

ANAVALOS Submersible Wastewater Sewage Pump Type DC Double Channel Impeller

Applications

Submersible sewage pumps DC with double channel impeller have been designed for handling effluent or sewage, for considerably medium head and high capacity, in municipal pumping stations. These pumps 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. DC 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.

Double channel impellers are perfectly balanced and designed for high efficiency and long-lasting performance

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 DC 10032 M110-4

DC: Pump series, double channel impeller
 100: Discharge outlet DN 100
 32: Impeller type (19 or 24 or 25 or 32)
 M: Motor
 110: 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

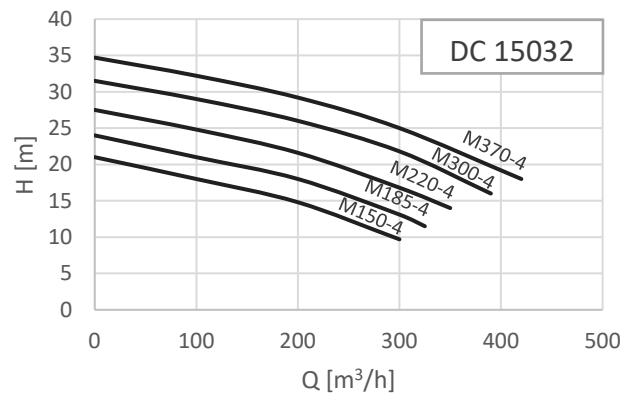
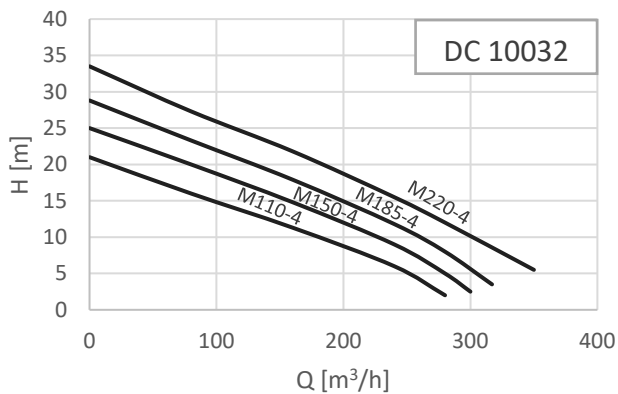
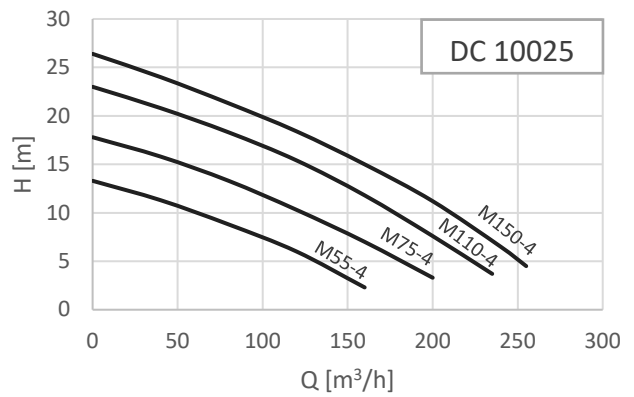
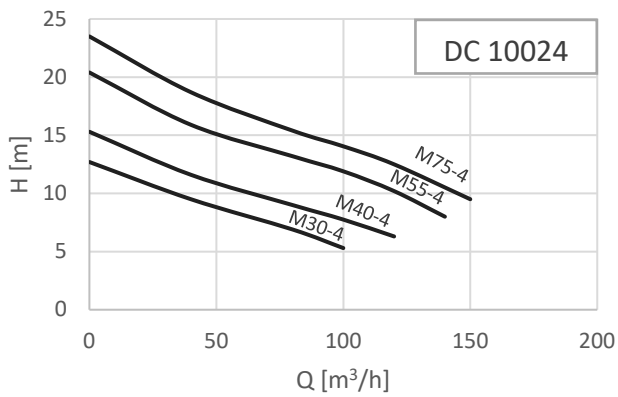
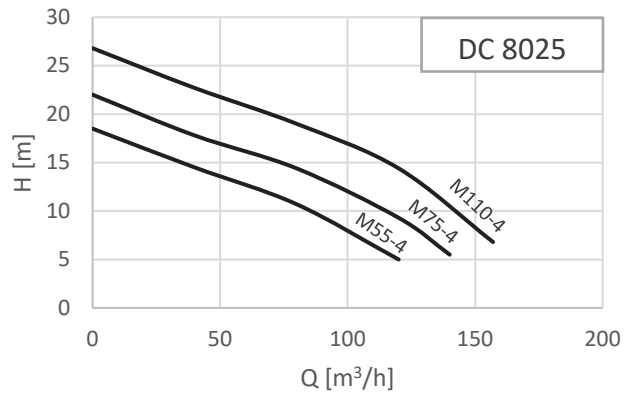
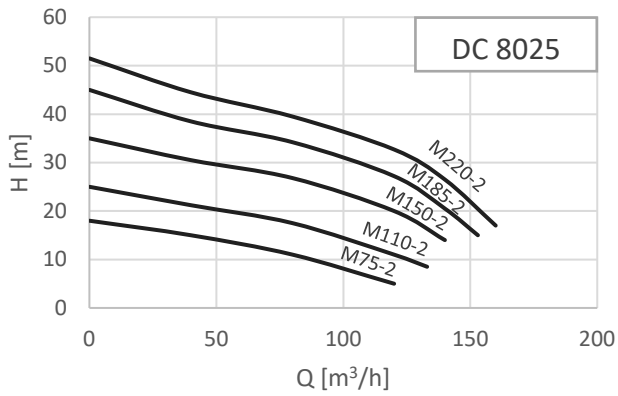
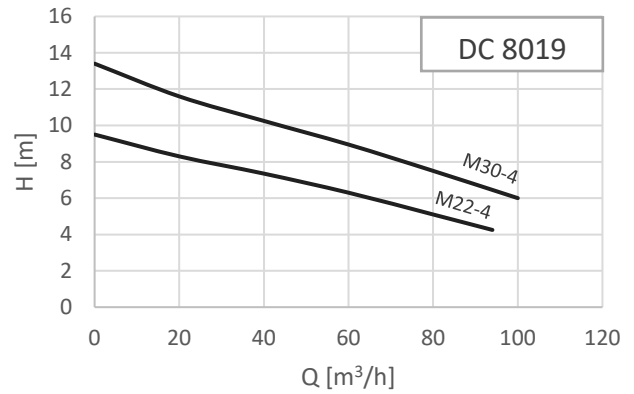
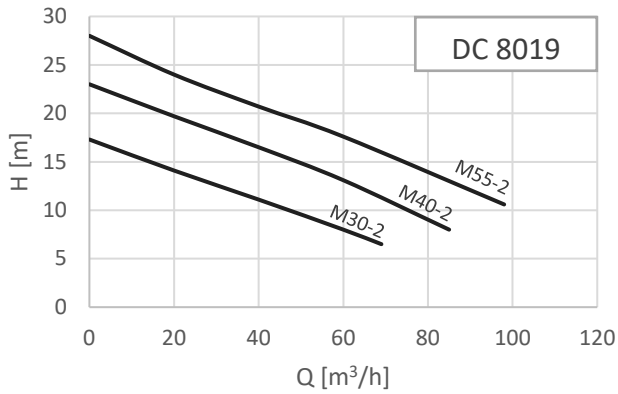
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Technical Data

