

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

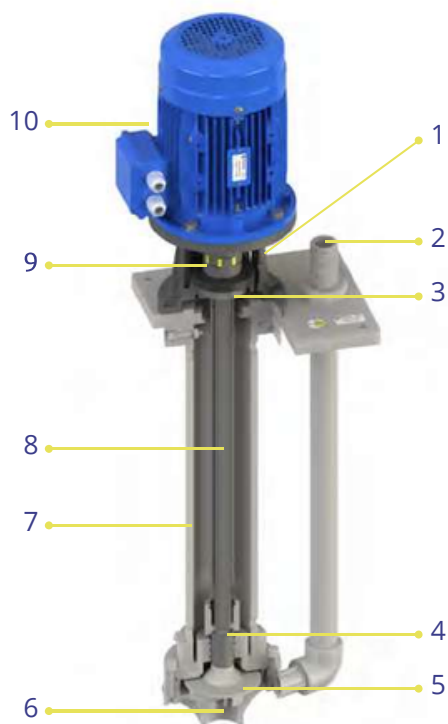
- _ Casing and impeller in PP and PVDF
- _ EPDM and VITON o-ring
- _ Length from 250mm to 2000mm
- _ Max. flow rate: 80 m³/h; Max. delivery head 45 mts
- _ Temperature: from -20°C to +95°C
- _ Max viscosity: 500 CPS
- _ Electric motors from 0,37 Kw up to 18,5kw
- _ Specific Gravity up to 1.9

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.

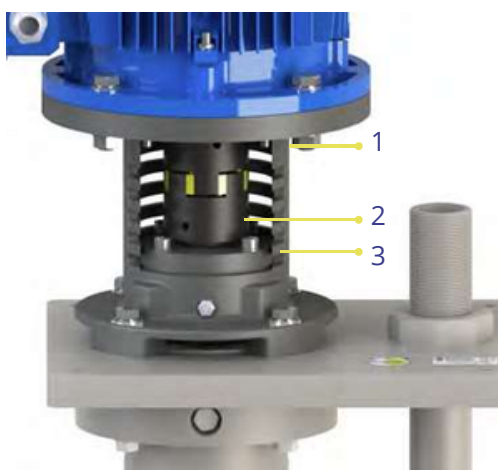


- | | | | |
|---|----------|----|----------------|
| 1 | Lantern | 6 | Inlet |
| 2 | Outlet | 7 | Column |
| 3 | Bearing | 8 | Shaft |
| 4 | Bushing | 9 | Coupling |
| 5 | Impeller | 10 | Electric motor |

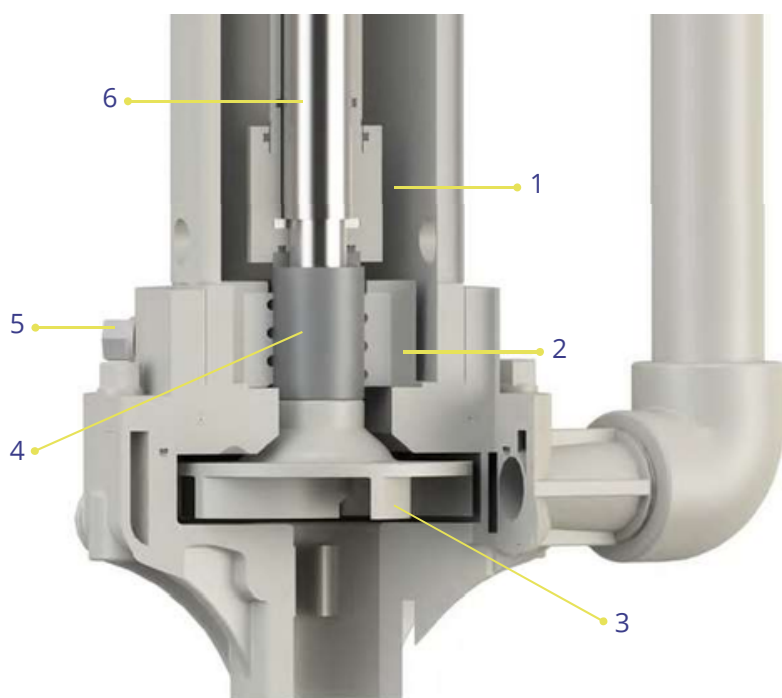
FLUIMAC coupling is the flexible and homokinetic coupling that assures the best performance in relation to the physical space occupied in its class. It has a very compact design and allows safe power transmission by absorbing peak loads and torsional vibrations. Moreover, the elastic design of the polyurethane 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

