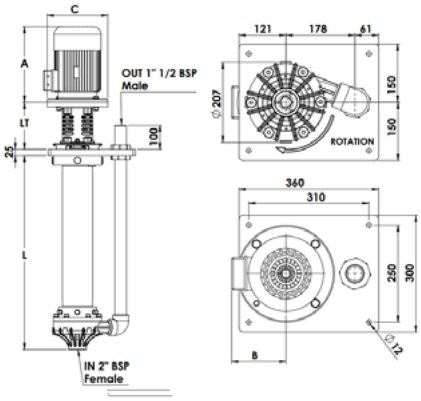


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 90S	IEC 90L	IEC 100L	IEC 112	IEC 132S
kW	1,5	2,2	3	4	5,5
Weight kg*	12	15	22,3	26,7	38,5
A* mm	260	285	326	335	356
B* mm	140	140	147	174	187
C* mm	200	200	250	250	300
LT* mm	194	194	194	194	216

Standard motors: 2 poles, B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.



COMPOSITION

MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	SIZE	MOTOR
TY020	P = PP	D = EPDM	500	1 = BSPP STD	80	IE = IEC FLANGE
	K = PVDF	V = VITON	800	2 = FLANGED	90	- = NO MOTOR
			1000		100	
			1250		112	
			1500		132	
			1750			
			2000			

TYPHOON SERIES

TY 25

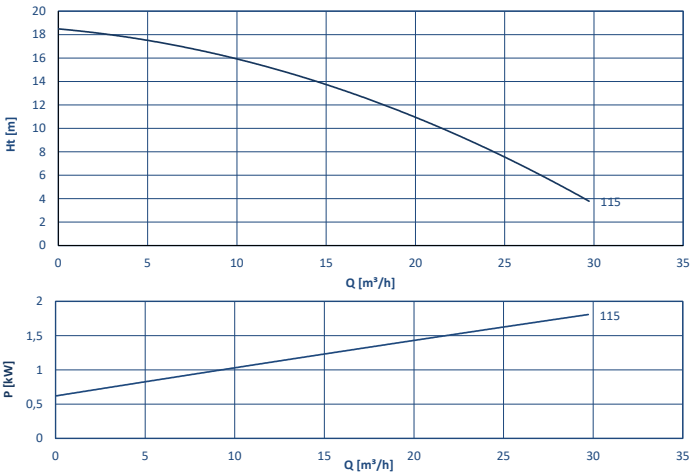
PP

PVDF

TECHNICAL DATA

- Inlet connections **2" F BSPP**
- Outlet connections **1" 1/2 M BSPP**
- Max. Flow rate **30 m3/h**
- Max. Delivery head **18,4 m**
- Max Viscosity **400 cps**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

PERFORMANCE

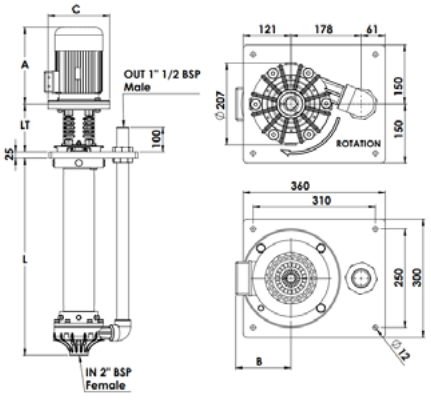


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 90S	IEC 90L	IEC 100L	IEC 112	IEC 132S
kW	1,5	2,2	3	4	5,5
Weight kg*	12	15	22,3	26,7	38,5
A* mm	260	285	326	335	356
B* mm	140	140	147	174	187
C* mm	200	200	250	250	300
LT* mm	194	194	194	194	216

Standard motors: 2 poles, B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.



COMPOSITION

MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	SIZE	MOTOR
TY025	P = PP	D = EPDM	500	1 = BSPP STD	80	IE = IEC FLANGE
	K = PVDF	V = VITON	800	2 = FLANGED	90	- = NO MOTOR
			1000		100	
			1250		112	
			1500		132	
			1750			
			2000			

TYPHOON SERIES

TY 30

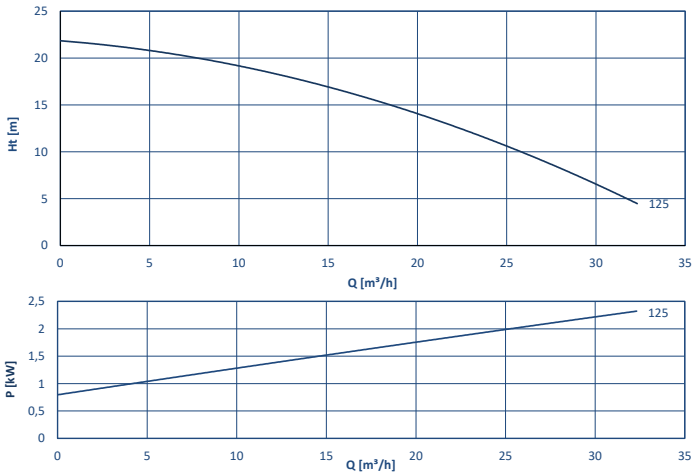
PP

PVDF

TECHNICAL DATA

- Inlet connections **2" F BSPP**
- Outlet connections **1" 1/2 M BSPP**
- Max. Flow rate **32 m3/h**
- Max. Delivery head **21,7 m**
- Max Viscosity **500 cps**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

