



We Make The Difference



ADH Horizontal Centrifugal pumps

www.alphadynamic.eu

ADH Horizontal Centrifugal pumps

ADH Series centrifugal pumps with mechanical seal are made of plastic materials (Polypropylene and PVDF) and are suitable for high corrosive liquids. They are operated by a direct-drive motor (max 3000 rpm). Their special open-impeller design allows pumping even with very dirty liquids having apparent viscosity up to 500 cps (at 20°C) and small suspended solids. There are two versions available with different internal mechanical seal depending on use, A (lip seal) and B (bellows seal).

Main Features

- ▶ Available in polypropylene, PVDF
- ▶ Positive suction head operation
- ▶ Mechanical bellows or lip seal
- ▶ Usable even with extremely dirty liquids
- ▶ Flow rates: from 6 to 75 m3/h
- ▶ Head: up to 38 mt
- ▶ Quick and easy maintenance
- ▶ Economical spares
- ▶ Viscosity: up to 500 cps
- ▶ Upon request the pump can be supplied with flanges PN10, ANSI 150, JIS

Motors:

IP55 - F Class - 2-pole - 50 Hz - three-phase
Single phase from 0,55 kw to 2,2 kw - 50/60 Hz

Max. operating temperature:

PP: 65°C
PVDF: 95°C

Available Seal:

Type A: Lip Seal VITON or EPDM

Type B: Below seal SILICON CARBIDE+CERAMIC / SILICON CARBIDE+SILICON CARBIDE
Seal o-ring materials: EPDM or VITON

Application sectors

Chemical Industry , Galvanic & electronic Industry, Water Treatment Industry, Automotive



AUTOMOTIVE



CHEMICAL INDUSTRY



WATER AND SLUDGE TREATMENT



GALVANIC AND ELECTRONIC INDUSTRY

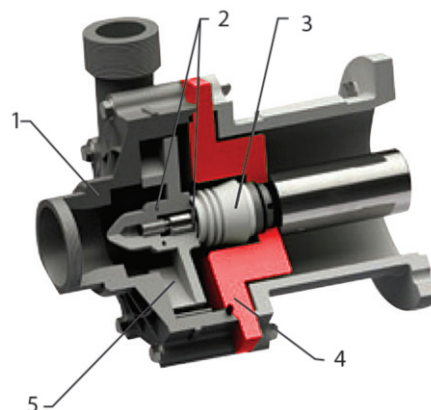
Description of the Pump

Resin-encased horizontal centrifugal pumps feature a solid pump casing and a lantern for connecting the electric motor and inspection of the mechanical seal. The open impeller is fitted to the pump shaft that is integral with the drive shaft of the electric motor. The shaft mechanical seal is housed at the rear of the impeller.

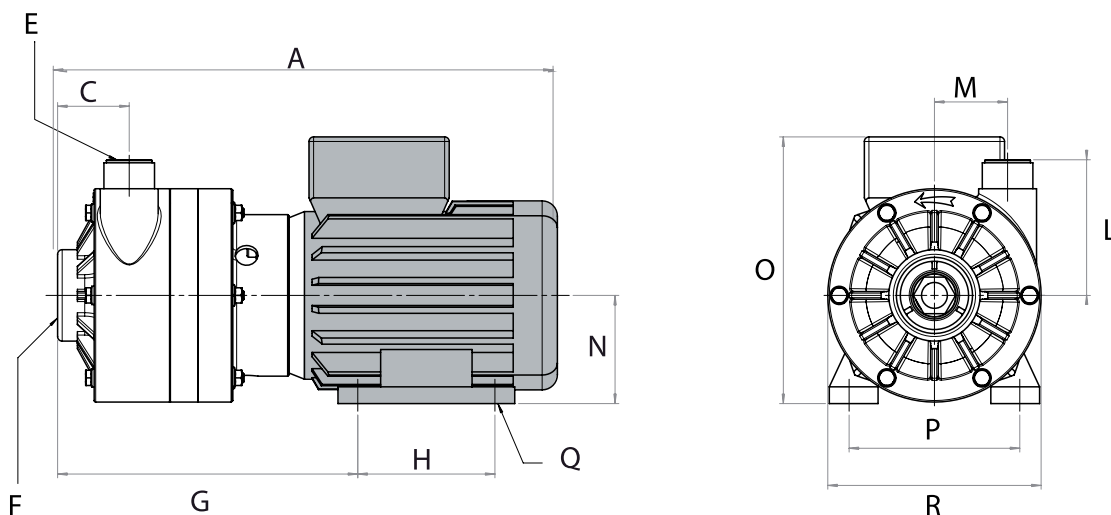
POS	DESCRIPTION	MATERIAL
1	PUMP HEAD	PP or PVDF
2	O-RING	EPDM or VITON
3	MECHANICAL SEAL	Bellow Seal PTFE SIC/CER or SIC/SIC
4	SHAFT	CERAMIC Al ₂ O ₃ 99.7%
5	IMPELLER	PP or PVDF

How it works

The impeller is integral with the shaft and direct drive electric motor and is rotated at a preset speed with the centrifugal effect producing suction on the intake side and discharge on the delivery side.