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]
DC 8019 M30-2	DN80	32	3	6	400	2900	4G1.5+3G1.5
DC 8019 M40-2	DN80	32	4	7.1	400	2900	4G1.5+3G1.5
DC 8019 M55-2	DN80	32	5.5	10.9	400	2900	4G2.5+3G1.5
DC 8019 M22-4	DN80	64	2.2	4.7	400	1450	4G1.5+3G1.5
DC 8019 M30-4	DN80	64	3	6.5	400	1450	4G1.5+3G1.5
DC 8025 M75-2	DN80	42	7.5	13.8	400	2900	4G2.5+3G1.5
DC 8025 M110-2	DN80	42	11	20	400	2900	7G4+3G1.5
DC 8025 M150-2	DN80	42	15	26.9	400	2900	7G4+3G1.5
DC 8025 M185-2	DN80	42	18.5	33.2	400	2900	7G4+3G1.5
DC 8025 M220-2	DN80	42	22	38	400	2900	8G6+3G1.5
DC 8025 M55-4	DN80	42	5.5	10.9	400	1450	4G2.5+3G1.5
DC 8025 M75-4	DN80	42	7.5	15.1	400	1450	4G2.5+3G1.5
DC 8025 M110-4	DN80	42	11	21.1	400	1450	7G4+3G1.5
DC 10024 M30-4	DN100	50	3	6.5	400	1450	4G1.5+3G1.5
DC 10024 M40-4	DN100	50	4	8.1	400	1450	4G1.5+3G1.5
DC 10024 M55-4	DN100	50	5.5	10.9	400	1450	4G2.5+3G1.5
DC 10024 M75-4	DN100	50	7.5	15.1	400	1450	4G2.5+3G1.5
DC 10025 M55-4	DN100	68	5.5	10.9	400	1450	4G2.5+3G1.5
DC 10025 M75-4	DN100	68	7.5	15.1	400	1450	4G2.5+3G1.5
DC 10025 M110-4	DN100	68	11	21.1	400	1450	7G4+3G1.5
DC 10025 M150-4	DN100	68	15	28.7	400	1450	7G4+3G1.5
DC 10032 M110-4	DN100	68	11	21.1	400	1450	7G4+3G1.5
DC 10032 M150-4	DN100	68	15	28.7	400	1450	7G4+3G1.5
DC 10032 M185-4	DN100	68	18.5	34.5	400	1450	7G4+3G1.5
DC 10032 M220-4	DN100	68	22	41.7	400	1450	8G6+3G1.5
DC 15032 M150-4	DN150	78	15	28.7	400	1450	7G4+3G1.5
DC 15032 M185-4	DN150	78	18.5	34.5	400	1450	7G4+3G1.5
DC 15032 M220-4	DN150	78	22	41.7	400	1450	8G6+3G1.5
DC 15032 M300-4	DN150	78	30	54.5	400	1450	8G6+3G1.5
DC 15032 M370-4	DN150	78	37	66.8	400	1450	8G6+3G1.5

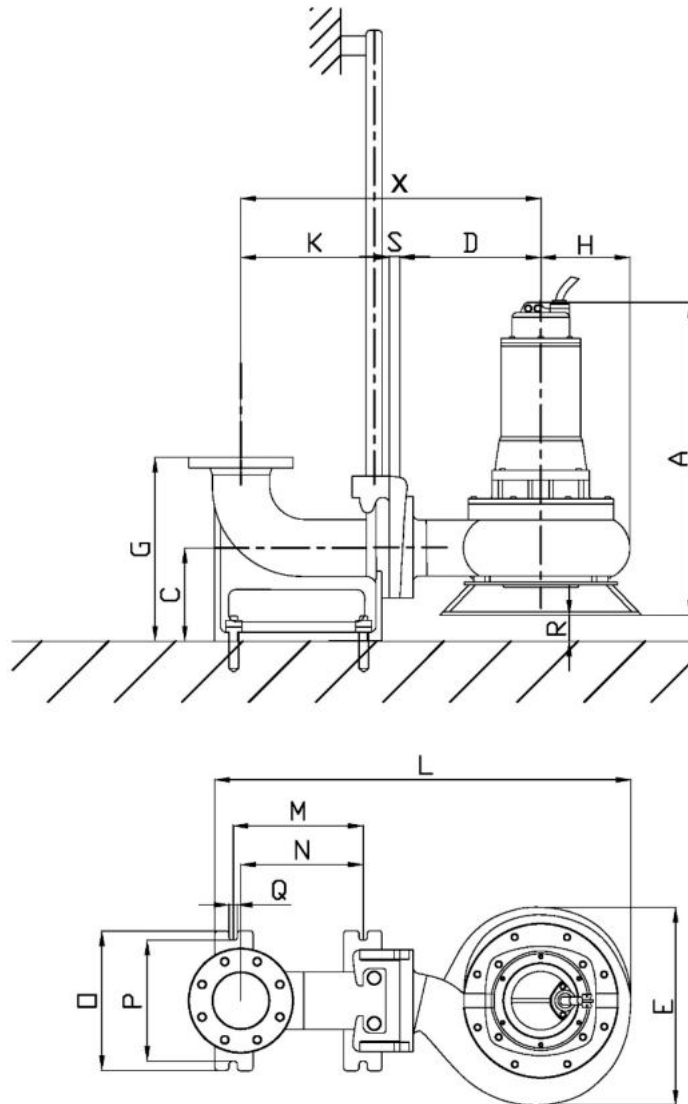
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Performance curves at 1450 and 2900 r.p.m.