PERFORMANCE

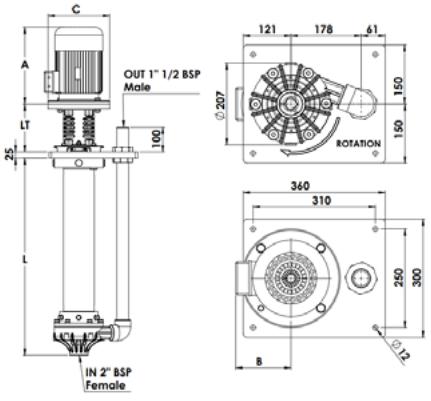


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 90L	IEC 100L	IEC 112	IEC 132S
kW	2,2	3	4	5,5
Weight kg*	15	22,3	26,7	38,5
A* mm	285	326	335	356
B* mm	140	147	174	187
C* mm	200	250	250	300
LT* mm	194	194	194	216

Standard motors: 2 poles, B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.



COMPOSITION

MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	SIZE	MOTOR
TY030	P = PP	D = EPDM	500	1 = BSPP STD	80	IE = IEC FLANGE
	K = PVDF	V = VITON	800	2 = FLANGED	90	- = NO MOTOR
			1000		100	
			1250		112	
			1500		132	
			1750			
			2000			

TYPHOON SERIES

TY 40

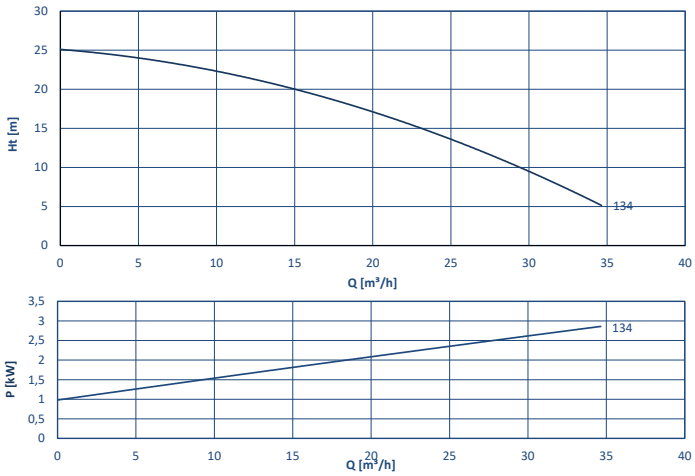
PP

PVDF

TECHNICAL DATA

- Inlet connections **2" F BSPP**
- Outlet connections **1" 1/2 M BSPP**
- Max. Flow rate **35 m3/h**
- Max. Delivery head **25 m**
- Max Viscosity **500 cps**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

PERFORMANCE

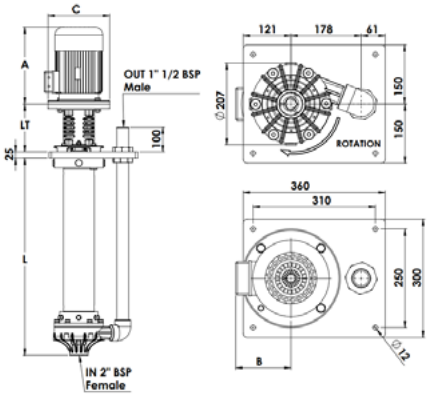


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 90L	IEC 100L	IEC 112	IEC 132S	IEC 132S
kW	2,2	3	4	5,5	7,5
Weight kg*	15	22,3	26,7	38,5	42,2
A* mm	285	326	335	356	356
B* mm	140	147	174	187	187
C* mm	200	250	250	300	300
LT* mm	194	194	194	216	216

Standard motors: 2 poles, B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.



