



5" Close-coupled Submersible Electric

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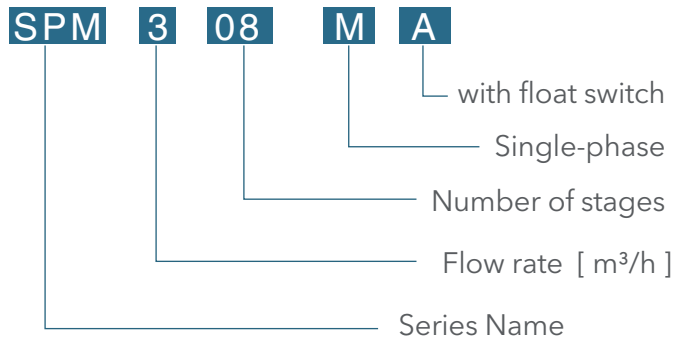
Made in Taiwan



Catalogue 60 Hz

# SPM SERIES 60HZ

## Model code



Close coupled multi-stage submersible pumps. The motor is protected by a double seal system with an oil chamber providing long lasting reliability. Motor cooling is assured by the pumping liquid.

AISI 304 stainless steel body and impellers ensure superior performance and maximum operational efficiency.

The SPM 5" is available with or without float switch.

It can also be installed in a horizontal position. The unit comes with 20 metres of cable and has a maximum permissible quantity of suspended sand 25 g/m<sup>3</sup>.

## Specifications

- Discharge size : NPT 1 1/4"
- Delivery : up to 17 m<sup>3</sup>/h
- Head : up to 94 m
- Power supply : Single phase , Three phase 60 Hz
- Power : from 0.55 kW up to 1.5 kW
- Temperature of pumped liquid : to 40 °C
- Maximum immersion depth : 20 m
- Maximum solids size : up to 2 mm
- Insulation class : F
- Protection : IP 68

## Control Box For Single Phase models

- Capacitor
- Overload Relay
- On/off Switch

## Application

- Water supply from collection tanks , reservoirs , 6" wells traditional wells ,fresh water courses , lakes etc.
- Automatic systems for garden use.
- Surface irrigation systems.
- Increasing pressure in general inside tank or well, to avoid suction problems and noise.
- Rainwater harvesting system.

