




PQm 81-Bs

Pumps with peripheral impeller

 Clean water, ink

 Industrial use

 Domestic use



PERFORMANCE RANGE

- Flow rate up to **4.75 US g.p.m.**
- Head up to **260 feet**

APPLICATION LIMITS

- Manometric suction lift up to **26.25 feet**
- Liquid temperature between **14 °F** and **194 °F**
- Ambient temperature between **14 °F** and **104 °F**
- Max. working pressure: **10 bar**
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3



CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY
ISO 14001: ENVIRONMENT

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 pumps, coupled with their compactness, makes them suitable for use in both domestic and industrial applications.

The pump should be installed in an enclosed environment or sheltered from inclement weather.

PATENTS - TRADE MARKS - MODELS

- Registered Trade Mark n. 0001520591 PQm 60[®]
- Motor bracket: patent n. IT1243605
- Shaft: patent n. 0000275945 (PQ60, PQ65)
- Registered EU Design n. 002146548

OPTIONS AVAILABLE ON REQUEST

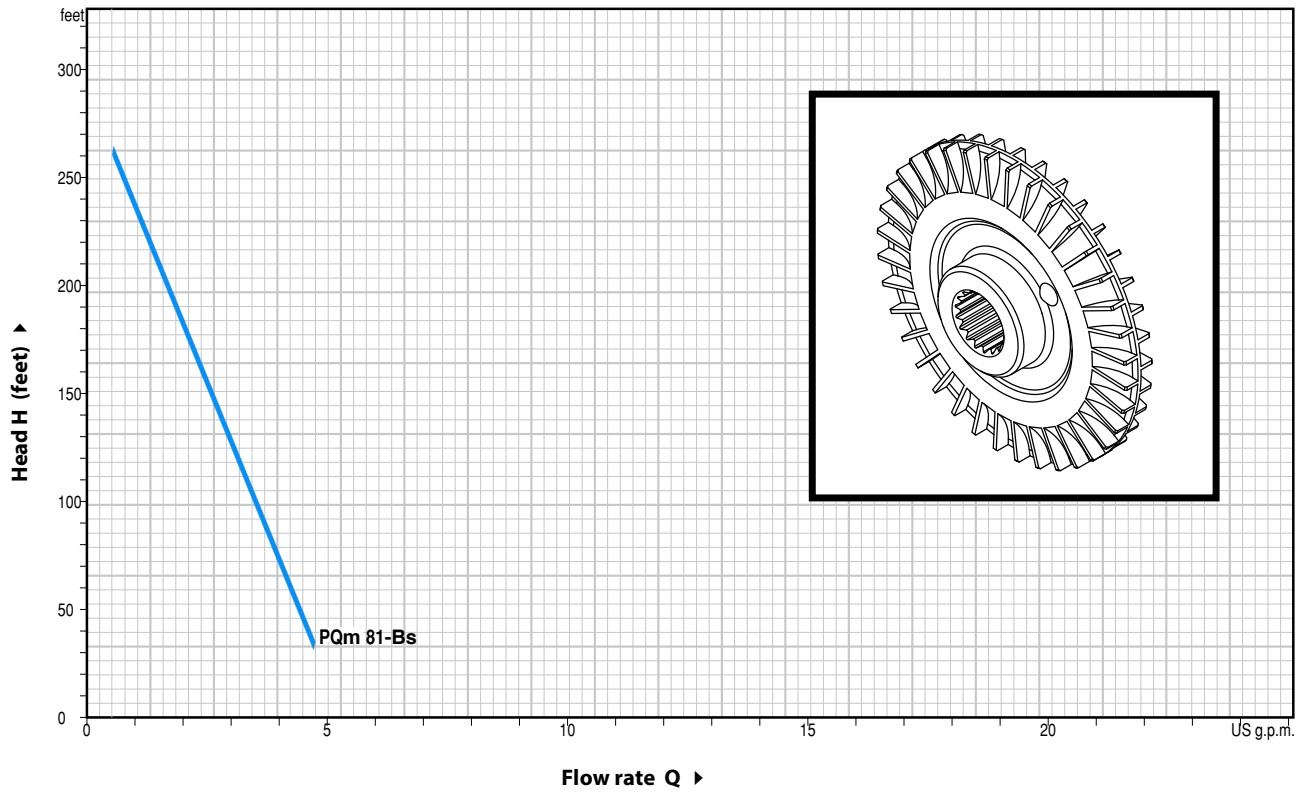
- Pump body with NPT ANSI B 1.20.1 threaded ports
- Special mechanical seal
- EN 10088-3 - 1.4401 (AISI 316) stainless steel pump shaft
- Other voltages
- IP X5 class protection

GUARANTEE

2 years subject to terms and conditions

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm HS= 0 m



MODEL		POWER (P ₂)		Q US g.p.m.						
Single-phase	Three-phase	kW	HP	0	1	2	3	4	5	
PQm 81-Bs	PQ 81-Bs	0.50	0.70	H feet	290	235	180	120	70	20

