



ADV Vertical Centrifugal Pumps



We Make The Difference

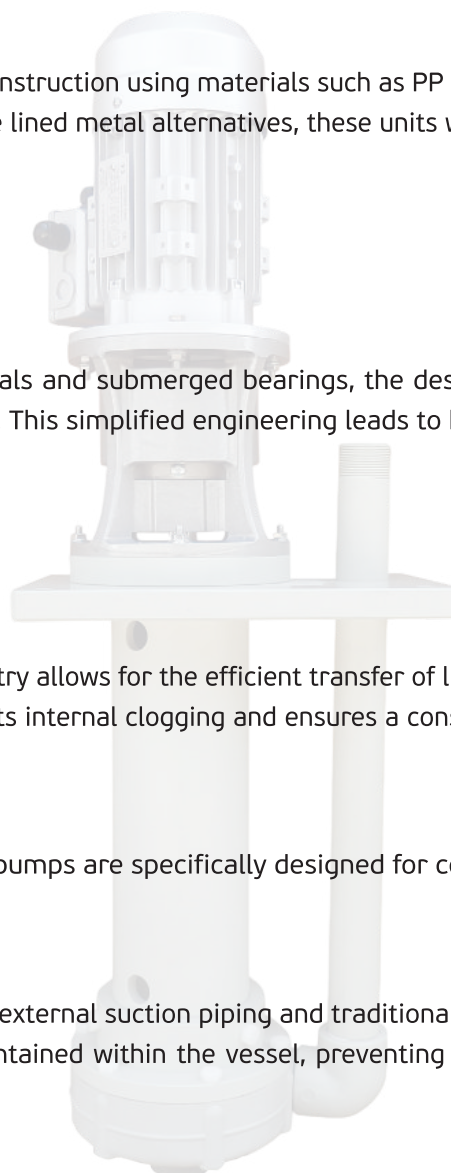
ADV Vertical Centrifugal Pumps represents a high-performance solution for handling aggressive chemicals in demanding industrial environments. These vertical centrifugal pumps are specifically engineered for in-tank installation, offering a compact and leak-proof design.

Manufactured from high-grade thermoplastics, such as PP or PVDF, they ensure total immunity to corrosion from acids, alkalis and salts.

To meet diverse industrial requirements, these pumps feature a modular construction with customizable column lengths ranging from 250 mm to 2000 mm, ensuring a perfect fit for various tank depths.

Main Advantages

- **High Corrosion Resistance:** The solid thermoplastic construction using materials such as PP or PVDF ensures the pump is entirely immune to chemical attacks. Unlike lined metal alternatives, these units will never rust or degrade when handling aggressive acids or alkalis.
- **Design** with coupling and open impeller.
- **Maintenance Efficiency:** By removing mechanical seals and submerged bearings, the design significantly reduces the need for spare parts and regular servicing. This simplified engineering leads to higher reliability and lower long-term operating costs.
- **Motor removable** even with pump installed.
- **Solid Handling Capabilities:** The open impeller geometry allows for the efficient transfer of liquids containing suspended solids, crystals or sludge. This design prevents internal clogging and ensures a consistent flow even in "dirty" industrial processes.
- **Heavy-Duty Performance:** ADV Vertical Centrifugal pumps are specifically designed for continuous use in demanding industrial environments.
- **Leak-Proof Safety:** The in-tank installation eliminates external suction piping and traditional seals below the liquid level. This ensures that all chemicals remain contained within the vessel, preventing hazardous spills and protecting the working environment.



Technical Data

- Flow rates: from 6 to 78 m³/h
- Head: up to 45 m
- Viscosity: up to 500 cps
- Maximum operating temperature: PP: 60°C , PVDF: 90°C
- Three-phase Motors from 0,75 HP to 20 HP - 50 / 60 Hz
- Single phase Motors from 0,75 HP kW to 3 HP - 50 / 60 Hz
- Upon request the pump can be supplied with flanges PN10
- Available Lengths: from 250 mm to 2000 mm

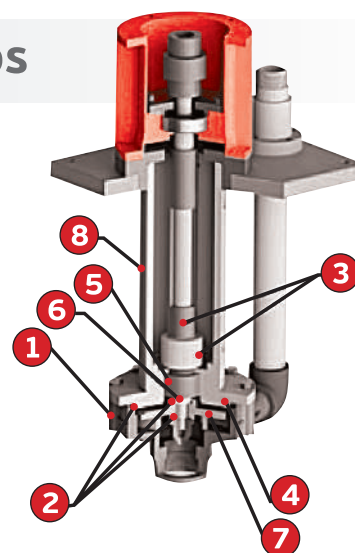


Design of Vertical Centrifugal Pumps

ADV Vertical Centrifugal Pumps consists of a solid pump casing and a column fitted to the base plate supporting the lantern that in turn supports the electric motor.