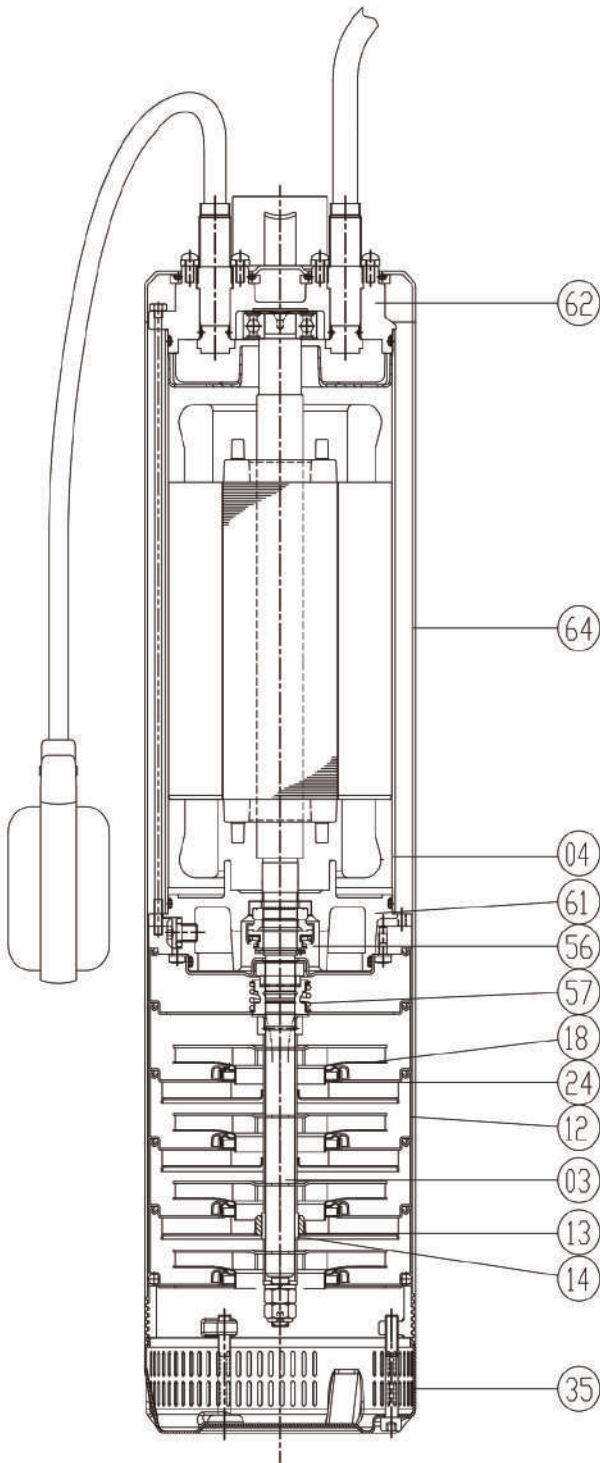
## Feature

- Innovative
- Fast and easy installation
- Double Mechanical Seal System
- Versions with or without float switch
- Material Stainless Steel - AISI 304
- Installation : horizontal or vertical
- Built in Thermal Protector for Single Phase Model.
- Plug and play (Single Phase Only)

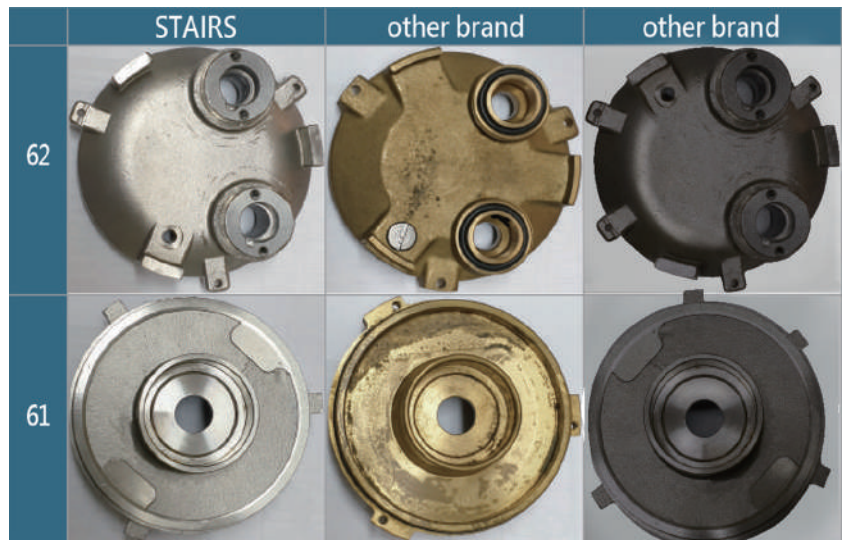
## Material options

- Pump housing: AISI 304 stainless steel
- Impeller: AISI 304 stainless steel
- Elastomers: NBR
- Motors: Different voltages