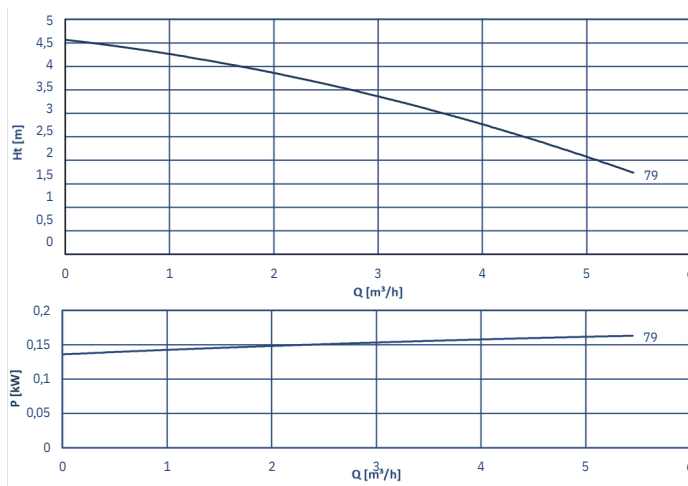
PVDF



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

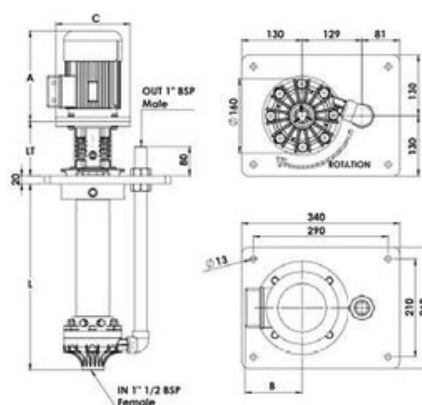


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52. This data may vary depending on construction materials and hydraulic conditions.

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	71	IE = IEC FLANGE
	K = PVDF	V = VITON	500	2 STD =	80	- = NO MOTOR
			800	FLANGED	90	
			1000			

TYPHOON SERIES

TY 10

PP

PVDF

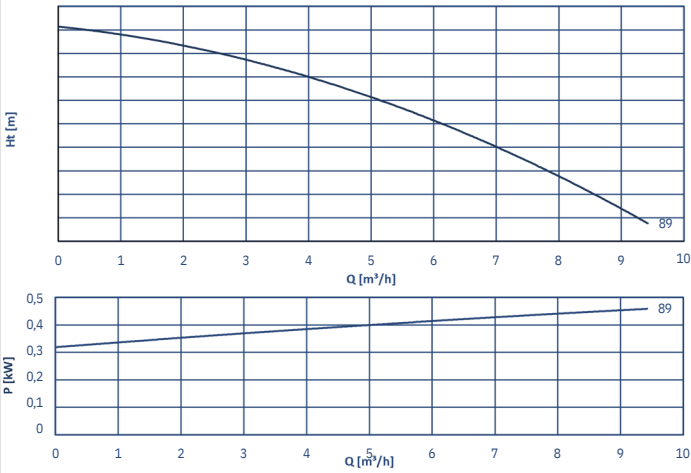


TECHNICAL DATA

- 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

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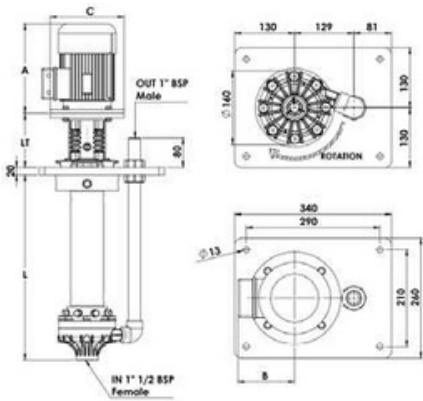


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52. This data may vary depending on construction materials and hydraulic conditions.

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	71	IE = IEC FLANGE
	K = PVDF	V = VITON	500	2 STD =	80	- = NO MOTOR
			800	FLANGED	90	
			1000			

TYPHOON SERIES

TY 15

PP

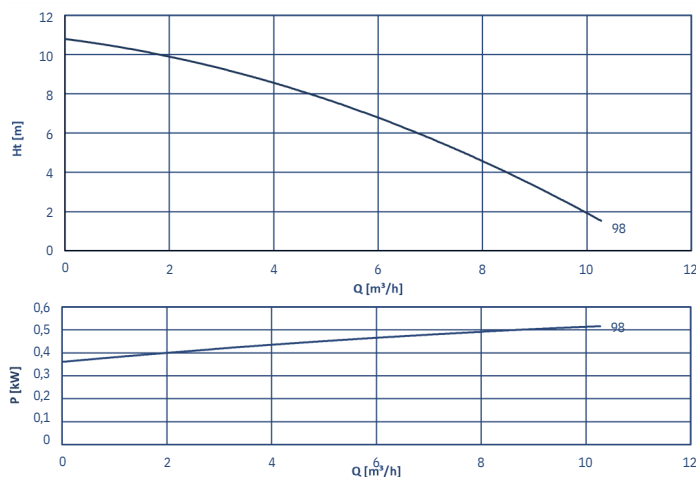
PVDF



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

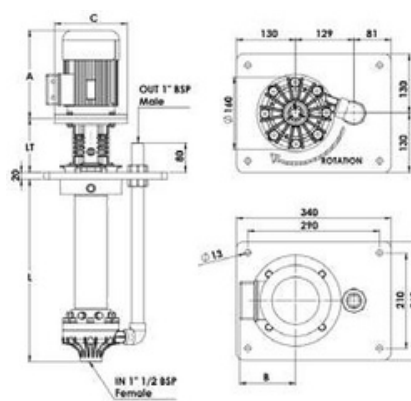


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52. This data may vary depending on construction materials and hydraulic conditions.