COMPOSITION

MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	SIZE	MOTOR
TY040	P = PP	D = EPDM	500	1 = BSPP STD	80	IE = IEC FLANGE
	K = PVDF	V = VITON	800	2 = FLANGED	90	- = NO MOTOR
			1000		100	
			1250		112	
			1500		132	
			1750			
			2000			

TYPHOON SERIES

TY 45

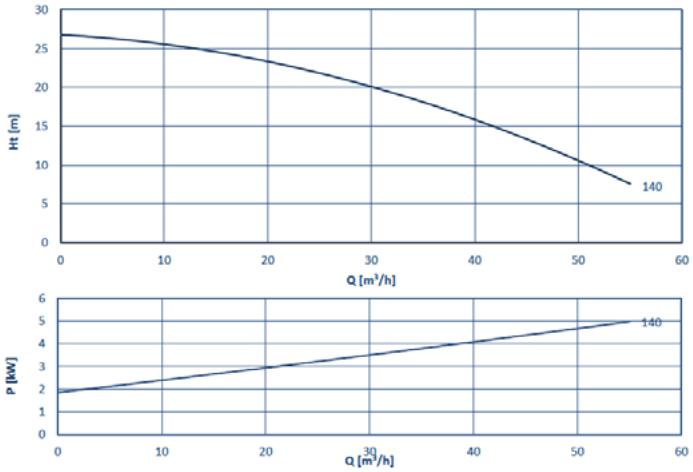
PP

PVDF

TECHNICAL DATA

- Inlet connections **2" 1/2 F BSPP**
- Outlet connections **2" M BSPP**
- Max. Flow rate **60 m3/h**
- Max. Delivery head **26 m**
- Max Viscosity **500 cps**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

PERFORMANCE

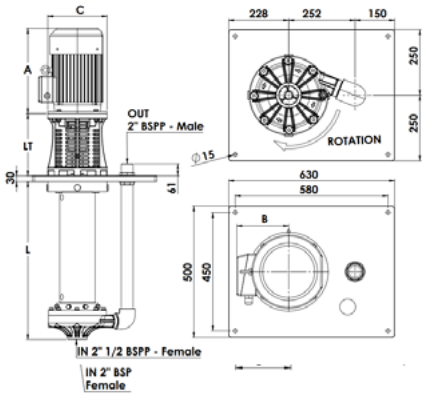


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 112	IEC 132S	IEC 132S	IEC 160M
kW	4	5,5	7,5	11
Weight kg*	26,7	38,5	42,2	101
A* mm	335	356	356	500
B* mm	174	187	187	265
C* mm	250	300	300	350
LT* mm	315	315	315	315

Standard motors: 2 poles, B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.



COMPOSITION

MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	SIZE	MOTOR
TY045	P = PP	D = EPDM	800	1 = BSPP STD	100	IE = IEC FLANGE
	K = PVDF	V = VITON	1000	2 = FLANGED	112	- = NO MOTOR
			1250		132	
			1500		160	
			1750			
			2000			

TYPHOON SERIES

TY 50

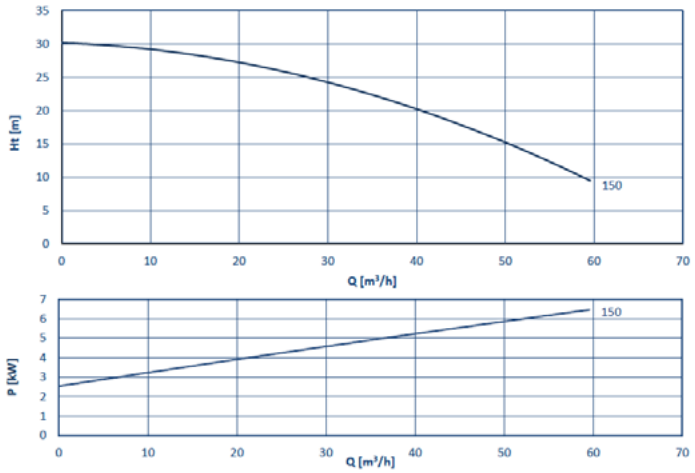
PP

PVDF

TECHNICAL DATA

- Inlet connections **2" 1/2 F BSPP**
- Outlet connections **2" M BSPP**
- Max. Flow rate **64 m3/h**
- Max. Delivery head **30,5 m**
- Max Viscosity **600 CPS**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

PERFORMANCE

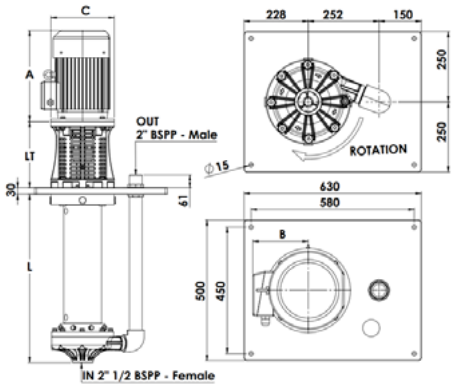


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 132S	IEC 132S	IEC 160M	IEC 160M
kW	5,5	7,5	11	15
Weight kg*	38,5	42,2	101	111
A* mm	356	356	500	500
B* mm	1887	1887	265	265
C* mm	300	300	350	350
LT* mm	315	315	315	315

Standard motors: 2 poles, B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.



