



Engineering Flow Solutions

SUBMERSIBLE SEWAGE PUMPS

Sidus

TECHNICAL CATALOGUE



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SIDUS. SUBMERSIBLE SEWAGE PUMPS

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SIDUS. SUBMERSIBLE SEWAGE PUMPS

The submersible sewage pumps of the Sidus series are designed for handling sewage and waste water as well as other non-aggressive fluids with density up to 1,250 kg/m³, pH value within the range of 5 – 12, with high content of solid particles of up to 160 mm size and long-fiber inclusions.

The pump is a monoblock unit consisting of a single-stage pump connected to a sealed electric motor separated by an oil chamber with a mechanical seal.

PUMP PROTECTION

- Bimetal sensors for electric motors winding temperature control
- Sensor for water ingress into the oil chamber
- Bearings temperature sensors (optional, available by request)

APPLICATION

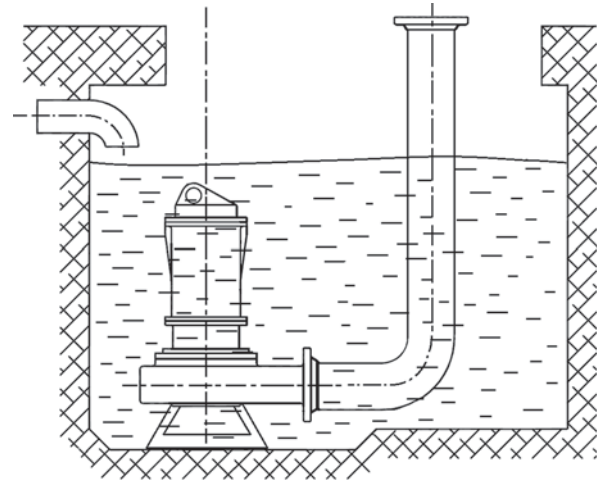
- Handling sewage water at industrial facilities and residential areas
- Flood and storm water drainage
- Handling drainage and sanitary sewage of underground facilities
- Drainage of foundation pits and trenches in industrial and civil construction
- Groundwater removal and drainage in agriculture
- Dewatering and drainage systems in mining industry
- Drainage of pits, septic tanks, sumps, reservoirs
- Regulation of water level in storage tanks, ponds
- Drainage of ponds, pools and cisterns

TECHNICAL DATA	
Capacity range	8 – 2,500 m ³ /h
Pressure head range	7 – 80 m
Max pumped fluid temperature	+ 80 °C
Pumped solids size	up to 160 mm
Rotation speed	750 – 3,000 rpm
Ingress protection code	IP68
Discharge nozzles diameters range	40 – 400 mm
Impeller types	<ul style="list-style-type: none"> ■ semi open ■ channel (single-blade, multi-blade) ■ free-vortex ■ semi-open rubberized
Impeller construction material	<ul style="list-style-type: none"> ■ grey cast iron ■ nodular cast iron ■ stainless steel ■ duplex steel (25% chromium) ■ rubberized grey cast iron
Shaft sealing	double mechanical
Mechanical seal friction materials	silicon carbide / silicon carbide

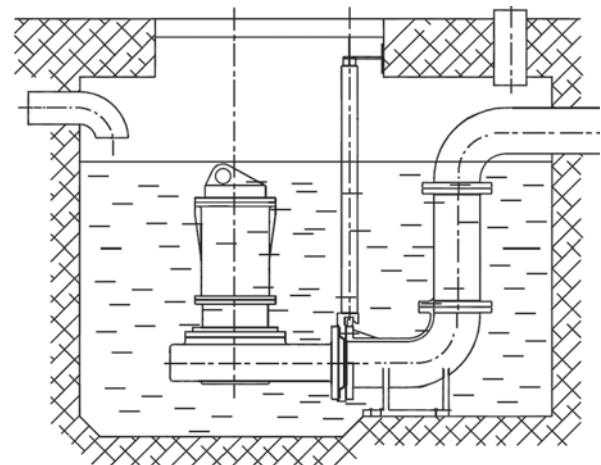
FEATURES & ADVANTAGES

- Submersible sewage pumps can be installed directly in the reservoir with the liquid to be pumped (in case of «wet» installation) or in the machinery hall of the pumping station (in case of «dry» installation). In the latter case, even if the machinery hall is flooded, the pumps can continue operation in the flooded area of the station
- The pumps have a monoblock design with a impeller mounted directly on the motor shaft that eliminates the need for a coupling and additional alignment of the both shafts. Factory alignment is ensured by precision manufacturing and assembly of parts and is maintained throughout the entire service life. Submersible monoblock pumps require virtually no maintenance
- The mechanical seals are placed in the oil chamber that prevents their damage when the pump is started in a «dry running» mode (without fluid in the flow path)
- The submersible pumps have a much lower noise level compared to surface pumps due to their placement in the pumped fluid that absorbs the sound or due to the sound absorption by the fluid in the motor cooling jacket at the pump «dry» installation
- The motor when submerged is cooled by the fluid being pumped and, in the dry installation, by the fluid circulating in the cooling jacket that provides more efficient cooling of the motor than by the air cooling fan
- The pumps are equipped with a lifting device with automatic pipe couplings for fast lifting and submerging into the reservoirs without additional tools
- The pumps are supplied with power supply cables designed for application in water with high content of solid mechanical impurities

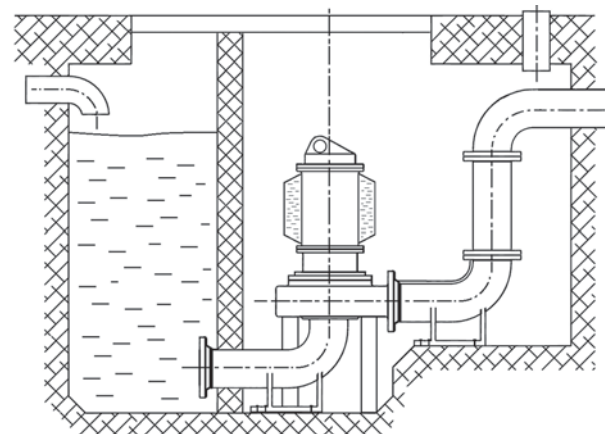
MOUNTING METHODS



Submersible mobile



Stationary submersible



Non-submersible («dry») stationary

PUMP SERIES DESIGNATION

Designation example:

SIDUS 4C-100/270-11-145N-G-S

Pump series

SIDUS 4C - 100 / 270 - 11 - 145N - G - S

Electric motor poles number:

2 – (3,000 rpm, 50 Hz) / (3,600 rpm, 60 Hz)

4 – (1,500 rpm, 50 Hz) / (1,800 rpm, 60 Hz)

6 – (1,000 rpm, 50 Hz) / (1,200 rpm, 60 Hz)

8 – (750 rpm, 50 Hz) / (900 rpm, 60 Hz)

Pump flow path:

A – semi open impeller

C – channel impeller

VT – free vortex impeller

OG – semi open impeller and flow path both rubberized

Discharge nozzle diameter, mm

Maximum impeller diameter, mm

Electric motor rated power, kW

Impeller type

Construction materials:

G – Grey cast iron; **S** – Stainless steel; **D** – Duplex steel

Installation:

P – mobile (without forced cooling)

F – mobile (with forced cooling)

S – stationary with a lifting device (without forced cooling)

K – stationary with a lifting device (with forced cooling)

V – stationary, non-submersible, vertical

H – stationary, non-submersible, horizontal

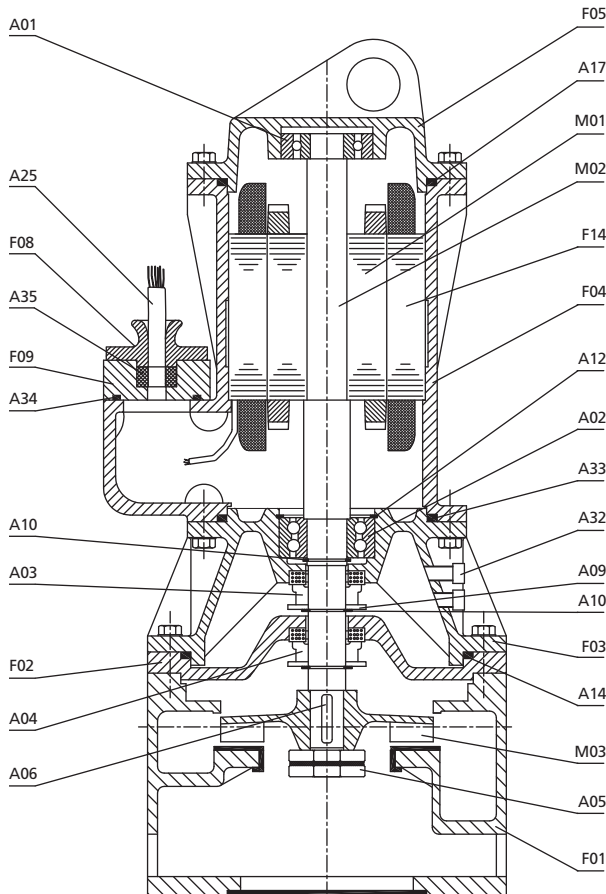
Electric Cables Application Depending on the Electric Motors Power

Power, kW	Rotation speed, rpm	Cable cross-section	Motor protection	Starting method	Voltage, V	Size
1.1-3	1,500 / 3,000	4x2.5	No protection	Direct-on-line	220 / 380	90 / 112
3-5.5	1,500 / 3,000	4x4	No protection	Direct-on-line	220 / 380	112
7.5-9.3	1,500 / 3,000	7x4	No protection	Star-delta	380 / 660	132
7.5-11	1,000	7x4	4x2.5	Star-delta	380 / 660	132
11.1-15	1,500	7x4	4x2.5	Star-delta	380 / 660	132
15-30	3,000	7x4	4x2.5	Star-delta	380 / 660	132
11.1-37	1,000	7x10	4x2.5	Star-delta	380 / 660	160 / 200
18.6-45	1,500	7x10	4x2.5	Star-delta	380 / 660	160 / 200
45	1,000	2 of 4x16	4x2.5	Star-delta	380 / 660	250
55	1,500	2 of 4x16	4x2.5	Star-delta	380 / 660	250
55-75	1,000	2 of 4x35	4x2.5	Star-delta	380 / 660	280
75-93	1,500	2 of 4x35	4x2.5	Star-delta	380 / 660	280
75-93	750 / 1,000	2 of 4x35	4x2.5	Star-delta	380 / 660	315
110	750 / 1,000 / 1,500	2 of 4x50	4x2.5	Star-delta	380 / 660	315
132-160	750 / 1,000 / 1,500	2 of 4x70	4x2.5	Star-delta	380 / 660	315 / 315L
200	750 / 1,000 / 1,500	2 of 4x95	4x2.5	Star-delta	380 / 660	315 / 315L

Type 2A

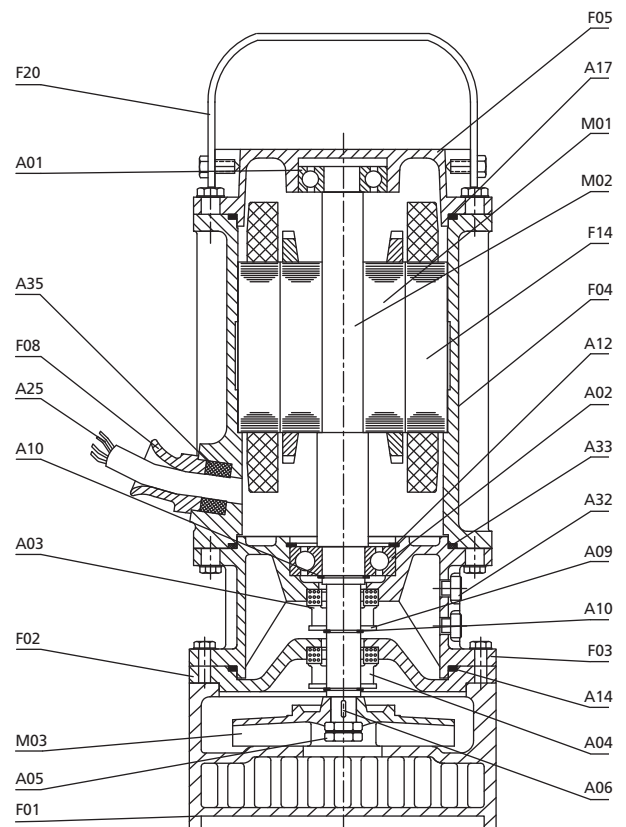
CROSS-SECTION DRAWING

SIDUS Pumps Type 2A (up to 3 kW)



M01	Rotor
M02	Shaft
M03	Impeller
F01	Pump Casing
F02	Pump Casing Cover
F03	Oil Chamber
F04	Motor Casing
F05	Motor Cover
F08	Cable Clamp
F09	Junction Box Cover
F14	Stator
F20	Handle
A01	Upper Bearing
A02	Lower Bearing

SIDUS Pumps Type 2A (over 4 kW)



A03	Upper Mechanical Seal
A04	Lower Mechanical Seal
A05	Impeller Nut
A06	Impeller Key
A09	Thrust Ring
A10	Snap Ring
A12	Bearing Clip Ring
A14	Oil Chamber O-Ring
A17	Motor Cover O-Ring
A25	Electric Cable
A32	Oil Level Plug
A33	Motor Casing O-Ring
A34	Junction Box O-ring
A35	Cable Entry Bushing

TECHNICAL DATA

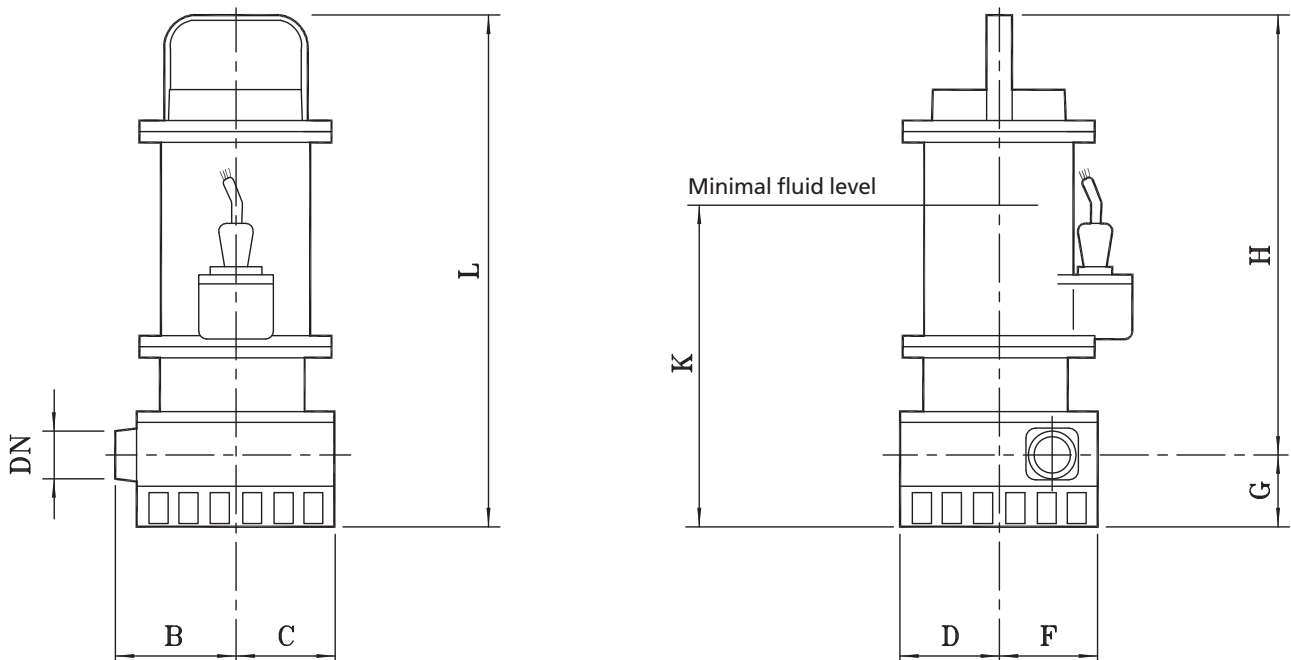
- Impeller type: semi open
- Capacity: up to 90 m³/h
- Head: up to 22 m

- Power: up to 5.5 kW
- Rotation speed: 2,900 rpm
- Solids size: up to 17 mm

Pump	Power, kW	Rated current at 380V	Rated voltage, V	Cos φ	Efficiency, %	Pump weight, kg*
2A-40/145-1.1	1.1	4.8	220 / 380	0.6	55	33
2A-40/145-1.5	1.5	5.2	220 / 380	0.75	60	33
2A-65/145-2.2	2.2	6	380 / 660	0.8	70	40
2A-65/145-3	3	6.6	380 / 660	0.86	79	40
2A-75/220-4	4	9.3	380 / 660	0.84	79	85
2A-75/220-5.5	5.5	12.3	380 / 660	0.85	80	85

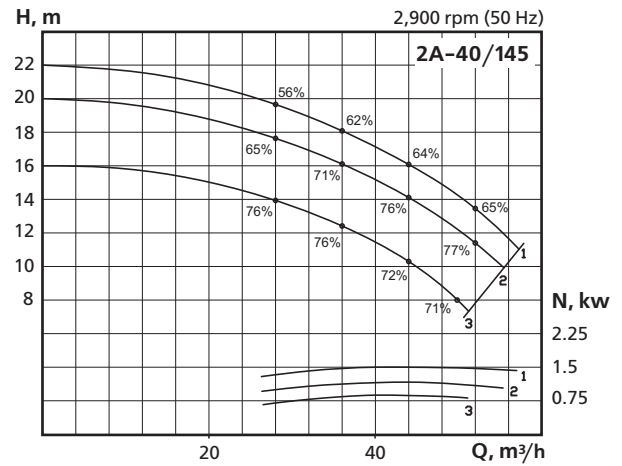
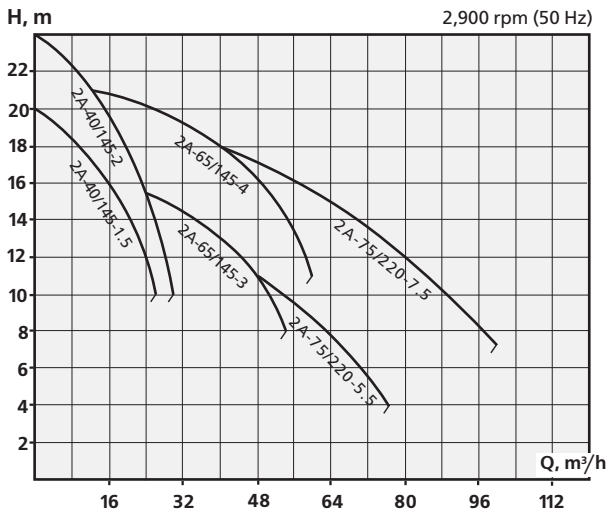
* Weight is given for pumps of grey cast iron (index «G» in pump designation)

OVERALL DIMENSIONS

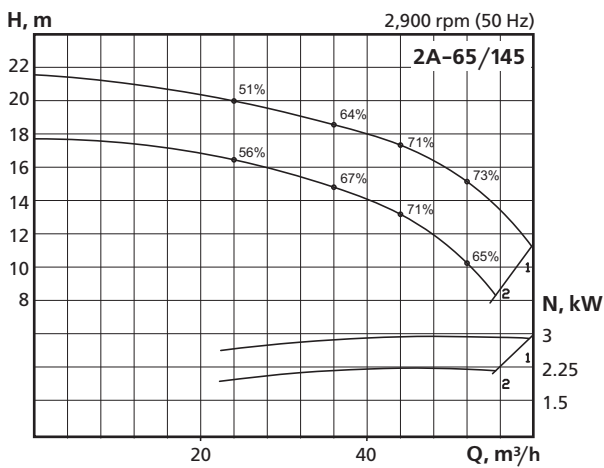


Pump	B	C	D	F	G	H	K	L	DN
2A-40/145-1.1	100	90	90	90	58	408	340	466	1 1/2"
2A-40/145-1.5	100	90	90	90	58	408	340	466	1 1/2"
2A-65/145-2.2	150	135	135	135	96	436	406	532	2 1/2"
2A-65/145-3	150	135	135	135	96	436	406	532	2 1/2"
2A-75/220-4	165	135	135	135	128	519	624	647	3"
2A-75/220-5.5	165	135	135	135	128	519	624	647	3"

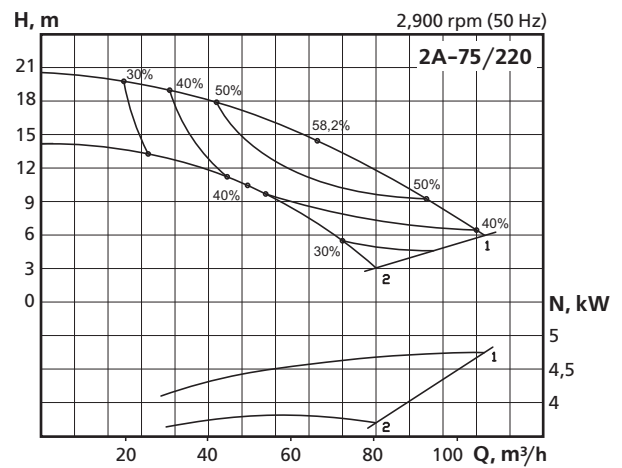
PERFORMANCE CURVES



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅142	175N	1.5	∅40	12
2	∅130		1.1		
3	∅115		1.1		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅144	84N	3	∅65	12
2	∅135		2.2		

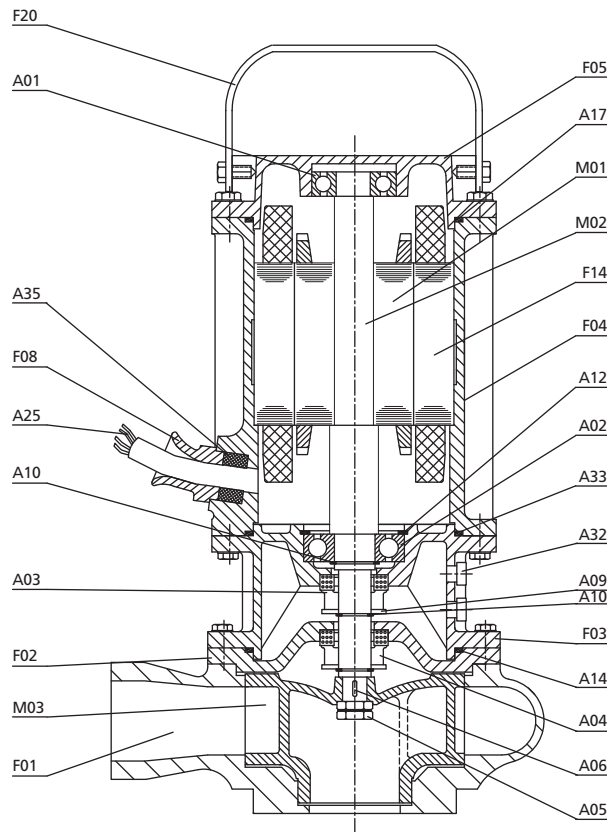


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅158	85N	5.5	∅75	17
2	∅140		4		

Type 2C

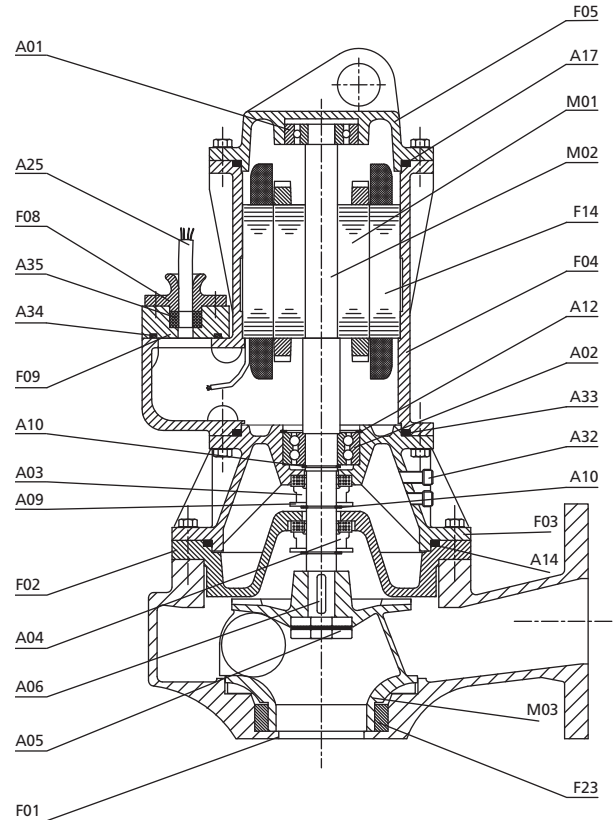
CROSS-SECTION DRAWING

SIDUS Pumps Type 2C (up to 3 kW)



M01	Rotor
M02	Shaft
M03	Impeller
F01	Pump Casing
F02	Pump Casing Cover
F03	Oil Chamber
F04	Motor Casing
F05	Motor Cover
F08	Cable Clamp
F09	Junction Box Cover
F14	Stator
F20	Handle
F23	Wearing Ring
A01	Upper Bearing

