

D Submersible pumps for drainage

-  Clear waters
-  Domestic use
-  Civil use



PERFORMANCE RANGE

- Flow rate up to **300 l/min** (18 m³/h)
- Head up to **26 m**

INSTALLATION AND USE

Designed to **drain clear** or slightly dirty water, **D-Series** pumps are ideal for **domestic and civil applications**, including basement and garage flood mitigation, swimming pool and tank drainage, and non-sewage wastewater disposal. Known for their reliability, these pumps excel in automated fixed installations.

INCLUDES

- ✳ Power cable length:
 - **5 m** for D8, D10, D20
 - **10 m** for D30
- ✳ Float switch (exclusive to single-phase models)

APPLICATION LIMITS

- Depth below water level up to **5 m** (with an appropriately sized power cable)
- Liquid temperature up to **+40 °C**
- Capable of processing suspended solids up to **Ø 10 mm**
- Bottom drainage level up to **17 mm**
- **Minimum immersion for continuous service:**
 - **210 mm** for D 8-10-20
 - **250 mm** for D 30

AVAILABLE UPON REQUEST

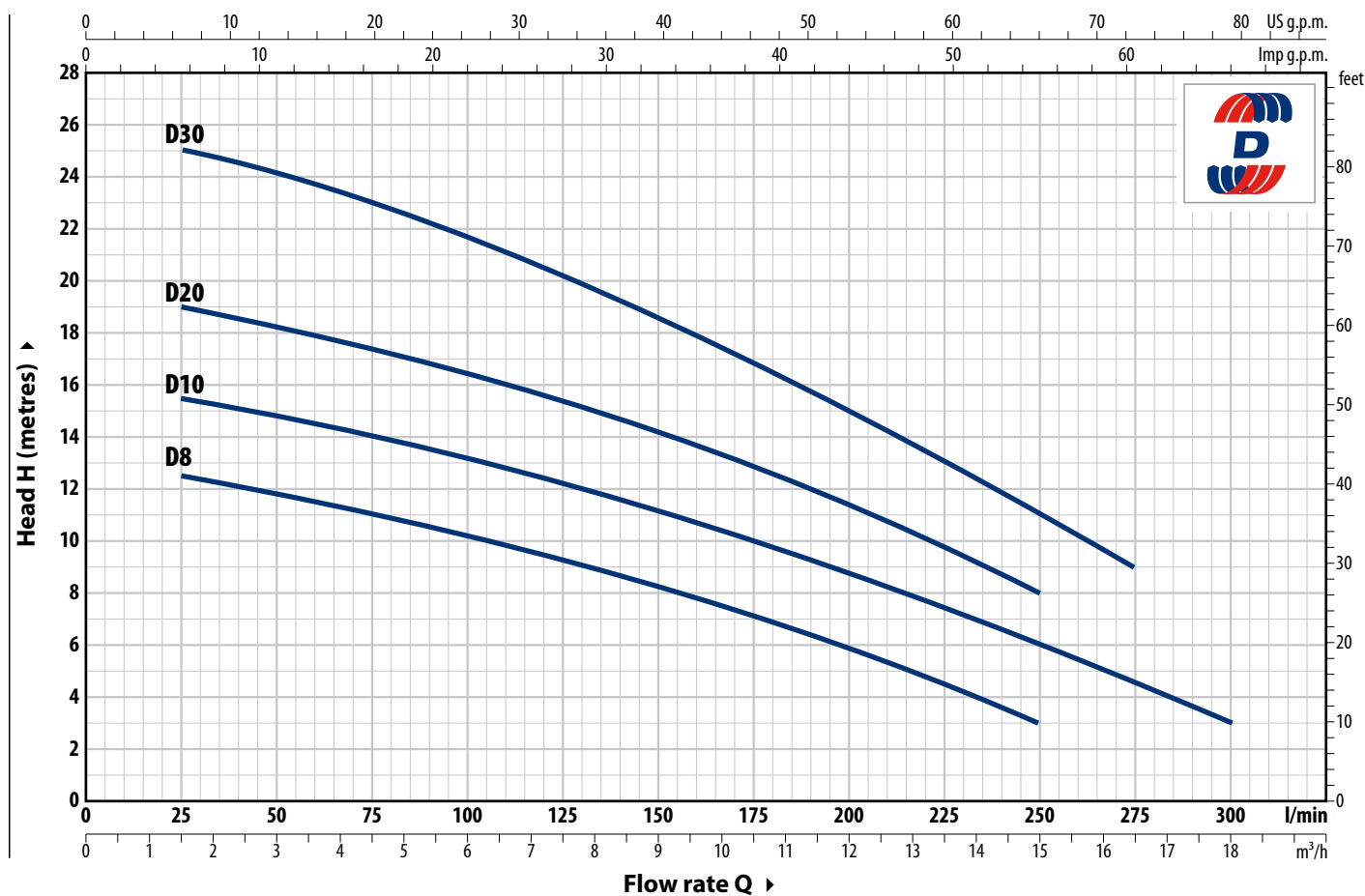
- ✳ Pumps with **10 m** power cable.
- ✳ Different voltage requirements 60 Hz frequency