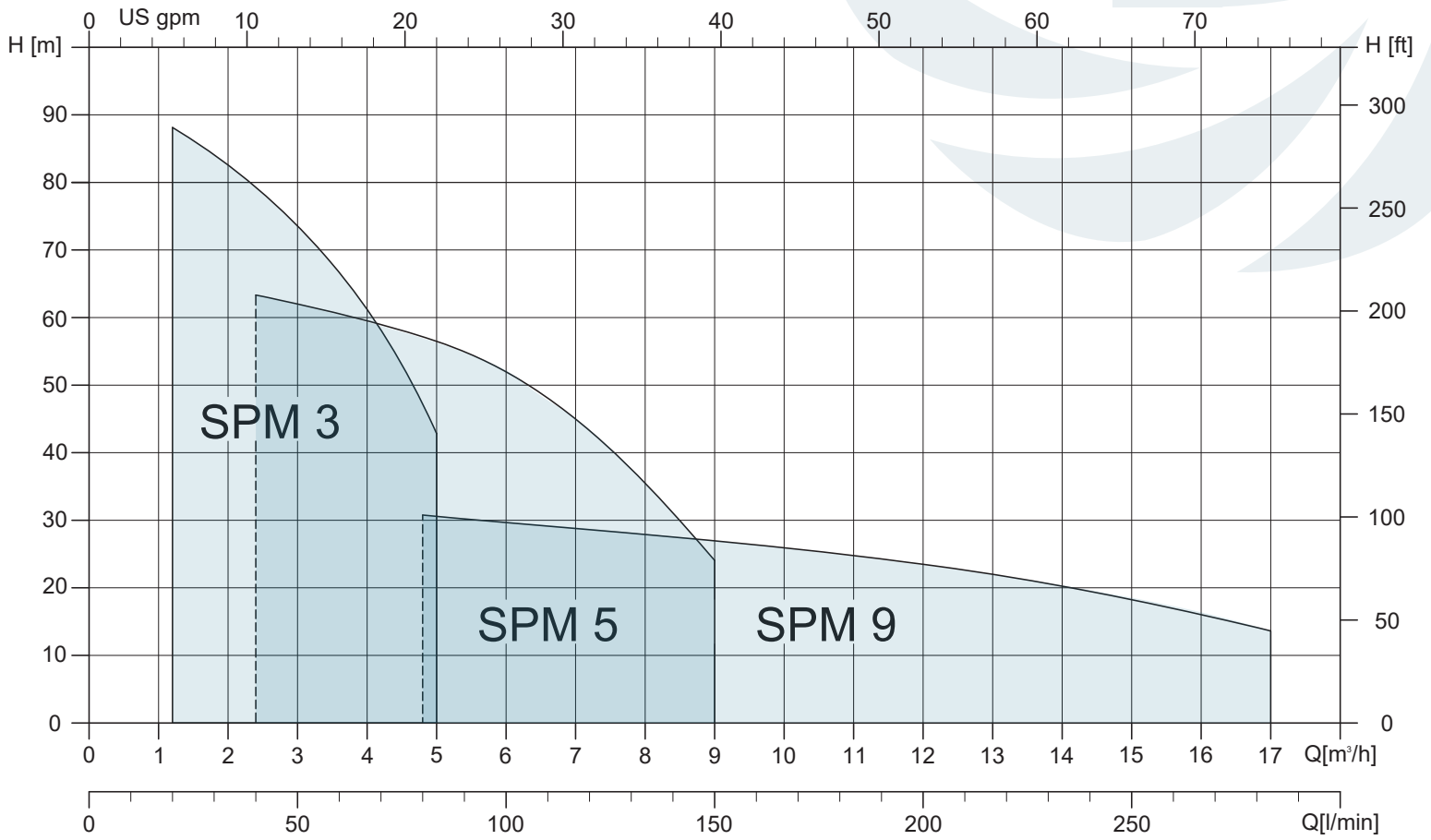
# Material Specification



Pos.	Componente	Material	ED/DIN	ANSI/ASTM
03	Pump shaft	Stainless steel	1.4057	AISI 301
04	Motor sleeve	Stainless steel	1.4301	AISI 304
12	Chamber complete	Stainless steel	1.4301	AISI 304
13	Bearing ring (stationary)	Silicon carbide		
14	Bearing ring (rotating)	Silicon carbide		
18	Impeller	Stainless steel	1.4301	AISI 304
24	Neck ring	PTFE		
35	Suction strainer	Stainless steel	1.4301	AISI 304
56	Mechanical seal	Carbon / Caramic / NBR		
57	Mechanical seal	Carbon / SIC / NBR		
61	Lower bearing bracket	Stainless steel	1.4301	AISI 304
62	Upper bearing bracket	Stainless steel	1.4301	AISI 304
64	External Sleeve	Stainless steel	1.4301	AISI 304