The direct-drive motor is connected by a flexible coupling on the pump shaft. The open impeller is fitted to the other end of the shaft that is supported by a radial bearing.

This pump's special design allows the motor to be stripped without the need to disconnect the pump from the system.



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



CHEMICAL INDUSTRY



WATER AND SLUDGE
TREATMENT



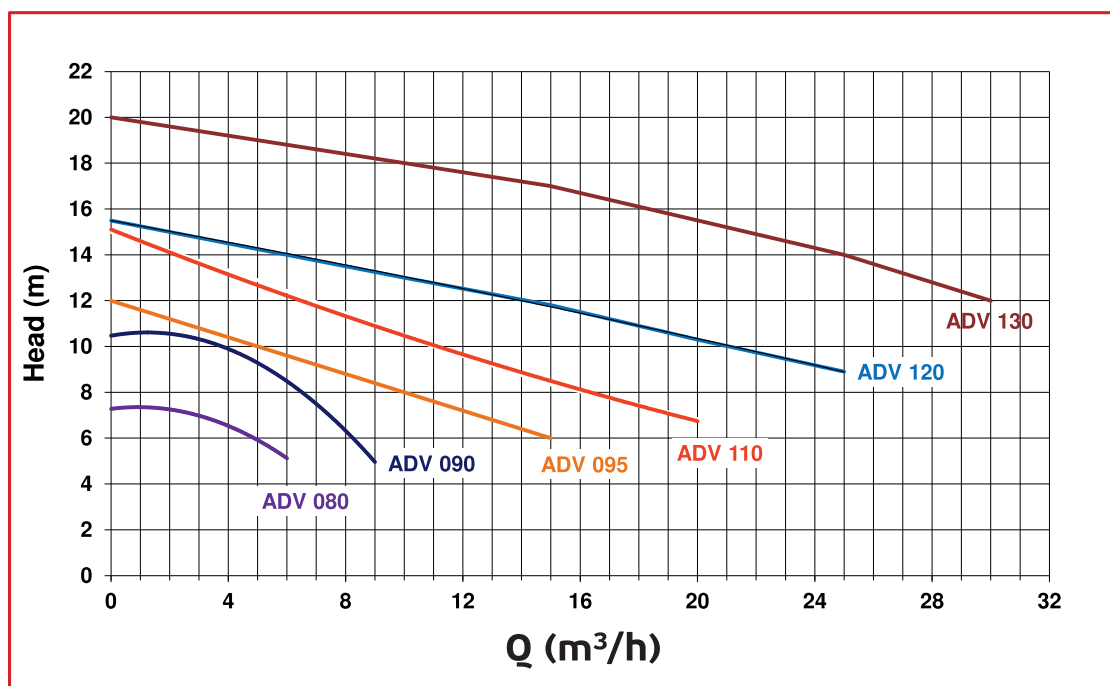
GALVANIC AND ELECTRONIC
INDUSTRY

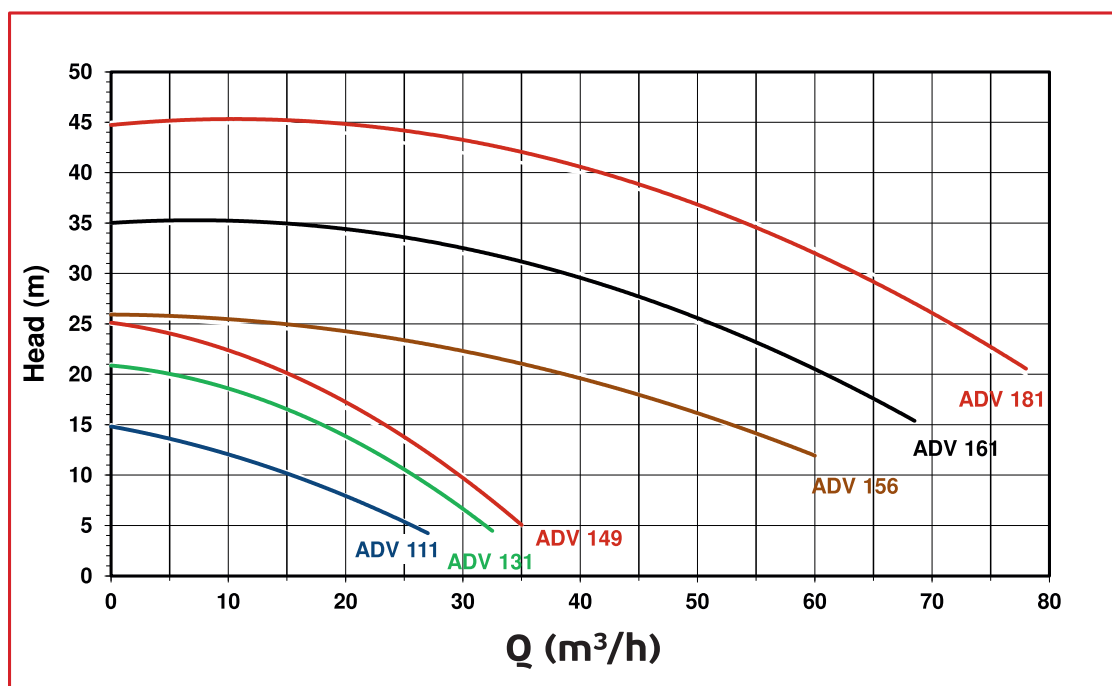
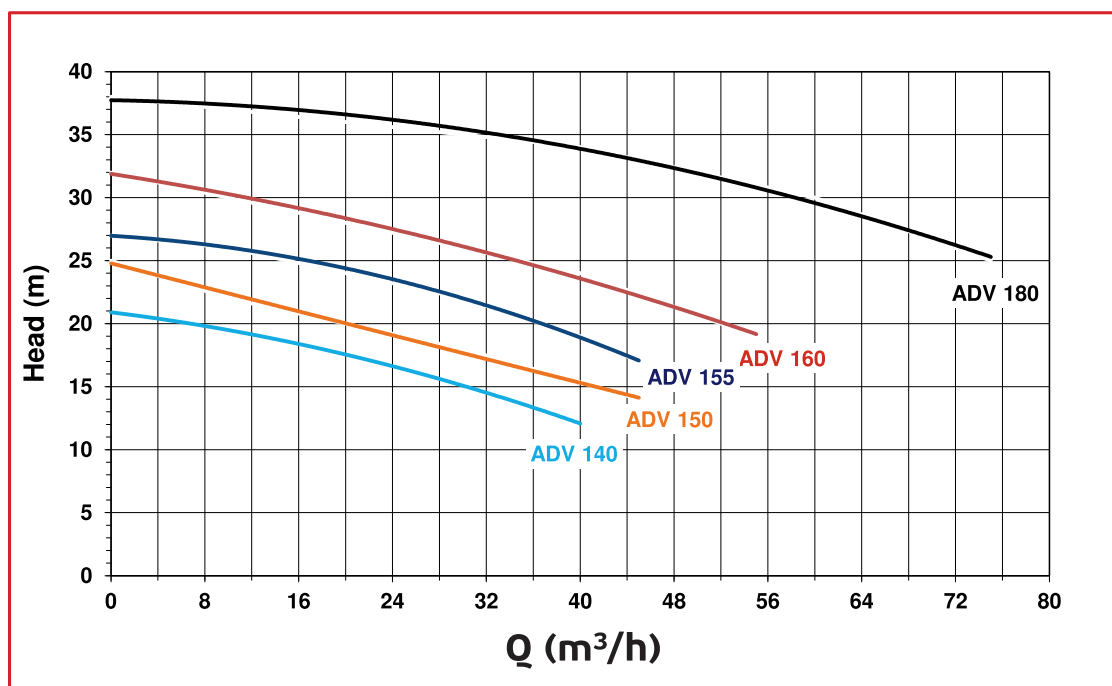
Pump Models