SIDUS Pumps Type 2C (over 4 kW)



A02	Lower Bearing
A03	Upper Mechanical Seal
A04	Lower Mechanical Seal
A05	Impeller Nut
A06	Impeller Key
A09	Thrust Ring
A10	Snap Ring
A12	Bearing Clip Ring
A14	Oil Chamber O-Ring
A17	Motor Cover O-Ring
A25	Electric Cable
A32	Oil Level Plug
A33	Motor Casing O-Ring
A34	Junction Box O-ring
A35	Cable Entry Bushing

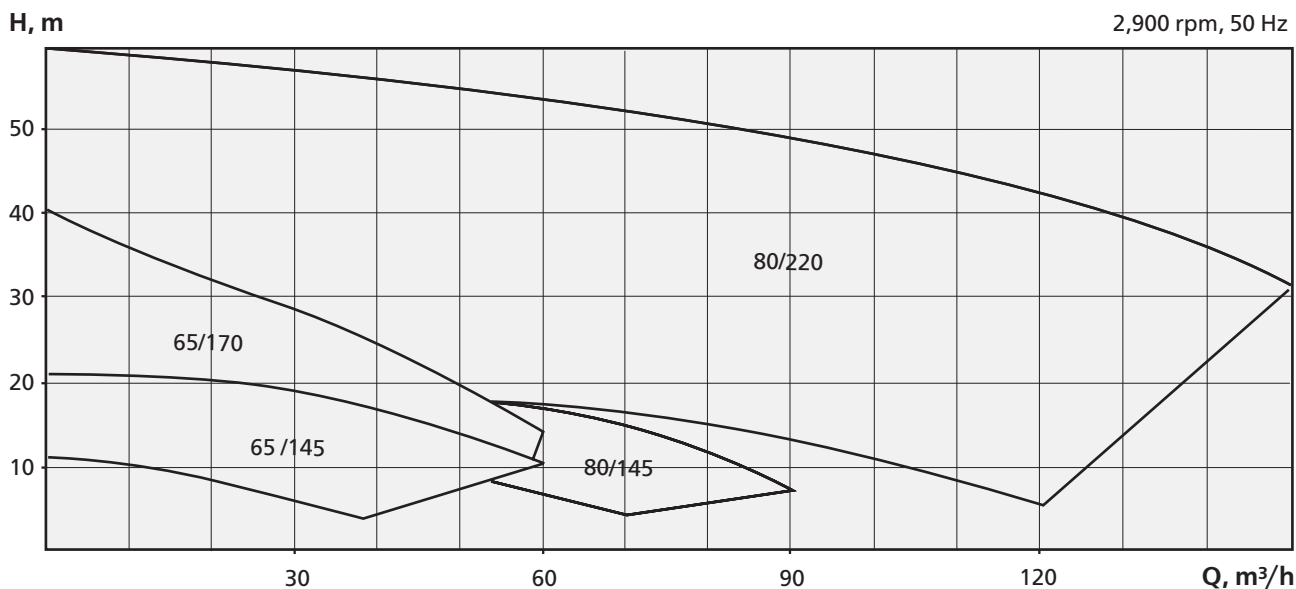
TECHNICAL DATA

- Impeller type: channel
- Capacity: up to 140 m³/h
- Head: up to 70 m
- Power: up to 22 kW
- Rotation speed: 2,900 rpm
- Solids size: up to 65 mm

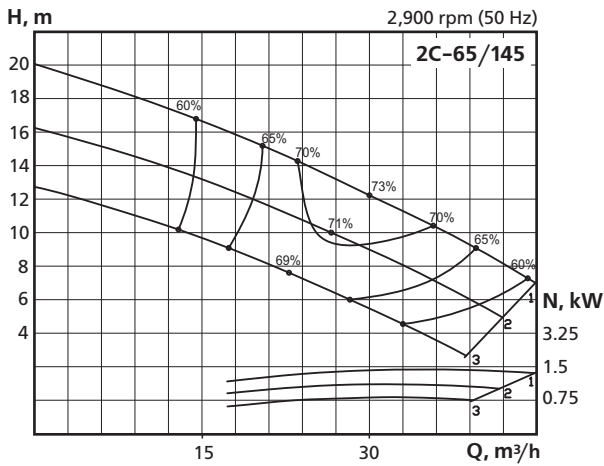
Pump	Power, kW	Rated current at 380V	Rated voltage, V	Cos φ	Motor efficiency, %	Pump weight*, kg	Base weight, kg*
2C-65/145-1.1	1.1	4.8	220 / 380	0.6	55	32	30
2C-65/145-1.5	1.5	5.2	220 / 380	0.75	60	32	30
2C-65/145-2.2	2.2	6	220 / 380	0.8	70	34	30
2C-65/145-3	3	6.6	220 / 380	0.86	79	34	30
2C-65/170-4	4	9.3	220 / 380	0.84	79	84	30
2C-65/170-5.5	5.5	12.3	220 / 380	0.85	80	84	30
2C-65/220-9.2	9.2	19	380 / 660	0.87	84	122	30
2C-65/220-11	11	25	380 / 660	0.81	83	131	30
2C-65/220-15	15	30	380 / 660	0.88	85	131	30
2C-65/220-18.5	18.5	40	380 / 660	0.83	84	140	30
2C-80/145-2.2	2.2	6	220 / 380	0.8	70	45	43
2C-80/145-3	3	6.6	220 / 380	0.86	79	45	43
2C-80/145-4	4	9.3	220 / 380	0.84	79	81	43
2C-80/145-5.5	5.5	12.3	220 / 380	0.85	80	81	43
2C-80/220-7.5	7.5	17	380 / 660	0.82	81	146	56
2C-80/220-9.2	9.2	19	380 / 660	0.87	84	146	56
2C-80/220-11	11	25	380 / 660	0.81	83	163	56
2C-80/220-15	15	30	380 / 660	0.88	85	163	56
2C-80/220-18.5	18.5	40	380 / 660	0.83	84	166	56
2C-80/220-22	22	45	380 / 660	0.88	85	172	56

* Weight is given for pumps of grey cast iron (index «G» in pump designation)

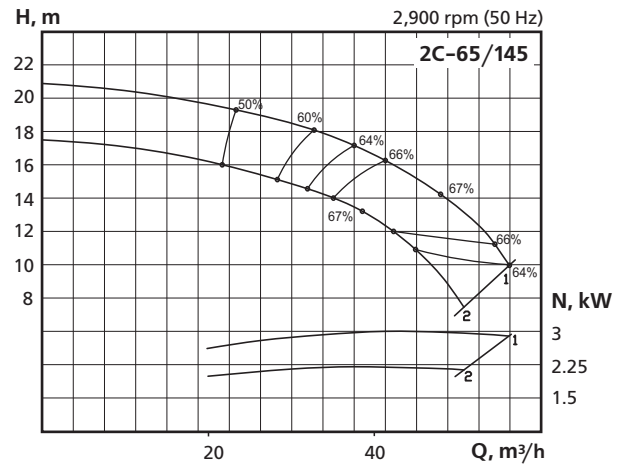
PERFORMANCE RANGE



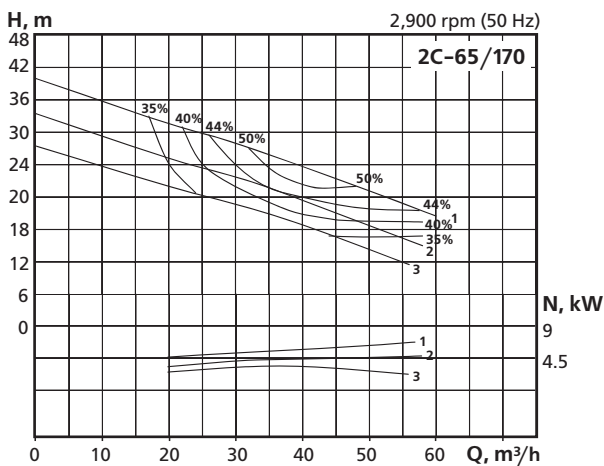
PERFORMANCE CURVES



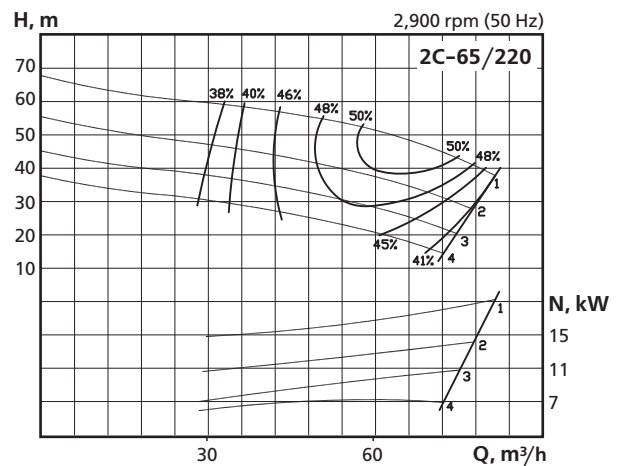
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅124	164 N	1.5	∅65	42
2	∅115		1.1		
3	∅105		1.1		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅145	179N	3	∅65	42
2	∅135		2.2		

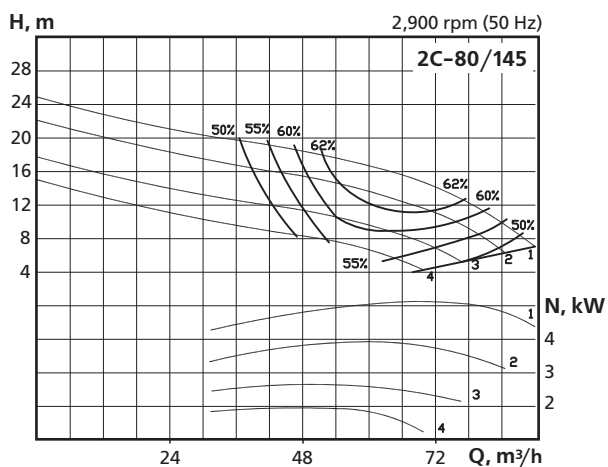


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅169	3164	5.5	∅65	42
2	∅155		5.5		
3	∅145		4		

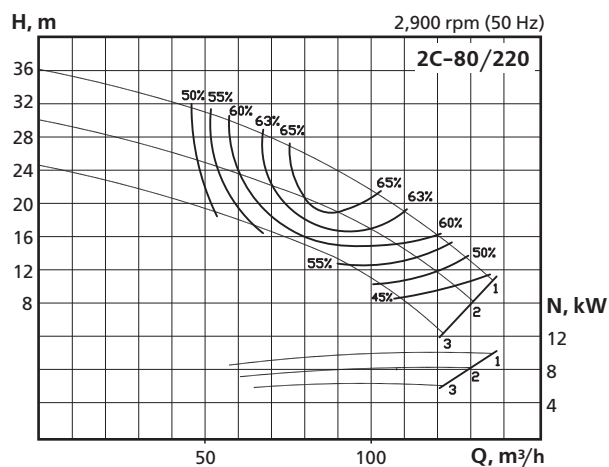


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅220	3178	18.5	∅65	32
2	∅200		15		
3	∅180		11		
4	∅160		9.2		

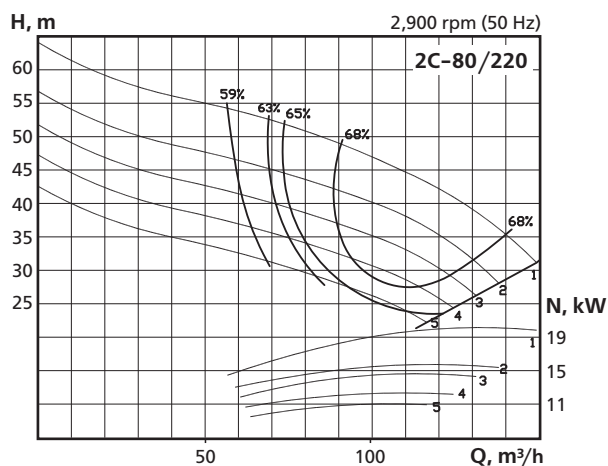
PERFORMANCE CURVES



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle \varnothing , mm	Solids size, mm
1	\varnothing 144	3093	5.5	80	65
2	\varnothing 135		4		
3	\varnothing 125		3		
4	\varnothing 115		2.2		

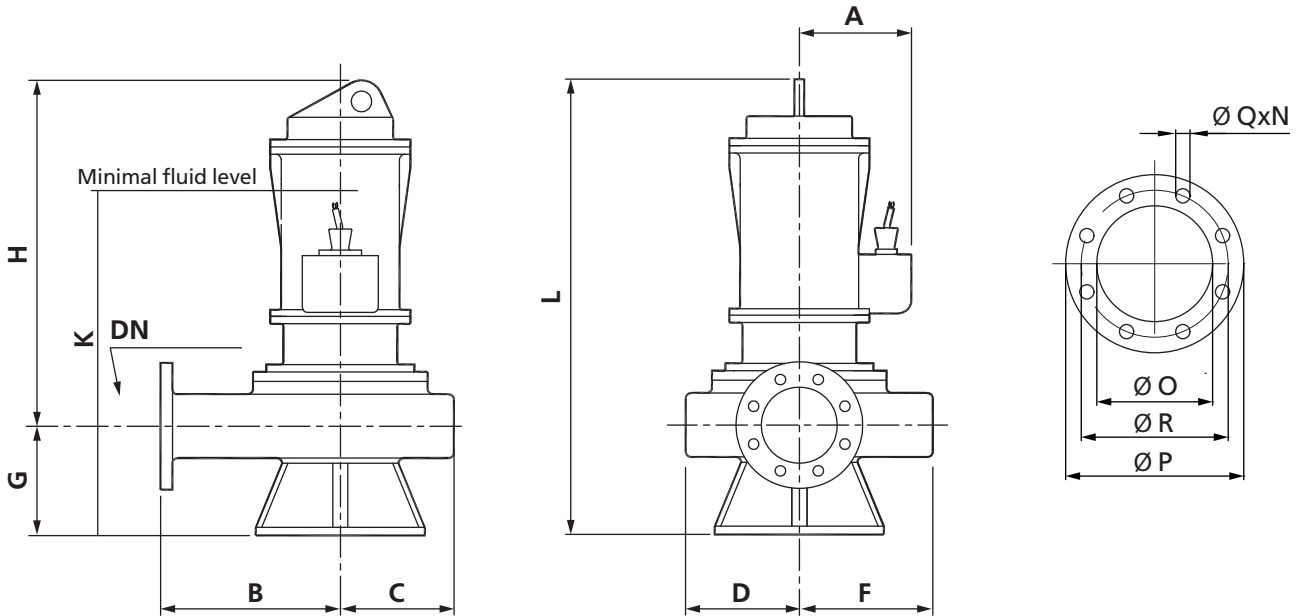


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	\varnothing 160	111N	11	\varnothing 80	50
2	\varnothing 150		9.2		
3	\varnothing 140		7.5		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	\varnothing 220	112N	22	\varnothing 80	35
2	\varnothing 210		18.5		
3	\varnothing 190		15		
4	\varnothing 180		15		
5	\varnothing 170		11		

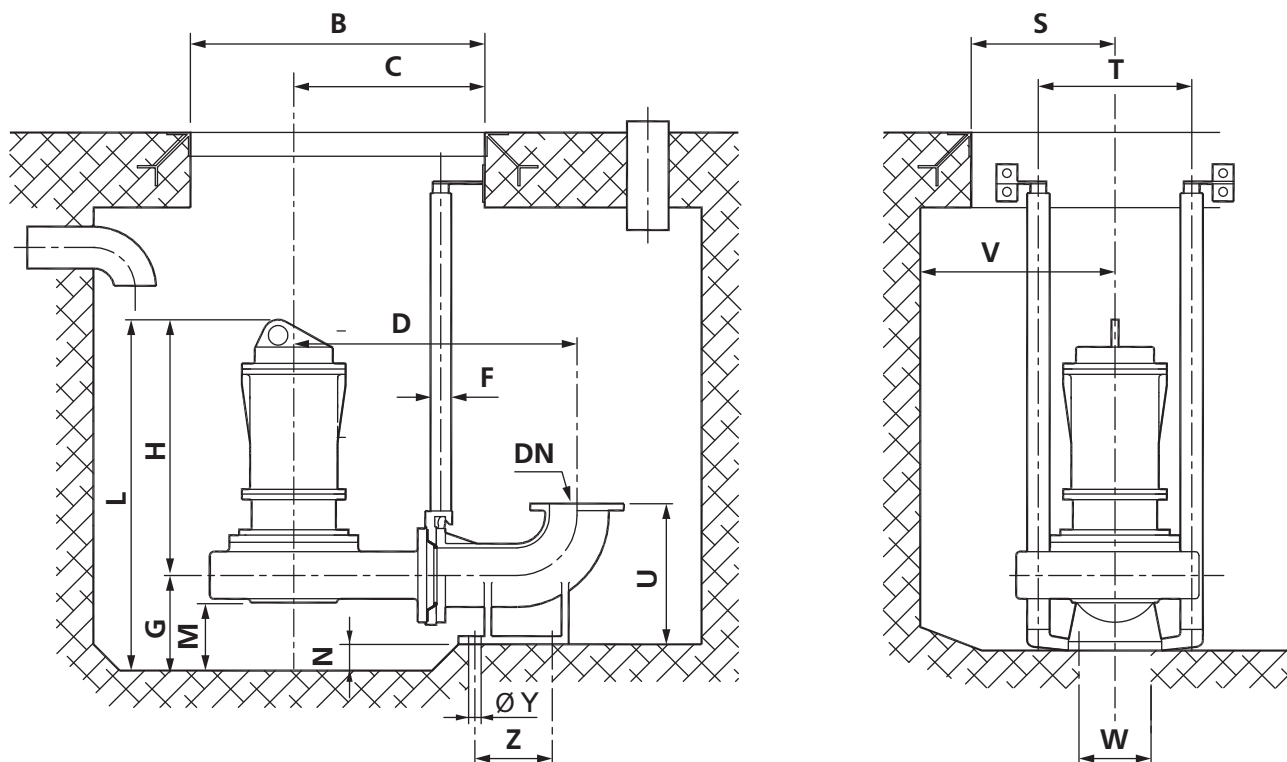
OVERALL DIMENSIONS



* Pump models 2C-65/145, 2C-65/170 and 2C-65/220 have a threaded nozzle.
 Models 2C-65/145 and 2C65/170 are available in versions with 65 mm flange diameter

Pump	Discharge Nozzle Ø	A	B	C	D	F	G	H	K	L	DN	O	P	R	Q	N
2C-65/145-1.1	2"	100	150	125	115	130	130	416	420	546	2"					
2C-65/145-1.5	2"	100	150	125	115	130	130	416	420	546	2"					
2C-65/145-2.2	2"	100	150	125	115	130	130	416	420	546	2"					
2C-65/145-3	2"	100	150	125	115	130	130	416	420	546	2"					
2C-65/170-4	2"	168	200	140	130	145	130	530	570	660	2"					
2C-65/170-5.5	2"	168	200	140	130	145	130	530	570	660	2"					
2C-65/220-9.2	2"	212	250	154	149	159	130	650	640	780	2"					
2C-65/220-11	2"	212	250	154	149	159	130	650	640	780	2"					
2C-65/220-15	2"	212	250	154	149	159	130	650	640	780	2"					
2C-65/220-18.5	2"	212	250	154	149	159	130	650	640	780	2"					
2C-80/145-2.2	80	100	190	100	98	108	145	445	470	590	80	80	200	160	18	8
2C-80/145-3	80	100	190	100	98	108	145	445	470	590	80	80	200	160	18	8
2C-80/145-4	80	168	190	100	98	108	145	537	578	682	80	80	200	160	18	8
2C-80/145-5.5	80	168	190	100	98	108	145	537	578	682	80	80	200	160	18	8
2C-80/220-7.5	80	212	250	155	145	165	210	631	715	841	80	80	220	180	18	8
2C-80/220-9.2	80	212	250	155	145	165	210	631	715	841	80	80	220	180	18	8
2C-80/220-11	80	212	250	155	145	165	210	631	715	841	80	80	220	180	18	8
2C-80/220-15	80	212	250	155	145	165	210	631	715	841	80	80	220	180	18	8
2C-80/220-18.5	80	212	250	155	145	165	210	631	715	841	80	80	220	180	18	8
2C-80/220-22	80	212	250	155	145	165	210	691	775	901	80	80	220	180	18	8

MOUNTING DIMENSIONS

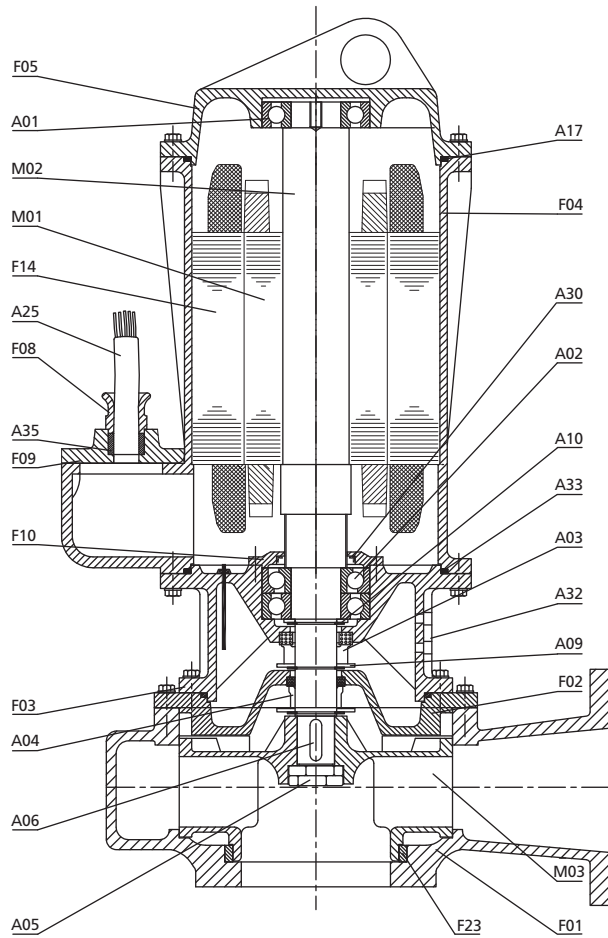


Pump	Discharge Nozzle Ø	L	G	H	B	C	D	DN	F	M	N	S	T	U	V	W	Y	Z
2C-65/145-1.1	65	546	130	416	470	291	454	65	1 1/2"	75	10	10	300	240	400	140	14	170
2C-65/145-1.5	65	546	130	416	470	291	454	65	1 1/2"	75	10	10	300	240	400	140	14	170
2C-65/145-2.2	65	546	130	416	470	291	454	65	1 1/2"	75	10	10	300	240	400	140	14	170
2C-65/145-3	65	546	130	416	470	291	454	65	1 1/2"	75	10	10	300	240	400	140	14	170
2C-65/170-4	65	660	130	530	500	291	515	65	1 1/2"	75	10	10	300	240	400	140	14	170
2C-65/170-5.5	65	660	130	530	500	291	515	65	1 1/2"	75	10	10	300	240	400	140	14	170
2C-65/220-9.2	65	780	130	650	600	371	534	65	1 1/2"	80	10	300	300	240	400	140	14	170
2C-65/220-11	65	780	130	650	600	371	534	65	1 1/2"	80	10	300	300	240	400	140	14	170
2C-65/220-15	65	780	130	650	600	371	534	65	1 1/2"	80	10	300	300	240	400	140	14	170
2C-65/220-18.5	65	780	130	650	600	371	534	65	1 1/2"	80	10	300	300	240	400	140	14	170
2C-80/145-2.2	80	590	145	445	500	345	515	80	1 1/2"	80	40	40	200	230	300	120	16	215
2C-80/145-3	80	590	145	445	500	345	515	80	1 1/2"	80	40	40	200	230	300	120	16	215
2C-80/145-4	80	682	145	537	500	345	515	80	1 1/2"	80	40	40	200	230	300	120	16	215
2C-80/145-5.5	80	682	145	537	500	345	515	80	1 1/2"	80	40	40	200	230	300	120	16	215
2C-80/220-7.5	80	841	210	631	630	370	590	80	1 1/2"	100	100	100	400	265	500	140	18	215
2C-80/220-9.2	80	841	210	631	630	370	590	80	1 1/2"	100	100	100	400	265	500	140	18	215
2C-80/220-11	80	841	210	631	630	370	590	80	1 1/2"	100	100	100	400	265	500	140	18	215
2C-80/220-15	80	841	210	631	630	370	590	80	1 1/2"	100	100	100	400	265	500	140	18	215
2C-80/220-18.5	80	841	210	631	630	370	590	80	1 1/2"	100	100	100	400	265	500	140	18	215
2C-80/220-22	80	841	210	691	630	370	590	80	1 1/2"	100	100	100	400	265	500	140	18	215