PATENTS - TRADE MARKS - MODELS

- Patent No. EP2313658
- Patent No. IT0001428923

CURVES AND PERFORMANCE DATA

50 Hz



TYPE		POWER (P ₂)		Q	m³/h	0	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.2	15.0	16.5	18.0
Single-ph.	Three-ph.	kW	HP		l/min	0	25	50	75	100	125	150	175	200	220	250	275	300
Dm 8	D 8	0.55	0.75	H metres	13	12.5	12	11	10	9	8	7	6	4.7	3			
Dm 10	D 10	0.75	1		16	15.5	15	14	13.2	12.2	11.2	10	8.8	7.8	6	4.5	3	
Dm 20	D 20	0.75	1		20	19	18.5	17.5	16.5	15.5	14.3	13	11.5	10	8			
Dm 30	D 30	1.1	1.5		26	25	24.4	23.2	21.8	20.3	18.7	16.9	15	13.5	11.1	9		

Q = Flow rate H = Total manometric head

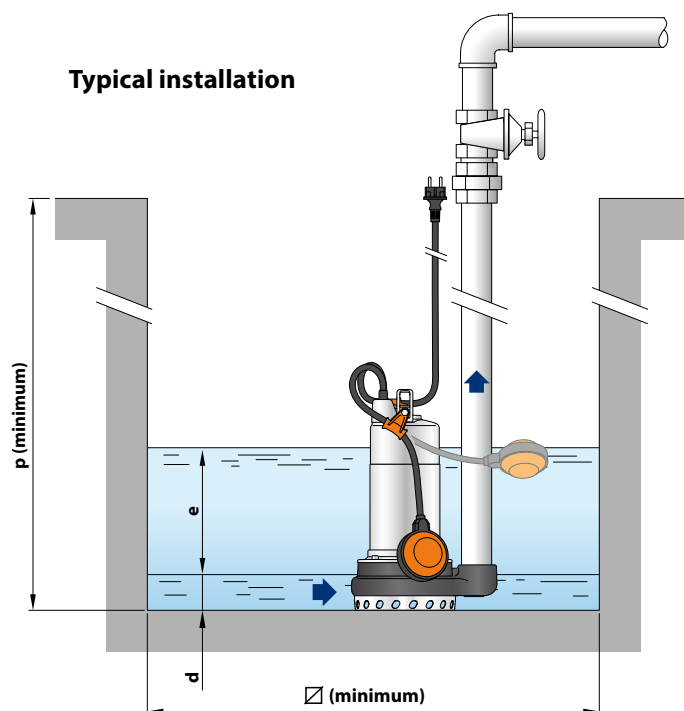
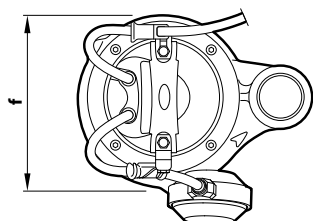
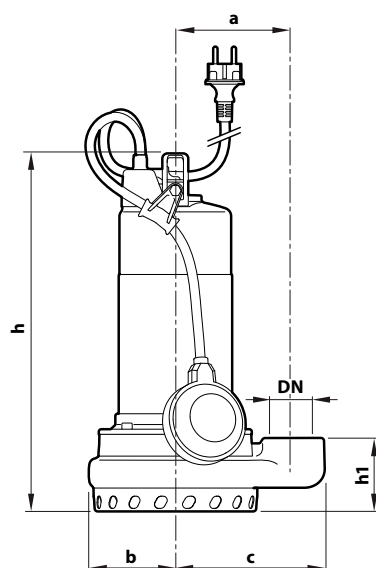
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE
Single-ph.	230 V
Dm 8	3.4 A
Dm 10	5.0 A
Dm 20	5.5 A
Dm 30	7.3 A

