



## APPLICATIONS

Pumping of DEF (Diesel Exhaust Fluid) commonly known as AdBlue® or as AUS32®. It is a liquid solution composed of 32,5% of technical urea in distilled or deionized water, non-toxic and non-flammable.

## FEATURES

- Multistage monobloc electric submersible pumps **with the hydraulic part located under the electric motor cooled by the pumped liquid.**
- External pump case, motor case and shaft in stainless steel.
- Impellers and diffusers in stainless steel in the M45 group, in special technopolymer in the LAB group.
- **Viton seals.**
- Threaded delivery port 1" 1/4 from kW 0,75 to Kw 1,1 (LAB group).
- Threaded delivery port 1" 1/2 from kW 1,5 to Kw 3 (M45 group).
- Flanged delivery port PN 25 DN 32 UNI 6083/67 from kW 4 to kW 5,5.
- Electric pumps produced with 5 m of ID 4G1,5 electric cable included.

## MOTOR

- 2 poles asynchronous motor, 50 Hz, 2850 rpm.
- Class F insulation.
- IP68 protection.
- Working voltage: single-phase 230 V, three-phase 400 V.
- Electric motor cooled by white mineral oil.

## OPERATING CONDITIONS

- The pump can not operate in dry conditions.
- Pump body submerged for half of its height.
- Temperature of pumped liquid: min 0 °C – max 45 °C.
- Frost free location.
- Vertical operating position (on request special execution for oblique operating position).
- Maximum immersion depth: 20 m.
- Maximum number of starts per hour: 20.

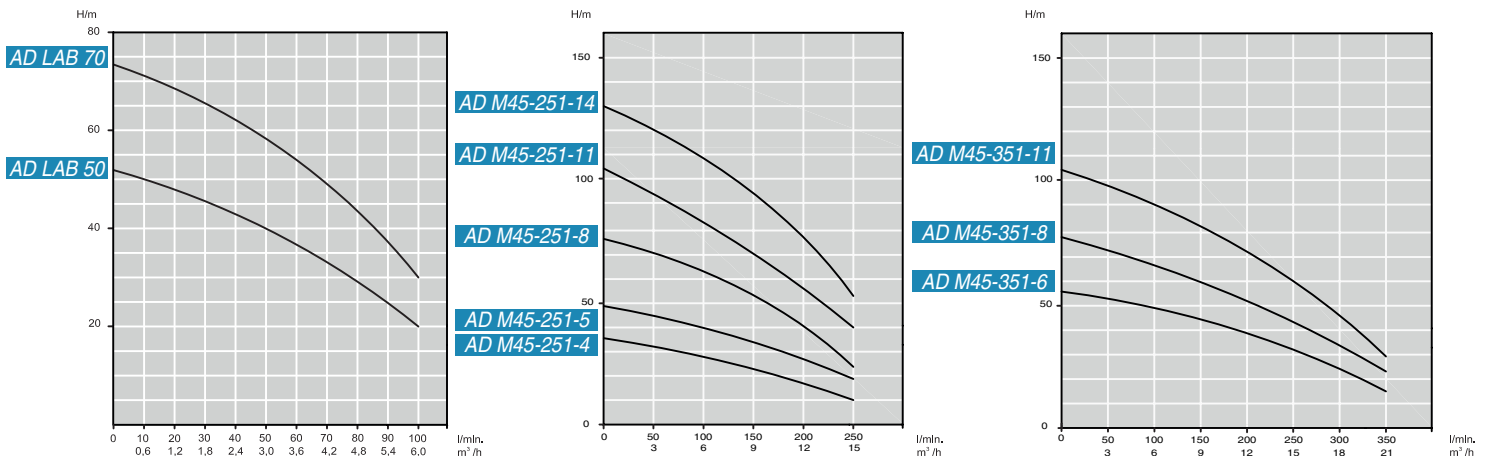
## ACCESSORIES

- ID 4G1,5 round cable.

Technical specifications

Pump type	Motor		Cap. µF VL 450	Max current		Outlet ø	Delivery									
	HP	kW		230 V 1~	400 V 3~		l/min	0	50	100	150	200	250	300	350	
				A	A			m³/h	0	3	6	9	12	15	18	21
AD LAB 50	1,5	1,1	35	7	2,2	1" 1/4	Manometric head (m)	52	40	20						
AD LAB 70	2	1,5	40	10	3,5			73	56	30						
AD M45-251-4	2	1,5	40	8,4	3,4	1" 1/2		36	32	27	22	16	10			
AD M45-251-5	3	2,2	—	—	4			49	45	40	34	26	18			
AD M45-251-8	4	3	—	—	6,3			77	71	63	55	42	27			
AD M45-251-11	5,5	4	—	—	8,5			104	95	84	72	56	40			
AD M45-251-14	7,5	5,5	—	—	12,1			130	120	108	95	75	53			
AD M45-351-6	4	3	—	—	6,3	1" 1/2		56	53	48	43	38	33	25	16	
AD M45-351-8	5,5	4	—	—	9			78	73	67	61	54	47	38	23	
AD M45-351-11	7,5	5,5	—	—	12,4			104	98	90	81	72	63	50	29	

Performance curves



Dimensions and weights

Pump type	Dimensions	Weight kg
	mm	
	A	
AD LAB 50	633	16,8
AD LAB 70	708	18,8
AD M45-251-4	772	25,2
AD M45-251-5	872	30,7
AD M45-251-8	1007	35,7
AD M45-251-11	1171	41,7
AD M45-251-14	1356	50,7
AD M45-351-6	991	34,2
AD M45-351-8	1090	39,2
AD M45-351-11	1284	46,7