Dimensions

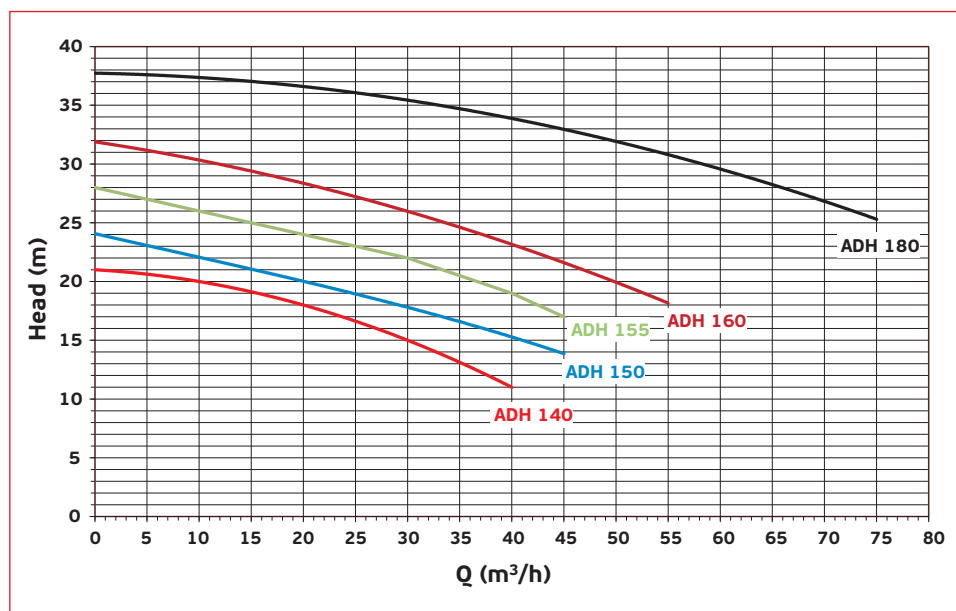
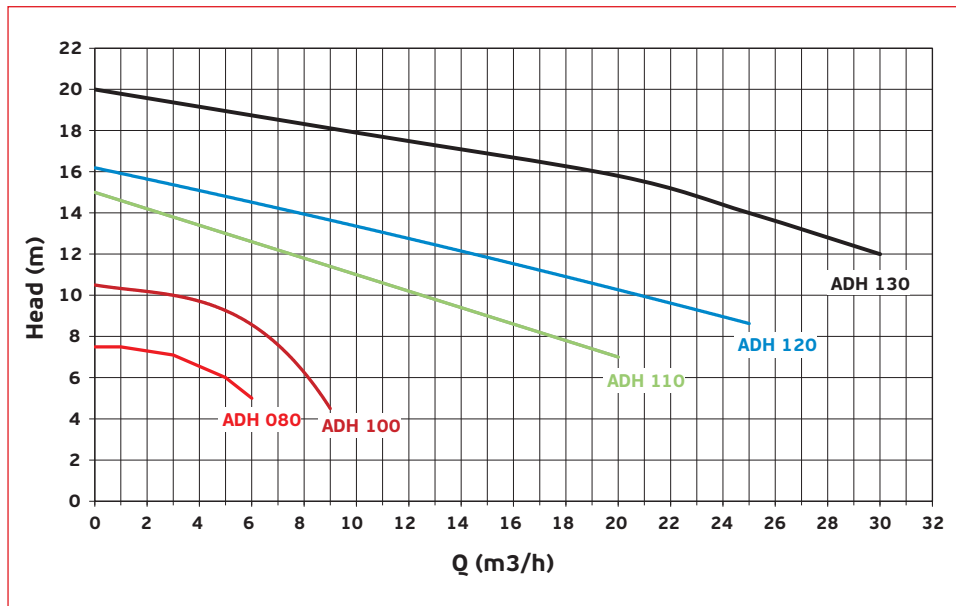