Types 4C, 6C, 8C

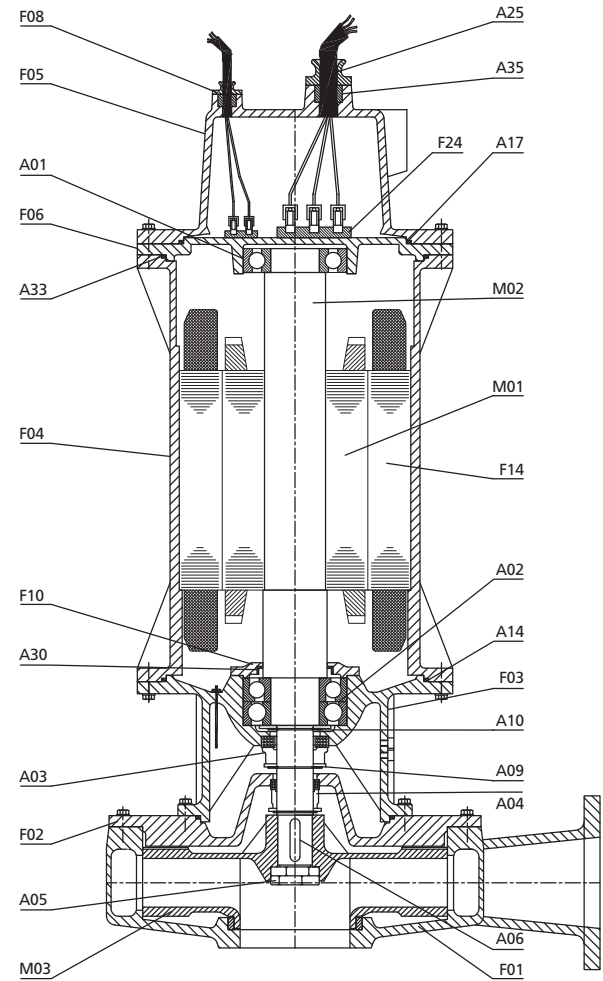
CROSS-SECTION DRAWING

SIDUS Pump Types 4C, 6C
(Nozzle diameter less 300 mm)



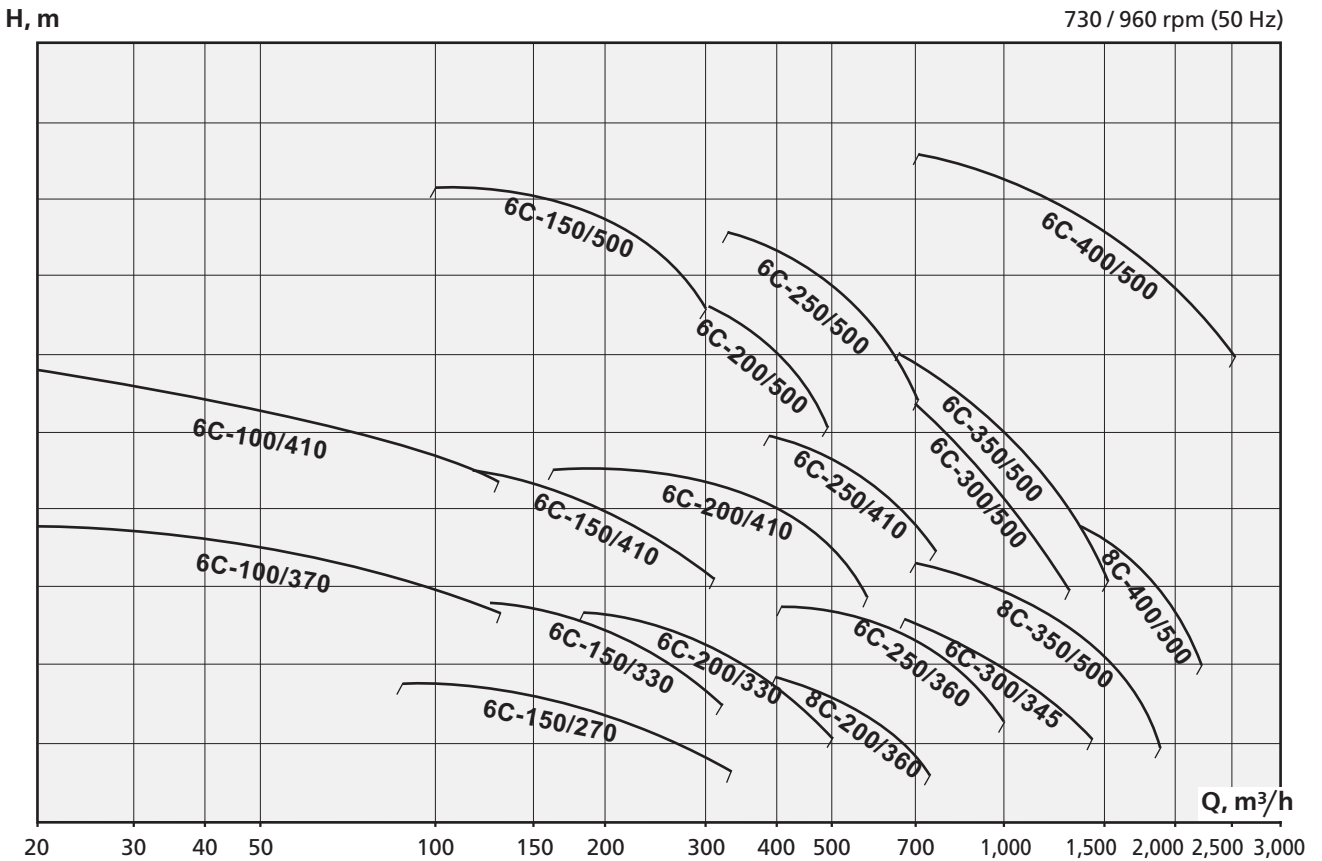
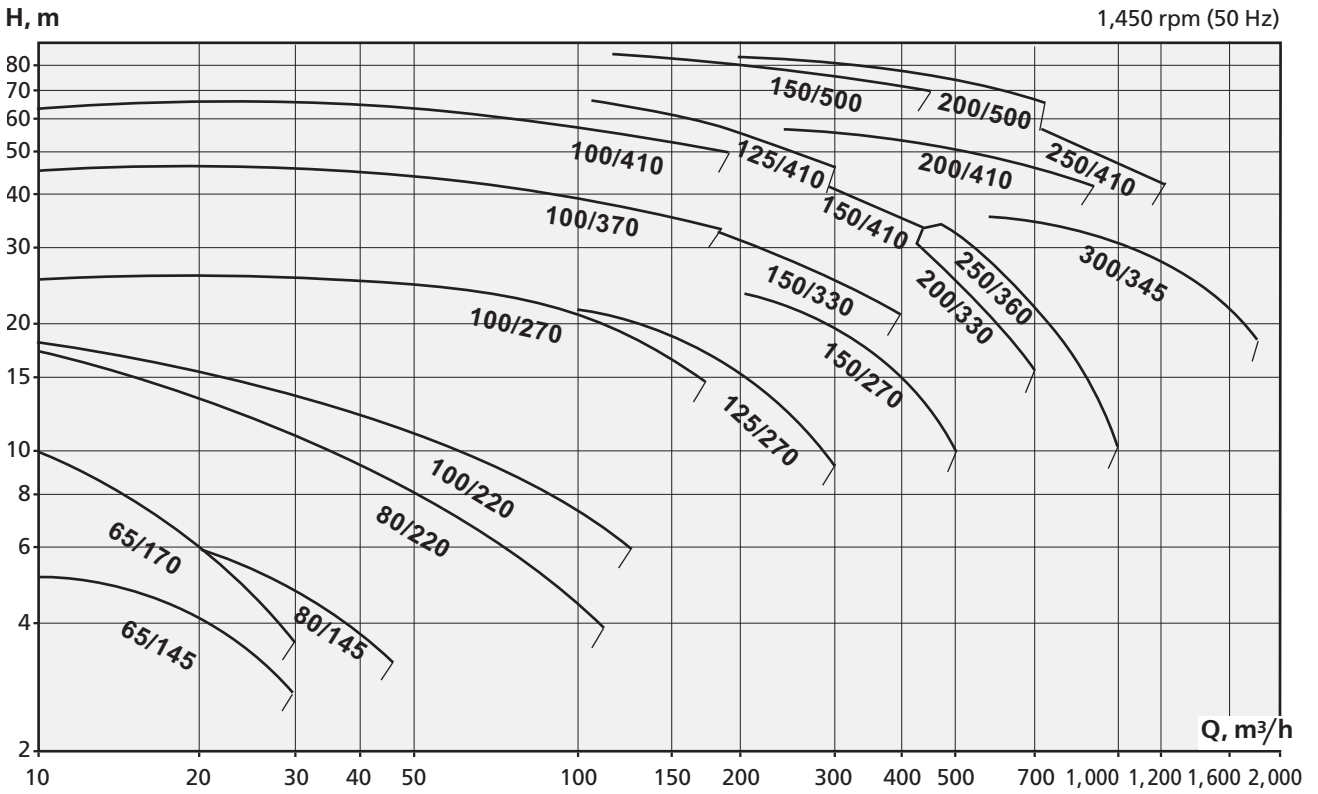
M01	Rotor
M02	Shaft
M03	Impeller
F01	Pump Casing
F02	Pump Casing Cover
F03	Oil Chamber
F04	Motor Casing
F05	Motor Cover
F06	Upper Bearing Housing
F08	Cable Clamp
F09	Junction Box Cover
F14	Stator
F23	Wearing Ring
F24	Junction Plate
A01	Upper Bearing

SIDUS Pump Types 4C, 6C, 8C
(Nozzle diameter over 300 mm)



A02	Lower Bearing
A03	Upper Mechanical Seal
A04	Lower Mechanical Seal
A05	Impeller Nut
A06	Impeller Key
A09	Thrust Ring
A10	Snap Ring
A12	Bearing Clip Ring
A14	Oil Chamber O-Ring
A17	Motor Cover O-Ring
A25	Electric Cable
A30	Collar
A32	Oil Level Plug
A33	Motor Casing O-ring
A35	Cable Entry Bushing

PERFORMANVE RANGE



Types 4C, 6C

Pumps with discharge nozzle diameter up to 125 mm

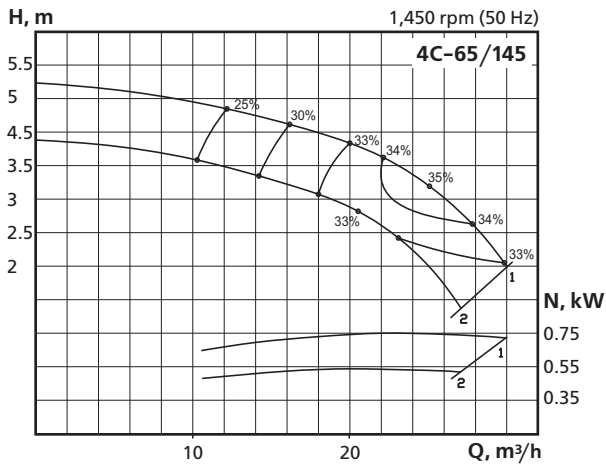
TECHNICAL DATA

- Capacity: up to 270 m³/h
- Head: up to 65 m
- Power: up to 55 kW
- Rotation speed: 960/1,450 rpm
- Impeller type: channel
- Solids size: up to 80 mm

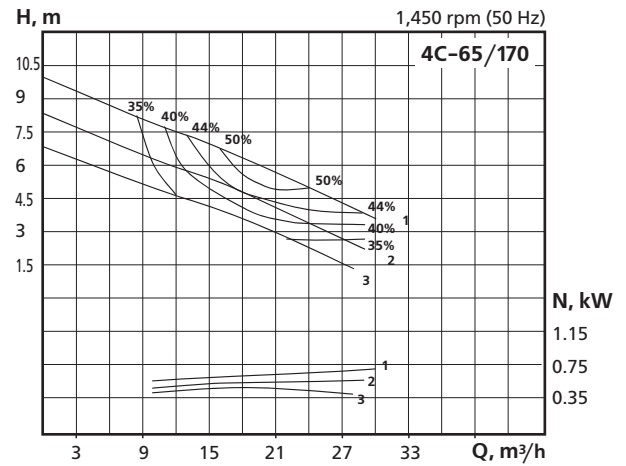
Pump	Power, kW	Rated current at 380V	Rated voltage, V	Cos φ	Motor efficiency, %	Pump weight, kg*	Base weight, kg*
4C-65/145-1.1	1.1	4.8	220 / 380	0.6	55	35	30
4C-65/170-1.1	1.1	4.8	220 / 380	0.6	55	55	30
4C-65/220-1.1	1.1	4.8	220 / 380	0.6	55	66	56
4C-65/220-1.5	1.5	5.2	220 / 380	0.75	60	66	56
4C-65/220-2.2	2.2	6	220 / 380	0.77	73	91	56
4C-65/220-3	3	7	220 / 380	0.83	77	91	56
4C-80/145-1.1	1.1	4.8	220 / 380	0.6	55	46	34
4C-80/220-1.5	1.5	5.2	220 / 380	0.75	60	81	56
4C-80/220-2.2	2.2	6	220 / 380	0.77	73	119	56
4C-80/220-3	3	7	220 / 380	0.83	77	106	56
4C-80/220-4	4	9.3	220 / 380	0.84	79	113	56
4C-80/220-5.5	5.5	12.3	220 / 380	0.86	79	113	56
4C-100/220-3	3	7	220 / 380	0.83	77	119	56
4C-100/220-4	4	9.3	220 / 380	0.84	79	121	56
4C-100/220-5.5	5.5	12.3	220 / 380	0.86	79	121	56
4C-100/270-7.5	7.5	17	380 / 660	0.81	82	175	56
4C-100/270-9.2	9.2	19	380 / 660	0.87	84	175	56
4C-100/270-11	11	25	380 / 660	0.79	85	192	56
4C-100/270-15	15	30	380 / 660	0.87	86	192	56
4C-100/370-18.5	18.5	40.2	380 / 660	0.82	85	236	56
4C-100/370-22	22	45.4	380 / 660	0.86	86	279	56
4C-100/370-30	30	60.5	380 / 660	0.86	86	289	56
4C-100/370-37	37	75	380 / 660	0.84	89	367	56
4C-100/410-45	45	90	380 / 660	0.83	90	444	56
4C-100/410-55	55	115	380 / 660	0.83	88	464	56
4C-125/270-9.2	9.2	19	380 / 660	0.87	84	175	75
4C-125/270-11	11	25	380 / 660	0.79	85	192	75
4C-125/270-15	15	30	380 / 660	0.87	86	192	75
4C-125/410-30	30	60.5	380 / 660	0.86	86	280	75
4C-125/410-37	37	75	380 / 660	0.84	89	459	75
4C-125/410-45	45	90	380 / 660	0.83	90	459	75
4C-125/410-55	55	115	380 / 660	0.83	88	479	75
6C-100/370-4	4	11.1	380 / 660	0.71	78	194	56
6C-100/370-5.5	5.5	14.4	380 / 660	0.73	80	194	56
6C-100/370-7.5	7.5	17.3	380 / 660	0.78	83	198	56
6C-100/370-9.2	9.2	22.8	380 / 660	0.74	83	204	56
6C-100/410-15	15	32.9	380 / 660	0.8	85	338	56
6C-100/410-18.5	18.5	41.2	380 / 660	0.8	85	338	56

* Weight is given for pumps of grey cast iron (index «G» in pump designation)

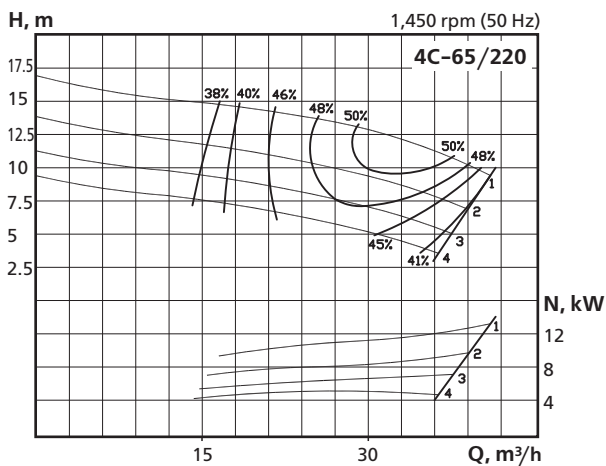
PERFORMANCE CURVES



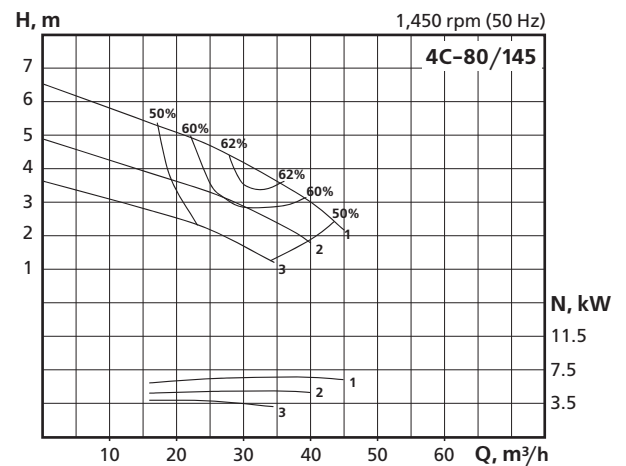
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅145	179N	1.1	∅65	42
2	∅135		1.1		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅169	3164	1.1	∅65	42
2	∅155		1.1		
3	∅145		1.1		

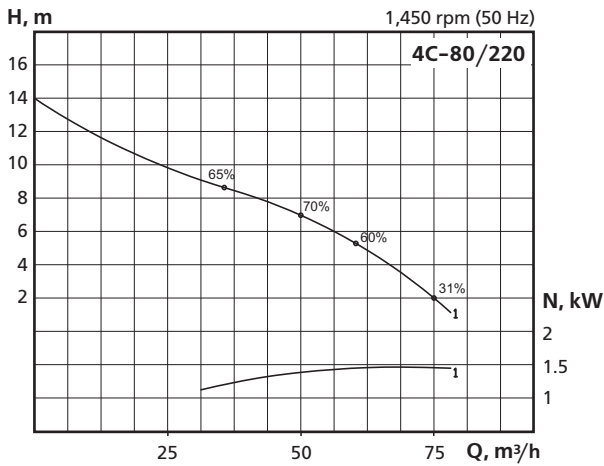


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅220	3178	3	∅65	32
2	∅200		2,2		
3	∅180		1,5		
4	∅160		1,1		

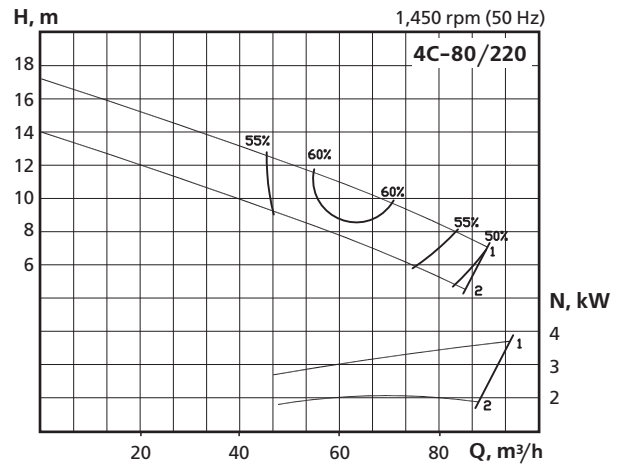


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅144	3093	1.1	∅80	65
2	∅145		1.1		
3	∅115		1.1		

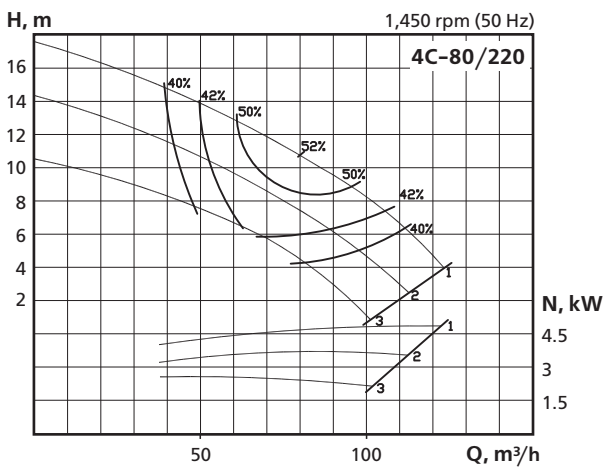
PERFORMANCE CURVES



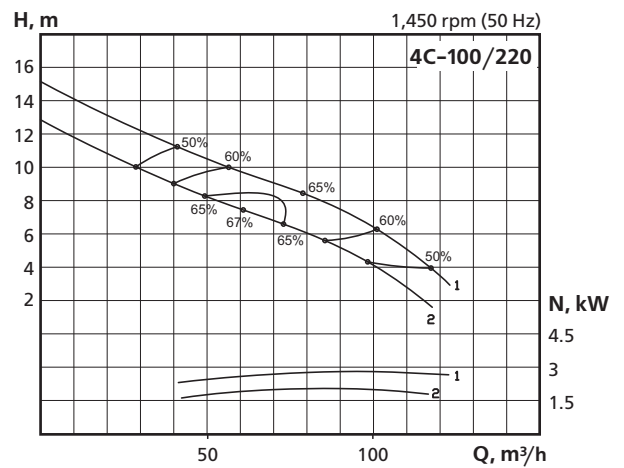
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅220	31N	1.5	∅80	60



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅220	3143	4	∅80	65
2	∅200		3		

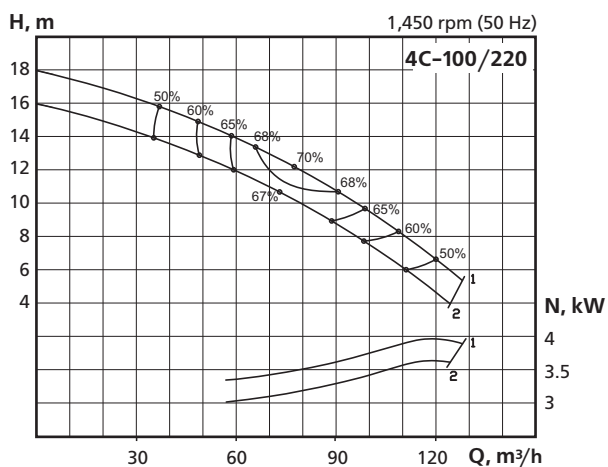


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅220	3039	5.5	∅80	55
2	∅200		4		
3	∅180		3		

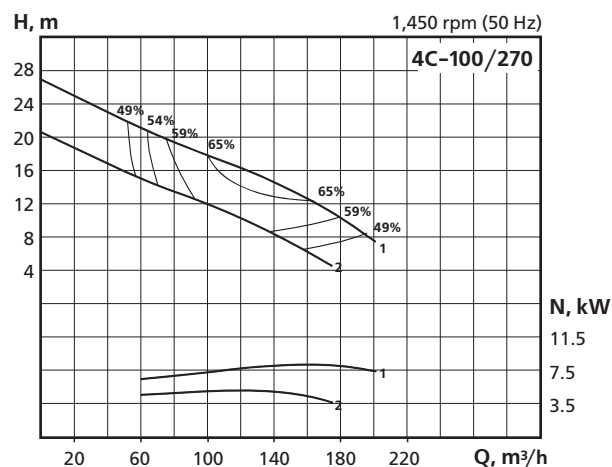


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅219	32N	3	∅100	80
2	∅200		2.2		

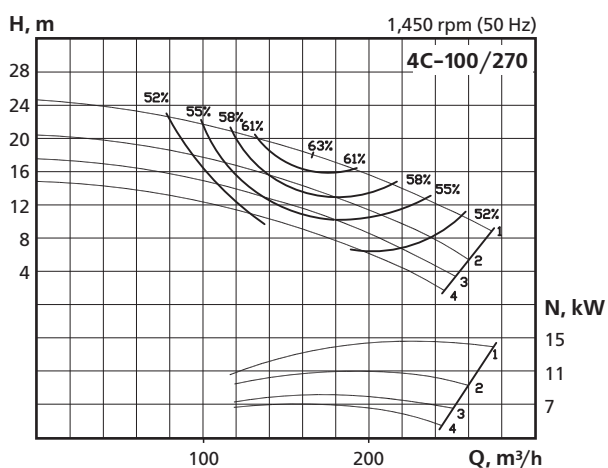
PERFORMANCE CURVES



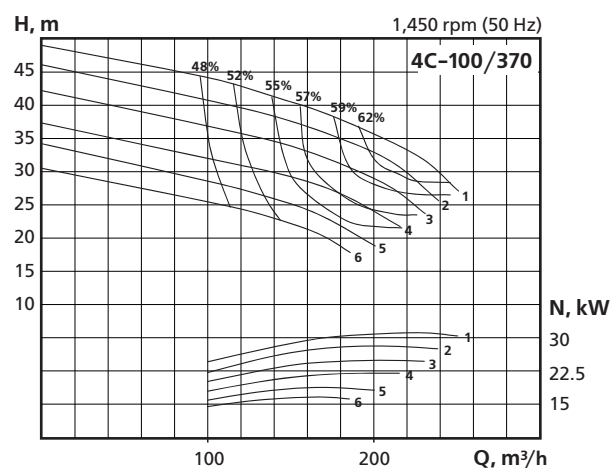
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅219	3126	5.5	∅100	80
2	∅200		4		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅269	3142	1.1	∅100	80
2	∅240		5.5		

