

ANAVALOS Submersible Wastewater Sewage Pump Type VX Vortex Impeller

Applications

Submersible sewage pumps VX with vortex impeller have been designed for handling effluent or sewage, for considerably medium head and high capacity, in municipal pumping stations and can be used as drainage pumps for clear or dirty or rain water as well. The installation of these pumps can be in fixed position with auto coupling system or in free standing position as portable pumps. VX are recommended for:

- Effluent containing fibrous or solids
- Dirty water
- Sludge
- Rainwater

Design

All pumps are produced according to the standards of ISO 9001 making a robust and compact construction for pump unit

Casting parts are made of high-grade cast iron, free of defects tested 1:1 and machined.

Impellers are perfectly balanced and made for non-blocking with Vortex design and free passage up to 70mm.

Pump and motor are designed for submersible continuous use (S1) and for maximum 40°C medium temperature.

A sensor for water leakage is protecting the motor from failure, in case there is a leakage in the shaft seal.

Sealing

Shaft sealing is protecting the motor from wet operation. Double mechanical seal of silicon carbide, independent of direction of rotation. Motor side seal is cooled and lubricated by oil. Pump side seal is cooled by the pumped liquid.



Motor

IE2 efficiency class as standard (IE3 on request). Three Phase 400V, 50Hz, 2 pole (2900 r.p.m.) and 4 pole (1450 r.p.m.). Insulation class F, protection IP68

Bearings

Life lubricated bearings, series 3300, 6200 and 6300 designed for many hours life time

Identification

Example VX 10025 M150-4

- VX: Pump series with vortex impeller
- 100: Discharge outlet DN (80 or 100 or 150)
- 25: Impeller type (24 or 25 or 32)
- M: Motor
- 150: Motor rated power P_2 kW x 10
- 4: Number of Poles

Materials

- Motor housing: Cast iron EN-GJL-250
- Pump casing: Cast iron EN-GJL-250
- Impeller: Cast iron EN-GJL-250
- Shaft: Stainless steel AISI 420
- Mechanical seal: Silicon carbide

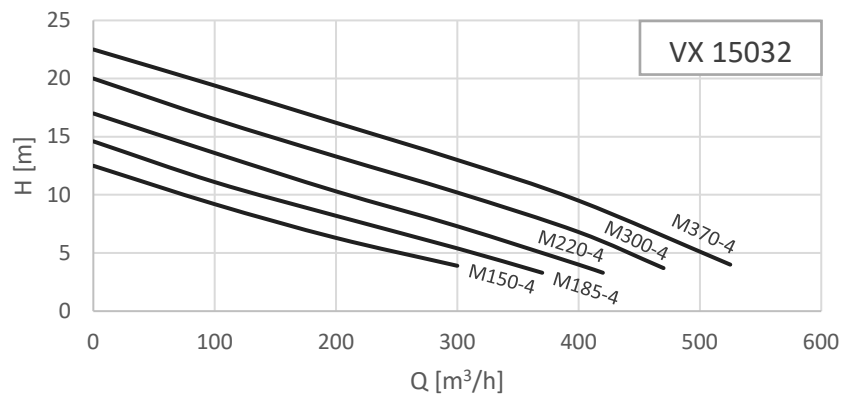
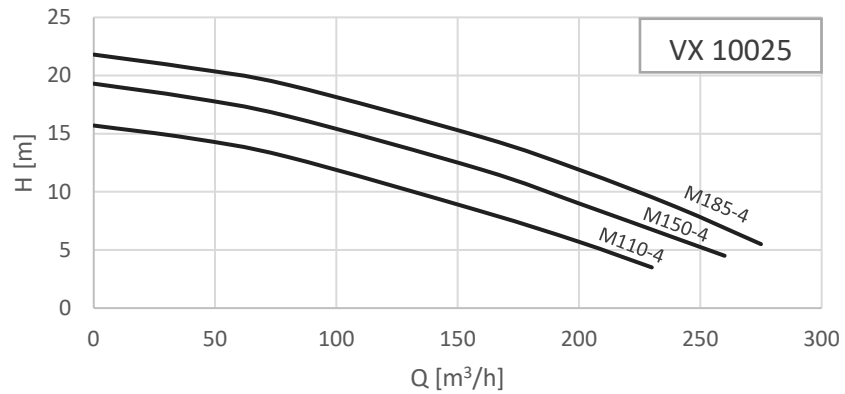
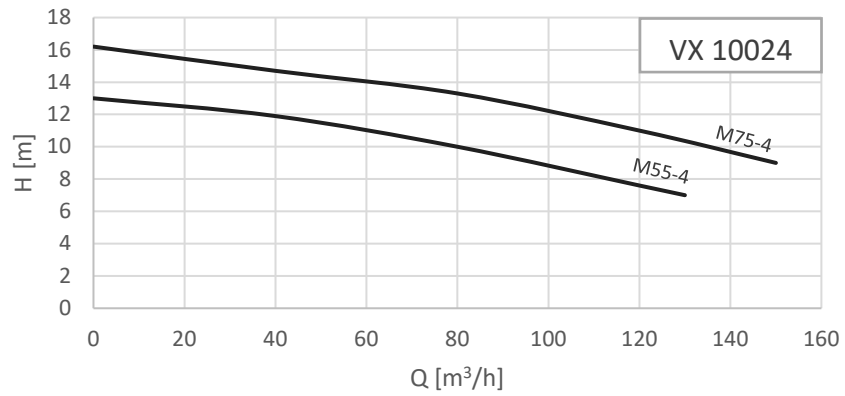
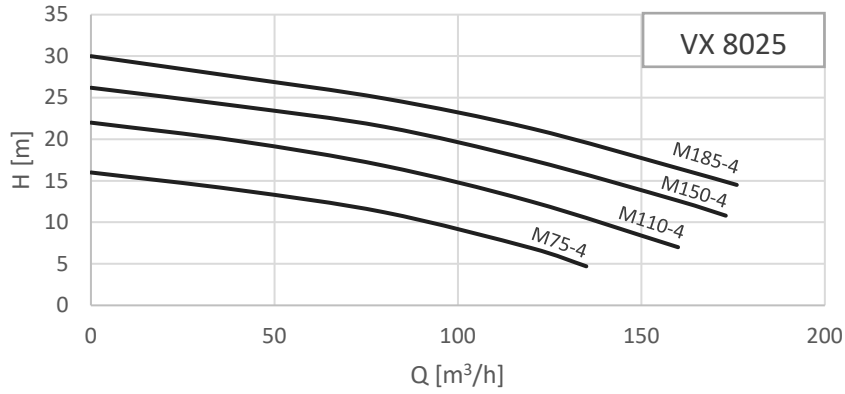
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Technical Data