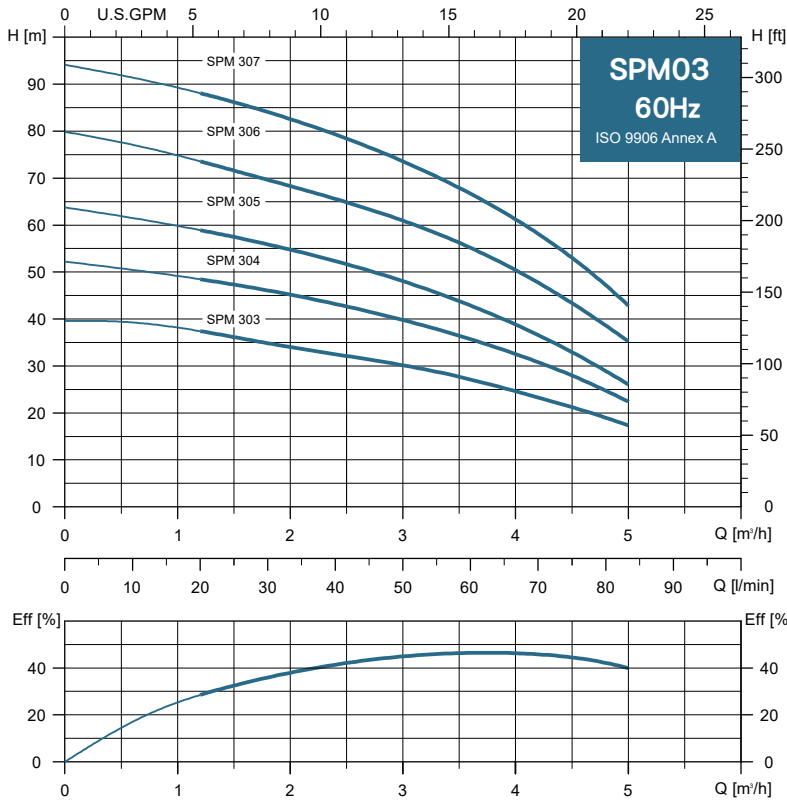


Performance range

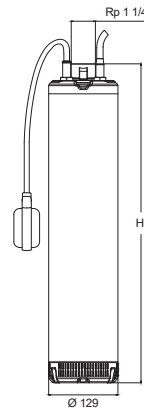


Performance Curve

# SPM 03



		Q = DELIVERY									
PUMP TYPE	m³/h l/min	0	1.2	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5
		0	20	25	33.3	41.7	50	58.3	66.7	75	83.3
SPM3-03	H (m)	40	37	36	34	32	30	28	25	21	17
SPM3-04		52	48	47	45	43	40	36	33	28	22
SPM3-05		64	59	57	55	52	48	44	39	33	26
SPM3-06		80	74	72	68	65	61	56	50	43	35
SPM3-07		94	88	86	83	78	74	68	61	53	43



Dimensions

PUMP TYPE	HP	H mm
SPM 3-03	0.75	409
SPM 3-04	1	447
SPM 3-05	1	465
SPM 3-06	1.5	501
SPM 3-07	2	559

Single phase Auto (With float switch,with control box)

PUMP TYPE	P1		P2		Absorbed current		CAPACITOR		Head		Flow		Cable (SJTW)		Solid Passage	Net Weight
	kW	HP	kW	220 - 240V	uF	V	Rated (m)	Max. (m)	Rated (m³/h)	Max. (m³/h)	m	AWG	mm	kg		
SPM 3-03MA	1.06	0.75	0.55	5.0 - 4.8	12	450	30	40	3	5	20	16 x 4C	2	11.5		
SPM 3-04MA	1.25	1	0.75	6.1 - 5.6	18	400	40	52	3	5	20	16 x 4C	2	13.0		
SPM 3-05MA	1.46	1	0.75	7.0 - 6.6	18	400	48	64	3	5	20	16 x 4C	2	13.3		
SPM 3-06MA	1.65	1.5	1.1	8.0 - 8.5	20	400	61	80	3	5	20	14 x 4C	2	15.1		
SPM 3-07MA	1.90	2	1.5	8.7 - 8.4	35	450	74	94	3	5	20	14 x 4C	2	18.2		

\*Maximum values within operating range.

