Pumps with peripheral impeller



Pump body in **BRASS**

The PQ-BS electric pump is supplied fully painted





PERFORMANCE RANGE

- Flow rate up to **20 l/min** $(1.2 \text{ m}^3/\text{h})$
- Head up to 95 m

APPLICATION LIMITS

- Manometric suction lift up to 8 m
- Liquid temperature between -10 °C and +90 °C
- Ambient temperature between -10 °C and +40 °C
- Max. working pressure 10 bar
- Continuous service S1

CONSTRUCTION AND SAFETY STANDARDS

EN 60034-1 EN 60335-1 IEC 60335-1 IEC 60034-1 **CEI 61-150 CEI 2-3**

CERTIFICATIONS

Company with management system certified DNV ISO 9001: QUALITY







INSTALLATION AND USE

Suitable for use with clean water that does not contain abrasive particles and with liquids that are not chemically aggressive towards the materials from which the pump is made.

The hydraulic characteristics of these pump, coupled with their compactness, makes them suitable for use in industrial applications. Installation needs to be undertaken in well ventilated closed areas or anyway protected from bad weather.

PATENTS - TRADE MARKS - MODELS

- Motor bracket n° IT1243605
- Registered model

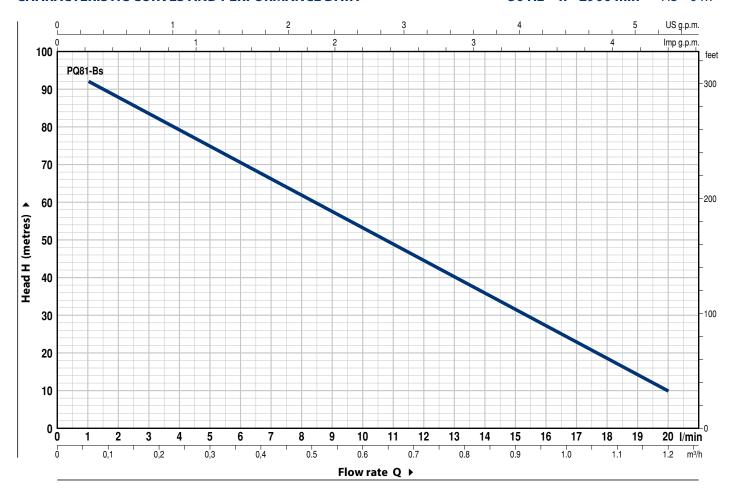
OPTIONS AVAILABLE ON REQUEST

- Special mechanical seal
- EN 10088-3 1.4401 (AISI 316) stainless steel pump shaft
- Other voltages or 60 Hz frequency
- IP X5 protection



CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹ HS= 0 m



MODEL		POWER (P2)			m³/h	0	0.06	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.2
Single-phase	Three-phase	kW	HP	•	Q //min	0	1	2	4	6	8	10	12	14	16	18	20
PQm 81-Bs	PQ 81-Bs	0.55	0.75	IE3	H metres	95	92	87.5	79	70.5	62	53	44.5	36	27.5	18.5	10

Q = Flow rate **H** = Total manometric head **HS** = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

▲ Three-phase motor efficiency class (IEC 60034-30-1)

PQ 81-Bs

POS. COMPONENT

CONSTRUCTION CHARACTERISTICS

PUMP BODY Brass complete with threaded ports in compliance with ISO 228/1

2 **MOTOR BRACKET** Aluminium with brass insert (patented), reduces the risk of impeller seizure

IMPELLER Brass with peripheral radial vanes 3

MOTOR SHAFT Stainless steel AISI 431

MECHANICAL SEAL Shaft Seal Materials

> Model Diameter Rotational ring Stationary ring Elastomer ST1-12 Ø 12 mm Silicon carbide Graphite **NBR**

BEARINGS 6201 ZZ / 6201 ZZ

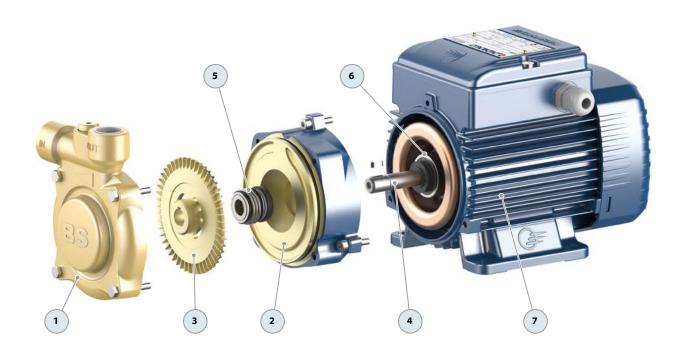
ELECTRIC MOTOR

PQm-Bs: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding. **PQ-Bs**: three-phase 230/400 V - 50 Hz.

■ The pump is fitted with a high performance motor in class IE3 (IEC 60034-30-1)

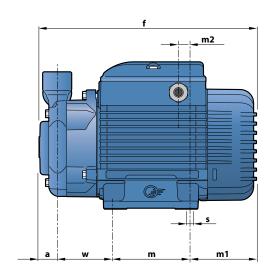
- Insulation: class F

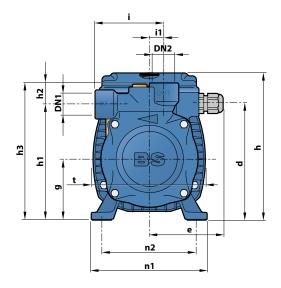
- Protection: IP X4





DIMENSIONS AND WEIGHT





MODEL PORTS		DIMENSIONS mm												kg										
Single-phase	Three-phase	DN1	DN2	a	d	e	f	g	h	h1	h2	h3	i	i1	m	m1	m2	n1	n2	t	w	s	1~	3~
PQm 81-Bs	PQ 81-Bs	1/2"	1/2"	18	119.5	76.5	223	63	153	119	22	141	71	15	80	69	8.5	120	100	117	55	7	7.0	7.0

ABSORPTION

MODEL	VOLTAGE
Single-phase	230 V
PQm 81-Bs	3.5 A

MODEL	VOLTAGE								
Three-phase	230 V	400 V							
PQ 81-Bs	2.4 A	1.4 A							

CAPACITORS

MODEL	CAPACITANCE
Single-phase	(230 V o 240 V)
PQm 81-Bs	14 μF - 450 VL