**ANAVALOS Submersible Wastewater
Sewage Pump Type DC**

Installation dimension auto coupling with guide rail system



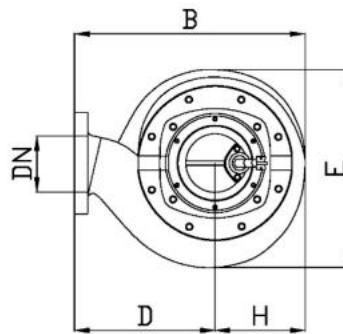
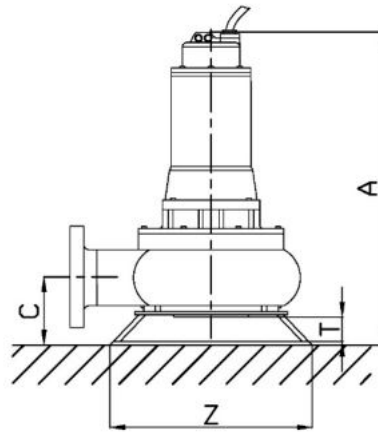
ANAVALOS Submersible Wastewater Sewage Pump Type DC

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]																
DC 8019 M30-2	570	100	200	300	337	157	275	710	220	217	250	220	16	124	25	500
DC 8019 M40-2	570	100	200	300	337	157	275	710	220	217	250	220	16	124	25	500
DC 8019 M55-2	605	100	200	300	337	157	275	710	220	217	250	220	16	124	25	500
DC 8019 M22-4	570	100	200	300	337	157	275	710	220	217	250	220	16	124	25	500
DC 8019 M30-4	570	100	200	300	337	157	275	710	220	217	250	220	16	124	25	500
DC 8025 M75-2	650	110	280	400	337	197	275	830	220	217	200	220	16	102	25	587
DC 8025 M110-2	750	110	280	400	337	197	275	830	220	217	200	220	16	102	25	587
DC 8025 M150-2	805	110	280	400	337	197	275	830	220	217	200	220	16	102	25	587
DC 8025 M185-2	905	110	280	400	337	197	275	830	220	217	200	220	16	102	25	587
DC 8025 M220-2	905	110	280	400	337	197	275	830	220	217	200	220	16	102	25	587
DC 8025 M55-4	630	110	280	400	337	197	275	830	220	217	200	220	16	102	25	587
DC 8025 M75-4	750	110	280	400	337	197	275	830	220	217	200	220	16	102	25	587
DC 8025 M110-4	750	110	280	400	337	197	275	830	220	217	200	220	16	102	25	587
DC 10024 M30-4	593	130	250	375	393	185	317	835	275	259	300	260	16	127	25	592
DC 10024 M40-4	630	130	250	375	393	185	317	835	275	259	300	260	16	127	25	592
DC 10024 M55-4	630	130	250	375	393	185	317	835	275	259	300	260	16	127	25	592
DC 10024 M75-4	750	130	250	375	393	185	317	835	275	259	300	260	16	127	25	592
DC 10025 M55-4	675	145	300	420	393	210	317	910	275	259	300	260	16	90	25	642
DC 10025 M75-4	795	145	300	420	393	210	317	910	275	259	300	260	16	90	25	642
DC 10025 M110-4	795	145	300	420	393	210	317	910	275	259	300	260	16	90	25	642
DC 10025 M150-4	950	145	300	420	393	210	317	910	275	259	300	260	16	90	25	642
DC 10032 M110-4	905	235	315	497	393	250	317	965	275	259	300	260	16	90	25	657
DC 10032 M150-4	1025	235	315	497	393	250	317	965	275	259	300	260	16	90	25	657
DC 10032 M185-4	1025	235	315	497	393	250	317	965	275	259	300	260	16	90	25	657
DC 10032 M220-4	1110	235	315	497	393	250	317	965	275	259	300	260	16	90	25	657
DC 15032 M150-4	1067	260	355	530	410	270	331	1025	275	274	340	300	16	90	25	711
DC 15032 M185-4	1067	260	355	530	410	270	331	1025	275	274	340	300	16	90	25	711
DC 15032 M220-4	1142	260	355	530	410	270	331	1025	275	274	340	300	16	90	25	711
DC 15032 M300-4	1200	260	355	530	410	270	331	1025	275	274	340	300	16	90	25	711
DC 15032 M370-4	1200	260	355	530	410	270	331	1025	275	274	340	300	16	90	25	711