Single phase Manual (With control box)

PUMP TYPE	P1		P2		Absorbed current		CAPACITOR		Head		Flow		Cable (SJTW)		Solid Passage	Net Weight
	kW	HP	kW	220 - 240V	uF	V	Rated (m)	Max. (m)	Rated (m³/h)	Max. (m³/h)	m	AWG	mm	kg		
SPM 3-03M	1.06	0.75	0.55	5.0 - 4.8	12	450	30	40	3	5	20	16 x 4C	2	11.0		
SPM 3-04M	1.25	1	0.75	6.1 - 5.6	18	400	40	52	3	5	20	16 x 4C	2	12.5		
SPM 3-05M	1.46	1	0.75	7.0 - 6.6	18	400	48	64	3	5	20	16 x 4C	2	12.8		
SPM 3-06M	1.65	1.5	1.1	8.0 - 8.5	20	400	61	80	3	5	20	14 x 4C	2	14.6		
SPM 3-07M	1.90	2	1.5	8.7 - 8.4	35	450	74	94	3	5	20	14 x 4C	2	17.7		

\*Maximum values within operating range.

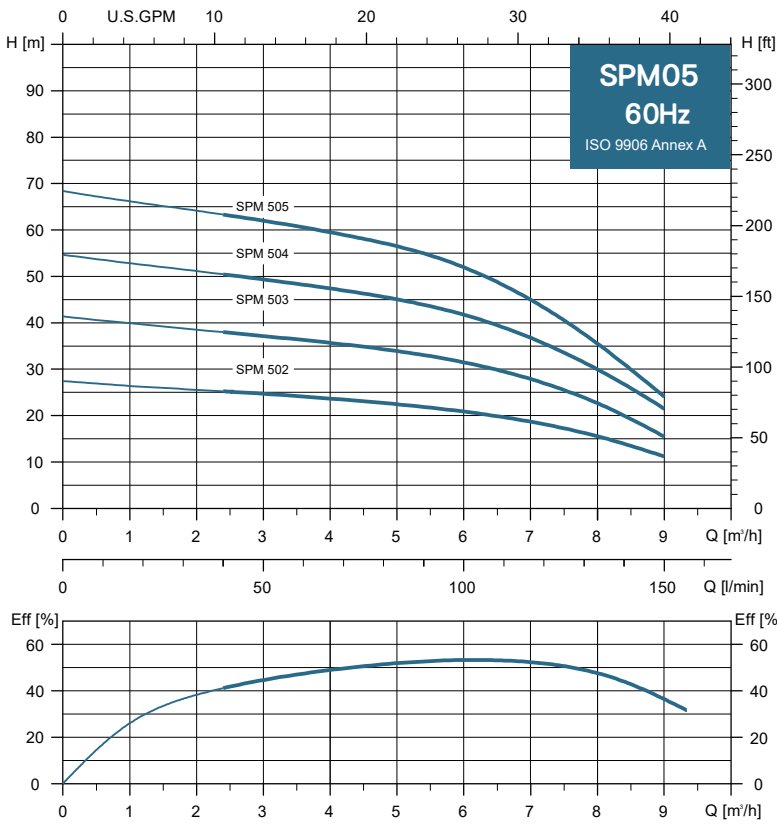
Three phase

PUMP TYPE	P1		P2		Absorbed current		Head		Flow		Cable (SJTW)		Solid Passage	Net Weight
	kW	HP	kW	220 - 255V	380 - 440V	Rated (m)	Max. (m)	Rated (m³/h)	Max. (m³/h)	m	mm²	mm	kg	
SPM 3-03	0.86	0.75	0.55	2.8 - 2.7	1.6 - 1.5	30	40	3	5	20	16 x 4C	2	10.9	
SPM 3-04	1.02	1	0.75	3.3 - 3.1	1.9 - 1.8	40	52	3	5	20	16 x 4C	2	12.4	
SPM 3-05	1.27	1	0.75	3.9 - 3.7	2.3 - 2.1	48	64	3	5	20	16 x 4C	2	12.7	
SPM 3-06	1.48	1.5	1.1	4.7 - 4.5	2.8 - 2.6	61	80	3	5	20	16 x 4C	2	14.5	
SPM 3-07	1.77	2	1.5	5.6 - 5.4	3.3 - 3.0	74	94	3	5	20	16 x 4C	2	17.6	

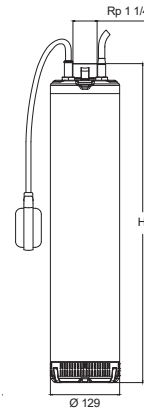
\*Maximum values within operating range.