Type	Discharge	Free Passage [mm]	Motor Power P ₂ [kW]	Rated Current I _N [A]	Rated Voltage [V]	Nominal Speed [r.p.m.]	Cable [10m]
VX 8025 M75-4	DN80	43	7.5	15.1	400	1450	4G2.5+3G1.5
VX 8025 M110-4	DN80	43	11	21.1	400	1450	7G4.0+3G1.5
VX 8025 M150-4	DN80	43	15	28.7	400	1450	7G4.0+3G1.5
VX 8025 M185-4	DN80	43	18.5	34.5	400	1450	8G4.0+3G1.5
VX 10024 M55-4	DN100	55	5.5	10.9	400	1450	4G2.5+3G1.5
VX 10024 M75-4	DN100	55	7.5	15.1	400	1450	4G2.5+3G1.5
VX 10025 M110-4	DN100	65	11	21.1	400	1450	7G4.0+3G1.5
VX 10025 M150-4	DN100	65	15	28.7	400	1450	7G4.0+3G1.5
VX 10025 M185-4	DN100	65	18.5	34.5	400	1450	8G4.0+3G1.5
VX 15032 M150-4	DN150	70	15	28.7	400	1450	7G4.0+3G1.5
VX 15032 M185-4	DN150	70	18.5	34.5	400	1450	8G4.0+3G1.5
VX 15032 M220-4	DN150	70	22	41.7	400	1450	8G6.0+3G1.5
VX 15032 M300-4	DN150	70	30	54.5	400	1450	8G6.0+3G1.5
VX 15032 M370-4	DN150	70	37	66.8	400	1450	8G6.0+3G1.5

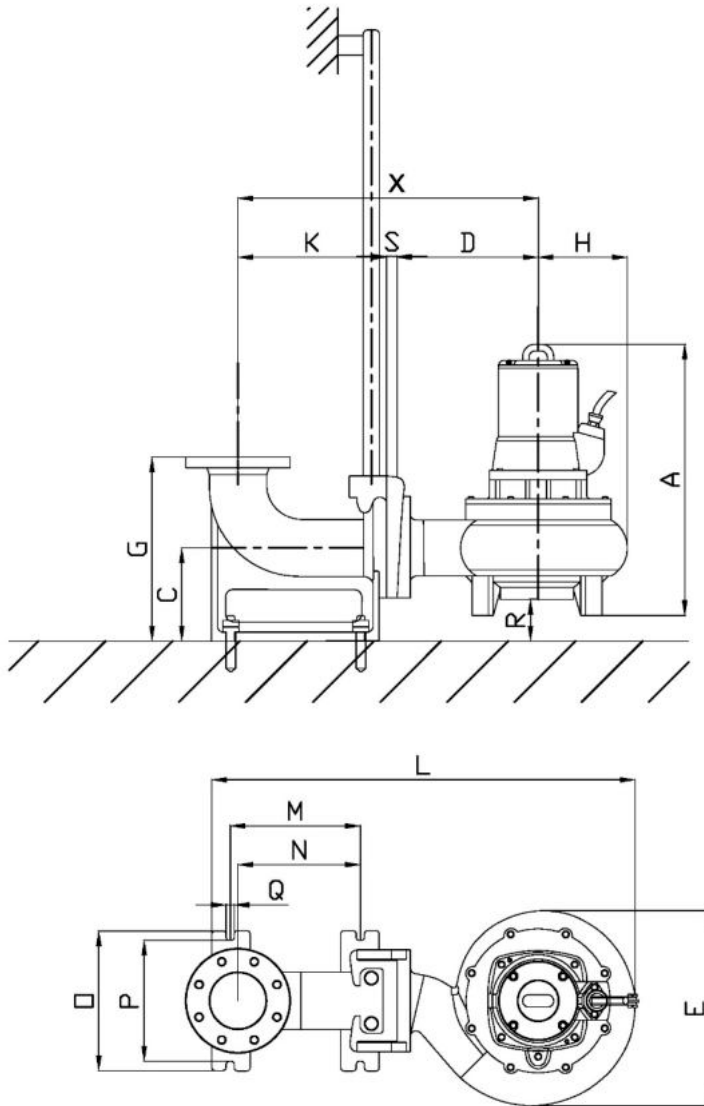
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Performance at 1450 r.p.m.