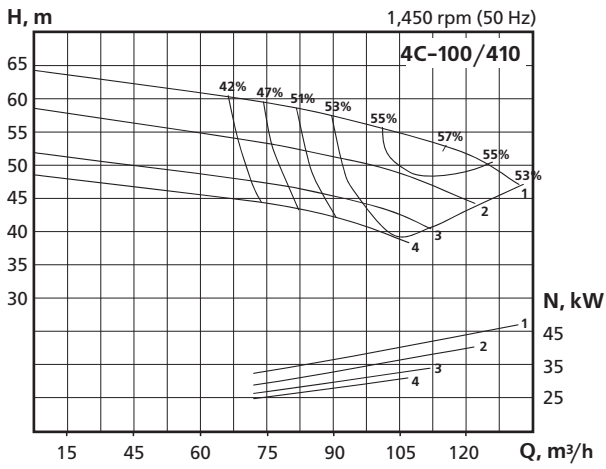


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅270	145N	15	∅100	80x65
2	∅248		11		
3	∅230		9.2		
4	∅215		7.5		

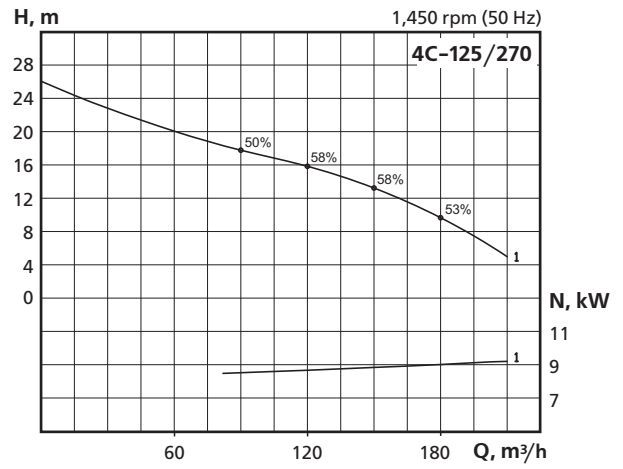


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅368	3092	37	∅100	80
2	∅350		30		
3	∅343		30		
4	∅325		22		
5	∅310		18.5		
6	∅300		18.5		

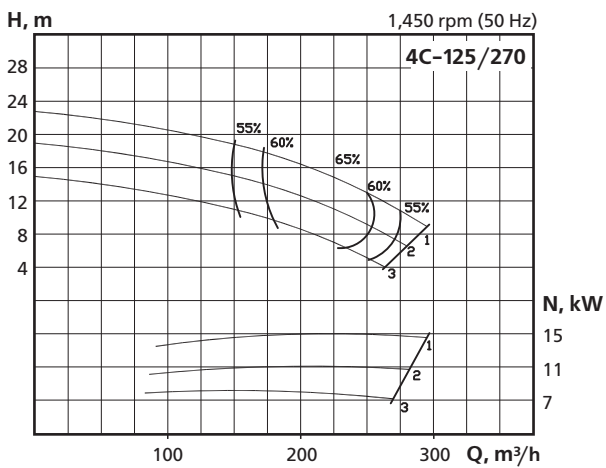
PERFORMANCE CURVES



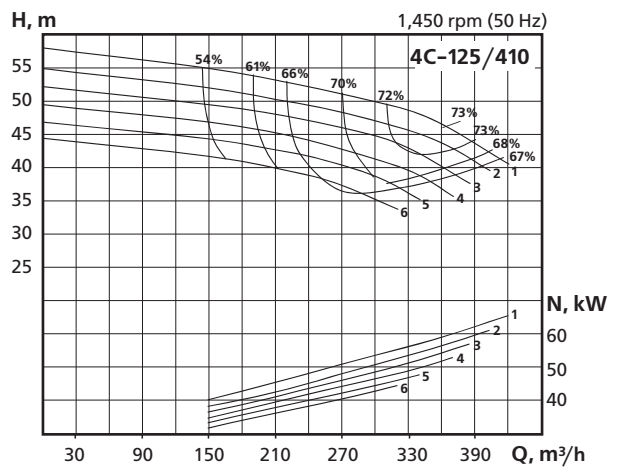
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅409	3125	55	∅100	75
2	∅400		45		
3	∅380		37		
4	∅370		37		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅270	3131	9.2	∅125	80

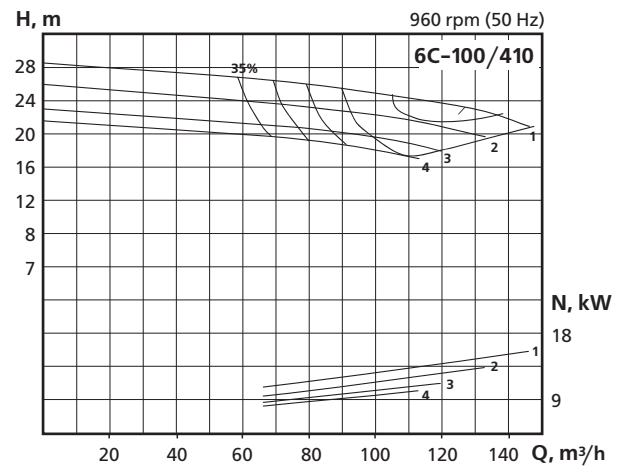
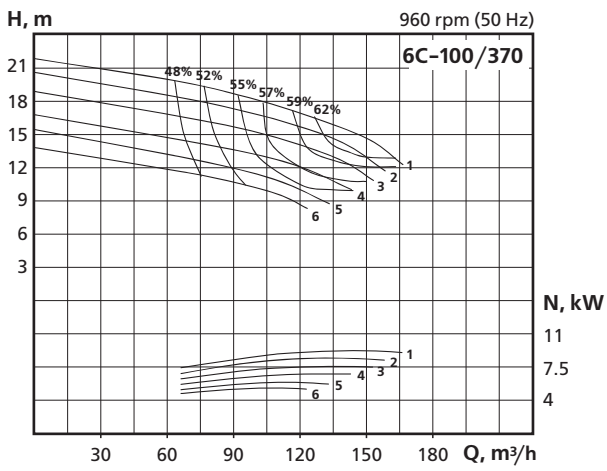


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅269	3040	15	∅125	75
2	∅260		11		
3	∅245		9.2		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅408	3125A	75	∅125	75
2	∅398		75		
3	∅388		75		
4	∅373		55		
5	∅360		55		
6	∅345		55		

PERFORMANCE CURVES

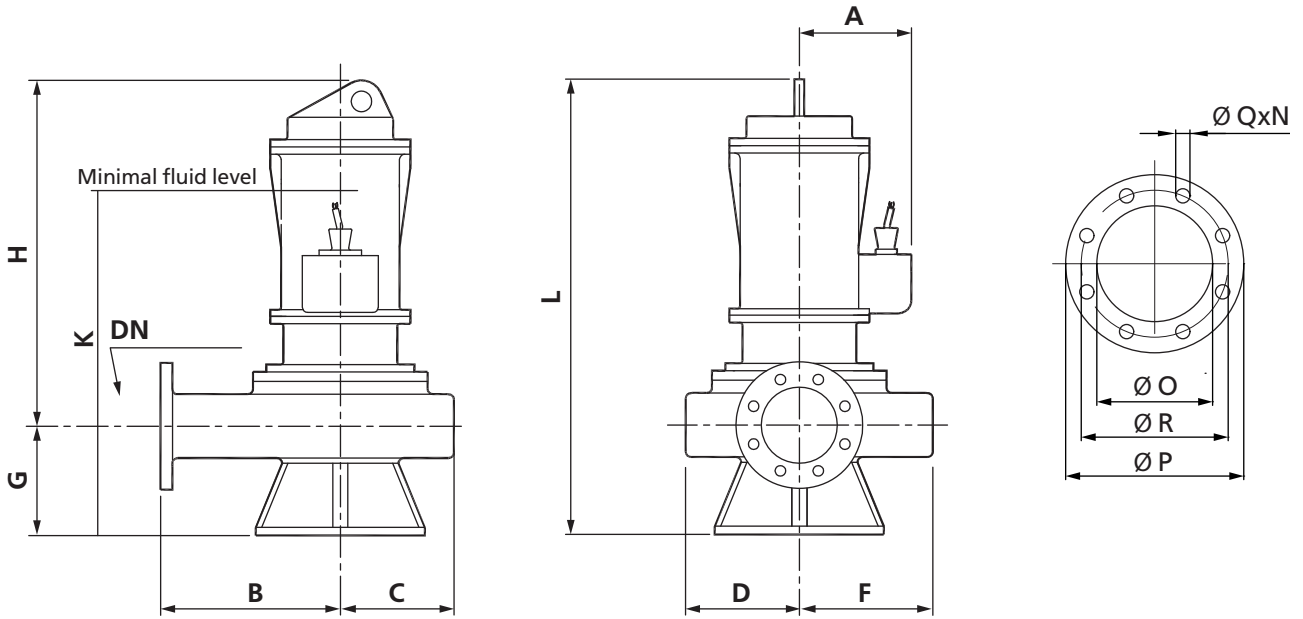


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅368	3092	11	∅100	80
2	∅350		11		
3	∅343		7.5		
4	∅325		7.5		
5	∅310		5.5		
6	∅300		5.5		

Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅409	3125	18.5	∅100	75
2	∅400		15		
3	∅380		11		
4	∅370		11		

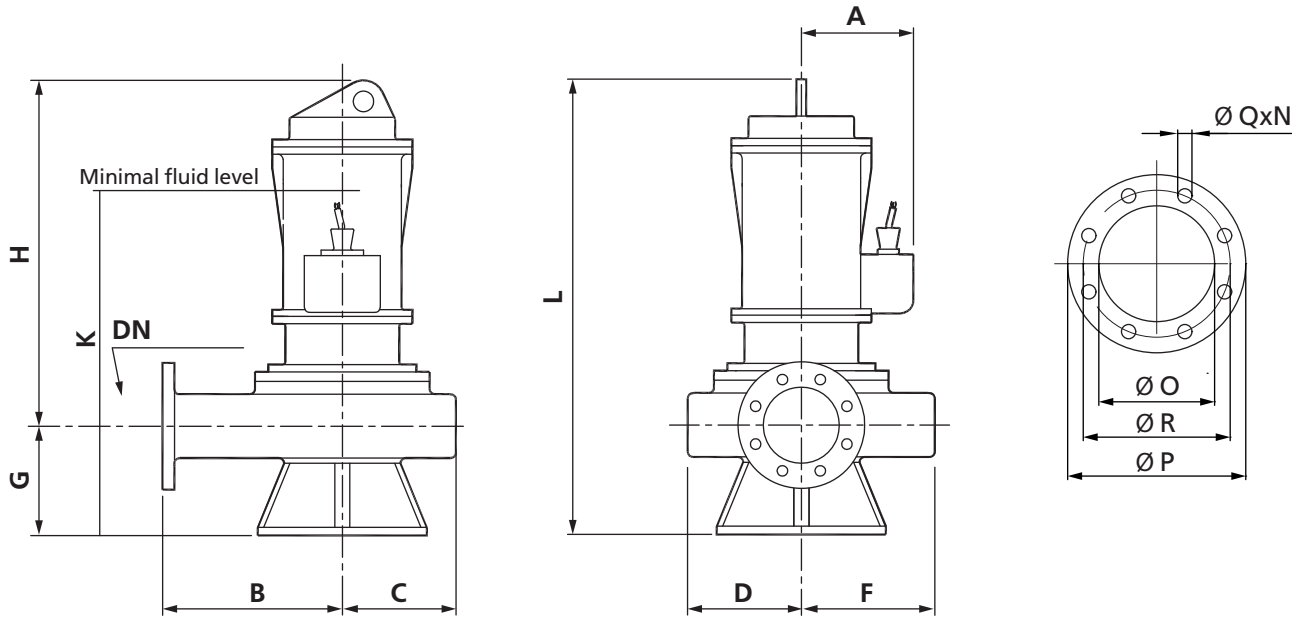
OVERALL DIMENSIONS

1/2



Pump	Discharge Nozzle Ø	A	B	C	D	F	G	H	K	L	DN	O	P	R	Q	N
4C-65/145-1.1	2"	100	150	125	130	130	130	416	420	546	2"					
4C-65/170-1.1	2"	100	200	132	120	146	130	420	420	550	2"					
4C-65/220-1.1	2"	168	149	159	154	250	150	545	564	695	2"					
4C-65/220-1.5	2"	168	149	159	154	250	150	545	564	695	2"					
4C-65/220-2.2	2"	168	149	159	154	250	150	545	564	695	2"					
4C-65/220-3	2"	168	149	159	154	250	150	545	564	695	2"					
4C-80/145-1.1	80	100	190	100	98	108	145	445	470	590	80	80	200	160	18	8
4C-80/220-1.5	80	100	250	155	145	165	210	442	552	652	80	80	220	180	18	8
4C-80/220-2.2	80	168	250	155	145	165	210	537	642	747	80	80	220	180	18	8
4C-80/220-3	80	168	250	155	145	165	210	537	642	747	80	80	220	180	18	8
4C-80/220-4	80	168	250	155	145	165	210	537	642	747	80	80	220	180	18	8
4C-80/220-5.5	80	168	250	155	145	165	210	537	642	747	80	80	220	180	18	8
4C-100/220-2.2	100	168	280	176	160	195	215	551	661	766	100	100	220	180	18	8
4C-100/220-3	100	168	280	176	160	195	215	551	661	766	100	100	220	180	18	8
4C-100/220-4	100	168	280	176	160	195	215	551	661	766	100	100	220	180	18	8
4C-100/220-5.5	100	168	280	176	160	195	215	551	661	766	100	100	220	180	18	8
4C-100/270-5.5	100	212	340	220	200	240	198	658	730	856	100	100	220	180	18	8
4C-100/270-7.5	100	212	340	220	200	240	198	658	730	856	100	100	220	180	18	8
4C-100/270-9.2	100	212	340	220	200	240	198	658	730	856	100	100	220	180	18	8
4C-100/270-11	100	212	340	220	200	240	198	658	730	856	100	100	220	180	18	8
4C-100/270-15	100	212	340	220	200	240	198	658	730	856	100	100	220	180	18	8

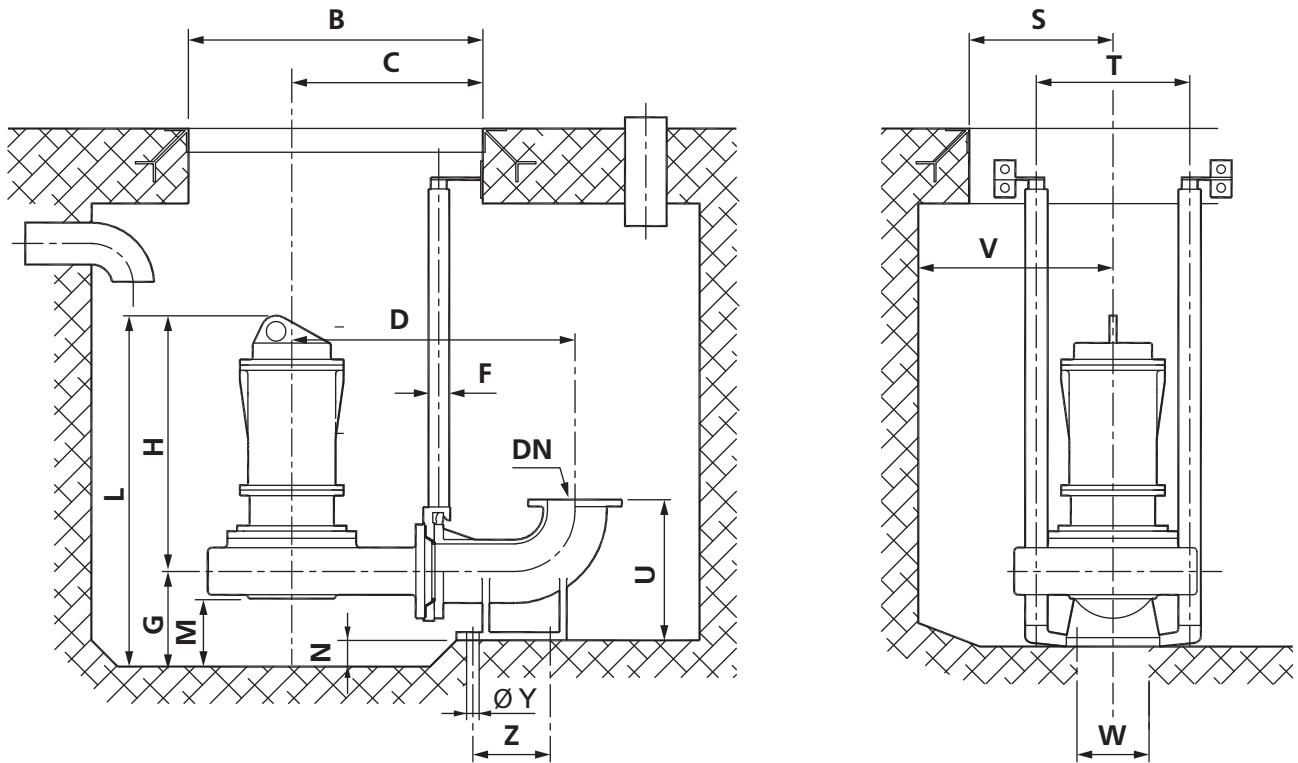
OVERALL DIMENSIONS



Pump	Discharge Nozzle Ø	A	B	C	D	F	G	H	K	L	DN	O	P	R	Q	N
4C-100/370-18.5	100	212	340	237	228	246	179	718	780	897	100	100	220	180	18	8
4C-100/370-22	100	267	340	237	228	246	179	769	793	948	100	100	220	180	18	8
4C-100/370-30	100	267	340	237	228	246	179	769	793	948	100	100	220	180	18	8
4C-100/370-37	100	306	340	237	228	246	179	883	895	1,062	100	100	220	180	18	8
4C-100/410-37	100	306	415	258	244	272	183	934	950	1,117	100	100	220	180	18	8
4C-100/410-45	100	306	415	258	244	272	183	934	950	1,117	100	100	220	180	18	8
4C-100/410-55	100	0	415	258	244	272	183	1,117	1,133	1,300	100	100	220	180	18	8
4C-125/270-9.2	125	212	315	216	193	240	242	661	777	903	125	125	250	210	18	8
4C-125/270-11	125	212	315	216	193	240	242	661	777	903	125	125	250	210	18	8
4C-125/270-15	125	212	315	216	193	240	242	661	777	903	125	125	250	210	18	8
4C-125/410-55	125	0	415	300	275	325	242	1,085	1,090	1,327	125	125	250	210	18	8
4C-125/410-75	125	0	415	300	275	325	242	1,085	1,090	1,327	125	125	250	210	18	8
6C-100/370-4	100	212	340	237	228	246	179	658	720	837	100	100	220	180	18	8
6C-100/370-5.5	100	212	340	237	228	246	179	658	720	837	100	100	220	180	18	8
6C-100/370-7.5	100	212	340	237	228	246	179	658	720	837	100	100	220	180	18	8
6C-100/370-9.2	100	212	340	237	228	246	179	658	720	837	100	100	220	180	18	8
6C-100/370-11	100	212	415	258	244	272	200	770	810	907	100	100	220	180	18	8
6C-100/410-15	100	212	415	258	244	272	200	770	810	907	100	100	220	180	18	8
6C-100/410-18.5	100	212	415	258	244	272	200	770	810	907	100	100	220	180	18	8

MOUNTING DIMENSIONS

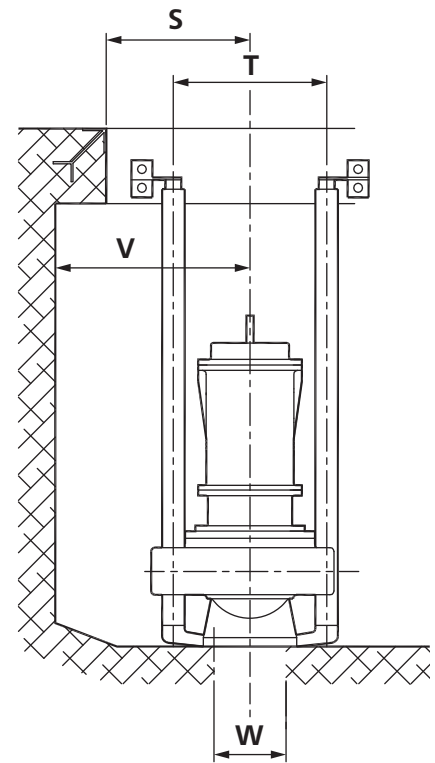
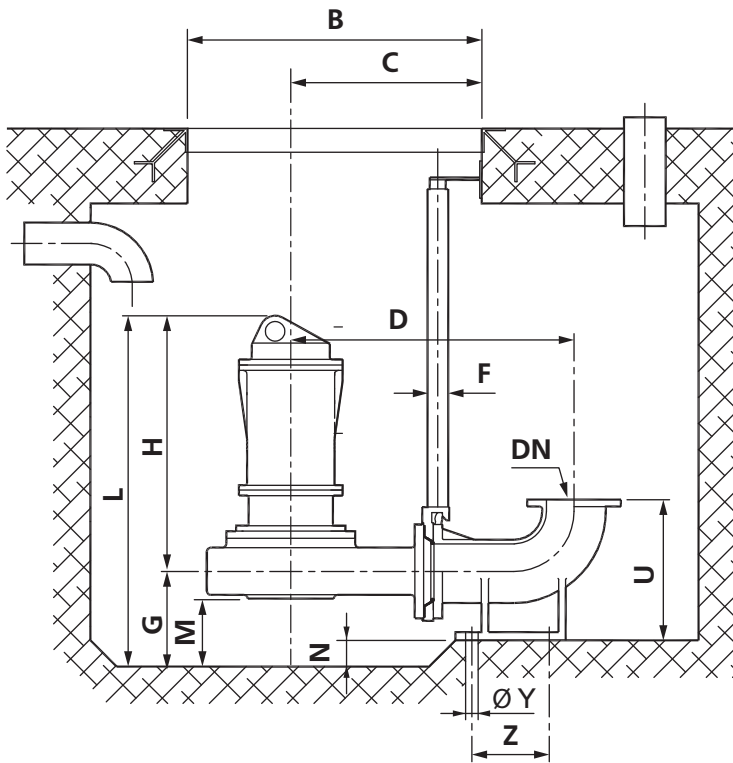
1/2



Pump	Discharge Nozzle Ø	L	G	H	B	C	D	DN	F	M	N	S	T	U	V	W	Y	Z
4C-65/145-1.1	65	548	130	416	500	297	460	65	1 1/2"	80	10	300	300	240	400	140	14	170
4C-65/170-1.1	65	695	130	565	500	297	460	65	1 1/2"	80	10	300	300	240	400	140	14	170
4C-65/220-1.1	2"	695	150	545	600	371	534	65	1 1/2"	80	10	300	300	240	300	140	14	170
4C-65/220-1.5	2"	695	150	545	600	371	534	65	1 1/2"	80	10	300	300	240	300	140	14	170
4C-65/220-2.2	2"	695	150	545	600	371	534	65	1 1/2"	80	10	300	300	240	300	140	14	170
4C-65/220-3	2"	695	150	545	600	371	534	65	1 1/2"	80	10	300	300	240	300	140	14	170
4C-80/145-1.1	80	590	145	445	500	355	525	80	1 1/2"	80	25	300	90	230	400	120	16	215
4C-80/220-1.5	80	652	210	442	630	370	590	80	1 1/2"	100	100	400	370	265	500	140	18	215
4C-80/220-2.2	80	747	210	537	630	370	590	80	1 1/2"	100	100	400	370	265	500	140	18	215
4C-80/220-3	80	747	210	537	630	370	590	80	1 1/2"	100	100	400	370	265	500	140	18	215
4C-80/220-4	80	747	210	537	630	370	590	80	1 1/2"	100	100	400	370	265	500	140	18	215
4C-80/220-5.5	80	747	210	537	630	370	590	80	1 1/2"	100	100	400	370	265	500	140	18	215
4C-100/220-2.2	100	766	215	551	660	400	620	100	1 1/2"	100	100	400	370	265	500	140	18	215
4C-100/220-3	100	766	215	551	660	400	620	100	1 1/2"	100	100	400	370	265	500	140	18	215
4C-100/220-4	100	766	215	551	660	400	620	100	1 1/2"	100	100	400	370	265	500	140	18	215
4C-100/220-5.5	100	766	215	551	660	400	620	100	1 1/2"	100	100	400	370	265	500	140	18	215
4C-100/270-7.5	100	856	198	658	800	460	680	100	1 1/2"	100	88	400	370	265	600	140	18	215
4C-100/270-9.2	100	856	198	658	800	460	680	100	1 1/2"	100	88	400	370	265	600	140	18	215
4C-100/270-11	100	856	198	658	800	460	680	100	1 1/2"	100	88	400	370	265	600	140	18	215
4C-100/270-15	100	856	198	658	800	460	680	100	1 1/2"	100	88	400	370	265	600	140	18	215