COMPOSITION

MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	SIZE	MOTOR
TY050	P = PP	D = EPDM	800	1 = BSPP STD	100	IE = IEC FLANGE
	K = PVDF	V = VITON	1000	2 = FLANGED	112	- = NO MOTOR
			1250		132	
			1500		160	
			1750			
			2000			

TYPHOON SERIES

TY 60

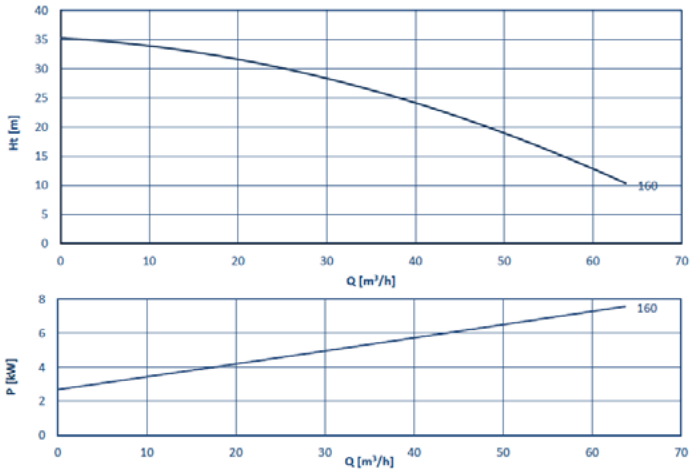
PP

PVDF

TECHNICAL DATA

- Inlet connections **2" 1/2 F BSPP**
- Outlet connections **2" M BSPP**
- Max. Flow rate **68,5 m3/h**
- Max. Delivery head **35 m**
- Max Viscosity **700 CPS**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

PERFORMANCE

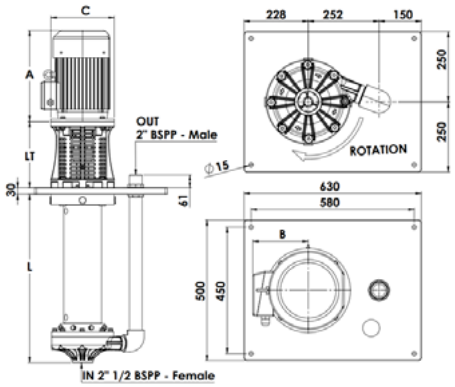


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 132S	IEC 132S	IEC 160M	IEC 160M	IEC 160L
kW	5,5	7,5	11	15	18,5
Weight kg*	38,5	42,2	101	111	126
A* mm	356	356	500	500	545
B* mm	187	187	265	265	265
C* mm	300	300	350	350	350
LT* mm	315	315	315	315	315

Standard motors: 2 poles, B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.



COMPOSITION

MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	SIZE	MOTOR
TY060	P = PP	D = EPDM	800	1 = BSPP STD	100	IE = IEC FLANGE
	K = PVDF	V = VITON	1000	2 = FLANGED	112	- = NO MOTOR
			1250		132	
			1500		160	
			1750			
			2000			

TYPHOON SERIES

TY 70

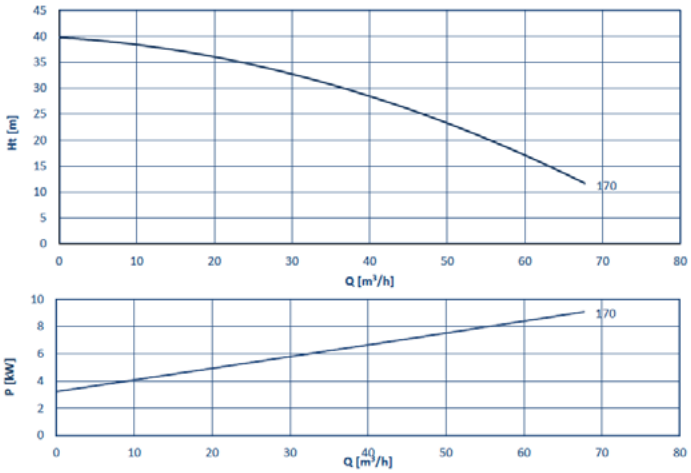
PP

PVDF

TECHNICAL DATA

- Inlet connections **2" 1/2 F BSPP**
- Outlet connections **2" M BSPP**
- Max. Flow rate **73 m3/h**
- Max. Delivery head **40 mts**
- Max Viscosity **800 CPS**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

PERFORMANCE

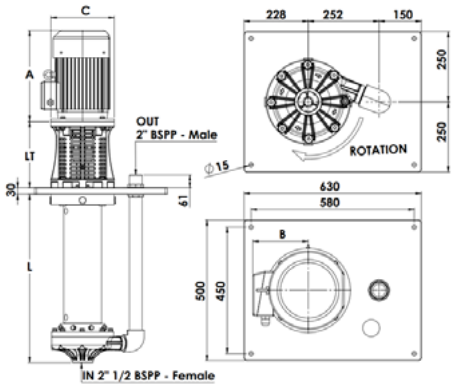


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 132S	IEC 160M	IEC 160M	IEC 160L
kW	7,5	11	15	18,5
Weight kg*	42,2	101	111	126
A* mm	356	500	500	545
B* mm	187	265	265	265
C* mm	300	350	350	350
LT* mm	315	315	315	315

Standard motors: 2 poles, B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.