MODEL	A	C	G	H	L	M	N	O	P	R	Q	F	E
ADH080	328	47	197	90	89	48	71	175	112	140	4 X Ø8	1 ½" BSM F	1" BSM M
ADH100	328	47	197	90	89	48	71	175	112	140	4 X Ø8	1 ½" BSM F	1" BSM M
ADH110	406	75	247	100	130	40	80	191	125	203	4 X Ø10	2" BSM F	1 ½" BSM M
ADH120	426	75	257	100	130	40	90	90	210	203	4 X Ø10	2" BSM F	1 ½" BSM M
ADH130	448	75	257	125	130	40	90	210	140	203	4 X Ø10	2" BSM F	1 ½" BSM M
ADH140	505	68	296	140	130	40	100	227	160	203	4 X Ø12	2" BSM F	1 ½" BSM M
ADH150	527	68	300	140	158	96	112	249	190	300	4 X Ø12	2 ½" BSM F	2" BSM M
ADH155	619	68	329	140	158	96	132	312	216	300	4 X Ø12	2 ½" BSM F	2" BSM M
ADH160	645	68	335	140	158	96	132	312	216	300	4 X Ø12	2 ½" BSM F	2" BSM M
ADH180	695	68	335	158	158	96	312	312	216	300	4 X Ø12	2 ½" BSM F	2" BSM M

Pump Models

Type	Motor			Material	Suction Connection	Discharge Connection	Weight Kg			
	HP	Rpm	Size				PP Pump	PVDF Pump	PP with Motor	PVDF with Motor
ADH 080	0.75	2900	71 / B34	PP / PVDF	1 ½" BSM F	1" BSM M	1.7	2.7	8.5	9.5
ADH 100	0.75	2900	71 / B34	PP / PVDF	1 ½" BSM F	1" BSM M	1.7	2.7	8.5	9.5
ADH 110	1.5	2900	80 / B35	PP / PVDF	2" BSP M	1 ½" BSP M	3.4	4.4	16	17
ADH 120	2	2900	90 / B35	PP / PVDF	2" BSP M	1 ½" BSP M	3.8	4.8	16	17
ADH 130	3	2900	90 / B35	PP / PVDF	2" BSP M	1 ½" BSP M	3.8	4.8	22.5	23.5
ADH 140	4	2900	100 / B34	PP / PVDF	2" BSP F	1 ½" BSP M	4	5	29	30
ADH 150	5.5	2900	112 / B35	PP / PVDF	2 ½" BSP F	2" BSP M	8	11	44	47
ADH 155	7.5	2900	132 / B35	PP / PVDF	2 ½" BSP F	2" BSP M	9.5	12.5	60	63
ADH 160	10	2900	132 / B35	PP / PVDF	2 ½" BSP F	2" BSP M	9.5	12.5	70	73
ADH 180	15	2900	132 / B35	PP / PVDF	2 ½" BSP F	2" BSP M	9.5	12.5	96	99

Performance curves 2900 Rpm



2020.07.3000



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We Make The Difference



ADV Vertical Centrifugal Pumps



EAC CE

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ADV Vertical Centrifugal Pumps

Features

The ADV series of resin-encased vertical centrifugal pumps are high-performance pumps for fixed installations with pump immersed directly in the tank and operated by a direct-drive electric motor (max 3000 rpm) for fast fluid drainage with flow rates ranging from 6 to 75 m³/h and head up to 38 mt.

The special design of this type of pump avoids the use of internal mechanical seals (subject to heavy wear) and ensures that any accidental spillages are collected in the tank. The open impeller allows continuous pumping even with very dirty liquids having apparent viscosity of up to 500 cps (at 20°C) and small suspended solids. The choice of pump construction materials allows selection of optimum chemical compatibility with the fluid and/or environment without neglecting the temperature range.

Main Features

- ▶ Suitable for high corrosive liquids with solids in suspension
- ▶ Centrifugal pump with coupling and open-impeller
- ▶ Suitable for continuous use
- ▶ Construction materials: PP, PVDF
- ▶ Pump immersed in the tank
- ▶ Motor removable even with pump installed
- ▶ Usable even with extremely dirty liquids
- ▶ High flow rates: from 6 to 75 m³/h
- ▶ User-friendly bushing replacement
- ▶ Quick and easy maintenance
- ▶ Also available without motor
- ▶ Max. head: 38 m
- ▶ Viscosity: up to 500 cps
- ▶ Upon request the pump can be supplied with flange on the discharge

Motors:

IP55 - F Class - 2-pole - 50 Hz - three-phase

Single phase from 0,55 kw to 2,2 kw - 50/60 Hz

Column length (L):