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	71	IE = IEC FLANGE
	K = PVDF	V = VITON	500	2 STD =	80	
			800	FLANGED	90	- = NO MOTOR
			1000			

TYPHOON SERIES

TY 20

PP

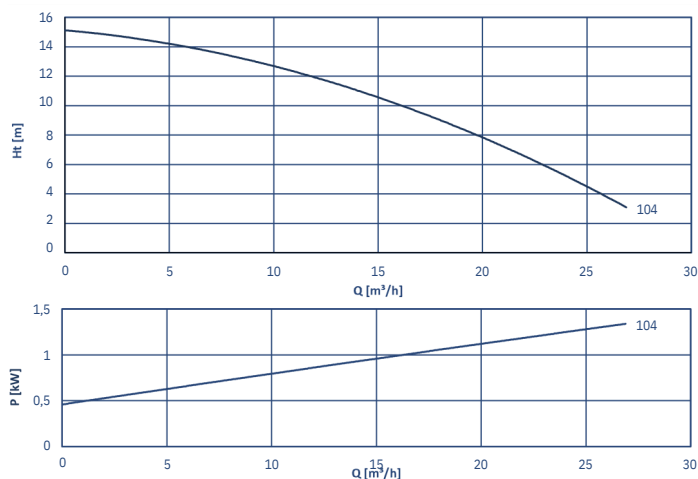
PVDF



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

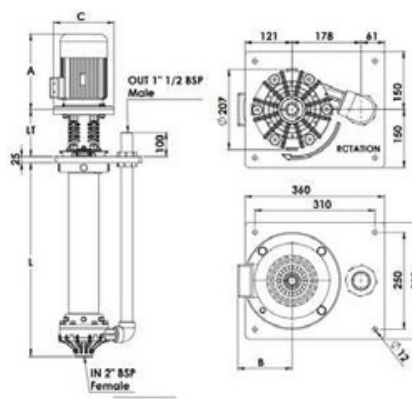


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52. This data may vary depending on construction materials and hydraulic conditions.

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 2 = FLANGED	80	IE = IEC FLANGE - = NO MOTOR
			800		90	
	K = PVDF	V = VITON	1000		100	
			1250		112	
			1500		132	
			1750			
			2000			

TYPHOON SERIES

TY 25

PP

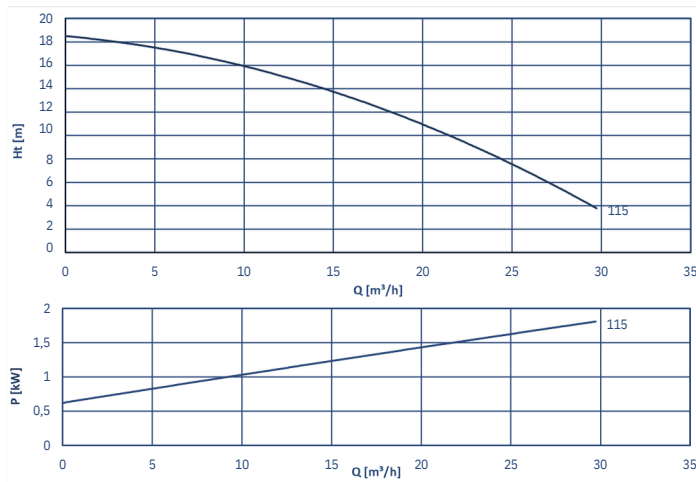
PVDF



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

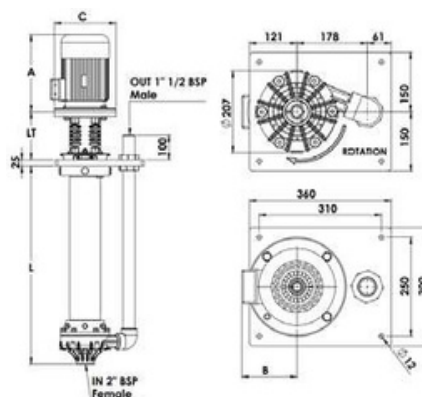


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52. This data may vary depending on construction materials and hydraulic conditions.

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
			800		90	
	K = PVDF	V = VITON	1000	2 = FLANGED	100	- = NO MOTOR
			1250		112	
			1500		132	
			1750			
			2000			