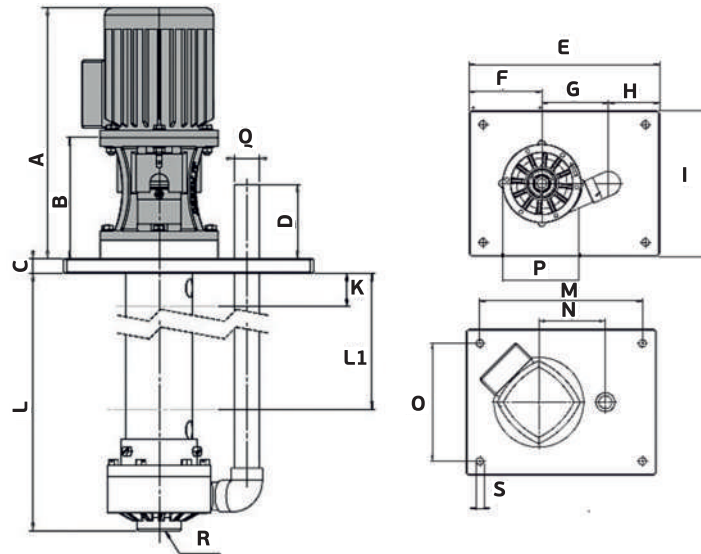
Models	Motor			Length (mm)	Max. Capacity (m³/h)	Max. Head (m)	Material	Suction Connection	Discharge Connection	Solids Passing (mm)
	HP	Rpm	Size							
ADV 080	0.5	2900	71	250 - 500 - 800	6	7.5	PP / PVDF	1 1/2" BSP M	1" BSP M	7
ADV 090	0.75	2900	71	250 - 500 - 800	9	10.5	PP / PVDF	1 1/2" BSP M	1" BSP M	10
ADV 095	1	2900	80	500 - 800 - 1000 - 1250	15	12	PP / PVDF	2" BSP M	1 1/2" BSP M	6
ADV 110	1.5	2900	80	500 - 800 - 1000 - 1250	20	15	PP / PVDF	2" BSP M	1 1/2" BSP M	6
ADV 111	2 / 3	2900	90	1500 - 1750 - 2000	27	15	PP / PVDF	2" BSP M	1 1/2" BSP M	6
ADV 120	2	2900	90	500 - 800 - 1000 - 1250	25	15	PP / PVDF	2" BSP M	1 1/2" BSP M	6
ADV 130	3	2900	90	500 - 800 - 1000 - 1250	30	20	PP / PVDF	2" BSP M	1 1/2" BSP M	6
ADV 131	4 / 5.5	2900	100 / 112	1500 - 1750 - 2000	32	21.7	PP / PVDF	2" BSP M	1 1/2" BSP M	6
ADV 140	4	2900	100	500 - 800 - 1000 - 1250	40	21	PP / PVDF	2" BSP M	1 1/2" BSP M	12
ADV 149	5.5 / 7.5	2900	112 / 132	1500 - 1750 - 2000	35	25	PP / PVDF	2" BSP M	1 1/2" BSP M	9
ADV 150	5.5	2900	112	500 - 800 - 1000 - 1250	45	24	PP / PVDF	2 1/2" BSP F	2" BSP M	2
ADV 155	7.5	2900	132	500 - 800 - 1000 - 1250	45	27	PP / PVDF	2 1/2" BSP F	2" BSP M	2
ADV 156	10 / 15	2900	132	1500 - 1750 - 2000	60	26	PP / PVDF	2 1/2" BSP F	2" BSP M	2
ADV 160	10	2900	132	500 - 800 - 1000 - 1250	55	32	PP / PVDF	2 1/2" BSP F	2" BSP M	9
ADV 161	15	2900	132	1500 - 1750 - 2000	68	35	PP / PVDF	2 1/2" BSP F	2" BSP M	9
ADV 180	15	2900	132	500 - 800 - 1000 - 1250	75	38	PP / PVDF	2 1/2" BSP F	2" BSP M	11
ADV 181	20	2900	160	1500 - 1750 - 2000	78	45	PP / PVDF	2 1/2" BSP F	2" BSP M	11