⇒ Bs= version with brass pump body

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

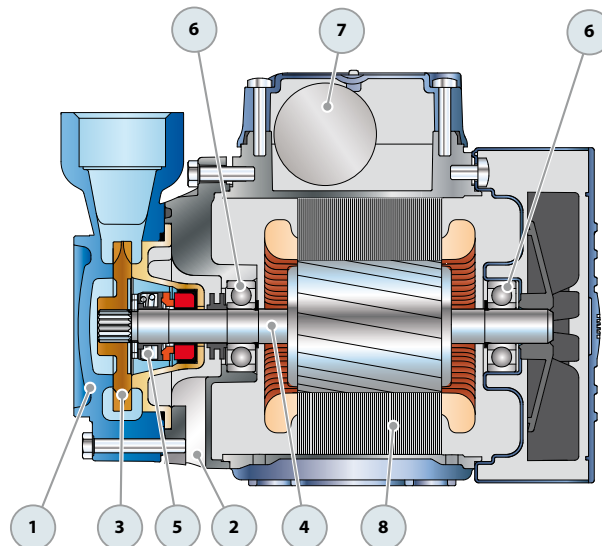
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

PQm 81-Bs

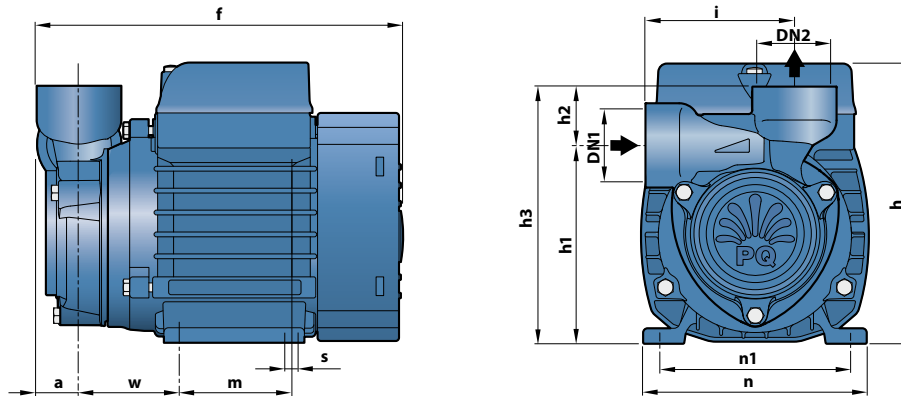
POS. COMPONENT

CONSTRUCTION CHARACTERISTICS

1	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					
3	IMPELLER	Brass with peripheral radial vanes					
4	MOTOR SHAFT	Stainless steel EN 10088-3 - 1.4104					
5	MECHANICAL SEAL	<i>Pump Model</i>	<i>Seal Model</i>	<i>Shaft Diameter</i>	<i>Stationary ring</i>	<i>Materials</i> <i>Rotational ring</i>	<i>Elastomer</i>
		PQm 81-Bs	ST1-12	Ø 12 mm	Silicon carbide	Graphite	NBR
6	BEARINGS	<i>Pump Model</i>	<i>Model</i>				
		PQm 81-Bs	6201 ZZ / 6201 ZZ				
7	CAPACITOR	<i>Pump Single-phase</i>	<i>Capacitance (230 V)</i>		<i>(115 V or 127 V)</i>		
		PQm 81-Bs	14 µF - 450 VL		25 µF - 250 VL		
8	ELECTRIC MOTOR	<p>PQm: single-phase 230 V - 60 Hz with thermal overload protector incorporated into the winding. PQ: three-phase 230/460 V - 60 Hz</p> <p>➔ The three-phase pumps are fitted with high performance motors up to P₂=1.1kW in class IE2 and from P₂=1.5kW in class IE3 (IEC 60034-30)</p> <ul style="list-style-type: none"> - Insulation: class F - Protection: IP X4 					



DIMENSIONS AND WEIGHT



MODEL		PORTS (in)		DIMENSIONS mm												lb	
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	h2	h3	i	m	n	n1	w	s	1~	3~
PQm 81-Bs	PQ 81-Bs	½"	½"	18	218	152	119	22	141	71	80	120	100	56	7	15.2	13.7

(*) h=199 mm for single phase versions at 115V or 127V

ABSORPTION

MODEL	VOLTAGE		
	230 V	115 V	127 V
Single-phase			
PQm 81-Bs	4.3 A	8.0 A	7.4 A

MODEL	VOLTAGE			
	230 V	380 V	230 V	460 V
Three-phase				
PQ 81-Bs	2.2 A	1.3 A	2.4 A	1.3 A

PALLETIZATION

MODEL		GROUPAGE	CONTAINER
Single-phase	Three-phase	n. pumps	n. pumps
PQm 81-Bs	PQ 81-Bs	200	240