TYPHOON SERIES

TY 30

PP

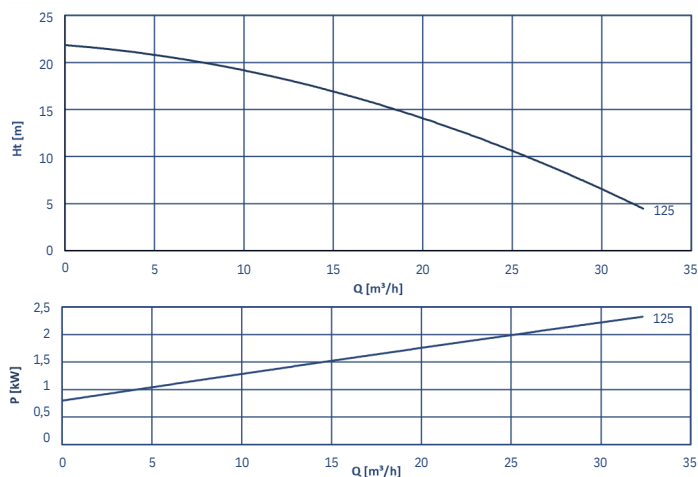
PVDF



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

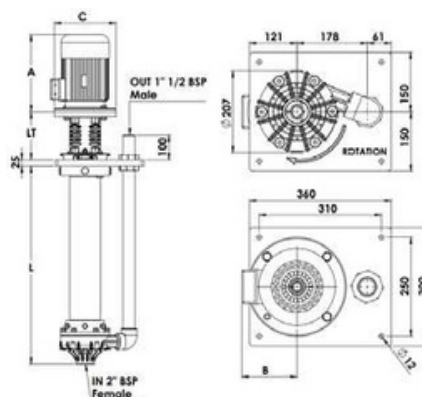


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52. This data may vary depending on construction materials and hydraulic conditions.

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 2 = FLANGED	80	IE = IEC FLANGE - = NO MOTOR
			800		90	
	K = PVDF	V = VITON	1000		100	
			1250		112	
			1750		132	
			2000			

TYPHOON SERIES

TY 40

PP

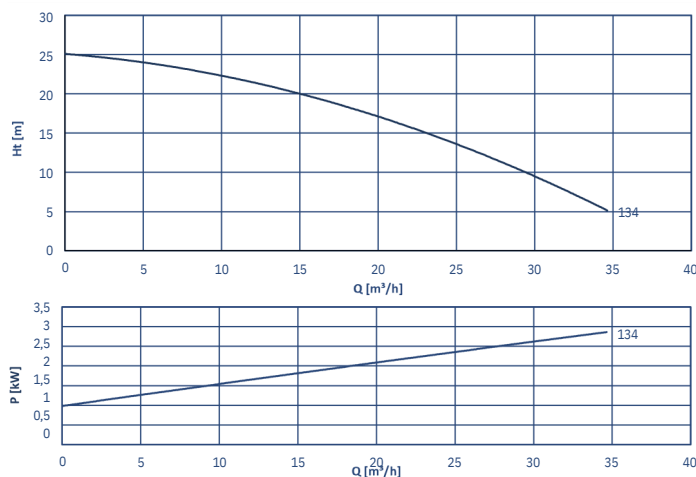
PVDF



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

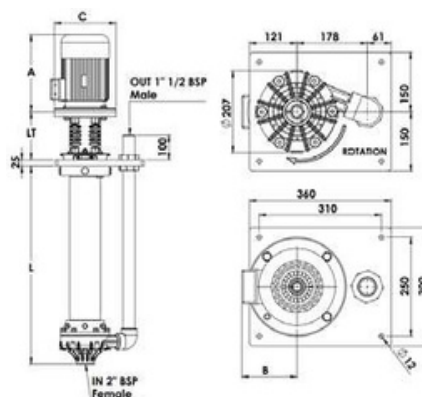


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52. This data may vary depending on construction materials and hydraulic conditions.

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
			800		90	
	K = PVDF	V = VITON	1000	2 = FLANGED	100	- = NO MOTOR
			1250		112	
			1750		132	
			2000			

TYPHOON SERIES

TY 45

PP

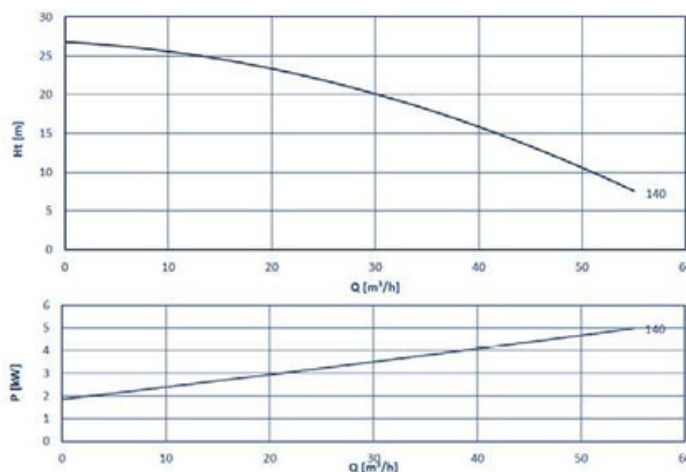
PVDF



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

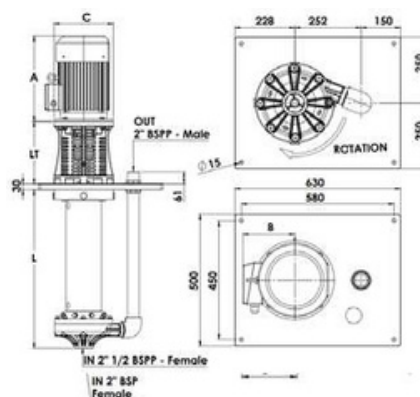


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52. This data may vary depending on construction materials and hydraulic conditions.

