

Clean water



Industrial use

**\*** Electric pumps for industrial use



### **PERFORMANCE RANGE**

- Flow rate up to **50 l/min** (3.0 m<sup>3</sup>/h)
- Head up to 100 m

#### **INSTALLATION AND USE**

Designed for pumping diesel/naphtha and clean water free from abrasive particles and non-corrosive liquids that do not harm the pump's components.

Their hydraulic characteristics, compactness, and small size make them ideal for industrial applications such as chillers, air conditioners, coolers, and boiler feed systems.

### **PUMP BODY**

The pump body is made of CW617N brass, which guarantees protection against rust and oxidation.

### **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**

- **X** Mechanical seal options available
- Protection rating IP 55 (only for PQ81-Bs and PQ65-Bs)
- Different voltage or frequency

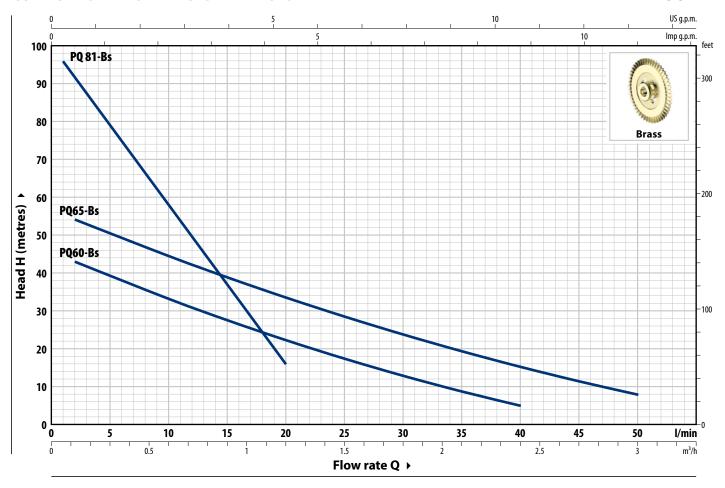
### **PATENTS - TRADE MARKS - MODELS**

- Motor bracket: Patent No. IT1243605
- Community Model No. 009068877-0001



## **CURVES AND PERFORMANCE DATA - HS=0 m**

# 60 Hz



TY	POWER (P2)			m³/h	0	0.06	0.12	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	
Single-ph.	Three-ph.	kW	HP	3~	Q I/min	0	1	2	5	10	15	20	25	30	35	40	45	50
PQm 60-Bs	PQ 60-Bs	0.37	0.50			45.5	_	43	39	33	27.5	22.3	17.4	12.9	8.8	5		
PQm 65-Bs	PQ 65-Bs	0.55	0.75	IE3	H metres	56.5	_	54	50	44.5	39	33.5	28.5	23.8	19.4	15.3	11.5	8
PQm 81-Bs	PQ 81-Bs	0.55	0.75			100	96	92	79	58	37	16						

 $\mathbf{Q} = \mathsf{Flow} \; \mathsf{rate} \; \; \mathbf{H} = \mathsf{Total} \; \mathsf{manometric} \; \mathsf{head} \; \; \mathbf{HS} = \mathsf{Suction} \; \mathsf{height}$ 

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

## **ABSORPTION**

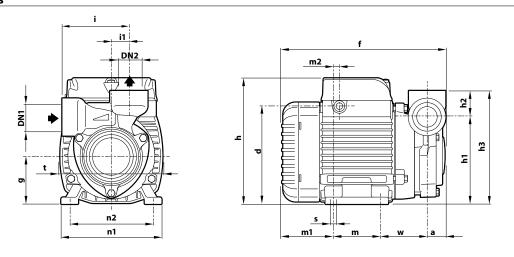
TYPE	VOLTAGE
Single-phase	220 V
PQm 60-Bs	2.8 A
PQm 65-Bs	5.1 A
PQm 81-Bs	4.3 A

TYPE	VOLTAGE							
Three-phase	220 V - Δ	380 V - 人						
PQ 60-Bs	2.0 A	1.15 A						
PQ 65-Bs	3.2 A	1.85 A						
PQ 81-Bs	2.8 A	1.6 A						

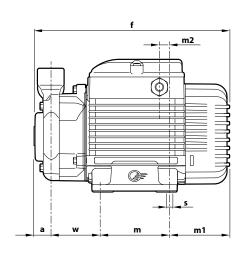


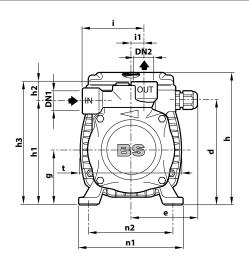
## **DIMENSIONS AND WEIGHT**

## PQ 60-Bs



## PQ 65-Bs - PQ 81-Bs





TY	/PE	PO	RTS								DIN	/ENS	SION	IS m	m								k	g	
Single-ph.	Three-ph.	DN1	DN2	a	d	e	f	g	h	h1	h2	h3	i	i1	m	m1	m2	n1	n2	t	w	s	1~	3~	
PQm 60-Bs	PQ 60-Bs	3/11	3/11	21.5	112	-	192	56	145.5	101	30	131		20	55	62	8	116		118	F2 F		5.0	5.0	
PQm 65-Bs	PQ 65-Bs	7/4	3/4" 3/4"	74	24		76.5	226		453	108		138	76	20			0.5	120	100	447	53.5	7	7.0	6.4
PQm 81-Bs	PQ 81-Bs	1/2"	1/2"	18	119.5	/6.5	223	63	153	119	9 22	141	71	15	5 80	69	8.5	120		117	55		6.9	6.9	

## **PALLET CAPACITY**

TY	/PE	NO. OF PUMPS
Single-ph.	Three-ph.	
PQm 60-Bs	PQ 60-Bs	238
PQm 65-Bs	PQ 65-Bs	216
PQm 81-Bs	PQ 81-Bs	160



### **CONSTRUCTION FEATURES**

**Electric motor** 

1	Pump body	Brass with ISO 228/1 threaded ports						
2	Motor bracket	Aluminium v	with brass cover with anti-lock front shim function (patented)					
3	Impeller	Brass, radial	peripheral vane type					
4	Mechanical seal	Type ST1-12	Materials Silicon carbide / Graphite / NBR					
5	Motor shaft	Stainless ste	el <b>AISI 431</b>					

- The three-phase pumps are fitted with high performance motors in class IE3 (IEC 60034-30-1)

**PQm-Bs**: single-phase 220 V - 60 Hz with winding integrated thermal motor protection

- Continuous running duty **S1** 

**PQ-Bs**: three-phase 220/380 V - 60 Hz

- Insulation: class F
- Protection rating: IPX4

