

STAINLESS STEEL DRAINAGE SUBMERSIBLE PUMPS FOR DIRTY WATER ED - EDV



Series ED - EDV

Stainless steel drainage submersible pumps for dirty water

CONSTRUCTION

- Single-impeller submersible pumps in chrome-nickel stainless steel, with vertical delivery port.
- ED: with two-passage impeller.
- **EDV**: with free-flow (vortex) impeller.
- Double shaft seal with interposed oil chamber.

APPLICATIONS

- For clean and dirty water, also containing solids up to 35 mm grain size.
- The EDV free-flow impeller construction is particularly suitable for liquids with a high solid content or with filamentous particles.
- This construction (with smooth surfaces in rolled-stainless steel and easy access for cleaning) is also suitable for certain uses in the food industry.

OPERATING CONDITIONS

- Liquid temperature up to 35°C.
- Minimum immersion depth: 250 mm.
- Maximum immersion depth: 5 m.
- Continuous duty (with submerged motor)

MOTOR

2-pole induction i	motor, 50 Hz (n ≈ 2900 rpm).
EDT, EDVT:	three-phase 230 V ± 10%;
I	three-phase 400 V ± 10%;.
	Cable: H07Rn-F, 4G1 mm2, length 10 m, without plug; 5 m for ED5T/EDV5T.
ED, EDV:	single-phase 230 V ± 10%,
I	with float switch and thermal protector.
I	Incorporated capacitor.
I	Cable: H07Rn-F, 3G1 mm2, length 10 m, with plug Cel-UneL 47166; 5 m for ED5/EDV5.
Insulation class F	

- protection Ip X8 (for continuous immersion)
- triple impregnation humidity-proof dry winding
- Constructed in accordance with: EN 60034-1; EN 60335-1, EN 60335-2-41

OTHER FEATURES ON REQUEST

- Other voltages
- Frequency 60 Hz
- Other mechanical seal.
- Cable length 20 m.
- Motor suitable for operation with frequency converter.
- three-phase pumps with incorporated float switch.

PUMP IDENTIFICATION CODE





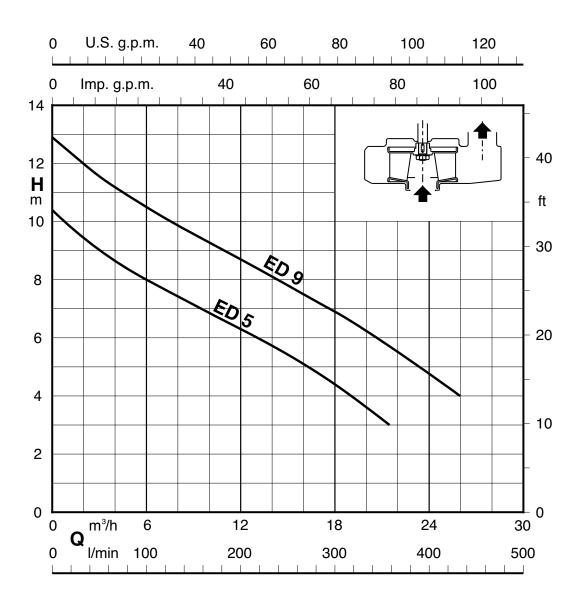
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ED - EDV





Performance curves n ≈ 2900 rpm

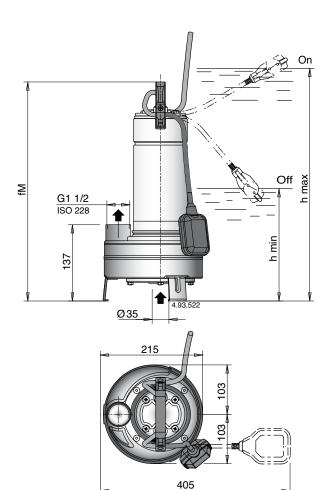


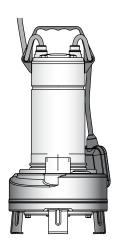
Materials

COMPONENT	MATERIAL
Pump casing	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Casing cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Impeller	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Motor jacket	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Jacket cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Handle	Polypropylene (with frame in AISI 304)
Sharft	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Mechanical seal upper	Ceramic alumina/Carbon/nBR
Mechanical seal lower	Ceramic alumina/Carbon/nBR
Seal lubrication oil	Oil for food/pharmaceutical machinery