Performance Curve

# SPM 05



		Q = DELIVERY									
PUMP TYPE	m³/h	0	2.4	3.0	3.5	4.0	5.0	6.0	7.0	8.0	9.0
	l/min	0	40	50	58.3	66.7	83.3	100	116.7	133.3	150
SPM5-02	H (m)	27	25	25	24	24	22	21	19	16	11
SPM5-03		41	38	37	36	36	34	31	28	23	15
SPM5-04		55	50	49	48	47	45	42	37	30	21
SPM5-05		68	63	62	61	60	56	52	45	36	24



## Dimensions

PUMP TYPE	HP	H mm
SPM 5-02	1	409
SPM 5-03	1.5	447
SPM 5-04	1.5	465
SPM 5-05	2	523

### Single phase Auto (With float switch,with control box)

PUMP TYPE	P1		P2		Absorbed current		CAPACITOR		Head		Flow		Cable (SJT/W)		Solid Passage	Net Weight
	kW	HP	kW	220 - 240V	uF	V	Rated (m)	Max. (m)	Rated (m³/h)	Max. (m³/h)	m	AWG	mm	kg		
SPM 5-02MA	1.21	1	0.75	5.9 - 5.5	18	400	22	27	5	9	20	16 x 4C	2	12.4		
SPM 5-03MA	1.58	1.5	1.1	7.5 - 8.3	20	400	34	41	5	9	20	14 x 4C	2	14		
SPM 5-04MA	1.96	1.5	1.1	9.4 - 9.7	20	400	45	55	5	9	20	14 x 4C	2	14.3		
SPM 5-05MA	2.47	2	1.5	11.5 - 10.8	35	450	56	68	5	9	20	14 x 4C	2	17.6		

\*Maximum values within operating range.

### Single phase Manual (With control box)

PUMP TYPE	P1		P2		Absorbed current		CAPACITOR		Head		Flow		Cable (SJT/W)		Solid Passage	Net Weight
	kW	HP	kW	220 - 240V	uF	V	Rated (m)	Max. (m)	Rated (m³/h)	Max. (m³/h)	m	AWG	mm	kg		
SPM 5-02M	1.21	1	0.75	5.9 - 5.5	18	400	22	27	5	9	20	16 x 4C	2	11.9		
SPM 5-03M	1.58	1.5	1.1	7.5 - 8.3	20	400	34	41	5	9	20	14 x 4C	2	13.5		
SPM 5-04M	1.96	1.5	1.1	9.4 - 9.7	20	400	45	55	5	9	20	14 x 4C	2	13.8		
SPM 5-05M	2.47	2	1.5	11.5 - 10.8	35	450	56	68	5	9	20	14 x 4C	2	17.1		

\*Maximum values within operating range.