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 K = PVDF	D = EPDM V = VITON	800	1 = BSPP STD	100	IE = IEC FLANGE
			1000	2 = FLANGED	112	
			1250		132	- = NO MOTOR
			1500		160	
			1750			
			2000			

TYPHOON SERIES

TY 50

PP

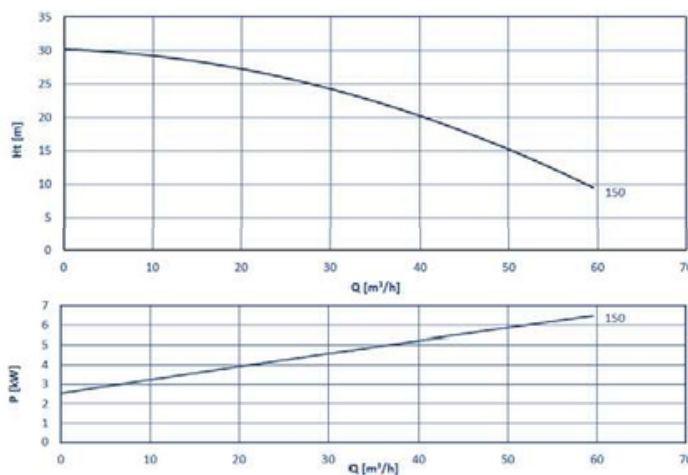
PVDF



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

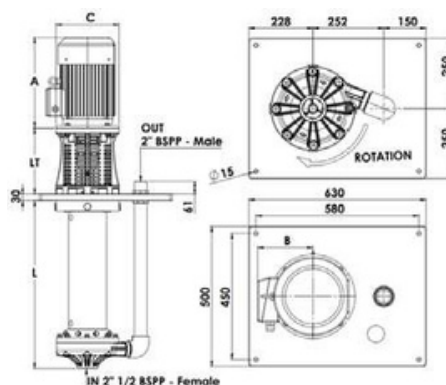


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52. This data may vary depending on construction materials and hydraulic conditions.

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
			1000	2 = FLANGED	112	
	K = PVDF	V = VITON	1250		132	- = NO MOTOR
			1500		160	
			1750			
			2000			

TYPHOON SERIES

TY 60

PP

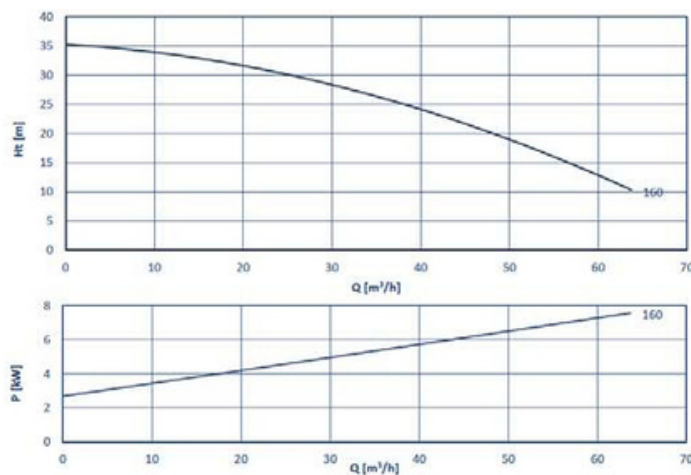
PVDF



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

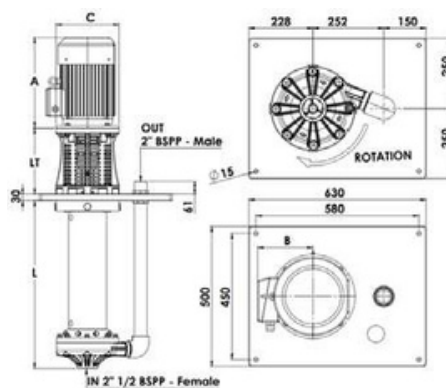


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52.
This data may vary depending on construction materials and hydraulic conditions.

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
			1000	2 = FLANGED	112	
	K = PVDF	V = VITON	1250		132	- = NO MOTOR
			1500		160	
			1750			
			2000			

TYPHOON SERIES

TY 70

PP

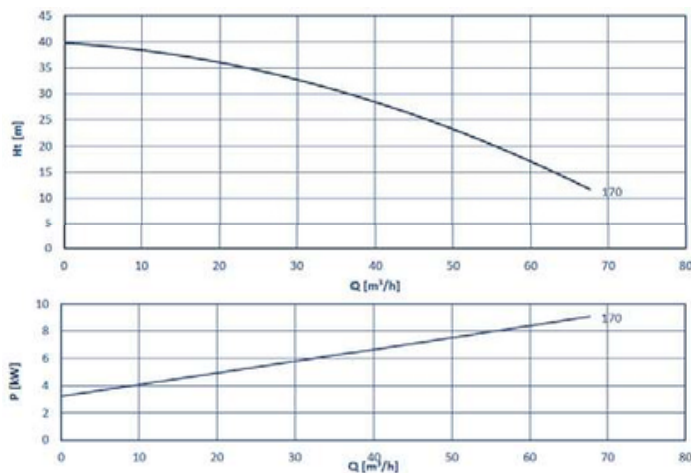
PVDF



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

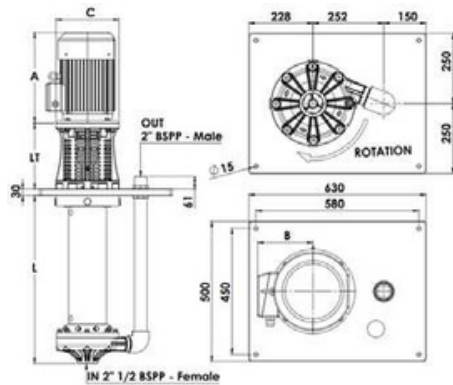


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52. This data may vary depending on construction materials and hydraulic conditions.