TYPE	VOLTAGE
Three-ph.	400 V
D 8	1.4 A
D 10	2.0 A
D 20	2.2 A
D 30	3.0 A

DIMENSIONS AND WEIGHT



TYPE		PORT DN	DIMENSIONS mm										kg	
Single-ph.	Three-ph.		a	b	c	f	h	h1	d	e	p	∅	1~	3~
Dm 8	D 8	1½"	115	85	147	177	338	73	17	adjustable	500	500	12.8	11.7
Dm 10	D 10						353						14.0	12.9
Dm 20	D 20						14.0						12.9	
Dm 30	D 30			93		195	390	84					17.4	16.0

PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-ph.	Three-ph.	
Dm 8	D 8	60
Dm 10	D 10	60
Dm 20	D 20	60
Dm 30	D 30	60

MATERIALS AND COMPONENTS

1 Pump body	Cast iron with cathaphoresis treatment, provided with ISO 228/1 threaded port			
2 Suction filter	Stainless steel AISI 304			
3 Suction cover	Stainless steel AISI 304			
4 Impeller	Open type in technopolymer			
5 Motor sleeve	Stainless steel AISI 304			
6 Motor cover	AISI 304 stainless steel for D 8-10-20 Cast iron with cathaphoresis treatment for D 30			
7 Motor shaft	Stainless steel AISI 431			
8 Double shaft seal with interposed oil chamber				
Water pump	Seal	Shaft	Location	Materials
D8, D10, D20	MG1-14D SIC	Ø 14 mm	Motor side	SiC / Graphite / NBR
			Pump side	SiC / SiC / NBR
D30	ST1-14 SIC Shaft seal	Ø 14 mm		Ceramic / SiC / NBR
		Ø 16 x Ø 24 x H 5 mm		
9 Capacitor (exclusive to single-phase models)				
10 Electric motor				
Dm: single-phase 230 V - 50 Hz with winding integrated thermal motor protection				
D: three-phase 400 V - 50 Hz				
– Insulation: class F				
– Protection rating: IP X8				
11 Power cord				
Type 'H07 RN-F (Schuko plug exclusive to single-phase models) ※ Standard length 5 metres (10 metres for D30)				
12 Float switch (exclusive to single-phase models)				
13 Tilting device for the float cable (exclusive to single-phase models)	Patent No. IT0001428923			
14 Power cable strain relief	Patent No. EP2313658			

A detailed cross-sectional diagram of a submersible pump assembly. The diagram shows the internal components, including the motor, impeller, and various seals. Numbered callouts (1-14) point to specific parts: 1. Pump body, 2. Suction filter, 3. Suction cover, 4. Impeller, 5. Motor sleeve, 6. Motor cover, 7. Motor shaft, 8. Double shaft seal with interposed oil chamber, 9. Capacitor, 10. Electric motor, 11. Power cord, 12. Float switch, 13. Tilting device for the float cable, and 14. Power cable strain relief. The diagram is a technical illustration showing the internal structure of the pump, with various components labeled with numbers corresponding to the parts list.

