



Sewage



Domestic use



Civil use



### PERFORMANCE RANGE

- Flow rate up to **750 l/min** (45 m<sup>3</sup>/h)
- Head up to **15 m**

### INSTALLATION AND USE

The **MC** series features **TWO-CHANNEL** impellers, offering **robust** and reliable performance for demanding applications. Constructed from thick cast iron, these pumps are exceptionally strong and resistant to abrasion, ensuring continuous operation.

They are perfectly suited for draining **dirty water with suspended solids, and sewage**.

### INCLUDES

- ✳ Power cable length **10 m**
- ✳ Float switch (exclusive to single-phase models)

### APPLICATION LIMITS

- Depth below water level up to **10 m** (with an appropriately sized power cable)
- Liquid temperature up to **+40 °C**
- Capable of processing suspended solids up to **Ø 50 mm**
- **Minimum immersion for continuous service: 305 mm**

### AVAILABLE UPON REQUEST

- ✳ Different voltage requirements 60 Hz frequency

### PATENTS - TRADE MARKS - MODELS

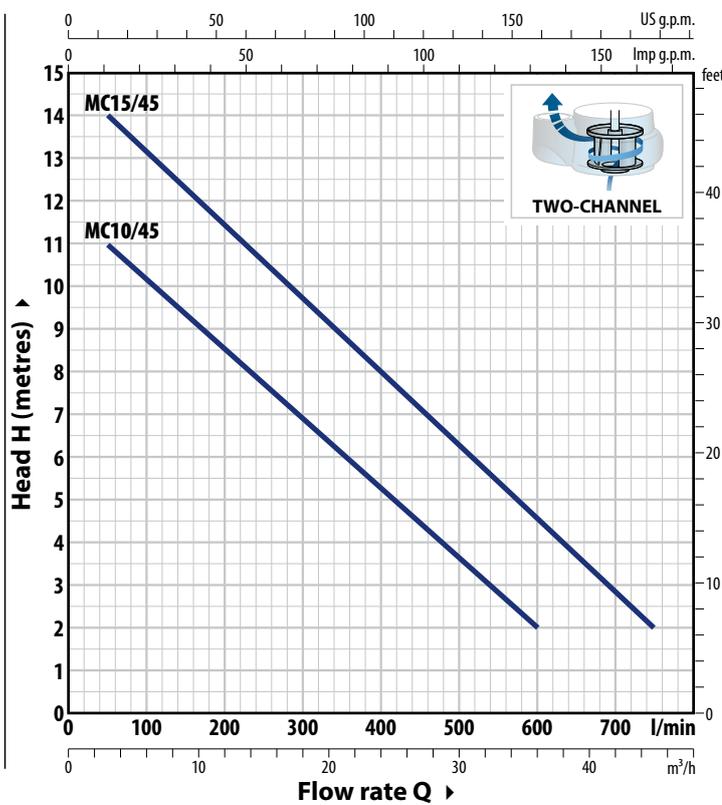
- Patent No. IT0001428923
- Registered Community Model No. 002501486-0003

### ABSORPTION

TYPE	VOLTAGE
Single-phase	<b>230 V</b>
<b>MCm 10/45</b>	5.0 A
<b>MCm 15/45</b>	8.2 A
TYPE	VOLTAGE
Three-phase	<b>400 V</b>
<b>MC 10/45</b>	2.1 A
<b>MC 15/45</b>	3.2 A

### CURVES AND PERFORMANCE DATA

50 Hz



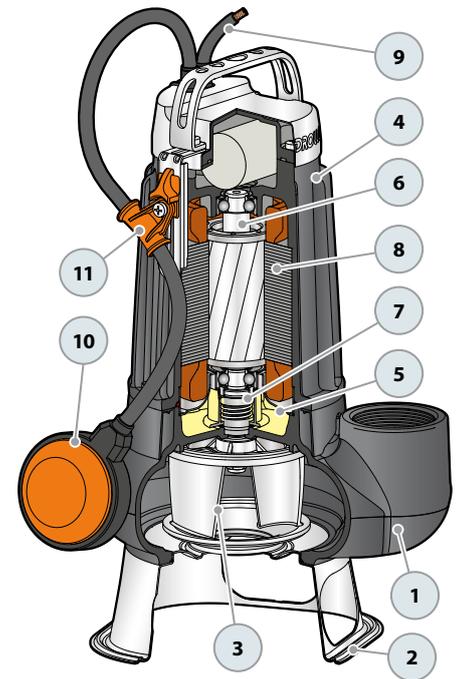
TYPE		POWER (P <sub>2</sub> )		Q	Flow rate													
Single-phase	Three-phase	kW	HP		m <sup>3</sup> /h	0	3	6	12	18	24	30	36	42	45			
<b>MCm 10/45</b>	<b>MC 10/45</b>	0.75	1	H metres	0	50	100	200	300	400	500	600	700	750				
<b>MCm 15/45</b>	<b>MC 15/45</b>	1.1	1.5		12	11	10	8.5	7	5	3.5	2						
					15	14	13	11.5	9.7	8	6.3	4.5	3	2				