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
			1000	2 = FLANGED	112	
	K = PVDF	V = VITON	1250		132	- = NO MOTOR
			1500		160	
			1750			
			2000			

TYPHOON SERIES

TY 80

PP

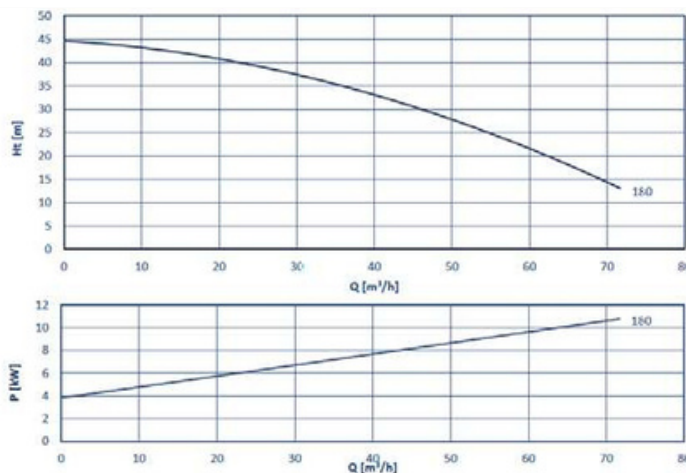
PVDF



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

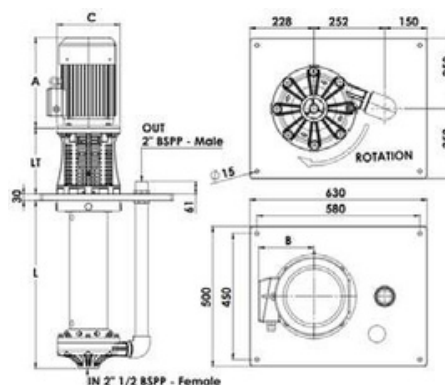


The curves and performance data refer to pumps with free discharge, water at 20°C, and a two-pole, 50 Hz motor. Four-pole curves are available on page 52. This data may vary depending on construction materials and hydraulic conditions.

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.

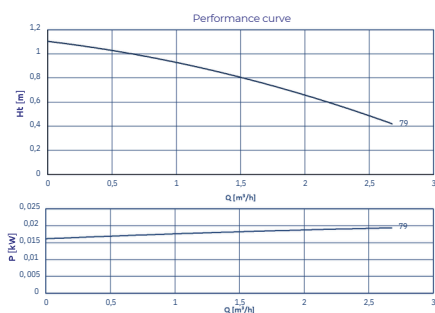


COMPOSITION

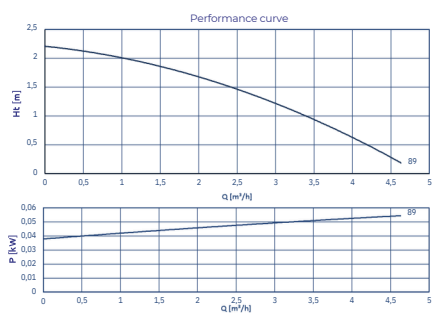
MODEL	CASING	O-RING	LENGTH mm	CONNECTIONS	SIZE	MOTOR
TY080	P = PP	D = EPDM	800	1 = BSPP STD	100	IE = IEC FLANGE
			1000	2 = FLANGED	112	
	K = PVDF	V = VITON	1250		132	- = NO MOTOR
			1500		160	
			1750			
			2000			