250/500/800/1000/1250/1500/2000 mm

(other sizes available on request)

Max. operating temperature:

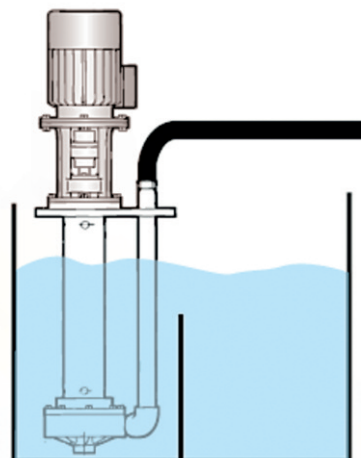
PP 65°C - PVDF 95°C

How it works

The impeller is integral with the shaft and direct-drive electric motor and is rotated at a preset speed with the centrifugal effect producing suction on the intake side and discharge on the delivery side

Installation

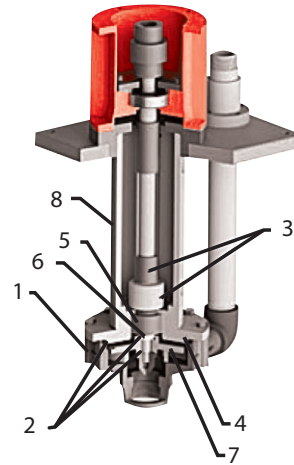
ADV Vertical centrifugal pumps should only be installed with the shaft positioned vertically and the pump immersed in the tank. Suitable devices should be fitted to avoid dry running and /or the formation of a vortex and possible air suction. These pumps should only operate whilst filled. Running dry or with air bubbles can cause damage to the internal bushing



ADV Vertical Centrifugal Pumps

Description of the Pump

POS	DESCRIPTION	MATERIAL
1	PUMP HEAD	PP or PVDF
2	O-RING	EPDM or VITON
3	SHAFT COVERING GUIDE	PP or PVDF
4	COVER	PP or PVDF
5	BUSHING	PTFEC
6	WEAR BUSHING	Al ₂ O ₃
7	IMPELLER	PP or PVDF
8	COLUMN	PP or PVDF



Application sectors

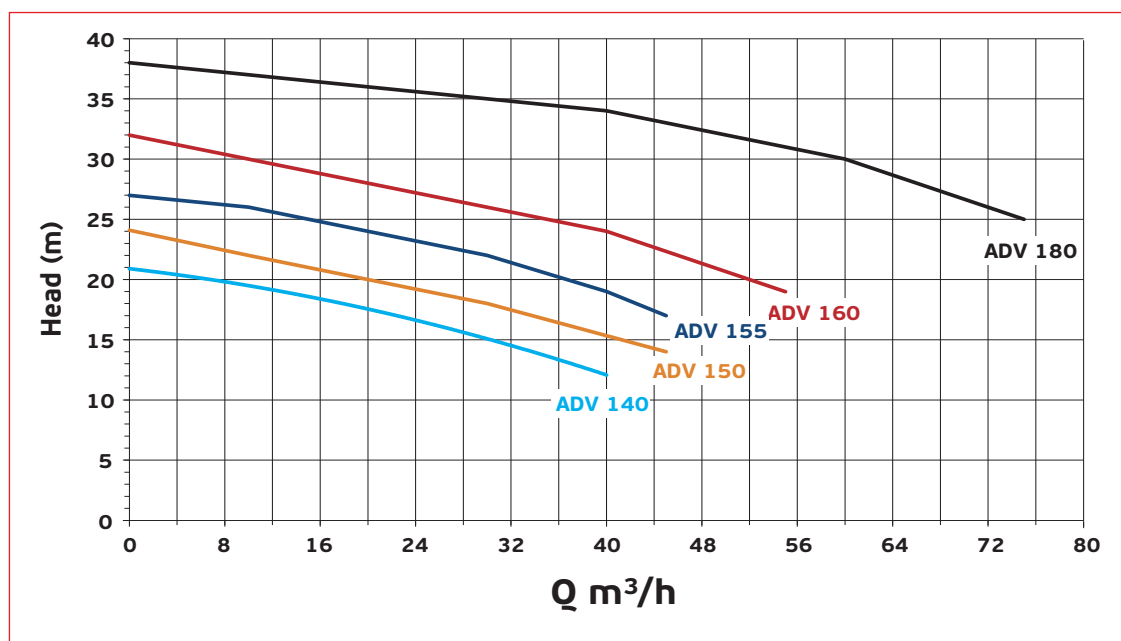
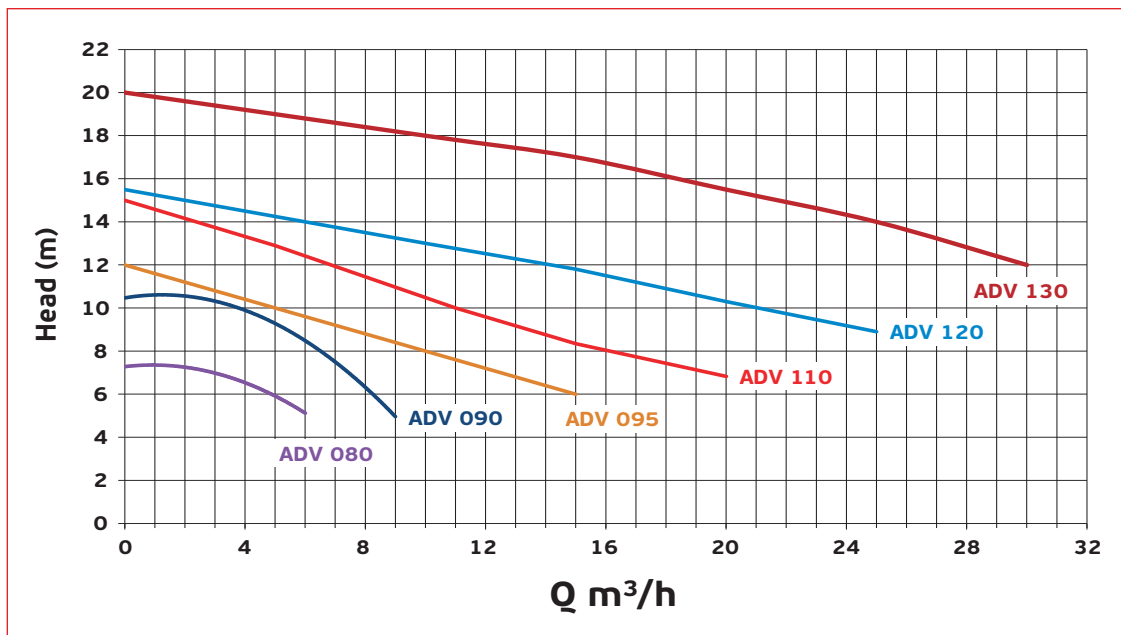
Chemical Industry, Galvanic & electronic Industry,
Water Treatment Industry