COMPOSITION

MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	SIZE	MOTOR
TY070	P = PP	D = EPDM	800	1 = BSPP STD	100	IE = IEC FLANGE
	K = PVDF	V = VITON	1000	2 = FLANGED	112	- = NO MOTOR
			1250		132	
			1500		160	
			1750			
			2000			

TYPHOON SERIES

TY 80

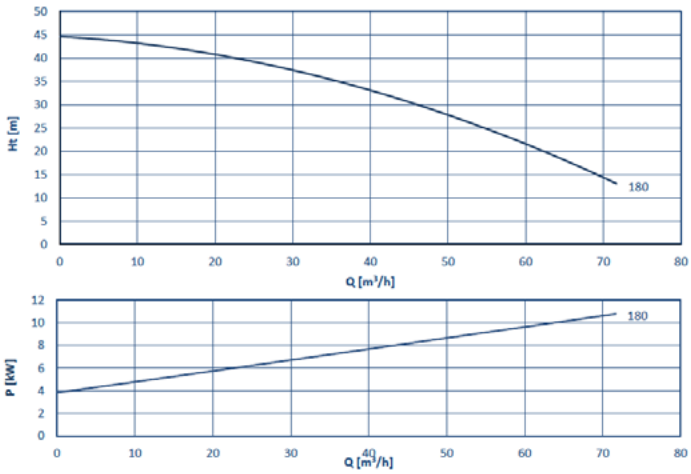
PP

PVDF

TECHNICAL DATA

- Inlet connections **2" 1/2 F BSPP**
- Outlet connections **2" M BSPP**
- Max. Flow rate **78 m3/h**
- Max. Delivery head **45 m**
- Max Viscosity **800 CPS**
- Temperature PP **-5°C +65°C**
- Temperature PVDF **-20°C +95°C**
- Impeller **Semi-Opened**

PERFORMANCE

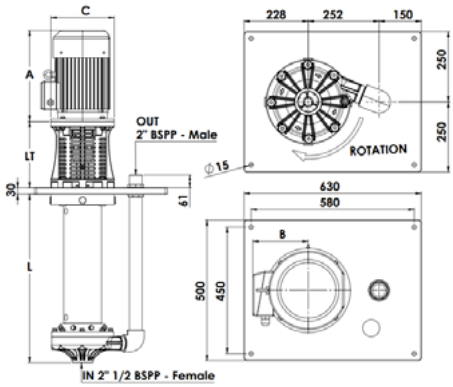


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52.
This data may vary depending on construction materials and hydraulic conditions.

MOTOR AND DIMENSIONS

Size	IEC 132S	IEC 160M	IEC 160M	IEC 160L
kW	7,5	11	15	18,5
Weight kg*	42,2	101	111	126
A* mm	356	500	500	545
B* mm	187	265	265	265
C* mm	300	350	350	350
LT* mm	315	315	315	315

Standard motors: 2 poles, B5, 2900 rpm, 50 Hz, 230/400 V, IP55, IEC flange.

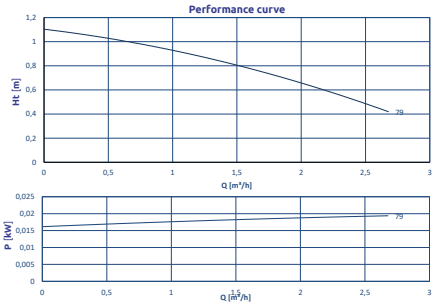


COMPOSITION

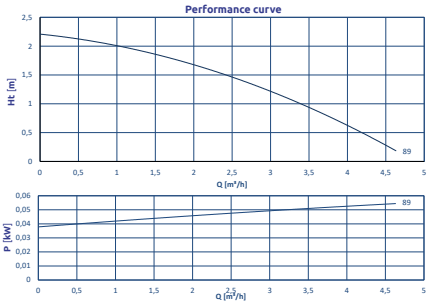
MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	SIZE	MOTOR
TY080	P = PP	D = EPDM	800	1 = BSPP STD	100	IE = IEC FLANGE
	K = PVDF	V = VITON	1000	2 = FLANGED	112	- = NO MOTOR
			1250		132	
			1500		160	
			1750			
			2000			

