AlphaDynamic PUMPS

We Make The Difference



ADV Vertical Centrifugal Pump

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TÜV NORD CERT GmbH ISO 9001

EAC CE

www.alphadynamic.eu

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 m^3/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 m^3/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:

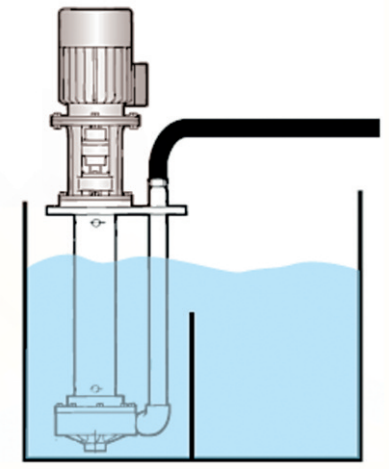
PP 65°C - PVDF 95°C

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

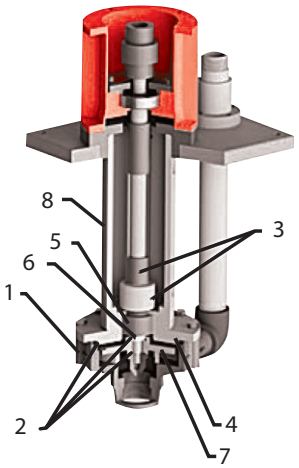


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Description of the Pump

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	$A1_2O_3$
7	IMPELLER	PP or PVDF
8	COLUMN	PP or PVDF



Application sectors

Chemical Industry, Galvanic & electronic Industry, Water Treatment Industry


CHEMICAL INDUSTRY

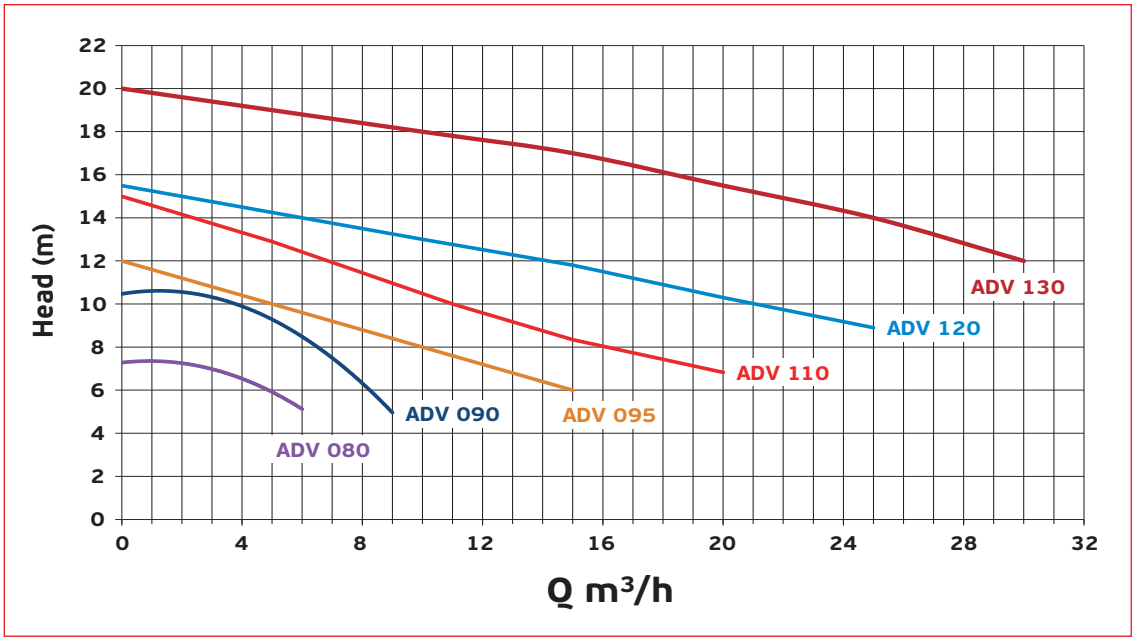

WATER AND SLUDGE TREATMENT

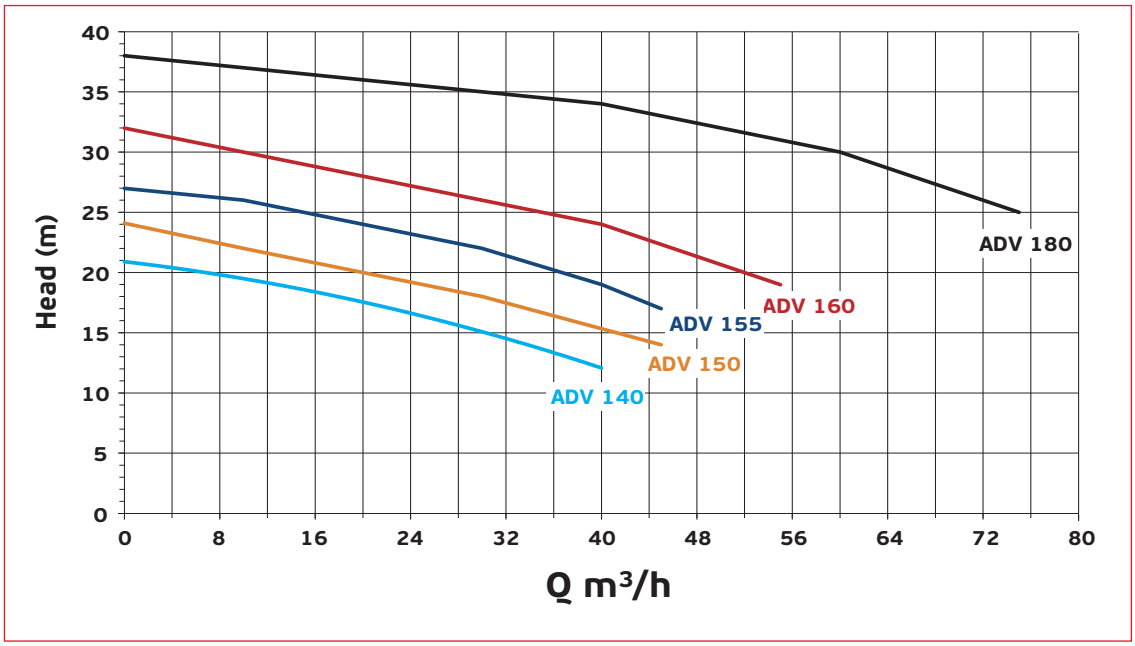

GALVANIC AND ELECTRONIC INDUSTRY

Pump Models

Type	Motor			LENGTH mm	Max. capacity m3/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





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England Sales office:
Rockleigh House, 37 Burton Road
Ashby de la Zouch , Leicestershire
LE65 2LF - United Kingdom (UK)
Registered in ENGLAND & WALES
Registration number 09706219 -
VAT No.GB220393343
Tel +44 1213 680 324 , +44 1213 680472
email:sales@alphadynamicpumps.co.uk
www.alphadynamicpumps.co.uk

Distributor Benelux:
Quantum Engineering BV
Tel. +32(0)467-00.77.72.
sales@quantumengineering.be
www.quantumengineering.be