Q = Flow rate H = Total manometric head

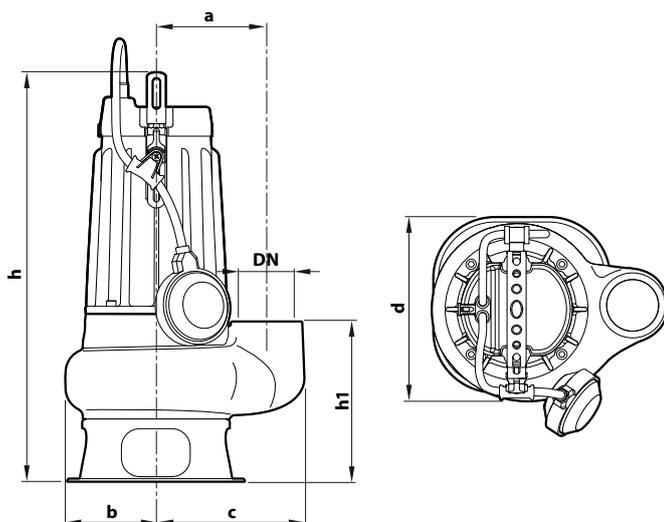
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

## MATERIALS AND COMPONENTS

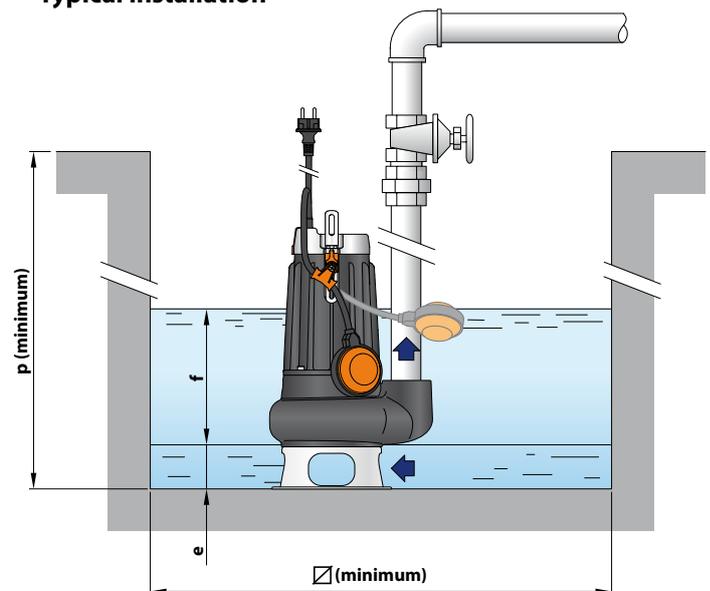
<b>1 Pump body</b>	Cast iron with cathaphoresis treatment for greater corrosion resistance with ISO 228/1 threaded port		
<b>2 Base</b>	Stainless steel <b>AISI 304</b>		
<b>3 Impeller</b>	Two-channel type in micro-cast <b>AISI 304</b> stainless steel		
<b>4 Motor holder</b>	Cast iron with cathaphoresis treatment		
<b>5 Motor cover</b>	Stainless steel <b>AISI 304</b>		
<b>6 Motor shaft</b>	Stainless steel <b>AISI 431</b>		
<b>7 Double mechanical seal with interposed oil chamber</b>			
Seal	Shaft	Location	Materials
<b>MG1-14D SIC</b>	Ø 14 mm	Motor side	SiC / Graphite / NBR
		Pump side	SiC / SiC / NBR
<b>8 Electric motor</b>			
<b>MCm</b> : single-phase 230 V - 50 Hz	with winding integrated thermal motor protection		
<b>MC</b> : three-phase 400 V - 50Hz	– Insulation: class F – Protection rating: IP X8		
<b>9 Power cord</b>			
	Type 'H07 RN-F' (Schuko plug exclusive to single-phase models)		
	✳ Standard length 10 metres		
<b>10 Float switch</b>	(exclusive to single-phase models)		
<b>11 Tilting device for the float cable</b>	(exclusive to single-phase models)		
	Patent No. IT0001428923		



## DIMENSIONS AND WEIGHT



### Typical installation



TYPE		PORT DN	Passage of solid bodies	DIMENSIONS mm										kg		PALLET CAPACITY
Single-ph.	Three-ph			a	b	c	d	h	h1	e	f	p	Ø	1~	3~	
<b>MCm 10/45</b>	<b>MC 10/45</b>	<b>2"</b>	<b>Ø 50 mm</b>	115	95	155	200	434	169	60	adjustable	500	500	19.2	17.7	45
<b>MCm 15/45</b>	<b>MC 15/45</b>			20.1	19.3	45										