Dimensions and weights





TYPE		mm	kg				
ITPE	fM	h max	h min	ED(T)	ED		
ED5(T)	433	508	248	10,3	12		
ED9(T)	458	533	273	12,5	14		

Performances n ≈ 2900 rpm

	0001/	4001/		0001/			_	_						Q = DE	LIVERY				
		- 400V		230V	Capa	citor	P₁	P ₂		l/min 0	50	100	150	200	250	300	350	400	433
3~			1~							m³/h 0	3	6	9	12	15	18	21	24	26
	Α	Α		Α	μf	Vc	kW	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER									
ED5T	2,8	1,6	ED5	4,6	16	450	1	0,55	0,75	10,4	9	8	7,1	6,3	5,4	4,4	3,2	-	-
ED9T	4	2,3	ED9	6,6	25	450	1,45	0,9	1,2	12,9	11,6	10,5	9,5	8,7	7,8	6,9	5,9	4,7	4

P₁ Max. power input.

P₂ Rated motor power output.

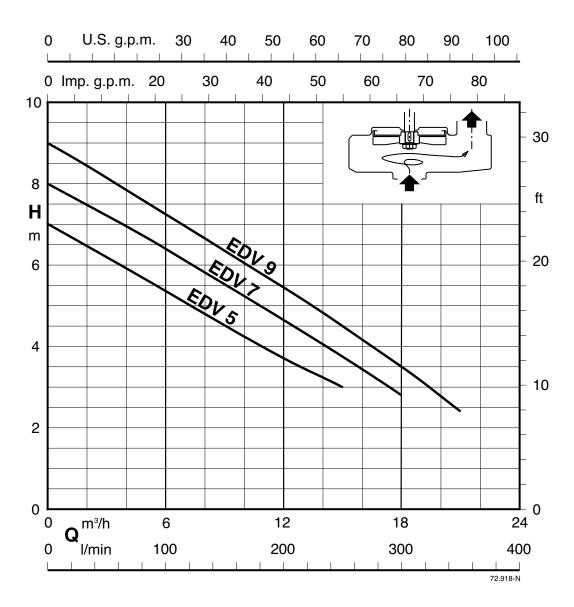
Density ρ = 1000 kg/m3.

Kinematic viscosity v = max 20 mm2/sec.





Performance curves n ≈ 2900 rpm



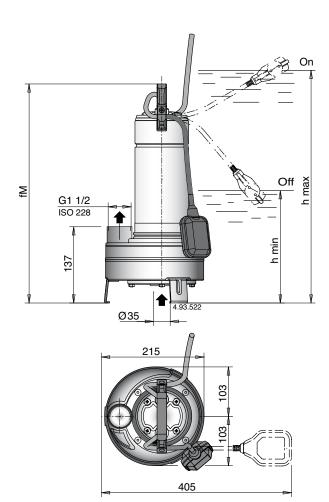
Materials

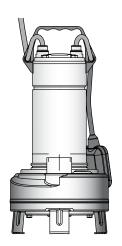
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Seal lubrication oil	Oil for food/pharmaceutical machinery





Dimensions and weights





TYPE		mm	kg				
	fM	h max	h min	EDV(T)	EDV		
EDV5(T)	433	508	248	10,3	12		
EDV7(T)	458	533	273	12,5	14		
EDV9(T)	458	533	273	12,5	14		

Performances n ≈ 2900 rpm

	0001/	4001/		0001/	0	!	_							Q = DEI	LIVERY				
230V - 400\		- 400 V		230V	Capacitor		P₁	P ₂		I/min 0	50	100	150	200	250	300	350	400	433
3~			1~							m³/h 0	3	6	9	12	15	18	21	24	26
	Α	Α		Α	μf	Vc	kW	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER									
EDV5T	2,8	1,6	EDV5	4,6	16	450	1	0,55	0,75	7	6,2	5,4	4,6	3,7	3	-	-	-	-
EDV7T	3,8	2,2	EDV7	5,4	25	450	1,1	0,75	1	8	7,2	6,4	5,5	4,6	3,7	2,8	-	-	-
EDV9T	4	2,3	EDV9	6	25	450	1,3	0,9	1,2	9	8,1	7,2	6,3	5,4	4,5	3,5	2,4	-	-

P₁ Max. power input.