TYPHOON SERIES 4 POLES CURVES

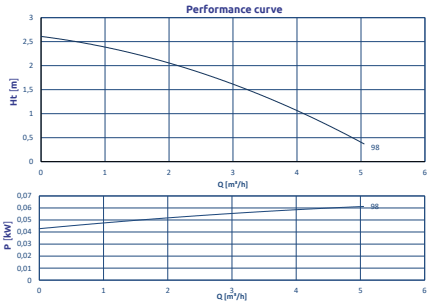
TY6



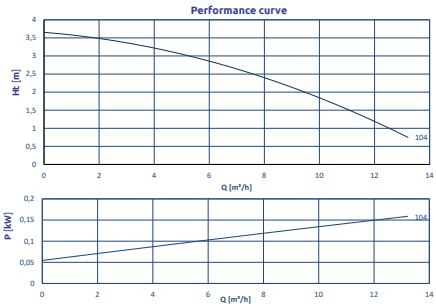
TY10



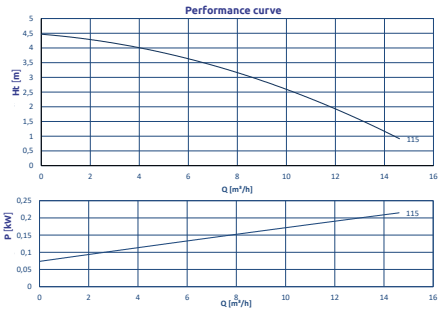
TY15



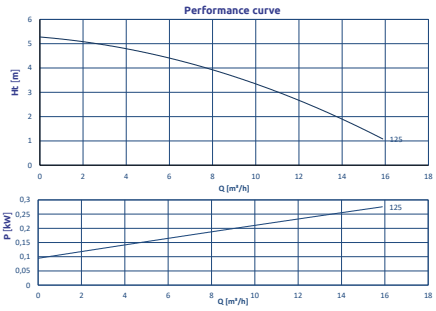
TY20



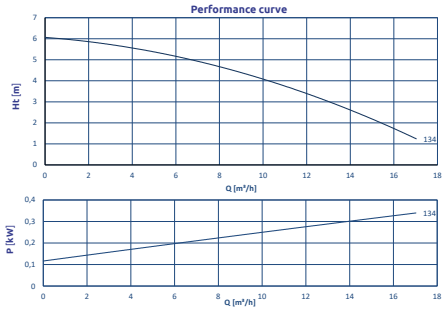
TY25



TY30



TY40



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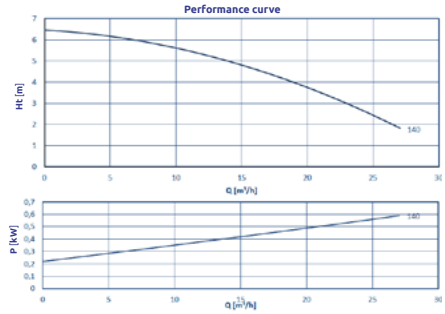

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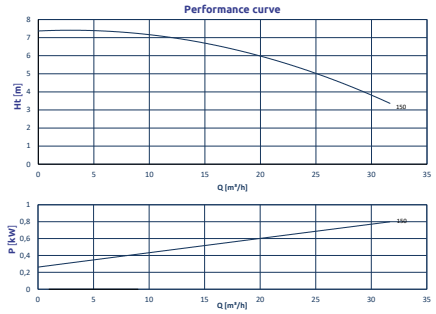

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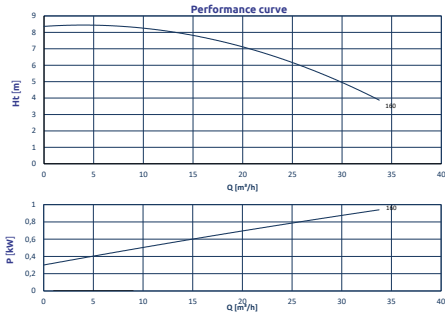

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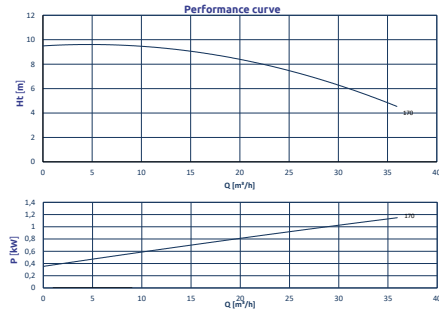