MOUNTING DIMENSIONS

2/2



Pump	Discharge Nozzle Ø	L	G	H	B	C	D	DN	F	M	N	S	T	U	V	W	Y	Z
4C-100/370-18.5	100	897	179	718	800	460	680	100	1 1/2"	100	88	400	370	265	600	140	18	215
4C-100/370-22	100	948	179	769	800	460	680	100	1 1/2"	100	88	400	370	265	600	140	18	215
4C-100/370-30	100	948	179	769	800	460	680	100	1 1/2"	100	88	400	370	265	600	140	18	215
4C-100/370-37	100	1,062	179	883	800	460	680	100	1 1/2"	100	88	400	370	265	600	140	18	215
4C-100/410-37	100	1,117	183	934	930	536	749	100	1 1/2"	100	73	400	370	265	600	140	18	215
4C-100/410-45	100	1,117	183	934	930	536	749	100	1 1/2"	100	73	400	370	265	600	140	18	215
4C-100/410-55	100	1,300	183	1,117	930	536	749	100	1 1/2"	100	73	400	370	265	600	140	18	215
4C-125/270-9.2	125	903	242	661	770	440	675	125	2"	125	117	400	400	290	650	150	20	230
4C-125/270-11	125	903	242	661	770	440	675	125	2"	125	117	400	400	290	650	150	20	230
4C-125/270-15	125	903	242	661	770	440	675	125	2"	125	117	400	400	290	650	150	20	230
4C-125/410-30	125	1,144	242	902	900	540	775	125	2"	125	117	400	400	290	650	150	20	230
4C-125/410-37	125	1,144	242	902	900	540	775	125	2"	125	117	400	400	290	650	150	20	230
4C-125/410-45	125	1,144	242	902	900	540	775	125	2"	125	117	400	400	290	650	150	20	230
4C-125/410-55	125	1,327	242	1,085	900	540	775	125	2"	125	117	400	400	290	650	150	20	230
6C-100/370-4	100	837	179	658	800	460	680	100	1 1/2"	100	88	400	370	265	600	140	18	215
6C-100/370-5.5	100	837	179	658	800	460	680	100	1 1/2"	100	88	400	370	265	600	140	18	215
6C-100/370-7.5	100	837	179	658	800	460	680	100	1 1/2"	100	88	400	370	265	600	140	18	215
6C-100/370-9.2	100	837	179	658	800	460	680	100	1 1/2"	100	88	400	370	265	600	140	18	215
6C-100/410-15	100	970	200	770	930	536	749	100	1 1/2"	100	73	400	370	265	600	140	18	215
6C-100/410-18.5	100	970	200	770	930	536	749	100	1 1/2"	100	73	400	370	265	600	140	18	215

Type 4C

Pumps with discharge nozzle diameter 125 - 250 mm

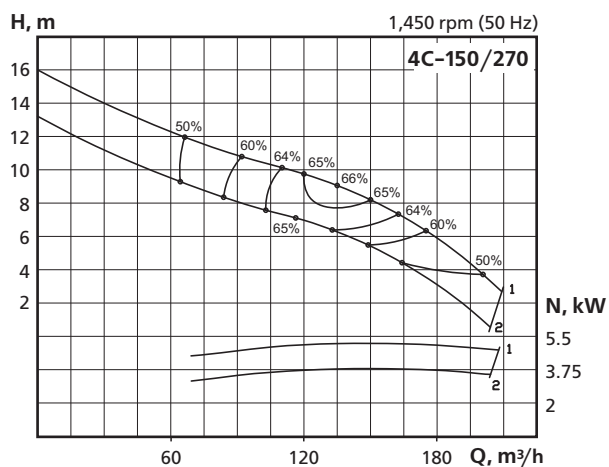
TECHNICAL DATA

- Capacity: up to 900 m³/h
- Head: up to 95 m
- Power: up to 200 kW
- Rotation speed: 1450 rpm
- Impeller type: channel
- Solids size: up to 110 mm

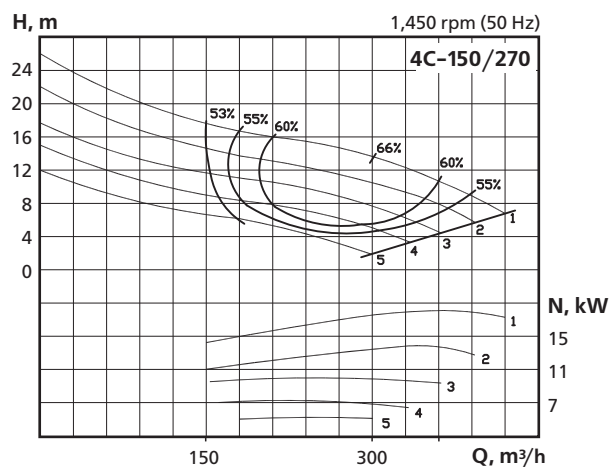
Pump	Power, kW	Rated current at 380V	Rated voltage, V	Cos φ	Motor efficiency, %	Pump weight, kg*	Base weight, kg*
4C-150/270-4	4	9.3	220 / 380	0.84	79	135	89
4C-150/270-5.5	5.5	12.3	220 / 380	0.86	79	152	89
4C-150/270-7.5	7.5	17	380 / 660	0.81	82	176	89
4C-150/270-9.2	9.2	19	380 / 660	0.87	84	193	89
4C-150/270-11	11	25	360 / 660	0.79	85	200	89
4C-150/270-15	15	30	380 / 660	0.87	86	200	89
4C-150/270-18.5	18.5	40.2	380 / 660	0.82	85	225	89
4C-150/270-22	22	45.4	380 / 660	0.86	86	275	89
4C-150/330-22	22	45.4	380 / 660	0.86	86	316	89
4C-150/330-30	30	60.5	380 / 660	0.86	86	316	89
4C-150/330-37	37	75	380 / 660	0.84	89	422	89
4C-150/410-37	37	75	380 / 660	0.84	89	461	89
4C-150/410-45	45	90	380 / 660	0.83	90	471	89
4C-150/410-55	55	115	380 / 660	0.83	88	579	104
4C-150/410-62.5	62.5	130.3	380 / 660	0.83	88	590	104
4C-150/410-75	75	148	380 / 660	0.85	89	720	104
4C-150/500-100	100	197	380 / 660	0.85	89	771	104
4C-150/500-110	110	217	380 / 660	0.85	91	804	104
4C-150/500-132	132	261	380 / 660	0.85	91	869	104
4C-200/330-22	22	45.4	380 / 660	0.86	86	324	190
4C-200/330-30	30	60.5	380 / 660	0.86	86	334	190
4C-200/330-37	37	75	380 / 660	0.84	89	430	190
4C-200/330-45	45	90	380 / 660	0.83	90	430	190
4C-200/330-55	55	115	380 / 660	0.83	88	450	190
4C-200/410-75	75	148	380 / 660	0.85	89	691	190
4C-200/410-92	92	185	380 / 660	0.85	89	723	190
4C-200/410-110	110	217	380 / 660	0.85	91	756	190
4C-200/410-132	132	261	380 / 660	0.85	91	821	190
4C-200/500-132	132	261	380 / 660	0.85	91	1,547	190
4C-200/500-162	162	318	380 / 660	0.85	91	1,577	190
4C-200/500-200	200	391	380 / 660	0.85	91	2,130	190
4C-250/360-37	37	75	380 / 660	0.84	89	479	206
4C-250/360-45	45	90	380 / 660	0.83	90	479	206
4C-250/360-55	55	115	380 / 660	0.83	88	499	206
4C-250/410-110	110	217	380 / 660	0.85	91	797	206
4C-250/410-132	132	261	380 / 660	0.85	91	862	206
4C-250/410-150	150	370	380 / 660	0.85	91	1,147	206
4C-250/410-180	180	362	380 / 660	0.85	91	1,223	206

* Weight is given for pumps of grey cast iron (index «G» in pump designation)

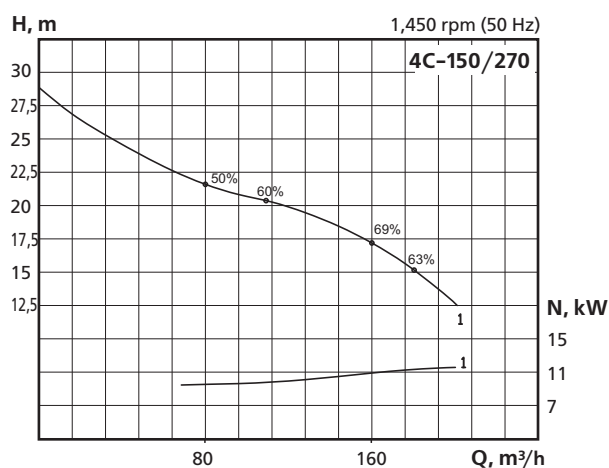
PERFORMANCE CURVES



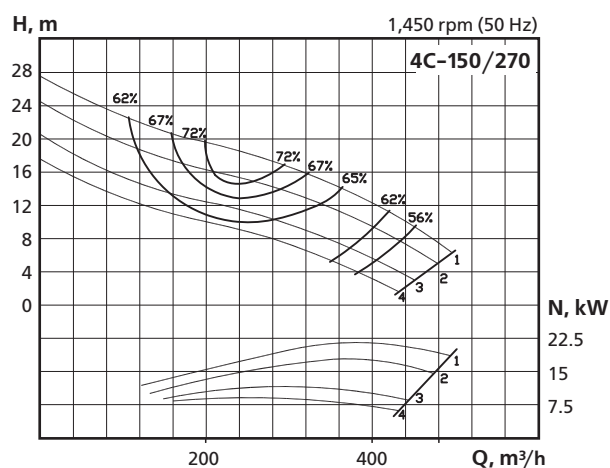
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅240	28N	5.5	∅150	100
2	∅230		4		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅270	3173	18.5	∅150	100
2	∅255		15		
3	∅240		11		
4	∅225		9.2		
5	∅215		7.5		

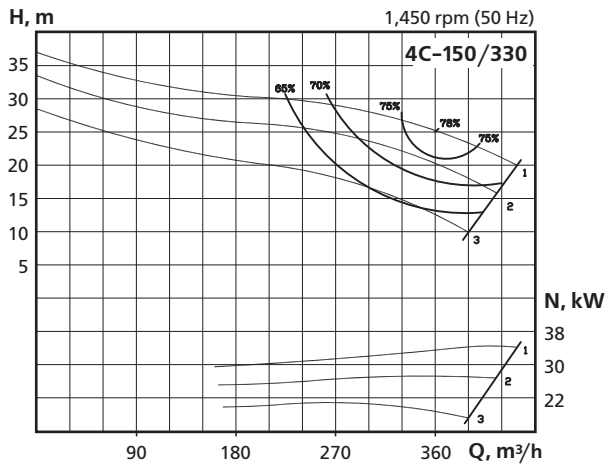


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅269	3144	11	∅150	100

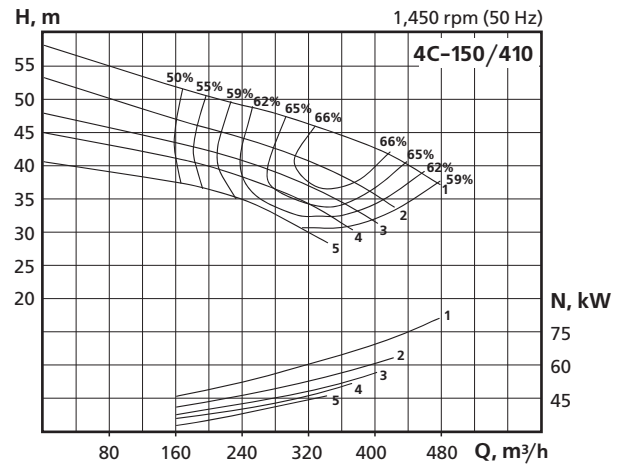


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅269	103NU	22	∅150	100
2	∅260		18.5		
3	∅245		15		
4	∅230		11		

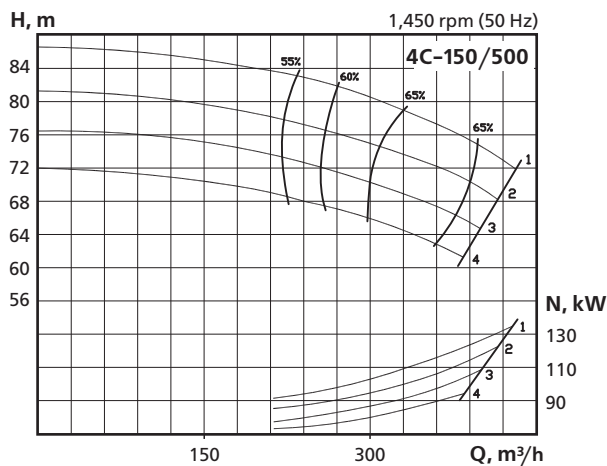
PERFORMANCE CURVES



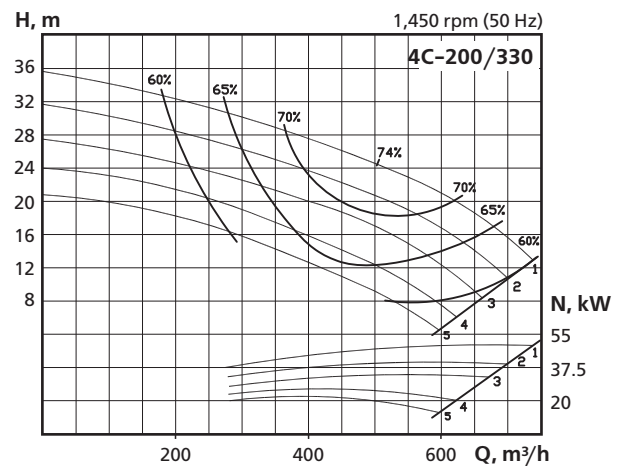
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅330	3048	37	∅150	90
2	∅310		30		
3	∅290		22		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅415	1465	92	∅150	80
2	∅400		75		
3	∅390		55		
4	∅380		45		
5	∅360		45		

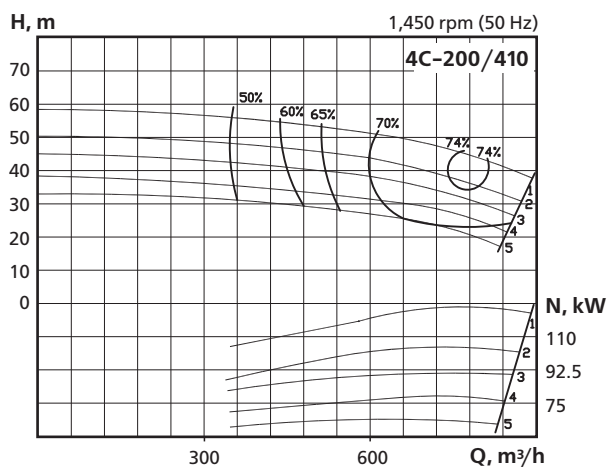


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅500	3099	132	∅150	80
2	∅480		132		
3	∅460		110		
4	∅440		100		

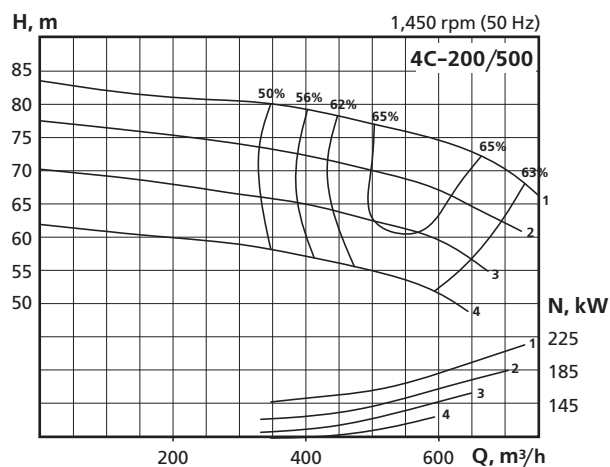


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅330	103N	55	∅200	100
2	∅310		45		
3	∅290		37		
4	∅270		30		
5	∅263		22		

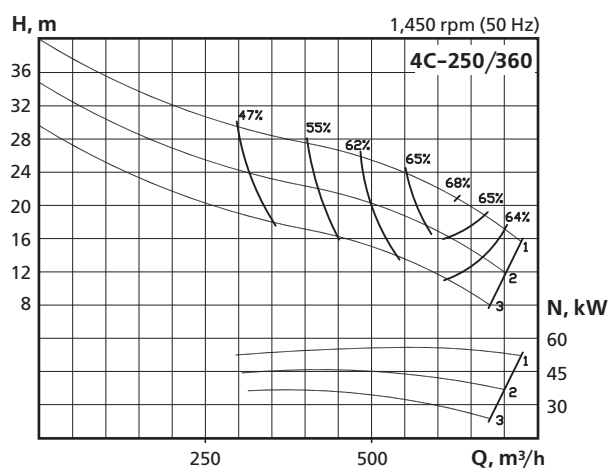
PERFORMANCE CURVES



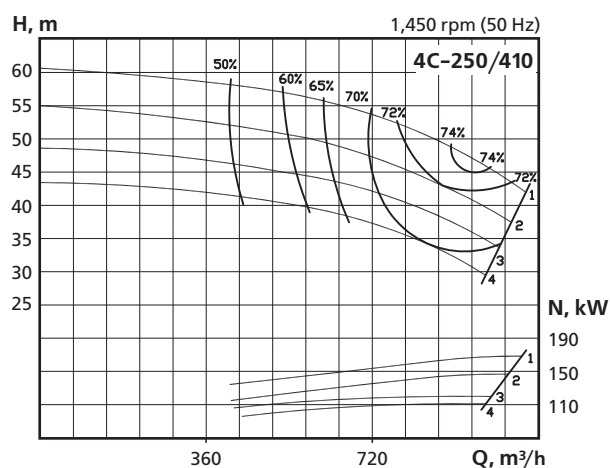
№	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅410	1474	132	∅200	110
2	∅400		110		
3	∅380		92		
4	∅360		92		
5	∅340		75		



№	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅500	3242	200	∅200	105x65
2	∅480		200		
3	∅460		162		
4	∅440		132		



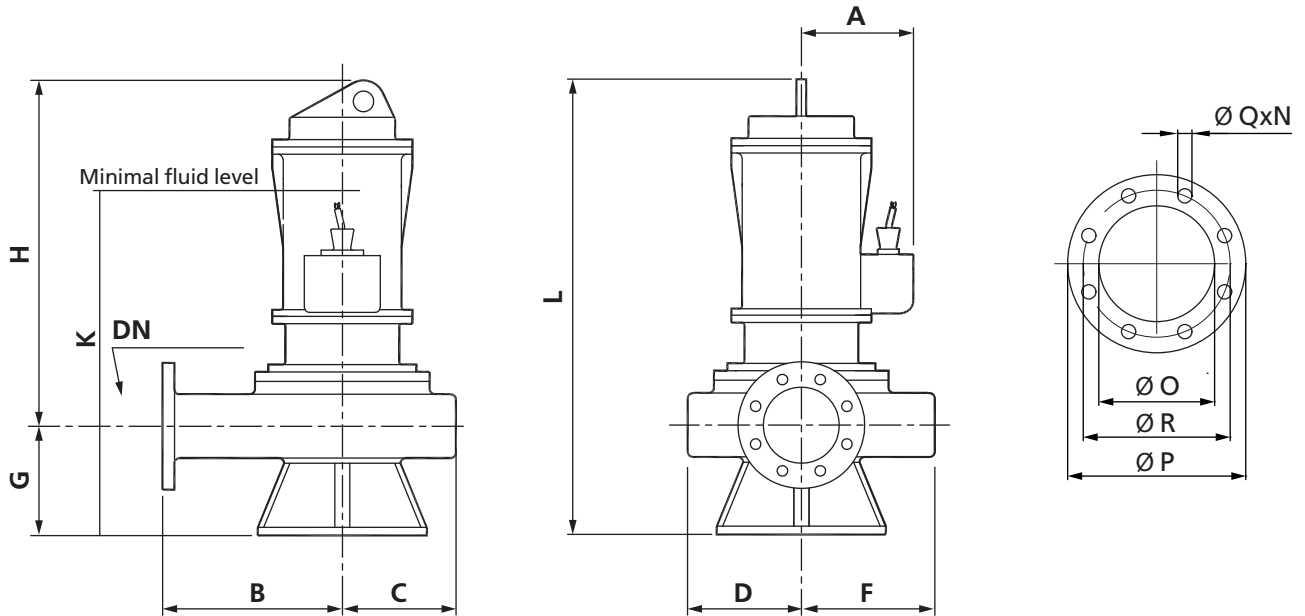
№	Действительный диаметр колеса, мм	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅360	3094	55	∅250	105
2	∅335		45		
3	∅310		37		



№	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅420	3350	180	∅250	90
2	∅410		150		
3	∅390		132		
4	∅370		110		

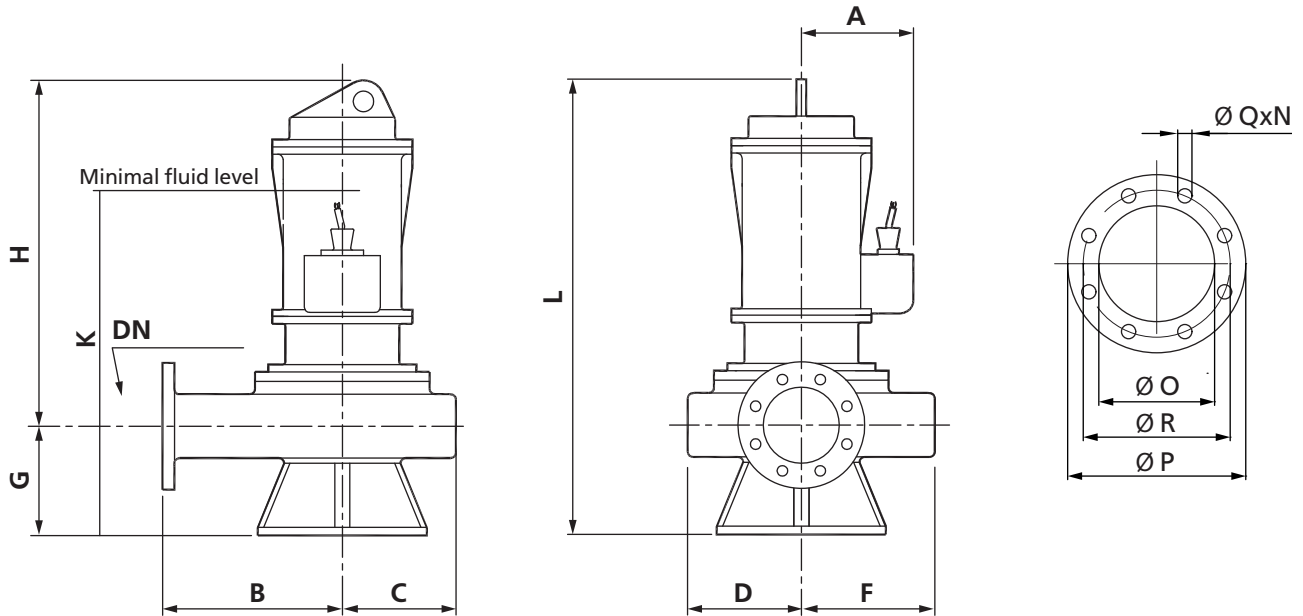
OVERALL DIMENSIONS

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Pump	Discharge Nozzle Ø	A	B	C	D	F	G	H	K	L	DN	O	P	R	Q	N
4C-150/270-4	150	168	315	215	195	240	293	559	747	852	150	150	285	240	23	8
4C-150/270-5.5	150	168	315	215	195	240	293	559	747	852	150	150	285	240	23	8
4C-150/270-7.5	150	212	315	215	195	240	293	653	820	946	150	150	285	240	23	8
4C-150/270-9.2	150	212	315	215	195	240	293	653	820	946	150	150	285	240	23	8
4C-150/270-11	150	212	315	215	195	240	293	653	820	946	150	150	285	240	23	8
4C-150/270-15	150	212	315	215	195	240	293	653	820	946	150	150	285	240	23	8
4C-150/270-18.5	150	212	315	215	195	240	293	713	880	1,006	150	150	285	240	23	8
4C-150/270-22	150	267	315	215	195	240	293	748	886	1,041	150	150	285	240	23	8
4C-150/330-22	150	267	355	253	225	281	270	784	886	1,054	150	150	285	240	23	8
4C-150/330-30	150	267	355	253	225	281	270	784	886	1,054	150	150	285	240	23	8
4C-150/330-37	150	306	355	253	225	281	270	898	1,000	1,168	150	150	285	240	23	8
4C-150/410-37	150	306	415	274	244	304	240	902	907	1,142	150	150	285	240	23	8
4C-150/410-45	150	306	415	274	244	304	240	902	907	1,142	150	150	285	240	23	8
4C-150/410-55	150	0	415	274	244	304	240	1,085	1,090	1,325	150	150	285	240	23	8
4C-150/410-62.5	150	0	415	274	244	304	240	1,085	1,090	1,325	150	150	285	240	23	8
4C-150/410-75	150	0	415	274	244	304	240	1,280	1,260	1,520	150	150	285	240	23	8
4C-150/500-92	150	0	500	325	285	345	240	1,280	1,260	1,520	150	150	285	240	23	8
4C-150/500-100	150	0	500	325	285	345	240	1,280	1,260	1,520	150	150	285	240	23	8
4C-150/500-110	150	0	500	325	285	345	240	1,280	1,260	1,520	150	150	285	240	23	8
4C-150/500-132	150	0	500	325	285	345	240	1,390	1,370	1,630	150	150	285	240	23	8