TYPHOON SERIES 4 POLES CURVES

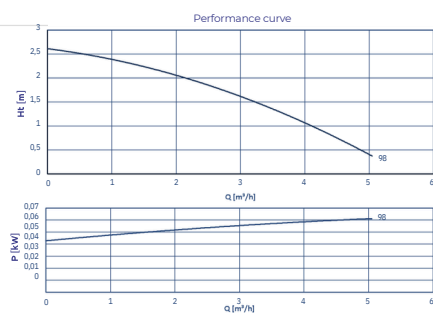
TY6



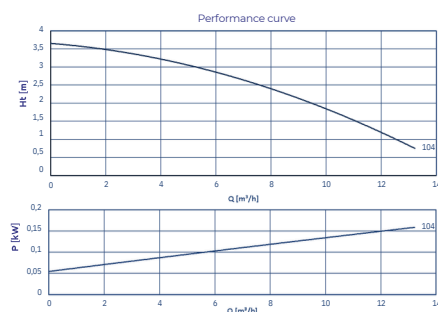
TY10



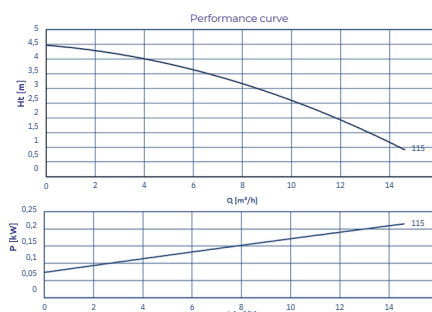
TY15



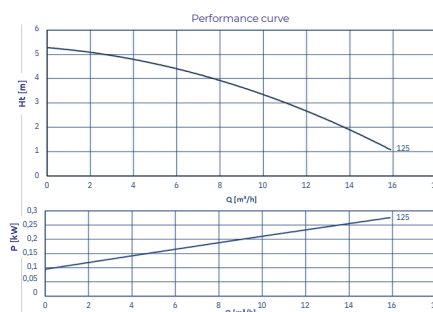
TY20



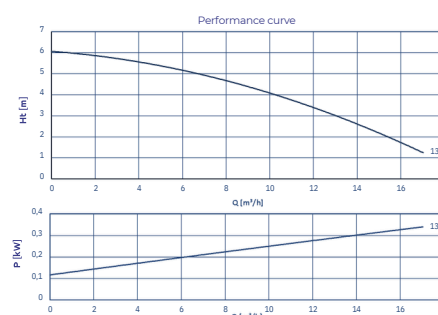
TY25



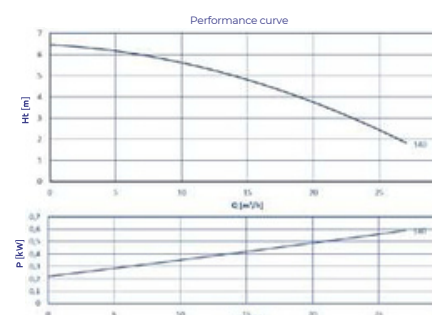
TY30



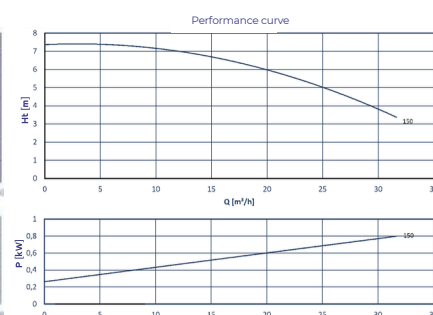
TY40



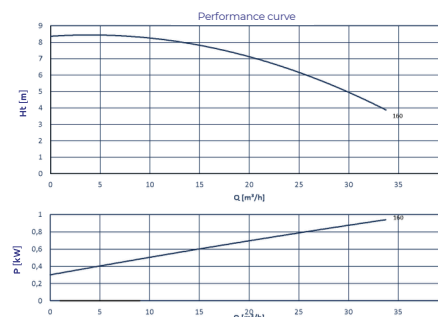
TY45



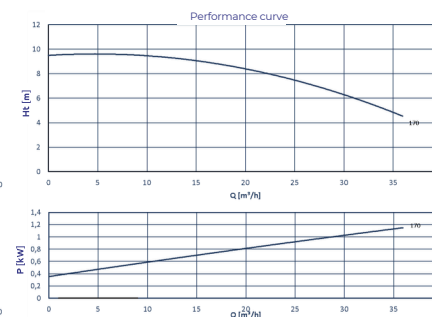
TY50



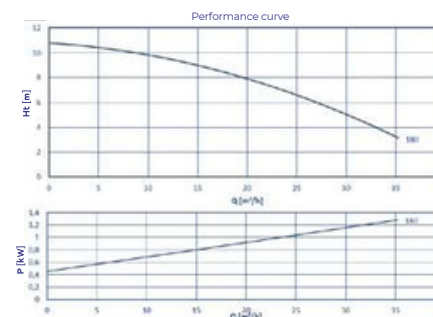
TY60



TY70

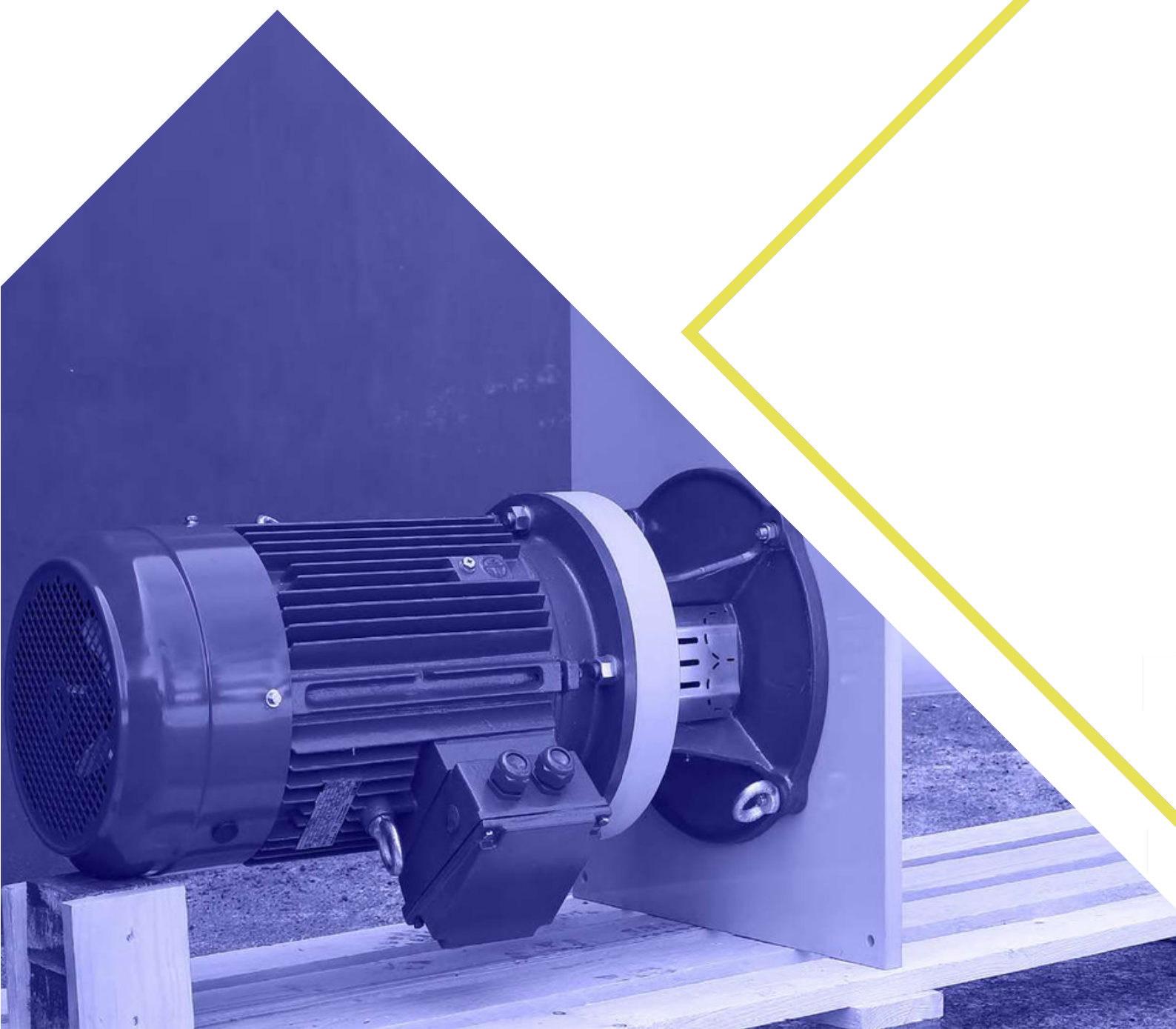


TY80