ANAVALOS Submersible Wastewater Sewage Pump Type DC

Pump Dimension



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Pump Dimension

Type	DN	A	B	C	D	E	H	T	Z
[mm]									
DC 8019 M30-2	80	570	357	100	200	300	157	38,5	
DC 8019 M40-2	80	570	357	100	200	300	157	38,5	
DC 8019 M55-2	80	605	357	100	200	300	157	38,5	
DC 8019 M22-4	80	570	357	100	200	300	157	38,5	
DC 8019 M30-4	80	570	357	100	200	300	157	38,5	
DC 8025 M75-2	80	650	477	110	280	400	197	37	
DC 8025 M110-2	80	750	477	110	280	400	197	37	
DC 8025 M150-2	80	805	477	110	280	400	197	37	
DC 8025 M185-2	80	905	477	110	280	400	197	37	
DC 8025 M220-2	80	905	477	110	280	400	197	37	
DC 8025 M55-4	80	630	477	110	280	400	197	37	
DC 8025 M75-4	80	750	477	110	280	400	197	37	
DC 8025 M110-4	80	750	477	110	280	400	197	37	
DC 10024 M30-4	100	593	435	130	250	375	185	57	
DC 10024 M40-4	100	630	435	130	250	375	185	57	
DC 10024 M55-4	100	630	435	130	250	375	185	57	
DC 10024 M75-4	100	750	435	130	250	375	185	57	
DC 10025 M55-4	100	675	510	145	300	420	210	45	
DC 10025 M75-4	100	795	510	145	300	420	210	45	
DC 10025 M110-4	100	795	510	145	300	420	210	45	
DC 10025 M150-4	100	950	510	145	300	420	210	45	
DC 10032 M110-4	100	905	565	235	315	497	250	125	506
DC 10032 M150-4	100	1025	565	235	315	497	250	125	506
DC 10032 M185-4	100	1025	565	235	315	497	250	125	506
DC 10032 M220-4	100	1110	565	235	315	497	250	125	506
DC 15032 M150-4	150	1067	625	260	355	530	270	130	506
DC 15032 M185-4	150	1067	625	260	355	530	270	130	506
DC 15032 M220-4	150	1142	625	260	355	530	270	130	506
DC 15032 M300-4	150	1200	625	260	355	530	270	130	506
DC 15032 M370-4	150	1200	625	260	355	530	270	130	506