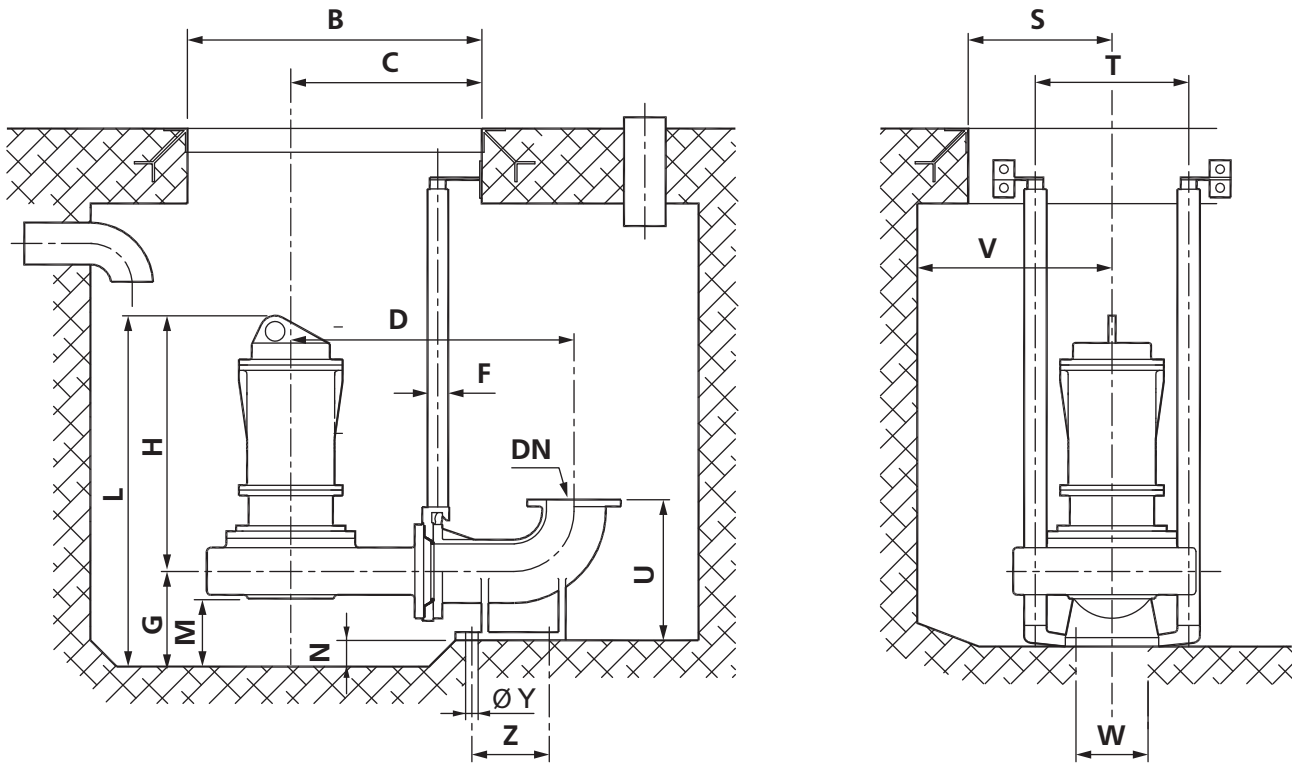
OVERALL DIMENSIONS



Pump	Discharge Nozzle \varnothing	A	B	C	D	F	G	H	K	L	DN	O	P	Q	R	N
4C-200/330-22	200	267	385	250	212	282	305	770	920	1,075	200	200	340	295	23	8
4C-200/330-30	200	267	385	250	212	282	305	770	920	1,075	200	200	340	295	23	8
4C-200/330-37	200	306	385	250	212	282	305	902	1,040	1,207	200	200	340	295	23	8
4C-200/330-45	200	306	385	250	212	282	305	902	1,040	1,207	200	200	340	295	23	8
4C-200/330-55	200	0	385	250	212	282	305	1,085	1,155	1,390	200	200	340	295	23	8
4C-200/410-75	200	0	415	289	254	324	310	1,290	1,340	1,600	200	200	340	295	23	8
4C-200/410-92	200	0	415	289	254	324	310	1,290	1,340	1,600	200	200	340	295	23	8
4C-200/410-110	200	0	415	289	254	324	310	1,290	1,340	1,600	200	200	340	295	23	8
4C-200/410-132	200	0	415	289	254	324	310	1,400	1,370	1,710	200	200	340	295	23	8
4C-200/500-132	200	0	500	400	371	409	292	1,398	1,350	1,690	200	200	340	295	23	8
4C-200/500-162	200	0	500	400	371	409	292	1,398	1,350	1,690	200	200	340	295	23	8
4C-200/500-200	200	0	500	400	371	409	292	1,618	1,510	1,910	200	200	340	295	23	8
4C-250/360-37	250	306	415	283	258	303	375	927	1,135	1,302	250	250	395	350	23	12
4C-250/360-45	250	306	415	283	258	303	375	927	1,135	1,302	250	250	395	350	23	12
4C-250/360-55	250	0	415	283	258	303	375	1,110	1,250	1,485	250	250	395	350	23	12
4C-250/410-110	250	0	455	305	265	345	360	1,300	1,320	1,680	250	250	395	350	23	12
4C-250/410-132	250	0	455	305	265	345	360	1,410	1,430	1,770	250	250	395	350	23	12
4C-250/410-150	250	0	455	305	265	345	360	1,410	1,430	1,770	250	250	395	350	23	12
4C-250/410-180	250	0	455	305	265	345	360	1,410	1,430	1,770	250	250	395	350	23	12

MOUNTING DIMENSIONS

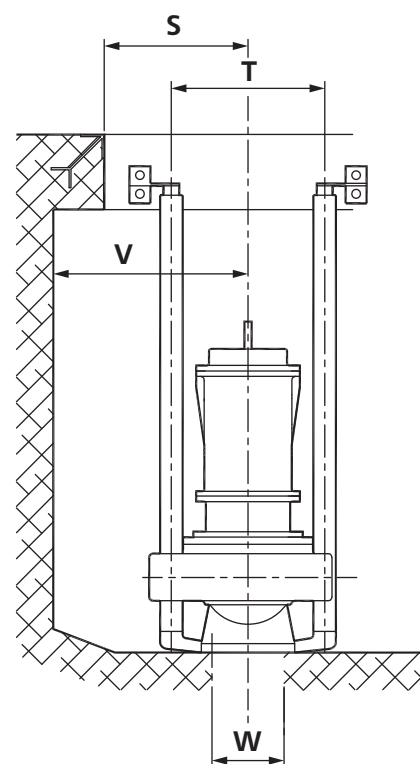
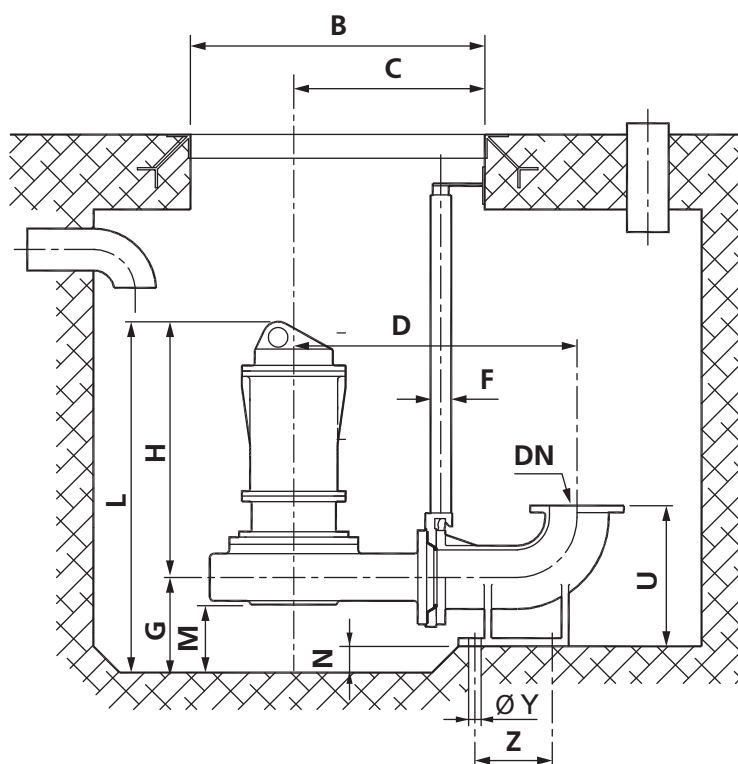
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Pump	Discharge Nozzle Ø	L	G	H	B	C	D	DN	F	M	N	S	T	U	V	W	Y	Z
4C-150/270-4	150	852	293	559	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
4C-150/270-5.5	150	852	293	559	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
4C-150/270-7.5	150	946	293	653	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
4C-150/270-9.2	150	946	293	653	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
4C-150/270-11	150	946	293	653	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
4C-150/270-15	150	946	293	653	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
4C-150/270-18.5	150	1,006	293	713	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
4C-150/270-22	150	1,041	293	748	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
4C-150/330-22	150	1,054	270	784	900	495	735	150	2"	150	148	400	420	325	650	160	23	258
4C-150/330-30	150	1,054	270	784	900	495	735	150	2"	150	148	400	420	325	650	160	23	258
4C-150/330-37	150	1,168	270	898	900	495	735	150	2"	150	148	400	420	325	650	160	23	258
4C-150/410-37	150	1,142	240	902	900	515	795	150	2"	150	118	400	420	325	650	160	23	258
4C-150/410-45	150	1,142	240	902	900	515	795	150	2"	150	118	400	420	325	650	160	23	258
4C-150/410-55	150	1,325	240	1,085	900	515	880	150	2"	150	100	400	420	400	650	200	23	260
4C-150/410-62.5	150	1,325	240	1,085	900	515	880	150	2"	150	100	400	420	400	650	200	23	260
4C-150/410-75	150	1,520	240	1,280	900	515	880	150	2"	150	100	400	420	400	650	200	23	260
4C-150/500-92	150	1,520	240	1,280	1,050	600	965	150	2"	150	100	400	420	400	650	200	23	260
4C-150/500-100	150	1,520	240	1,280	1,050	600	965	150	2"	150	100	400	420	400	650	200	23	260
4C-150/500-110	150	1,520	240	1,280	1,050	600	965	150	2"	150	100	400	420	400	650	200	23	260
4C-150/500-132	150	1,630	240	1,390	1,050	600	965	150	2"	150	100	400	420	400	650	200	23	260

MOUNTING DIMENSIONS

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Pump	Discharge Nozzle Ø	L	G	H	B	C	D	DN	F	M	N	S	T	U	V	W	Y	Z
4C-200/330-22	200	1,075	305	770	950	566	930	200	2 1/2"	200	55	500	510	510	700	240	28	280
4C-200/330-30	200	1,075	305	770	950	566	930	200	2 1/2"	200	55	500	510	510	700	240	28	280
4C-200/330-37	200	1,207	305	902	950	566	930	200	2 1/2"	200	55	500	510	510	700	240	28	280
4C-200/330-45	200	1,207	305	902	950	566	930	200	2 1/2"	200	55	500	510	510	700	240	28	280
4C-200/330-55	200	1,390	305	1,085	950	566	930	200	2 1/2"	200	55	500	510	510	700	240	28	280
4C-200/410-75	200	1,600	310	1,290	1,000	596	960	200	2 1/2"	200	55	500	510	510	700	240	28	280
4C-200/410-92	200	1,600	310	1,290	1,000	596	960	200	2 1/2"	200	55	500	510	510	700	240	28	280
4C-200/410-110	200	1,600	310	1,290	1,000	596	960	200	2 1/2"	200	55	500	510	510	700	240	28	280
4C-200/410-132	200	1,710	310	1,400	1,000	596	960	200	2 1/2"	200	55	500	510	510	700	240	28	280
4C-200/500-132	200	1,690	292	1,398	1,200	681	1,045	200	2 1/2"	200	55	500	510	510	700	240	28	280
4C-200/500-162	200	1,690	292	1,398	1,200	681	1,045	200	2 1/2"	200	55	500	510	510	700	240	28	280
4C-200/500-200	200	1,910	292	1,618	1,200	681	1,045	200	2 1/2"	200	55	500	510	510	700	240	28	280
4C-250/360-37	250	1,302	375	927	1,000	600	1,025	250	2 1/2"	250	125	500	560	510	700	290	28	365
4C-250/360-45	250	1,302	375	927	1,000	600	1,025	250	2 1/2"	250	125	500	560	510	700	290	28	365
4C-250/360-55	250	1,485	375	1,110	1,000	600	1,025	250	2 1/2"	250	125	500	560	510	700	290	28	365
4C-250/410-110	250	1,660	360	1,300	1,050	640	1,065	250	2 1/2"	250	125	500	560	510	700	290	28	365
4C-250/410-132	250	1,770	360	1,410	1,050	640	1,065	250	2 1/2"	250	125	500	560	510	700	290	28	365
4C-250/410-150	250	1,770	360	1,410	1,050	640	1,065	250	2 1/2"	250	125	500	560	510	700	290	28	365
4C-250/410-180	250	1,770	360	1,410	1,050	640	1,065	250	2 1/2"	250	125	500	560	510	700	290	28	365

Type 6C

Pumps with discharge nozzle diameter 150 – 250 mm

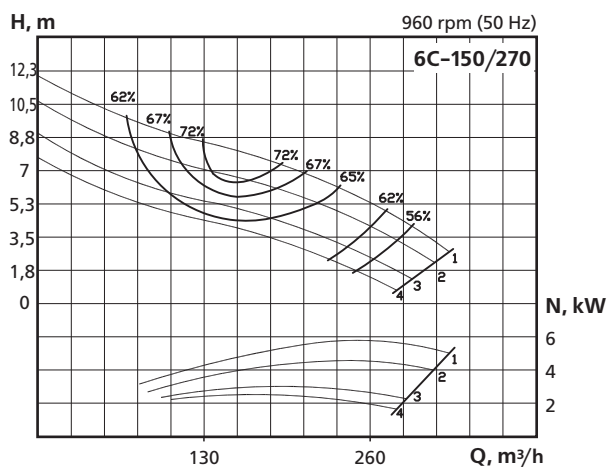
TECHNICAL DATA

- Capacity: up to 900 m³/h
- Head: up to 40 m
- Power: up to 92 kW
- Rotation speed: 960 rpm
- Impeller type: channel
- Solids size: up to 125 mm

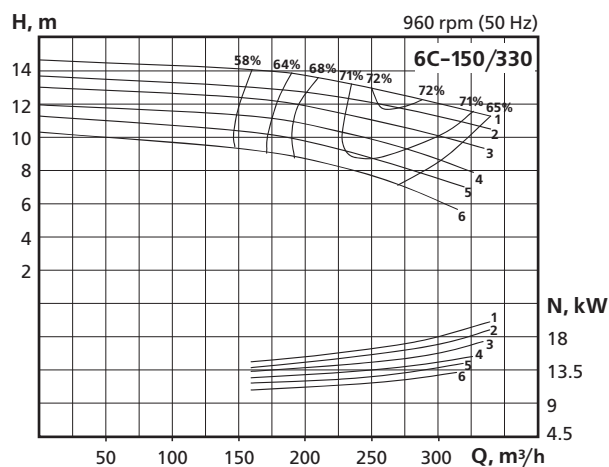
Pump	Power, kW	Rated current at 380V	Rated voltage, V	Cos φ	Motor efficiency, %	Pump weight, kg*	Base weight, kg*
6C-150/270-4	4	11.1	380 / 660	0.71	78	176	89
6C-150/270-5.5	5.5	14.4	380 / 660	0.73	80	191	89
6C-150/270-7.5	7.5	17.3	380 / 660	0.78	83	191	89
6C-150/330-7.5	7.5	17.3	360 / 660	0.78	83	233	89
6C-150/330-9.2	9.2	22.8	380 / 660	0.74	83	285	89
6C-150/330-11	11	25.9	380 / 660	0.78	83	303	89
6C-150/410-15	15	32.9	380 / 660	0.8	85	375	89
6C-150/410-18.5	18.5	41.2	380 / 660	0.8	85	375	89
6C-150/410-22	22	47.1	380 / 660	0.83	86	456	89
6C-150/500-30	30	63.5	380 / 660	0.82	86	549	89
6C-150/500-37	37	76.6	380 / 660	0.84	87	559	89
6C-150/500-45	45	91	380 / 660	0.84	88	731	104
6C-150/500-55	55	114	380 / 660	0.84	88	755	104
6C-200/330-7.5	7.5	17.3	360 / 660	0.78	83	241	190
6C-200/330-11	11	25.9	380 / 660	0.78	83	311	190
6C-200/330-15	15	32.9	380 / 660	0.8	85	324	190
6C-200/410-22	22	47.1	380 / 660	0.83	86	481	190
6C-200/410-30	30	63.5	380 / 660	0.82	86	501	190
6C-200/410-37	37	76.6	380 / 660	0.84	87	511	190
6C-200/500-37	37	76.6	380 / 660	0.84	87	670	190
6C-200/500-45	45	91	380 / 660	0.84	88	842	190
6C-200/500-55	55	114	380 / 660	0.84	88	866	190
6C-250/360-15	15	32.9	380 / 660	0.8	85	373	206
6C-250/360-18.5	18.5	41.2	380 / 660	0.8	85	373	206
6C-250/360-22	22	47.1	380 / 660	0.83	86	454	206
6C-250/360-30	30	63.5	380 / 660	0.82	86	474	206
6C-250/360-37	37	76.6	380 / 660	0.84	87	484	206
6C-250/410-37	37	76.6	380 / 660	0.84	87	552	206
6C-250/410-45	45	91	380 / 660	0.84	88	724	206
6C-250/410-55	55	114	380 / 660	0.84	88	748	206
6C-250/500-75	75	152	380 / 660	0.82	90	881	206
6C-250/500-80	80	166.9	380 / 660	0.82	90	881	206
6C-250/500-92	92	190	380 / 660	0.82	90	946	206

* Weight is given for pumps of grey cast iron (index «G» in pump designation)

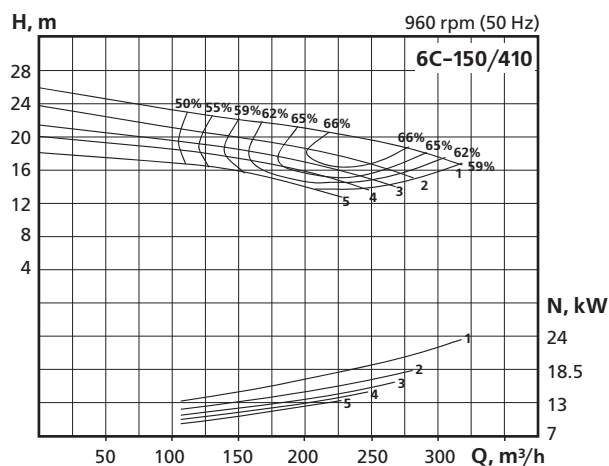
PERFORMANCE CURVES



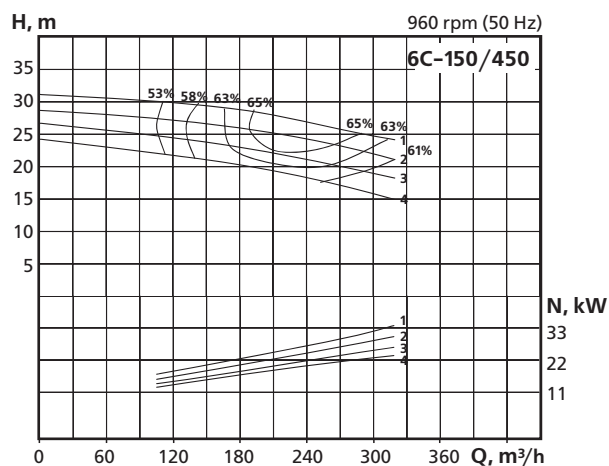
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅269	103NU	7.5	∅150	100
2	∅260		5.5		
3	∅245		5.5		
4	∅230		4		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅330	3205	18.5	∅150	90
2	∅320		15		
3	∅310		15		
4	∅300		11		
5	∅290		11		
6	∅290		9.2		

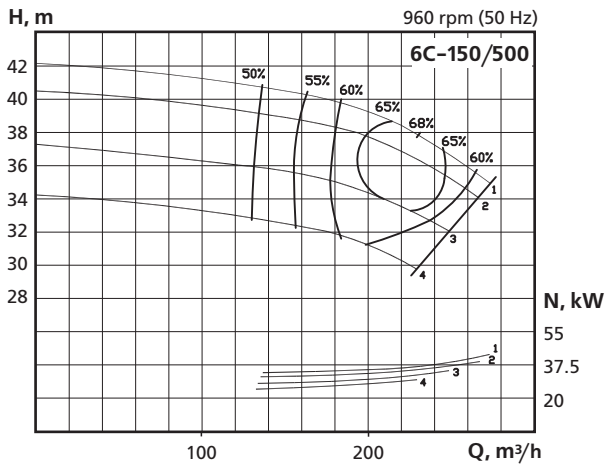


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅415	1465	30	∅150	80
2	∅400		18.5		
3	∅390		18.5		
4	∅380		15		
5	∅360		15		

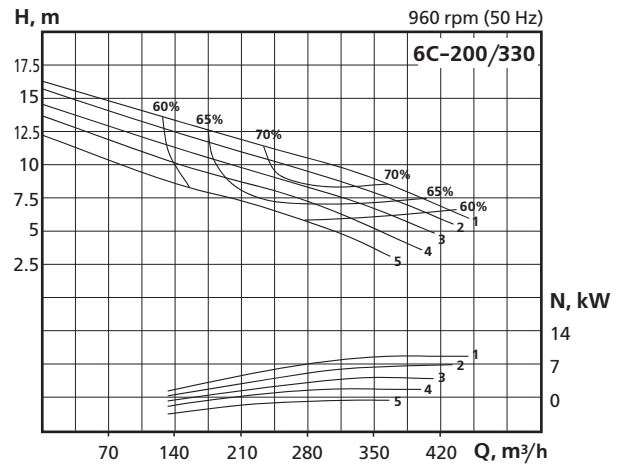


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅450	3258	37	∅150	80
2	∅430		30		
3	∅410		30		
4	∅390		22		

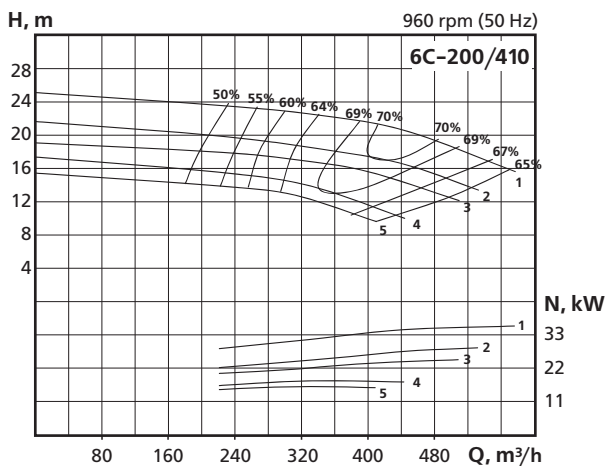
PERFORMANCE CURVES



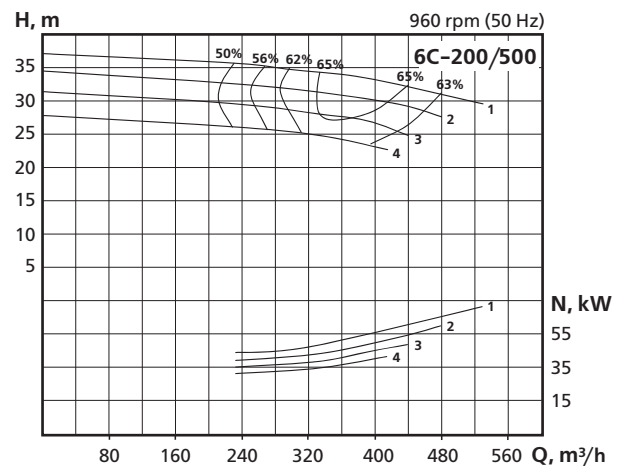
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅500	3099	55	∅150	80
2	∅490		45		
3	∅470		37		
4	∅450		30		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅328	103B	15	∅200	100
2	∅320		11		
3	∅310		11		
4	∅300		9.2		
5	∅290		7.5		