TYPHOON ZPV VERTICAL CENTRIFUGAL PUMPS

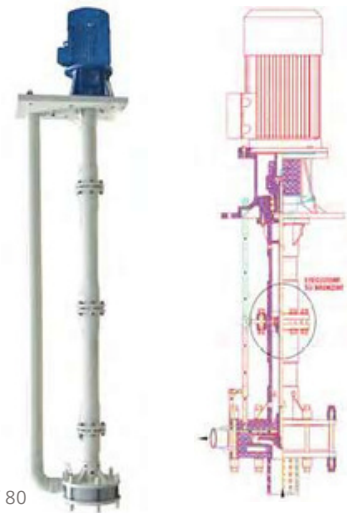
**Thermoplastic vertical centrifugal pumps for flow rates up to 200 m³/h
and up to 4 meters of column**



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.

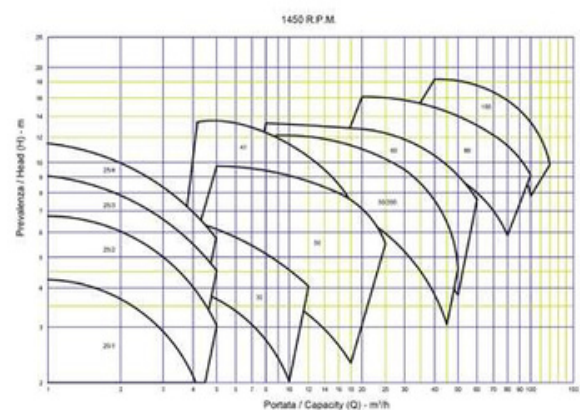


ZPV 80

TECHNICAL DATA

- High-quality materials and components
- Pump body: Polypropylene, PVDF® **fiberglass-reinforced Moplen**, or Rytan®
- 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

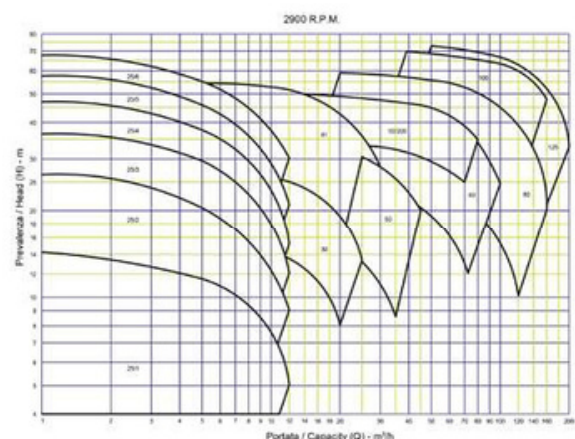
PERFORMANCE



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.