Pump Models

Type	Motor			LENGTH mm	Max. capacity m ³ /h	Material	Suction Connection	Discharge Connection
	HP	Rpm	Size					
ADV 080	0.5	2900	71	250-500-800	6	PP / PVDF	1 ½" BSP M	1" BSP M
ADV 090	0.75	2900	71	250-500-800	9	PP / PVDF	1 ½" BSP M	1" BSP M
ADV 095	1	2900	80	500-800-1000-1250	15	PP / PVDF	2" BSP M	1 ½" BSP M
ADV 110	1.5	2900	80	500-800-1000-1250-1500-2000	20	PP / PVDF	2" BSP M	1 ½" BSP M
ADV 120	2	2900	90	500-800-1000-1250-1500-2000	25	PP / PVDF	2" BSP M	1 ½" BSP M
ADV 130	3	2900	90	500-800-1000-1250-1500-2000	30	PP / PVDF	2" BSP M	1 ½" BSP M
ADV 140	4	2900	100	500-800-1000-1250-1500-2000	40	PP / PVDF	2" BSP M	1 ½" BSP M
ADV 150	5.5	2900	112	500-800-1000-1250-1500-2000	42	PP / PVDF	2 ½" BSP F	2" BSP M
ADV 155	7.5	2900	132	500-800-1000-1250-1500-2000	45	PP / PVDF	2 ½" BSP F	2" BSP M
ADV 160	10	2900	132	500-800-1000-1250-1500-2000	55	PP / PVDF	2 ½" BSP F	2" BSP M
ADV 180	15	2900	132	500-800-1000-1250	75	PP / PVDF	2 ½" BSP F	2" BSP M