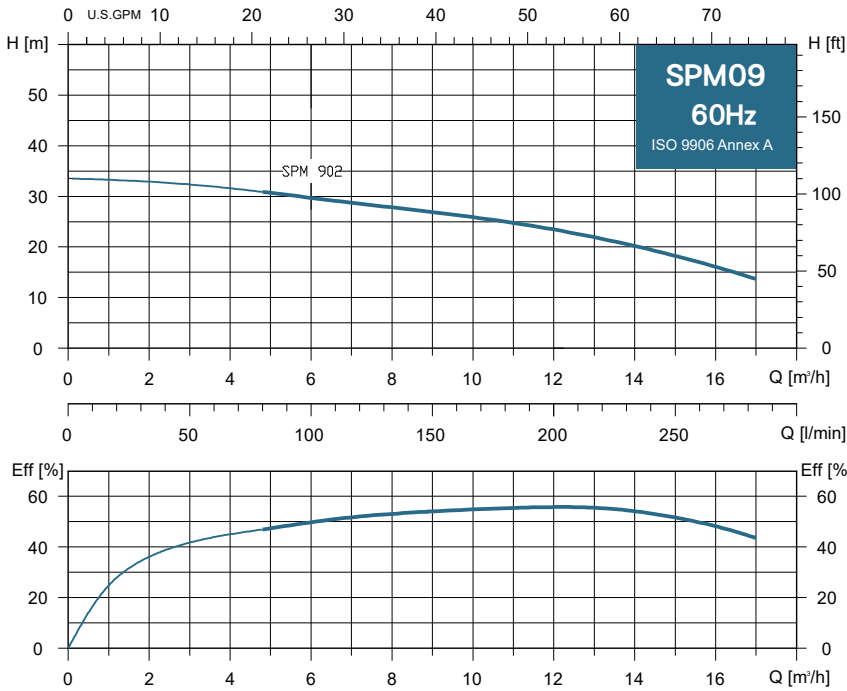
### Three phase

PUMP TYPE	P1		P2		Absorbed current		Head		Flow		Cable (SJT/W)		Solid Passage	Net Weight
	kW	HP	kW	220 - 255V	380 - 440V	Rated (m)	Max. (m)	Rated (m³/h)	Max. (m³/h)	m	mm²	mm	kg	
SPM 5-02	0.99	1	0.75	3.2 - 3.1	1.9 - 1.8	22	27	5	9	20	16 x 4C	2	11.8	
SPM 5-03	1.38	1.5	1.1	4.5 - 4.4	2.6 - 2.5	34	41	5	9	20	16 x 4C	2	13.4	
SPM 5-04	1.79	1.5	1.1	5.5 - 5.2	3.3 - 3.1	45	55	5	9	20	16 x 4C	2	13.7	
SPM 5-05	2.17	2	1.5	6.7 - 6.3	3.9 - 3.5	56	68	5	9	20	16 x 4C	2	17	

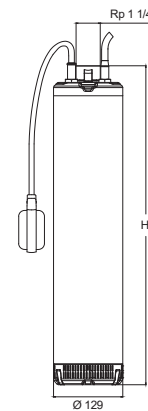
\*Maximum values within operating range.

Performance Curve

# SPM 09



		Q = DELIVERY									
PUMP TYPE	m³/h	0	4.8	6.5	8	10	11	12	13	14	15
	l/min	0	80	108.3	133.3	166.7	183.3	200	216.7	233.3	250
SPM9-02	H(m)	34	31	29	28	26	25	23	22	20	18



### Dimensions

PUMP TYPE	HP	H mm
SPM 9-02	2	488

#### Single phase Auto (With float switch,with control box)

PUMP TYPE	P1		P2		Absorbed current		CAPACITOR		Head		Flow		Cable (H07RN-F)		Solid Passage	Net Weight
	kW	HP	kW	HP	220 - 240V	uF	V	Rated (m)	Max. (m)	Rated (m³/h)	Max. (m³/h)	m	mm²	mm	kg	
SPM 9-02MA	1.98	2	1.5	1.5	9.4 - 8.7	35	450	27	34	9	17	20	16 x 4C	2	17	

\*Maximum values within operating range.

#### Single phase Manual (With control box)

PUMP TYPE	P1		P2		Absorbed current		CAPACITOR		Head		Flow		Cable (H07RN-F)		Solid Passage	Net Weight
	kW	HP	kW	HP	220 - 240V	uF	V	Rated (m)	Max. (m)	Rated (m³/h)	Max. (m³/h)	m	mm²	mm	kg	
SPM 9-02M	1.98	2	1.5	1.5	9.4 - 8.7	35	450	27	34	9	17	20	16 x 4C	2	16.5	

\*Maximum values within operating range.

#### Three phase

PUMP TYPE	P1		P2		Absorbed current		Head		Flow		Cable (H07RN-F)		Solid Passage	Net Weight
	kW	HP	kW	HP	220 - 240V	380 - 415V	Rated (m)	Max. (m)	Rated (m³/h)	Max. (m³/h)	m	mm²	mm	kg
SPM 9-02	1.84	2	1.5	1.5	5.8 - 5.5	3.4 - 3.1	27	34	9	17	20	16 x 4C	2	16.4

\*Maximum values within operating range.