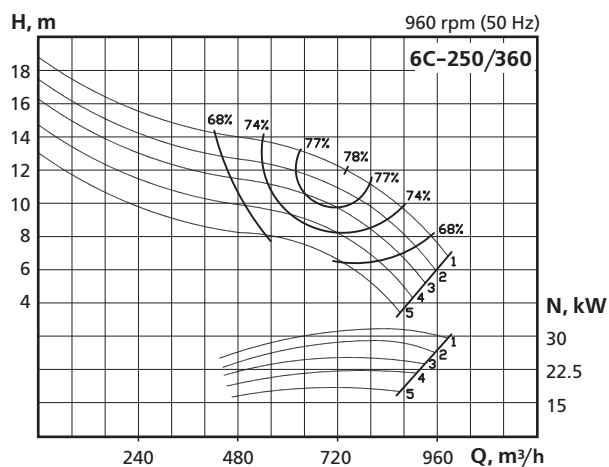


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅410	1474	37	∅200	110
2	∅400		37		
3	∅380		30		
4	∅360		22		
5	∅340		22		

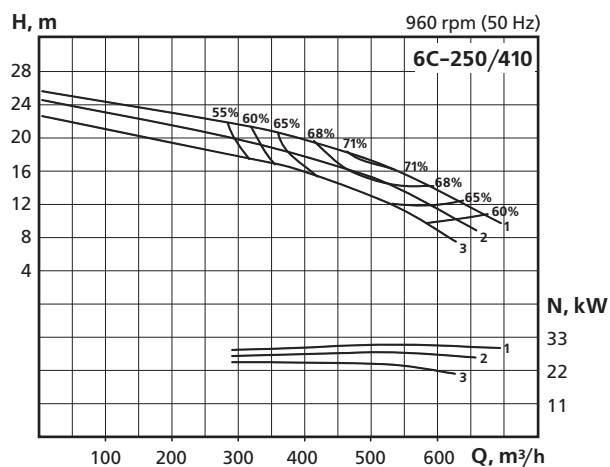


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅500	3242	75	∅200	105x65
2	∅480		75		
3	∅460		55		
4	∅440		45		

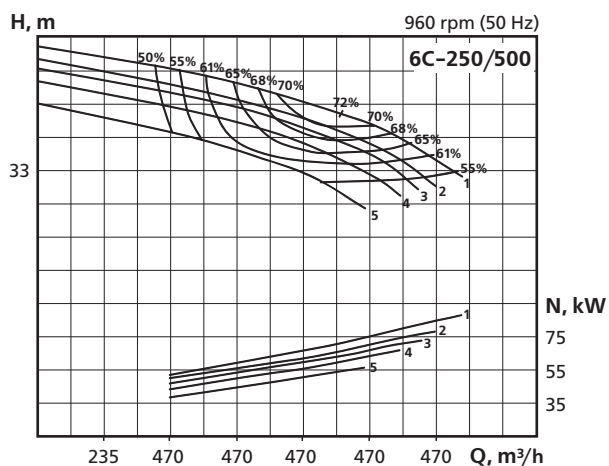
PERFORMANCE CURVES



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅370	117N	37	∅250	125
2	∅355		30		
3	∅340		30		
4	∅320		22		
5	∅300		18.5		



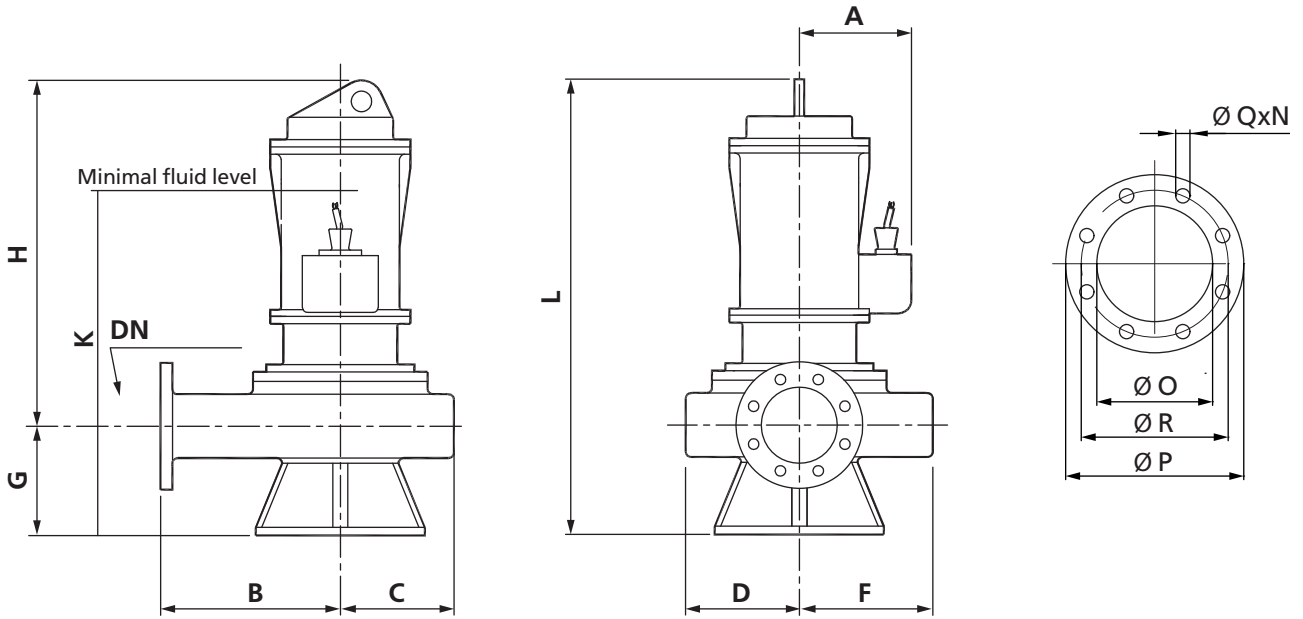
Nº	Действительный диаметр колеса, мм	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅409	3220	37	∅250	90
2	∅400		30		
3	∅390		30		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅498	3215	92	∅250	100
2	∅485		92		
3	∅476		75		
4	∅460		75		
5	∅440		55		

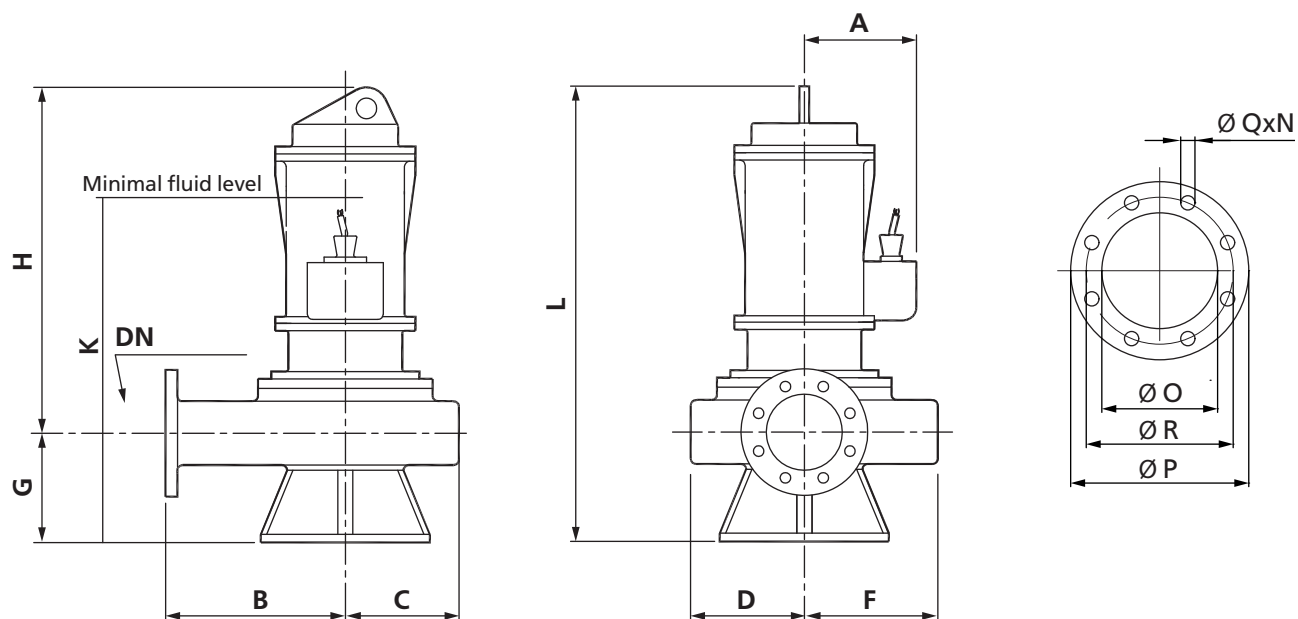
OVERALL DIMENSIONS

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Pump	Discharge Nozzle \varnothing	A	B	C	D	F	G	H	K	L	DN	O	P	R	Q	N
6C-150/270-4	150	212	315	215	195	240	293	653	820	946	150	150	285	240	23	8
6C-150/270-5.5	150	212	315	215	195	240	293	653	820	946	150	150	285	240	23	8
6C-150/270-7.5	150	212	315	215	195	240	293	653	820	946	150	150	285	240	23	8
6C-150/330-7.5	150	212	355	253	225	281	270	689	791	959	150	150	285	240	23	8
6C-150/330-9.2	150	212	355	253	225	281	270	689	791	959	150	150	285	240	23	8
6C-150/330-11	150	212	355	253	225	281	270	689	791	959	150	150	285	240	23	8
6C-150/410-15	150	267	415	274	244	304	240	788	793	1,028	150	150	285	240	23	8
6C-150/410-18.5	150	267	415	274	244	304	240	788	793	1,028	150	150	285	240	23	8
6C-150/410-22	150	306	415	274	244	304	240	902	907	1,142	150	150	285	240	23	8
6C-150/500-30	150	306	500	325	285	345	240	902	882	1,142	150	150	285	240	23	8
6C-150/500-37	150	306	500	325	285	345	240	902	882	1,142	150	150	285	240	23	8
6C-150/500-45	150	0	500	325	285	345	240	1,085	1,065	1,325	150	150	285	240	23	8
6C-150/500-55	150	0	500	325	285	345	240	1,280	1,260	1,520	150	150	285	240	23	8
6C-200/330-7.5	200	212	385	250	212	282	305	675	825	980	200	200	340	295	23	8
6C-200/330-11	200	212	385	250	212	282	305	675	825	980	200	200	340	295	23	8
6C-200/330-15	200	267	385	250	212	282	305	770	920	1,075	200	200	340	295	23	8

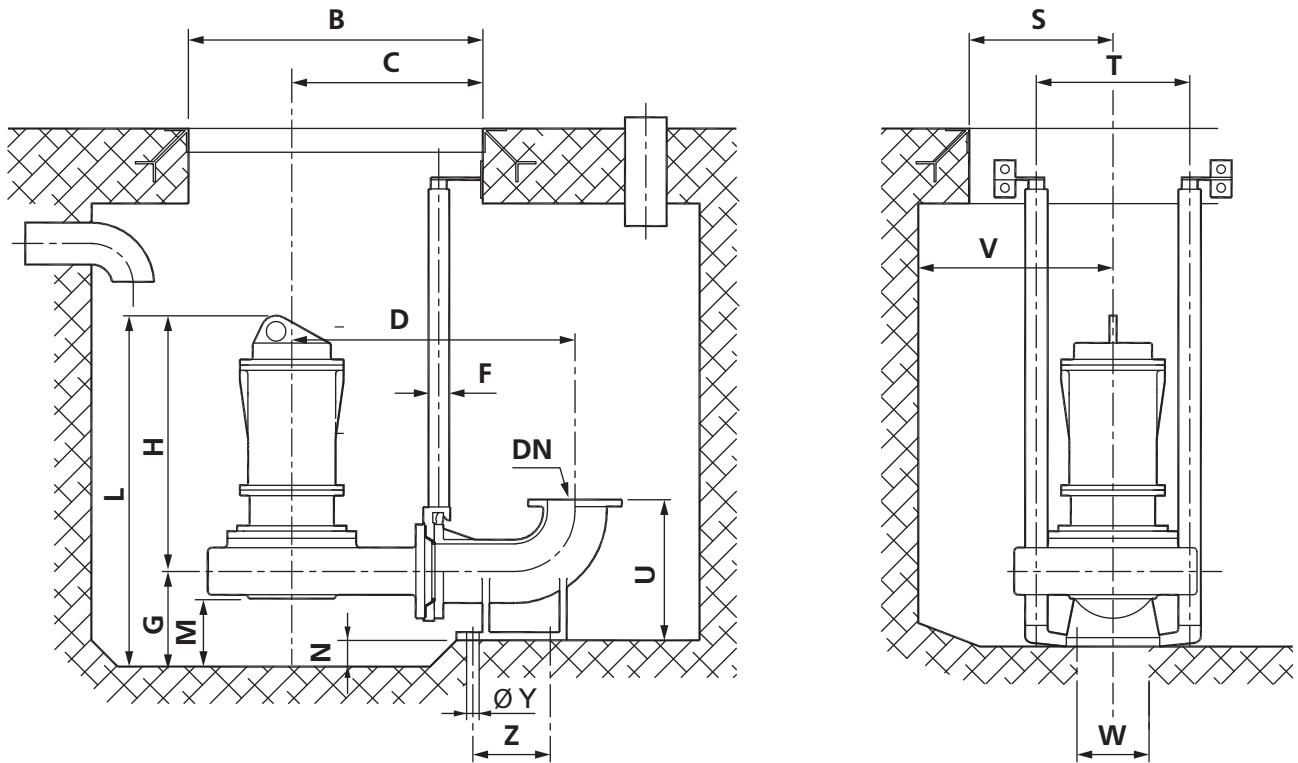
OVERALL DIMENSIONS



Pump	Discharge Nozzle \varnothing	A	B	C	D	F	G	H	K	L	DN	O	P	R	Q	N
6C-200/410-22	200	306	415	289	254	324	310	912	962	1,222	200	200	340	295	23	8
6C-200/410-30	200	306	415	289	254	324	310	912	962	1,222	200	200	340	295	23	8
6C-200/410-37	200	306	415	289	254	324	310	912	962	1,222	200	200	340	295	23	8
6C-200/500-37	200	306	500	400	371	409	292	910	862	1,202	200	200	340	295	23	8
6C-200/500-45	200	0	500	400	371	409	292	1,093	1,045	1,385	200	200	340	295	23	8
6C-200/500-55	200	0	500	400	371	409	292	1,288	1,240	1,580	200	200	340	295	23	8
6C-250/500-15	250	267	415	283	258	303	375	813	1,021	1,188	250	250	395	350	23	12
6C-250/360-18.5	250	267	415	283	258	303	375	813	1,021	1,188	250	250	395	350	23	12
6C-250/360-22	250	306	415	283	258	303	375	927	1,135	1,302	250	250	395	350	23	12
6C-250/360-30	250	306	415	283	258	303	375	927	1,135	1,302	250	250	395	350	23	12
6C-250/360-37	250	306	415	283	258	303	375	927	1,135	1,302	250	250	395	350	23	12
6C-250/410-37	250	0	455	305	265	345	360	922	942	1,282	250	250	395	350	23	12
6C-250/410-45	250	0	455	305	265	345	360	1,105	1,125	1,465	250	250	395	350	23	12
6C-250/410-55	250	0	455	305	265	345	360	1,300	1,320	1,660	250	250	395	350	23	12
6C-250/500-75	250	0	500	345	305	390	360	1,410	1,430	1,770	250	250	395	350	23	12
6C-250/500-80	250	0	500	345	305	390	360	1,410	1,430	1,770	250	250	395	350	23	12
6C-250/500-92	250	0	500	345	305	390	360	1,410	1,430	1,770	250	250	395	350	23	12

MOUNTING DIMENSIONS

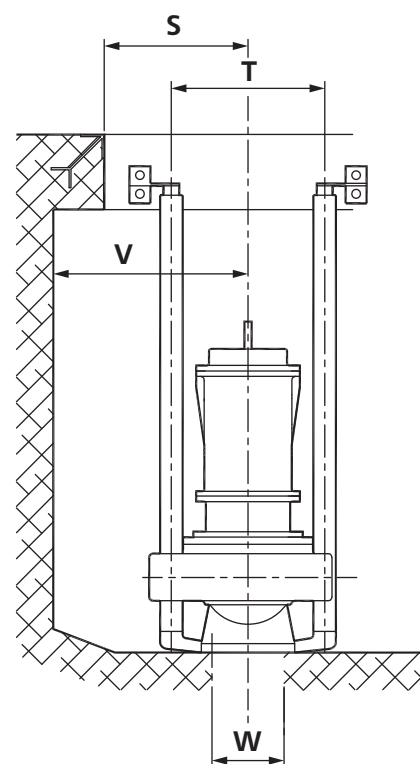
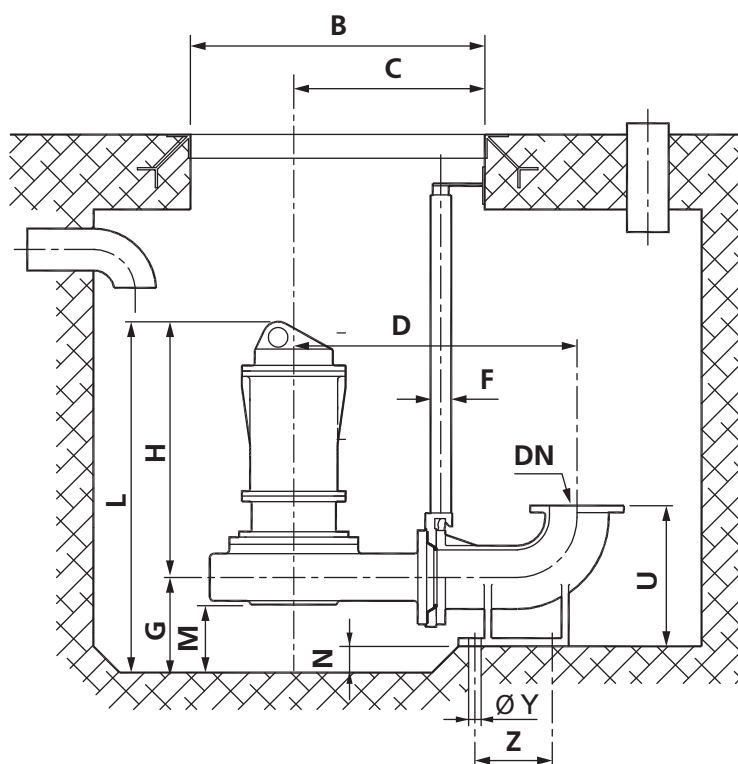
1/2



Pump	Discharge Nozzle Ø	L	G	H	B	C	D	DN	F	M	N	S	T	U	V	W	Y	Z
6C-150/270-4	150	946	293	653	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
6C-150/270-5.5	150	946	293	653	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
6C-150/270-7.5	150	946	293	653	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
6C-150/330-7.5	150	959	270	689	900	495	735	150	2"	150	148	400	420	325	650	160	23	258
6C-150/330-9.2	150	959	270	689	900	495	735	150	2"	150	148	400	420	325	650	160	23	258
6C-150/330-11	150	959	270	689	900	495	735	150	2"	150	148	400	420	325	650	160	23	258
6C-150/410-15	150	1,010	240	770	900	515	795	150	2"	150	118	400	420	325	650	160	23	258
6C-150/410-18.5	150	1,010	240	770	900	515	795	150	2"	150	118	400	420	325	650	160	23	258
6C-150/410-22	150	1,142	240	902	900	515	795	150	2"	150	118	400	420	325	650	160	23	258
6C-150/500-30	150	1,142	240	902	1,050	600	965	150	2"	150	100	400	420	400	650	200	23	260
6C-150/500-37	150	1,142	240	902	1,050	600	965	150	2"	150	100	400	420	400	650	200	23	260
6C-150/500-45	150	1,325	240	1,085	1,050	600	965	150	2"	150	100	400	420	400	650	200	23	260
6C-150/500-55	150	1,520	240	1,280	1,050	600	965	150	2"	150	100	400	420	400	650	200	23	260
6C-200/330-7.5	200	980	305	675	950	566	930	200	2 1/2"	200	55	500	510	510	700	240	28	280
6C-200/330-11	200	980	305	675	950	566	930	200	2 1/2"	200	55	500	510	510	700	240	28	280
6C-200/330-15	200	1,075	305	770	950	566	930	200	2 1/2"	200	55	500	510	510	700	240	28	280

MOUNTING DIMENSIONS

2/2



Pump	Discharge Nozzle \varnothing	L	G	H	B	C	D	DN	F	M	N	S	T	U	V	W	Y	Z
6C-200/410-22	200	1,222	310	912	1,000	596	960	200	2 1/2"	200	55	500	510	510	700	240	28	280
6C-200/410-30	200	1,222	310	912	1,000	596	960	200	2 1/2"	200	55	500	510	510	700	240	28	280
6C-200/410-37	200	1,222	310	912	1,000	596	960	200	2 1/2"	200	55	500	510	510	700	240	28	280
6C-200/500-37	200	1,202	292	910	1,200	681	1,045	200	2 1/2"	200	55	500	510	510	700	240	28	280
6C-200/500-45	200	1,385	292	1,093	1,200	681	1,045	200	2 1/2"	200	55	500	510	510	700	240	28	280
6C-200/500-55	200	1,580	292	1,288	1,200	681	1,045	200	2 1/2"	200	55	500	510	510	700	240	28	280
6C-250/500-15	250	1,188	375	813	1,000	600	1,025	250	2 1/2"	250	125	500	560	510	700	290	28	365
6C-250/360-18,5	250	1,188	375	813	1,000	600	1,025	250	2 1/2"	250	125	500	560	510	700	290	28	365
6C-250/360-22	250	1,302	375	927	1,000	600	1,025	250	2 1/2"	250	125	500	560	510	700	290	28	365
6C-250/360-30	250	1,302	375	927	1,000	600	1,025	250	2 1/2"	250	125	500	560	510	700	290	28	365
6C-250/360-37	250	1,302	375	927	1,000	600	1,025	250	2 1/2"	250	125	500	560	510	700	290	28	365
6C-250/410-37	250	1,282	360	922	1,050	640	1,065	250	2 1/2"	250	125	500	560	510	700	290	28	365
6C-250/410-45	250	1,465	360	1,105	1,050	640	1,065	250	2 1/2"	250	125	500	560	510	700	290	28	365
6C-250/410-55	250	1,660	360	1,300	1,050	640	1,065	250	2 1/2"	250	125	500	560	510	700	290	28	365
6C-250/500-75	250	1,770	360	1,410	1,050	685	1,110	250	2 1/2"	250	125	500	560	510	700	290	28	365
6C-250/500-80	250	1,770	360	1,410	1,050	685	1,110	250	2 1/2"	250	125	500	560	510	700	290	28	365
6C-250/500-92	250	1,770	360	1,410	1,050	685	1,110	250	2 1/2"	250	125	500	560	510	700	290	28	365

Types 4C, 6C, 8C

Pumps with discharge nozzle diameter over 300 mm

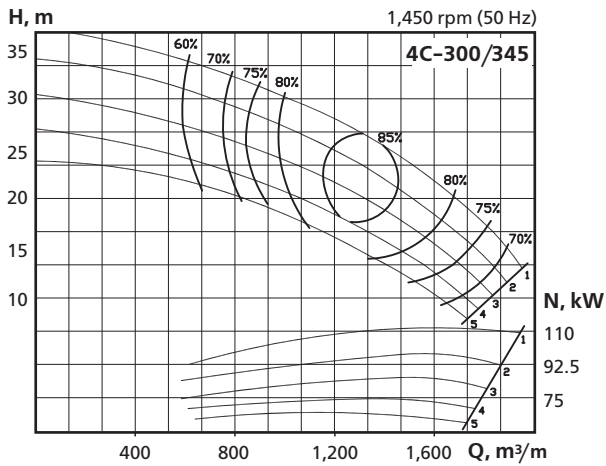
TECHNICAL DATA

- Capacity: up to 2,800 m³/h
- Head: up to 45 m
- Power: up to 250 kW
- Rotation speed: 730/960/1450 rpm
- Impeller type: channel
- Solids size: up to 160x120 mm