Performances



2020.07.3000



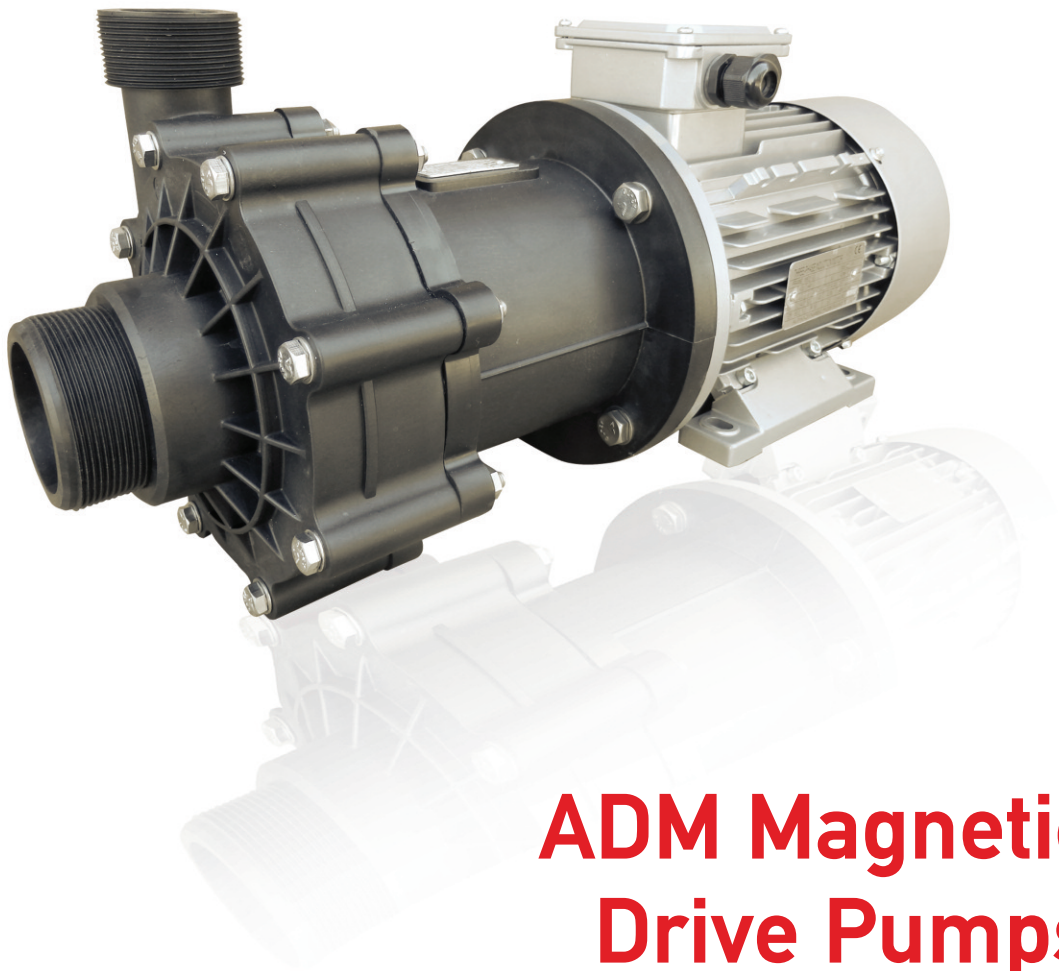
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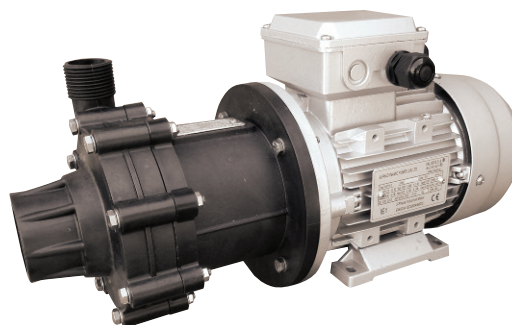
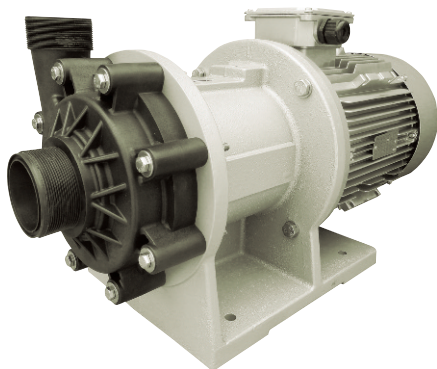
We Make The Difference



ADM Magnetic Drive Pumps

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ADM magnetic drive pumps



Features

Magnetic drive centrifugal pumps series ADM PP / PVDF are made of thermoplastic materials (Polypropylene and PVDF) and are suitable for high corrosive liquids.

Thanks to the innovative mag drive system, pumps models ADM PP/PVDF reduce the risks of losses and the maintenance costs. The transmission of the motion occurs through magnetic joints without using mechanical seals. This guarantees the maximum safety and efficiency.