Performances

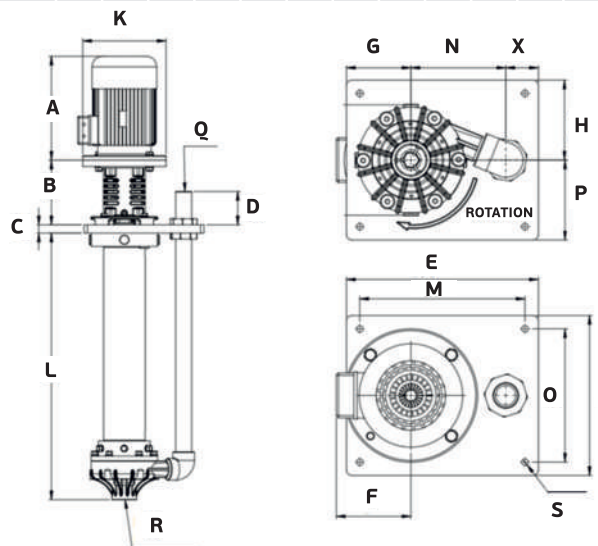




Dimensions



Models	Dimensions (mm)																							
	Motor Size	A	B	L	C	D	E	F	G	H	I	K	L1					M	N	O	P	S	Q	R
													250	500	800	1000	1250							
ADV 080	71	340	164	250-500-800	20	100	340	130	119	91	260	45	100	350	650	-	-	290	119	210	Φ140	Φ13	1''M	1 1/2''F
ADV 090	71	340	164	250-500-800	20	100	340	130	119	91	260	45	100	350	650	-	-	290	119	210	Φ140	Φ13	1''M	1 1/2''F
ADV 095	80	419	210	500-800-1000-1250	25	125	360	135	165	60	300	50	-	250	550	750	1000	310	165	250	Φ203	Φ13	1 1/2''M	2''F
ADV 110	80	419	210	500-800-1000-1250	25	125	360	135	165	60	300	50	-	250	550	750	1000	310	165	250	Φ203	Φ13	1 1/2''M	2''F
ADV 120	90	446	220	500-800-1000-1250	25	125	360	135	165	60	300	50	-	250	550	750	1000	310	165	250	Φ203	Φ13	1 1/2''M	2''F
ADV 130	90	487	220	500-800-1000-1250	25	125	360	135	165	60	300	50	-	250	550	750	1000	310	165	250	Φ203	Φ13	1 1/2''M	2''F
ADV 140	100	507	235	500-800-1000-1250	25	120	360	135	165	60	300	50	-	250	550	750	1000	310	165	250	Φ203	Φ13	1 1/2''M	2''F
ADV 150	112	532	233	500-800-1000-1250	25	132	480	170	165	95	380	50	-	300	600	800	1050	430	215	330	Φ275	Φ13	2''M	2 1/2''F
ADV 155	132	682	303	500-800-1000-1250	25	130	480	170	215	95	380	50	-	300	600	800	1050	430	215	330	Φ275	Φ13	2''M	2 1/2''F
ADV 160	132	702	303	500-800-1000-1250	25	130	480	170	215	95	380	50	-	300	600	800	1050	430	215	330	Φ275	Φ13	2''M	2 1/2''F
ADV 180	132	752	303	500-800-1000-1250	25	130	480	170	215	95	380	50	-	300	600	800	1050	430	215	330	Φ275	Φ13	2''M	2 1/2''F



Models	Dimensions (mm)																			
	Motor Size	A	B	C	D	E	F	G	H	I	K	L	M	N	O	P	S	X	Q	R
ADV 111	90	260	194	25	100	360	140	121	150	300	200	1500 - 1750 - 2000	310	178	250	150	Φ12	61	1 1/2" M	2" F
ADV 131	100/112	326/335	194	25	100	360	147/174	121	150	300	250	1500 - 1750 - 2000	310	178	250	150	Φ12	61	1 1/2" M	2" F
ADV 149	112/132	335/356	194	25	100	360	174/187	121	150	300	250	1500 - 1750 - 2000	310	178	250	150	Φ12	61	1 1/2" M	2" F
ADV 156	132	356	315	30	61	630	187	228	250	500	300	1500 - 1750 - 2000	580	252	450	250	Φ15	150	2" M	2 1/2" F
ADV 161	132	356	315	30	61	630	187	228	250	500	300	1500 - 1750 - 2000	580	252	450	250	Φ15	150	2" M	2 1/2" F
ADV 181	160	500	315	30	61	630	265	228	250	500	350	1500 - 1750 - 2000	580	252	450	250	Φ15	150	2" M	2 1/2" F



We Make The Difference

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