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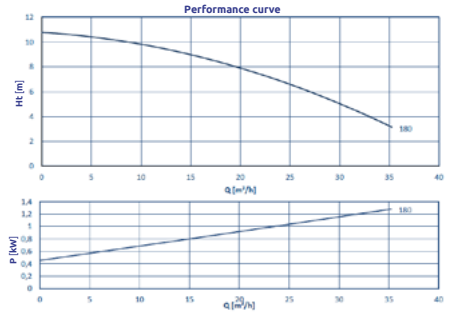
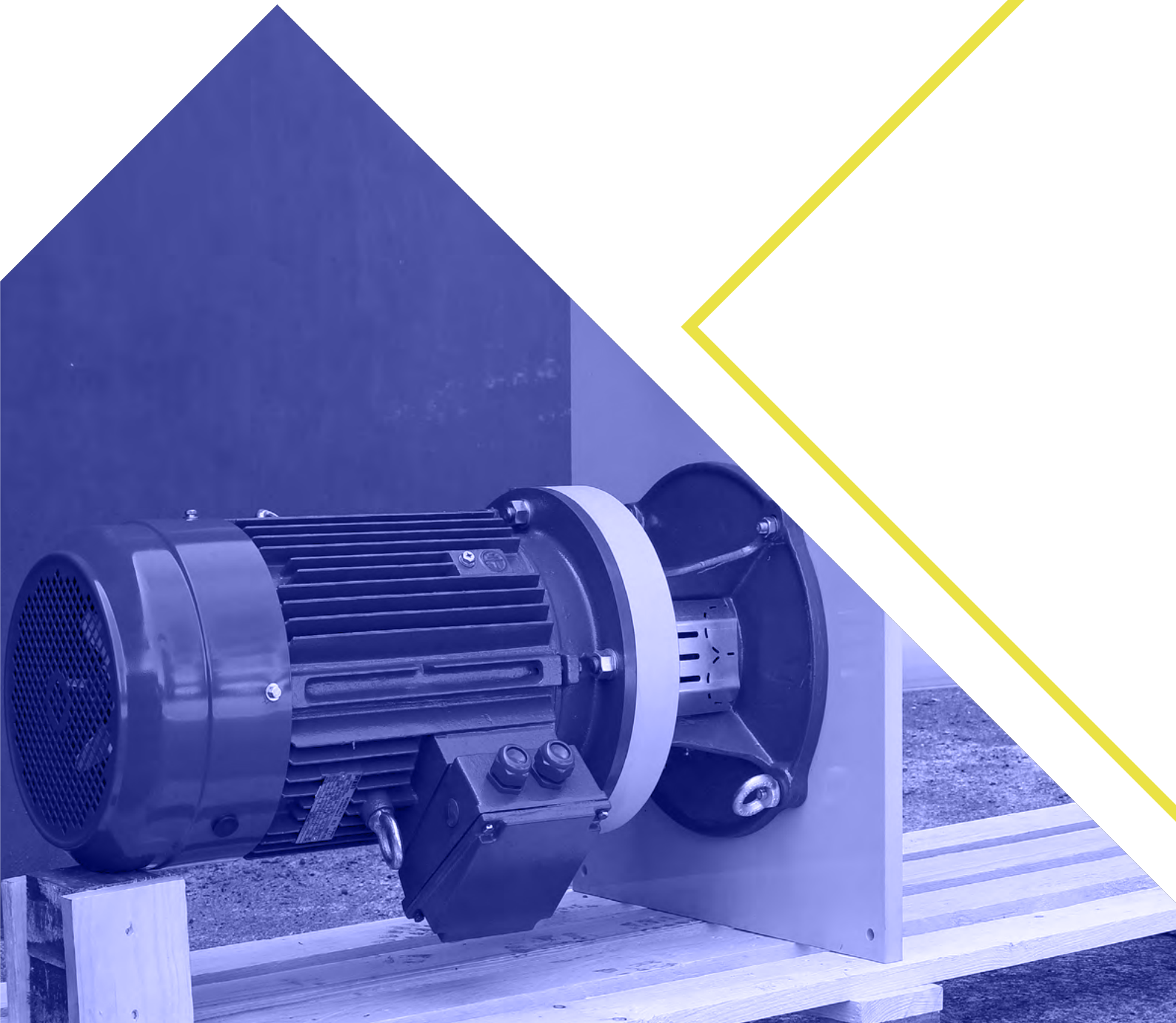


fluimac®
PUMPS WE TRUST

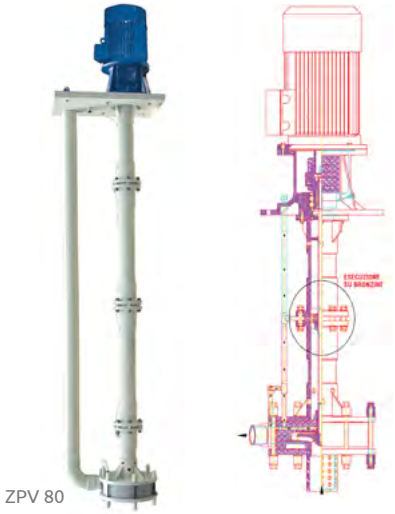
TYPHOON ZPV VERTICAL CENTRIFUGAL PUMPS

Thermoplastic vertical centrifugal pumps for flow rates up to 200 m3/h and up to 4 meters of column