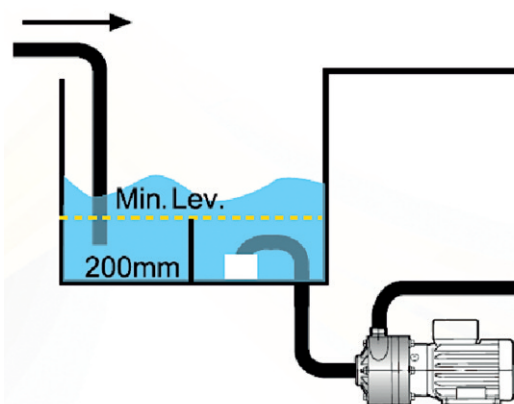
The pumped liquid has to be clean and without solids in suspension.

Technical Data

- Materials in contact with the liquid: casing and impeller PP/PVDF
- High torque magnetic coupling NeFeBo standard
- Flow up to 130 m³/h
pressure up to 48 mlc
- Max temperature:
PP 60°C – PVDF 90°C
- Max viscosity: 200 cSt
- Pressure rating NP 5 at 20°C
- Upon request the pump can be supplied with flange PN 10, ANSI 150, JIS

Installation

ADM Magnetic drive Centrifugal pumps should be installed with the shaft positioned horizontally in a positive suction head arrangement. Suitable devices should be fitted to prevent dry running and the formation of a vortex and possible air suction. ADM Magnetic drive centrifugal pumps should only operate whilst filled. Running dry or with bubbles can cause damage .



Application sectors

Chemical Industry, Galvanic & electronic Industry, Water Treatment Industry, Automotive



AUTOMOTIVE



CHEMICAL INDUSTRY



WATER AND SLUDGE
TREATMENT



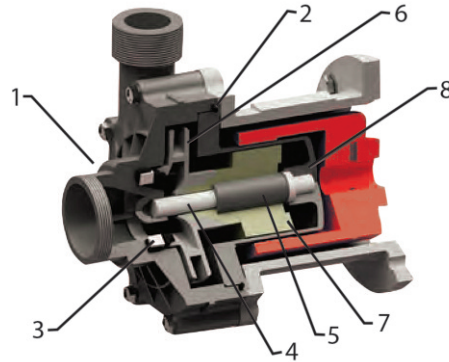
GALVANIC AND ELECTRONIC
INDUSTRY

ADM magnetic drive pumps

Design of magnetic drive centrifugal pumps

Magnetic drive centrifugal pumps have a particular seal-less design that is suitable to pump corrosive and dangerous liquids thanks to the high chemical resistance and absence of leakage and emissions. The structure is really simple so that the pump requires low maintenance cost with consequent economy in terms of repairing and spare part costs during the pump life.

The external magnet is directly connected to the motor shaft and it transmits the torque to the internal magnet. The magnetic field created produces a rotation without physical contact between the parts so the impeller spins and moves the fluid. The rear casing is placed between the two magnet joints and it hermetically closes the hydraulic part from the motor.