**ANAVALOS Submersible Wastewater
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Installation dimension auto coupling with guide rail system



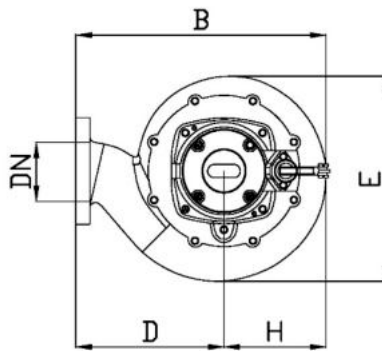
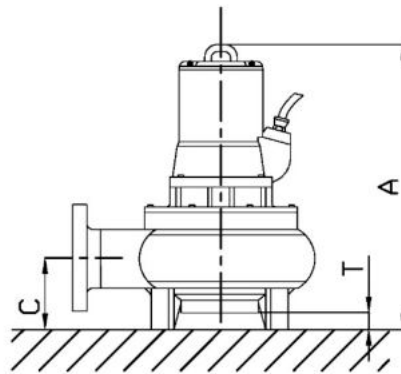
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Installation dimension auto coupling with guide rail system

Type	A	C	D	E	G	H	K	L	M	N	O	P	Q	R	S	X
[mm]																
VX 8025 M75-4	750	110	280	400	337	197	275	830	220	217	200	220	16	102	25	587
VX 8025 M110-4	750	110	280	400	337	197	275	830	220	217	200	220	16	102	25	587
VX 8025 M150-4	905	110	280	400	337	197	275	830	220	217	200	220	16	102	25	587
VX 8025 M185-4	905	110	280	400	337	197	275	830	220	217	200	220	16	102	25	587
VX 10024 M55-4	630	130	250	375	393	185	317	835	275	259	300	260	16	127	25	592
VX 10024 M75-4	750	130	250	375	393	185	317	835	275	259	300	260	16	127	25	592
VX 10025 M110-4	795	145	300	420	393	210	317	910	275	259	300	260	16	90	25	642
VX 10025 M150-4	950	145	300	420	393	210	317	910	275	259	300	260	16	90	25	642
VX 10025 M185-4	950	145	300	420	393	210	317	910	275	259	300	260	16	90	25	642
VX 15032 M150-4	1067	260	355	530	410	270	331	1025	275	274	340	300	16	90	25	711
VX 15032 M185-4	1067	260	355	530	410	270	331	1025	275	274	340	300	16	90	25	711
VX 15032 M220-4	1142	260	355	530	410	270	331	1025	275	274	340	300	16	90	25	711
VX 15032 M300-4	1200	260	355	530	410	270	331	1025	275	274	340	300	16	90	25	711
VX 15032 M370-4	1200	260	355	530	410	270	331	1025	275	274	340	300	16	90	25	711

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Pump Dimension



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Pump Dimension

Type	DN	A	B	C	D	E	H	T
[mm]								
VX 8025 M75-4	80	750	477	110	280	400	197	37
VX 8025 M110-4	80	750	477	110	280	400	197	37
VX 8025 M150-4	80	905	477	110	280	400	197	37
VX 8025 M185-4	80	905	477	110	280	400	197	37
VX 10025 M185-4	100	950	510	145	300	420	210	45
VX 10024 M55-4	100	630	435	130	250	375	185	57
VX 10024 M75-4	100	750	435	130	250	375	185	57
VX 10025 M110-4	100	795	510	145	300	420	210	45
VX 10025 M150-4	100	950	510	145	300	420	210	45
VX 15032 M150-4	150	1067	625	260	355	530	270	130
VX 15032 M185-4	150	1067	625	260	355	530	270	130
VX 15032 M220-4	150	1142	625	260	355	530	270	130
VX 15032 M300-4	150	1200	625	260	355	530	270	130
VX 15032 M370-4	150	1200	625	260	355	530	270	130