TYPHOON ZPV SERIES

The Typhoon ZPV vertical centrifugal pump is specifically designed for the safe and efficient transfer of chemically aggressive liquids, even in applications with high flow rates and high heads. Made of a robust polypropylene structure and equipped with IEC form B5 electric motors, the pump guarantees compactness, reliability, and great operational versatility. The motor coupling incorporates a spark-proof elastic coupling and a robust, reinforced, grease-lubricated head bearing. The pump structure can reach a maximum length of 4 meters and is supported by an intermediate bushing made of filled PTFE, lubricated directly by the pumped fluid or via an external circuit with clean liquid.

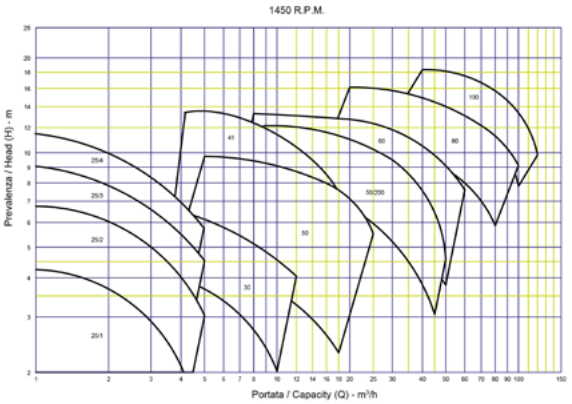


ZPV 80

TECHNICAL DATA

- **High-quality materials and components**
- Pump body: **Polypropylene, PVDF®, fiberglass-reinforced Moplen, or Ryton®**
- Shaft: **AISI 316 stainless steel covered with polyolefin heat-shrink tubing**
- **Hastelloy-C®** wear sleeves
- Guide sleeves: **Filled PTFE**
- Seal: **Splash flange with Viton® double-lip seal and Hastelloy-C® sleeve**

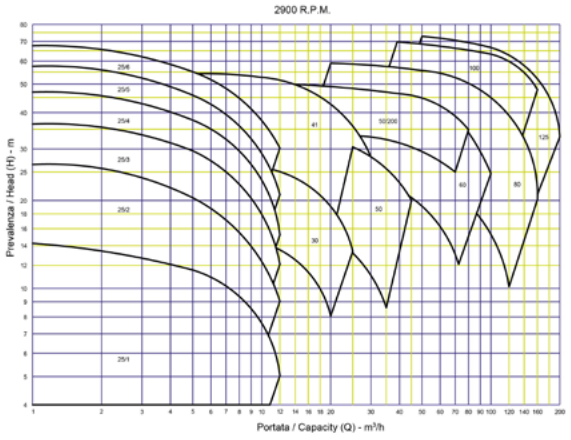
PERFORMANCE



APPLICATION

- Galvanic plants
- Scrubber systems
- Industrial fume abatement
- Deep tank collection and emptying wells

PERFORMANCE



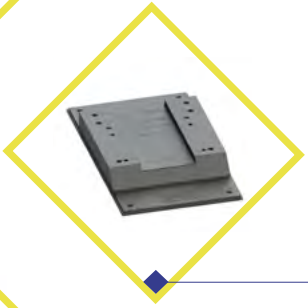
Thanks to the standardization of the shafts and guide tubes, the Typhoon ZPV series pumps ensure short delivery times, high modularity and can be equipped with additional suction tubes to increase the suction depth.

ACCESSORIES

PP BASKET FILTER FOR HORIZONTAL CENTRIFUGES
Installed on the suction side of the pumps, it protects them from suspended solids and impurities.

STAINLESS STEEL TROLLEY
Makes the pump portable.

ANTI-VIBRATION FEET KIT
Reduces the normal vibrations of a diaphragm pump.



STAINLESS STEEL AND PP BASE
Motor support and mounting base.

DRY RUN PROTECTOR
Connected to the motor, it protects the pump from dry running by detecting Ampere or Cosφ.

BALL FOOT VALVE
Made of PP or PVDF.
Available sizes:
1" - 1 1/4" - 1 1/2" - 2".
Useful to prevent the suction pipe from emptying.

VALVES, FITTINGS AND CONNECTIONS IN PP, PVC, STAINLESS STEEL

FLANGE CONNECTION KIT
It modified a pump with BSP connection into a flanged pump.

SUCTION FILTERS FOR VERTICAL CENTRIFUGES IN PP AND PVDF

Italian excellence in the world

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