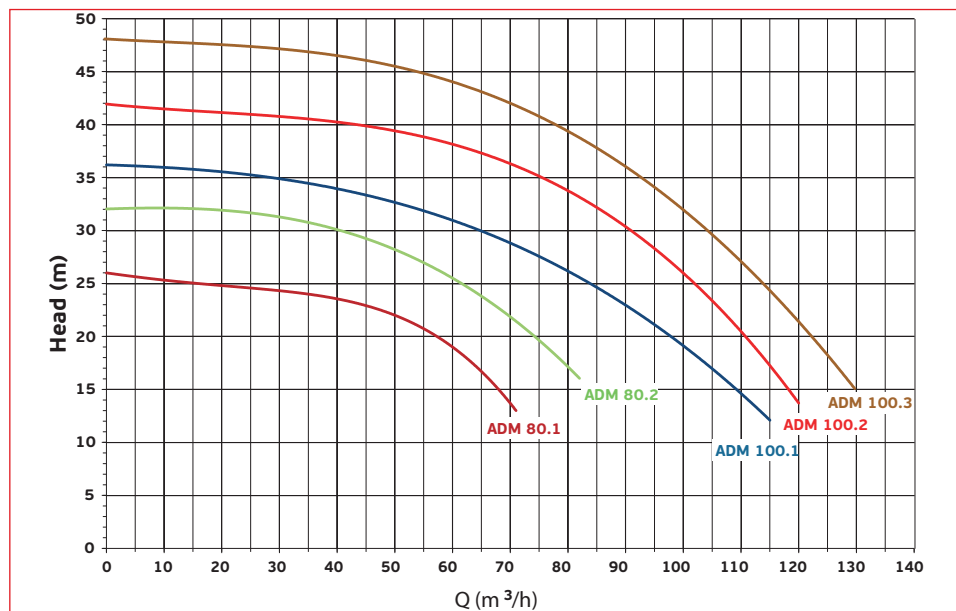
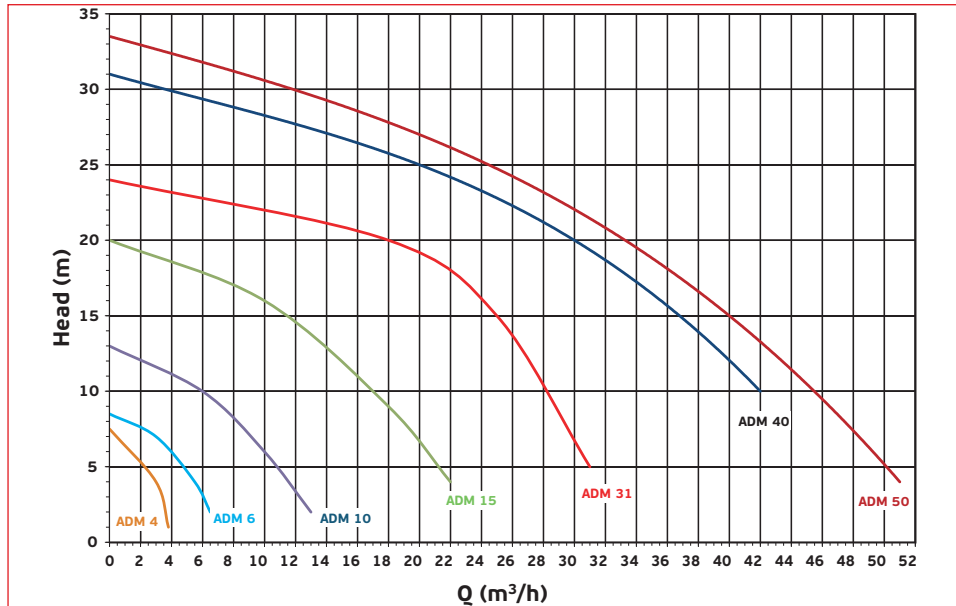


POS	DESCRIPTION	MATERIAL
1	PUMP HEAD	PP or PVDF
2	O-RING	EPDM or VITON
3	CASING THRUST BUSH	CERAMIC Al ₂ O ₃ + EPDM or VITON
4	SHAFT	CERAMIC Al ₂ O ₃ 99.7%
5	BEARINGS	PTFEC
6	IMPELLER	PP or PVDF
7	INTERNAL MAGNET	PP or PVDF + NdFeb
8	REAR CASING	PP or PVDF

Pump Models

Type	Motor			Material	Suction Connection	Discharge Connection	Weight Kg			
	HP	Rpm	Size				PP Pump	PVDF Pump	PP with Motor	PVDF with Motor
ADM 4	0.16	2900	56	PP / PVDF	1" BSP F	½" BSP M	1.0	1.1	4.3	4.4
ADM 6	0.35	2900	63	PP / PVDF	1" BSP F	¾" BSP M	1.6	1.8	6.0	6.2
ADM 10	0.75	2900	71	PP / PVDF	1 ½" BSP F	1" BSP M	2.6	2.9	11.4	11.7
ADM 15	2	2900	90	PP / PVDF	2" BSP M	1 ½" BSP M	5.8	6.6	18.8	19.6
ADM 31	3	2900	90	PP / PVDF	2 ½" BSP M	2" BSP M	8	8.9	21	21.9
ADM 40	4	2900	100	PP / PVDF	3" BSP M	2 ½" BSP M	19	21	42	44
ADM 40	5.5	2900	112	PP / PVDF	3" BSP M	2 ½" BSP M	19	21	50	52
ADM 50	7.5	2900	132	PP / PVDF	3" BSP M	2 ½" BSP M	32	35	72	75
ADM 50	10	2900	132	PP / PVDF	3" BSP M	2 ½" BSP M	32	35	82	85
ADM 80.1	15	2900	160	PP / PVDF	DN 80	DN 65	42	44	122	124
ADM 80.2	20	2900	160	PP / PVDF	DN 80	DN 65	42	44	133	135
ADM 100.1	20	2900	160	PP / PVDF	DN 100	DN 80	42	44	133	135
ADM 100.2	25	2900	160	PP / PVDF	DN 100	DN 80	42	44	163	165
ADM 100.2	30	2900	180	PP / PVDF	DN 100	DN 80	42	44	190	192

Performances



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