

PQ 81-PPS

Peripheral pump with PPS pump body



INSTALLATION AND USE

Designed to transfer clean water free from abrasive particles and liquids that will not damage the pump's components.

Its hydraulic characteristics and compactness make it suitable for **industrial applications**.

PUMP BODY

The material used for the **pump body** is a **PPS-based** technopolymer reinforced with glass fibre, which gives it excellent mechanical properties.

APPLICATION LIMITS

- Manometric suction head up to **8 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature between **-10 °C** and **+40 °C**
- Maximum working pressure **10 bar**

AVAILABLE UPON REQUEST

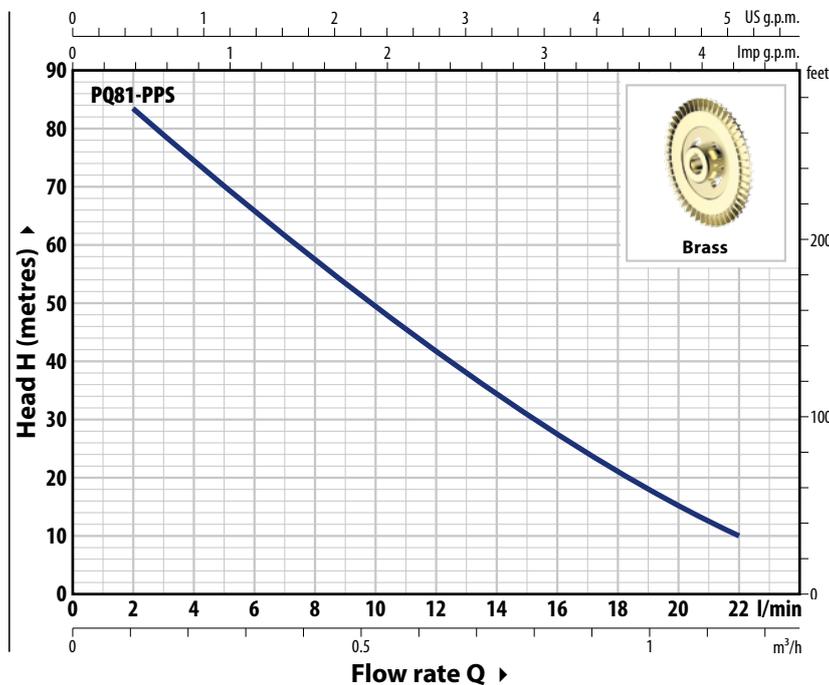
- ✘ Mechanical seal options available
- ✘ IP 55 protection rating
- ✘ Different voltage requirements 60 Hz frequency



✘ Pump for industrial use

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



ABSORPTION

TYPE	VOLTAGE	
Single-phase	230 V	
PQm 81-PPS	3.5 A	

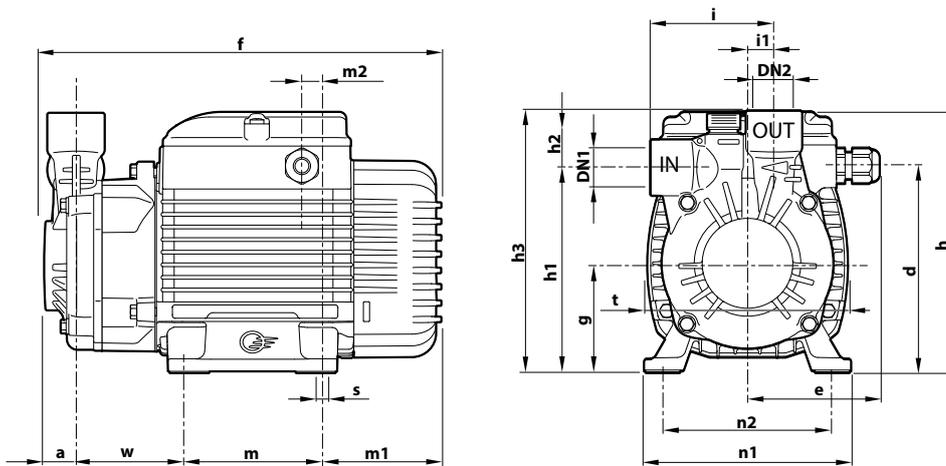
TYPE	VOLTAGE	
Three-phase	230 V - Δ	400 V - ƿ
PQ 81-PPS	2.4 A	1.4 A

TYPE		POWER (P ₂)		1~3~	Q	Flow rate												
Single-ph.	Three-ph.	kW	HP			m ³ /h	0	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.2	1.32
					l/min	0	2	4	6	8	10	12	14	16	18	20	22	
PQm 81-PPS	PQ 81-PPS	0.55	0.75	IE2 IE3	H metres	90	83.5	74.5	66.5	57.5	49	41	35	28	22	15	10	

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

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

DIMENSIONS (mm)



TYPE		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-PPS	PQ 81-PPS	½"	½"	18.5	119.5	76.5	223	63	163	119	33	152	71	15	80	69	8.5	120	100	117	61	7	6.5	6.5

CONSTRUCTION FEATURES

1 Pump body	PPS , with ISO 228/1 threaded brass inserted in ports	
2 Motor bracket	Aluminium with brass cover with front anti-locking shim function	
3 Impeller	Brass	
4 Mechanical seal	Type	Materials
	ST1-12	Silicon carbide / Graphite / NBR
5 Shaft	Stainless steel AISI 431	
6 Electric motor	PQm-PPS : single-phase 230 V - 50 Hz with winding integrated thermal motor protection. PQ-PPS : three-phase 230/40 V - 50 Hz ※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1) class IE2 for single-phase models class IE3 for three-phase models – Continuous running duty S1 – Insulation: class F – Protection rating: IP X4	