P₂ Rated motor power output.

Density $\rho = 1000 \text{ kg/m3}$.

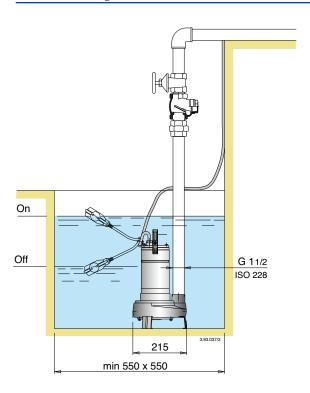
Kinematic viscosity v = max 20 mm2/sec.

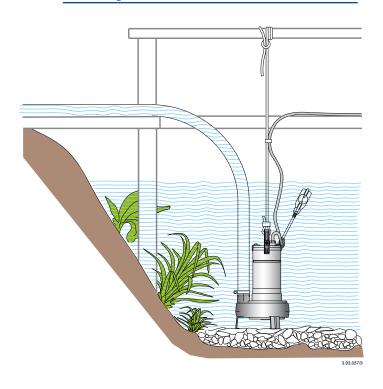


Installation examples

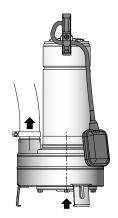
Stationary installation

Transportable installation

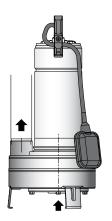




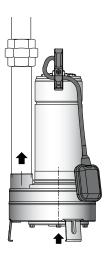
Connection examples



pump with hosetail seat and clamp (locally available)



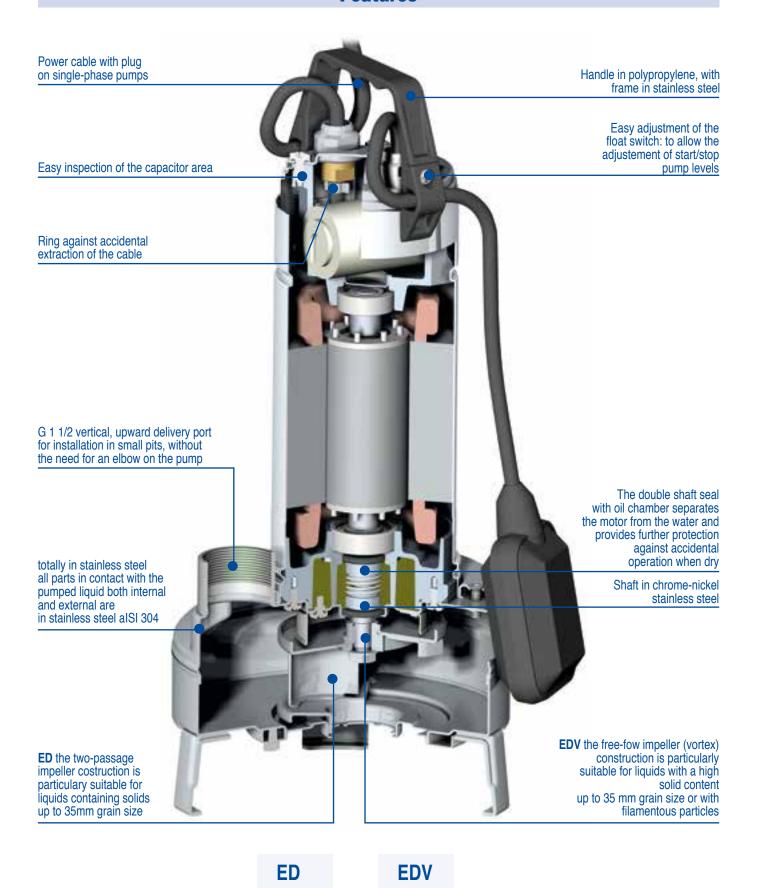
pump with pipe screwed into the delivery port



pump with pipe and union (locally available)



Features





Notes