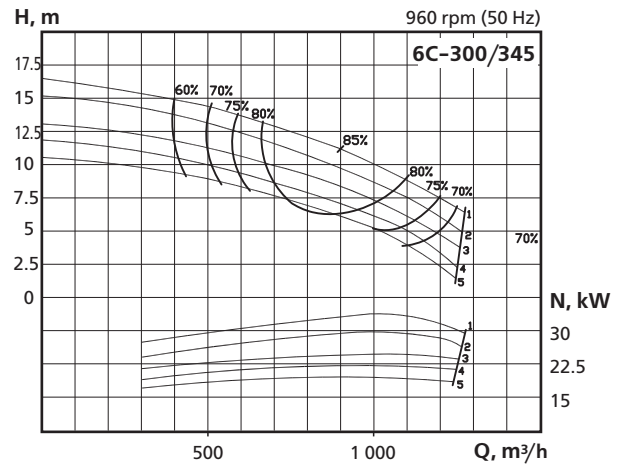
Pump	Power, kW	Rated current at 380V	Rated voltage, V	Cos φ	Motor efficiency, %	Pump weight, kg*	Base weight, kg*
4C-300/345-75	75	148	380 / 660	0.85	89	812	349
4C-300/345-92	92	185	380 / 660	0.85	89	844	349
4C-300/345-100	100	197	380 / 660	0.85	89	877	349
4C-300/345-110	110	217	380 / 660	0.85	91	877	349
6C-300/345-22	22	47.1	380 / 660	0.83	86	602	349
6C-300/345-30	30	63.5	380 / 660	0.82	86	622	349
6C-300/345-37	37	76.6	380 / 660	0.84	87	632	349
6C-300/500-45	45	91	380 / 660	0.84	88	946	349
6C-300/500-55	55	114	380 / 660	0.84	88	970	349
6C-300/500-75	75	152	380 / 660	0.82	90	1,019	349
6C-300/500-80	80	166.9	380 / 660	0.82	90	1,614	349
6C-350/500-75	75	152	380 / 660	0.82	90	1,058	411
6C-350/500-92	92	190	380 / 660	0.82	90	1,123	411
6C-350/500-110	110	228	380 / 660	0.82	90	1,496	411
6C-400/500-162	162	334	380 / 660	0.82	90	1,715	411
6C-400/500-200	200	408	380 / 660	0.82	91	2,176	411
6C-400/500-250	250	512	380 / 660	0.83	91	2,267	411
8C-300/500-37	37	80.4	380 / 660	0.8	87	986	349
8C-300/500-45	45	96.5	380 / 660	0.8	87	1 084	349
8C-350/500-45	45	96.5	380 / 660	0.8	87	1 009	411
8C-350/500-55	55	121	380 / 660	0.78	89	1 421	411
8C-350/500-75	75	135	380 / 660	0.78	89	1 534	411
8C-400/500-75	75	135	380 / 660	0.78	89	1 677	411
8C-400/500-92	92	202	380 / 660	0.78	89	1 753	411
8C-400/500-110	110	242	380 / 660	0.78	89	1 753	411

* Weight is given for pumps of grey cast iron (index «G» in pump designation)

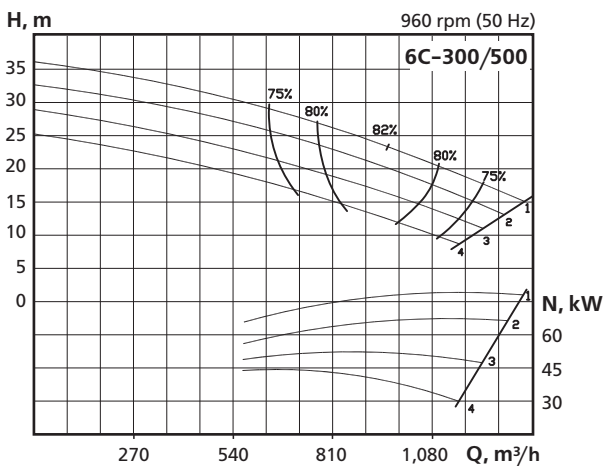
PERFORMANCE CURVES



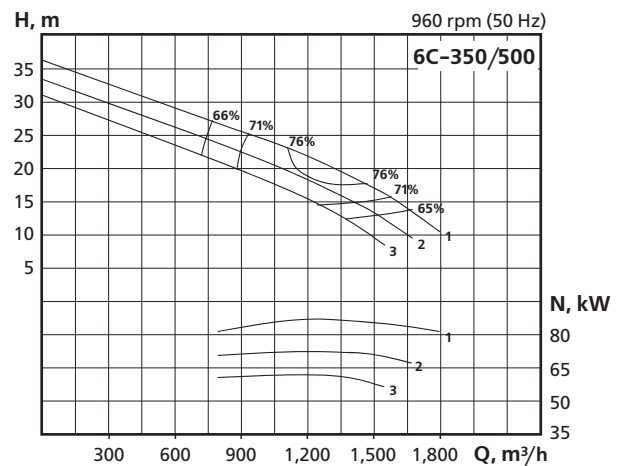
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅345 x 345	3148	110	∅300	100
2	∅305 x 345		100		
3	∅265 x 345		92		
4	∅225 x 345		75		
5	∅215 x 335		75		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅345 x 345	3148	37	∅300	120x70
2	∅305 x 345		30		
3	∅265 x 345		30		
4	∅225 x 345		22		
5	∅215 x 335		22		

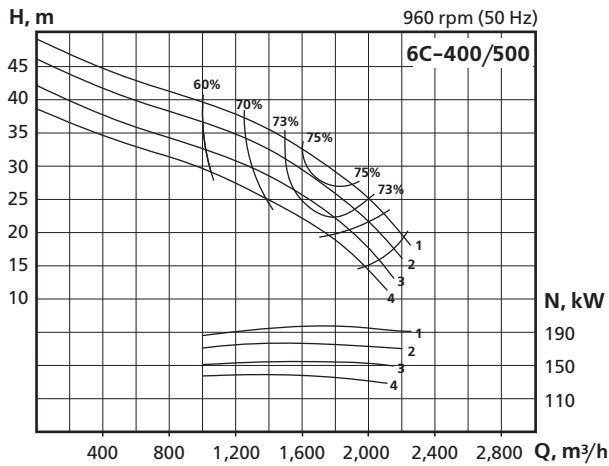


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅500	125	80	∅300	100
2	∅470		75		
3	∅440		55		
4	∅410		45		

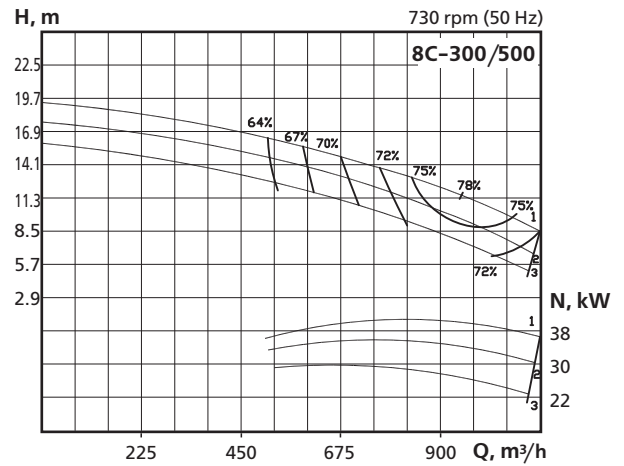


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅498	3214	92	∅350	125x102
2	∅480		75		
3	∅460		75		

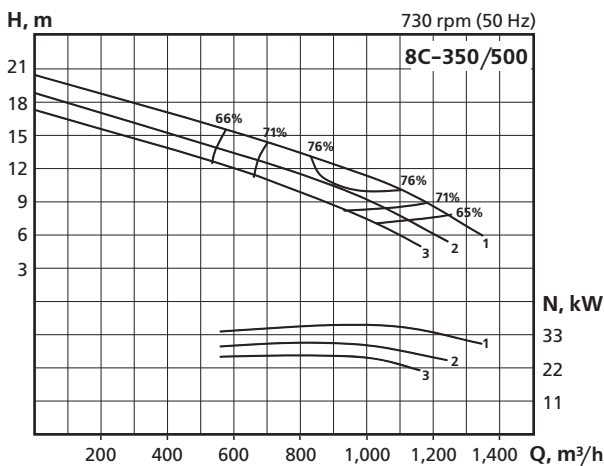
PERFORMANCE CURVES



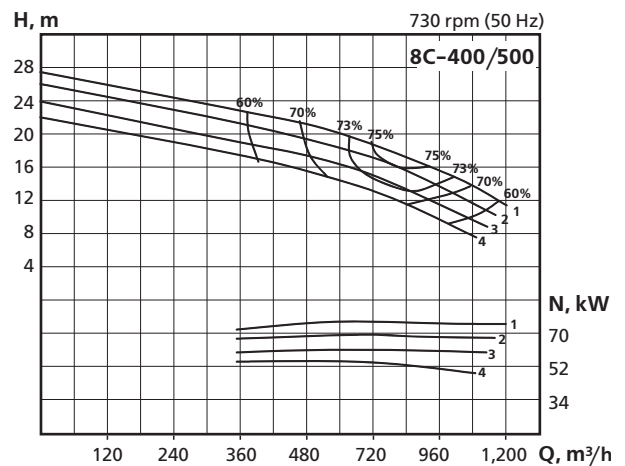
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅600	3103	200	∅400	160x120
2	∅580		200		
3	∅560		162		
4	∅550		162		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅500	157N	45	∅300	125x102
2	∅470		37		
3	∅440		37		

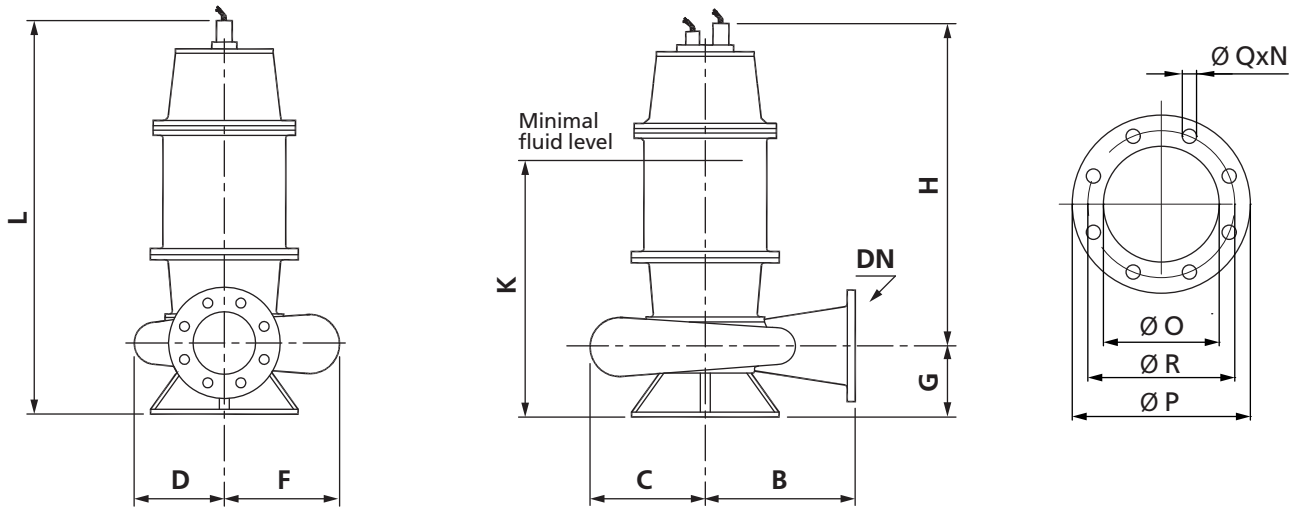


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅498	3214	45	∅350	115
2	∅480		37		
3	∅460		30		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅600	3103	92	∅400	160x120
2	∅580		75		
3	∅560		75		
4	∅550		55		

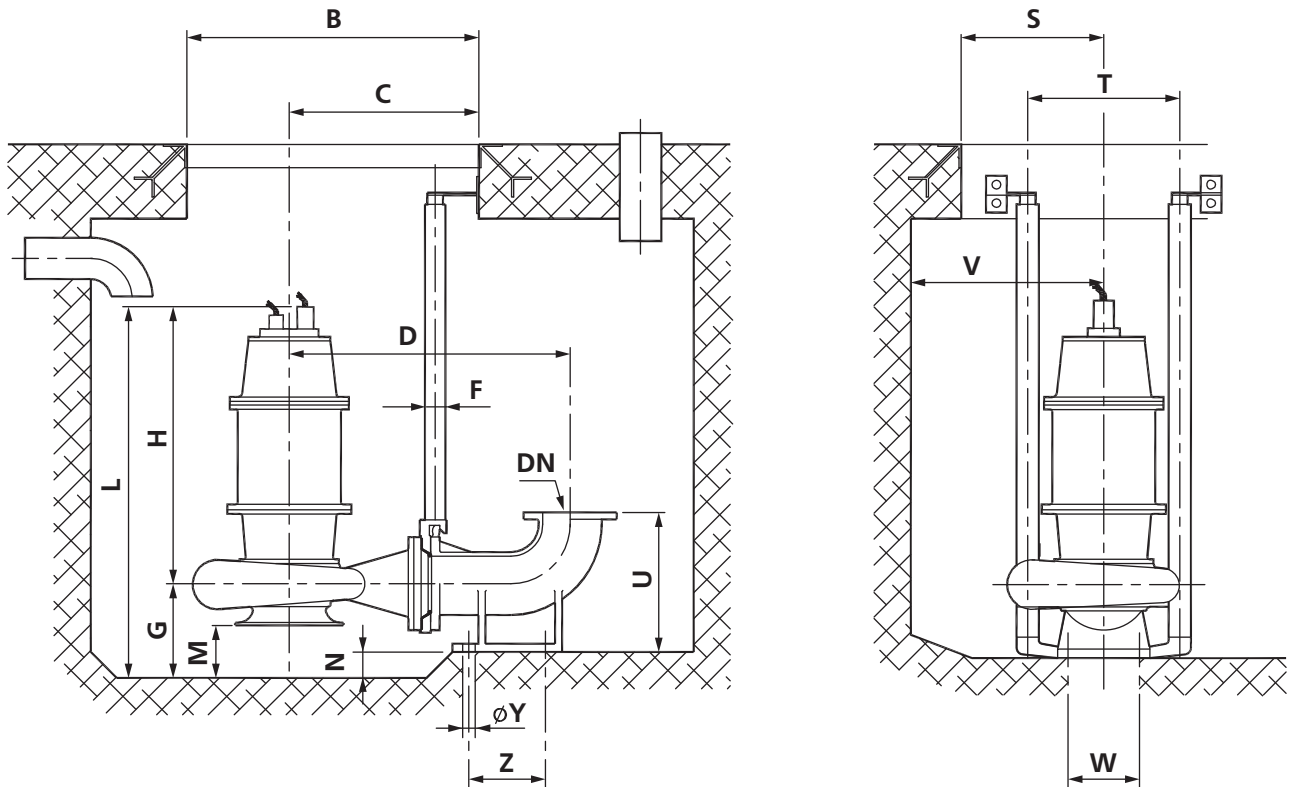
OVERALL DIMENSIONS



Pump	Discharge Nozzle Ø	A*	B	C	D	F	G	H	K	L	DN	O	P	R	Q	N
4C-300/345-75	300	0	600	440	380	470	845	1,275	1,860	2,120	300	300	445	400	23	12
4C-300/345-92	300	0	600	440	380	470	845	1,275	1,860	2,120	300	300	445	400	23	12
4C-300/345-100	300	0	600	440	380	470	845	1,275	1,860	2,120	300	300	445	400	23	12
4C-300/345-110	300	0	600	440	380	470	845	1,275	1,860	2,120	300	300	445	400	23	12
6C-300/500-45	300	0	540	360	320	400	495	1,103	1,300	1,598	300	300	445	400	23	12
6C-300/345-22	300	306	600	430	380	470	630	965	1,360	1,595	300	300	445	400	23	12
6C-300/345-30	300	306	600	430	380	470	630	965	1,360	1,595	300	300	445	400	23	12
6C-300/345-37	300	306	600	430	380	470	630	965	1,360	1,595	300	300	445	400	23	12
6C-300/500-55	300	0	540	360	320	400	495	1,272	1,400	1,767	300	300	445	400	23	12
6C-300/500-75	300	0	540	360	320	400	495	1,372	1,500	1,867	300	300	445	400	23	12
6C-300/500-80	300	0	540	360	320	400	495	1,372	1,500	1,867	300	300	445	400	23	12
6C-350/500-75	350	0	700	530	470	580	580	1,365	1,600	1,945	350	350	505	460	23	16
6C-350/500-92	350	0	700	530	470	580	580	1,365	1,600	1,945	350	350	505	460	23	16
6C-350/500-110	350	0	700	545	470	580	580	1,365	1,600	1,945	350	350	505	460	23	16
6C-400/500-162	350	0	750	545	480	600	550	1,330	1,430	1,880	350	350	505	460	23	16
6C-400/500-200	350	0	750	545	480	600	550	1,330	1,430	1,880	350	350	505	460	23	16
6C-400/500-250	350	0	750	545	480	600	550	1,430	1,530	1,980	350	350	505	460	23	16
8C-300/500-37	300	0	540	360	320	400	495	1,298	1,495	1,793	300	300	445	400	23	12
8C-300/500-45	300	0	540	360	320	400	495	1,298	1,495	1,793	300	300	445	400	23	12
8C-350/500-45	350	0	700	530	470	580	580	1,255	1,490	1,835	350	350	505	460	23	16
8C-350/500-55	350	0	700	530	470	580	580	1,365	1,600	1,945	350	350	505	460	23	16
8C-350/500-75	350	0	700	530	470	580	580	1,365	1,600	1,945	350	350	505	460	23	16
8C-400/500-75	350	0	750	545	480	600	550	1,270	1,370	1,820	350	350	505	460	23	16
8C-400/500-92	350	0	750	545	480	600	550	1,270	1,370	1,820	350	350	505	460	23	16
8C-400/500-110	350	0	750	545	480	600	550	1,270	1,370	1,820	350	350	505	460	23	16

* Size A - distance from the pump axis to junction box

MOUNTING DIMENSIONS



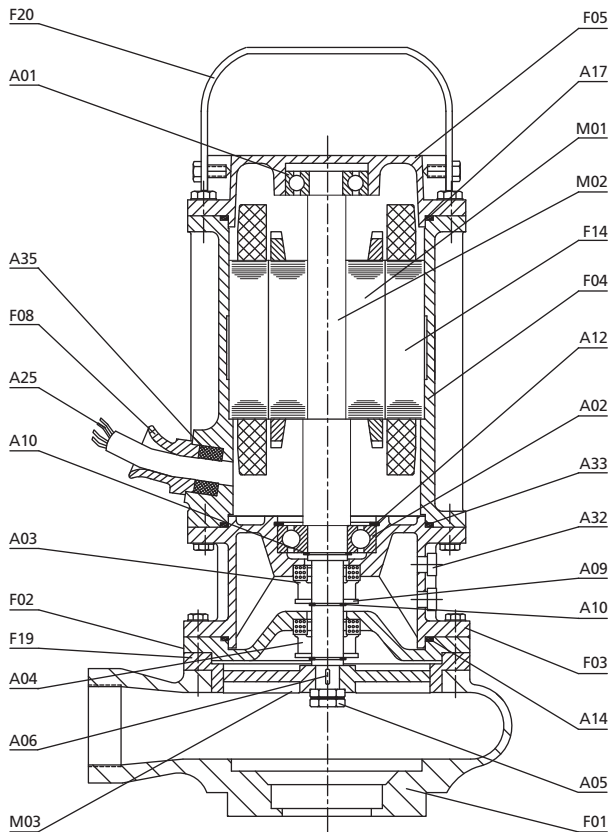
Pump	Discharge Nozzle Ø	L	G	H	B	C	D	DN	F	M	N	S	T	U	V	W	Y	Z
4C-300/345-75	300	1,950	675	1,275	1,260	795	1,288	300	3"	350	340	600	700	708	750	300	28	630
4C-300/345-92	300	1,950	675	1,275	1,260	795	1,288	300	3"	350	340	600	700	708	750	300	28	630
4C-300/345-100	300	1,950	675	1,275	1,260	795	1,288	300	3"	350	340	600	700	708	750	300	28	630
4C-300/345-110	300	1,950	675	1,275	1,260	795	1,288	300	3"	350	340	600	700	708	750	300	28	630
6C-300/345-22	300	1,595	630	965	1,360	785	1,025	300	3"	300	237	600	700	708	750	300	28	630
6C-300/345-30	300	1,595	630	965	1,360	785	1,025	300	3"	300	237	600	700	708	750	300	28	630
6C-300/345-37	300	1,595	630	965	1,360	785	1,025	300	3"	300	237	600	700	708	750	300	28	630
6C-300/500-45	300	1,602	495	1,107	1,300	718	1,288	300	3"	300	160	600	700	708	750	300	28	630
6C-300/500-55	300	1,797	495	1,302	1,300	718	1,288	300	3"	300	160	600	700	708	750	300	28	630
6C-300/500-75	300	1,907	495	1,412	1,300	718	1,288	300	3"	300	160	600	700	708	750	300	28	630
6C-300/500-80	300	1,907	495	1,412	1,300	718	1,288	300	3"	300	160	600	700	708	750	300	28	630
6C-350/500-75	350	1,985	580	1,405	1,600	900	1,390	350	3"	350	145	800	780	710	1,000	350	30	650
6C-350/500-92	350	1,985	580	1,405	1,600	900	1,390	350	3"	350	145	800	780	710	1,000	350	30	650
6C-350/500-110	350	1,985	580	1,405	1,600	900	1,390	350	3"	350	145	800	780	710	1,000	350	30	650
6C-400/500-162	400	2,020	550	1,470	1,700	952	1,492	350	3"	400	200	800	780	710	1,200	350	30	650
6C-400/500-200	400	2,020	550	1,470	1,700	952	1,492	350	3"	400	200	800	780	710	1,200	350	30	650
6C-400/500-250	400	2,120	550	1,570	1,700	952	1,492	350	3"	400	200	800	780	710	1,200	350	30	650
8C-300/500-37	300	1,797	495	1,302	1,300	718	1,228	300	3"	300	160	600	700	708	750	300	28	630
8C-300/500-45	300	1,797	495	1,302	1,300	718	1,228	300	3"	300	160	600	700	708	750	300	28	630
8C-350/500-45	350	1,797	495	1,302	1,300	718	1,228	300	3"	300	160	600	700	708	750	300	28	630
8C-350/500-55	350	1,985	580	1,405	1,600	900	1,390	350	3"	350	145	800	780	710	1,000	350	30	650
8C-350/500-75	350	1,985	580	1,405	1,600	900	1,390	350	3"	350	145	800	780	710	1,000	350	30	650
8C-400/500-75	400	1,980	550	1,430	1,700	952	1,492	350	3"	400	200	800	780	710	1,200	350	30	650
8C-400/500-92	400	1,980	550	1,430	1,700	952	1,492	350	3"	400	200	800	780	710	1,200	350	30	650
8C-400/500-110	400	1,980	550	1,430	1,700	952	1,492	350	3"	400	200	800	780	710	1,200	350	30	650

Types 2VT, 4VT

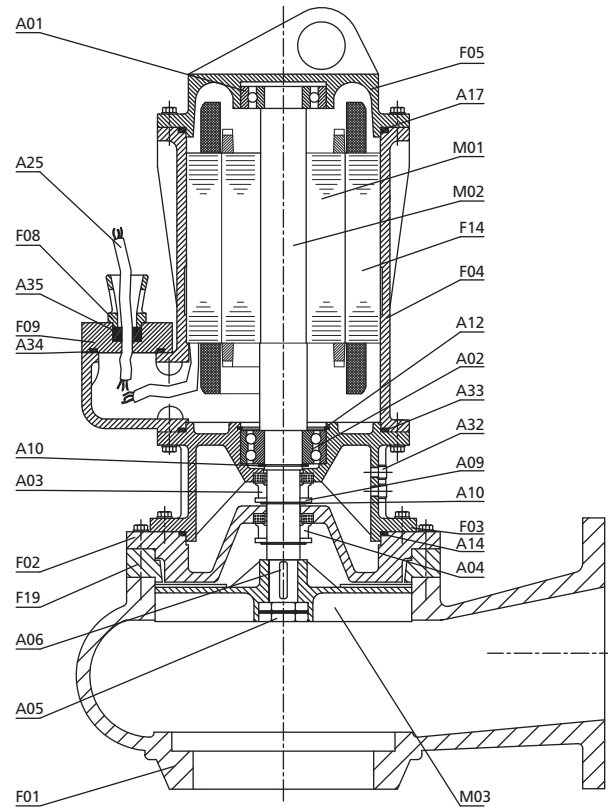
Pumps with discharge nozzle diameter up to 150 mm

CROSS-SECTION DRAWING

SIDUS Pumps Type 2VT (up to 3 kW),
SIDUS Pumps Type 4VT (up to 1.5 kW)



SIDUS Pumps Type 2VT (over 4 kW),
SIDUS Pumps Type 4VT (over 2,2 kW)



M01	Rotor
M02	Shaft
M03	Impeller
F01	Pump Casing
F02	Pump Casing Cover
F03	Oil Chamber
F04	Motor Casing
F05	Motor Cover
F08	Cable Clamp
F09	Junction Box Cover
F14	Stator
F19	Diaphragm
F20	Handle
A01	Upper Bearing
A02	Lower Bearing

A03	Upper Mechanical Seal
A04	Lower Mechanical Seal
A05	Impeller Nut
A06	Impeller Key
A09	Thrust Ring
A10	Snap Ring
A12	Bearing Clip Ring
A14	Oil Chamber O-Ring
A17	Motor Cover O-Ring
A25	Electric Cable
A32	Oil Level Plug
A33	Motor Casing O-Ring
A34	Junction Box O-ring
A35	Cable Entry Bushing

TECHNICAL DATA

1/2

- Capacity: up to 350 m³/h
- Head: up to 50 m
- Power: up to 22 kW
- Rotation speed: 1,450/2,900 rpm
- Impeller type: vortex
- Solids size: up to 120 mm

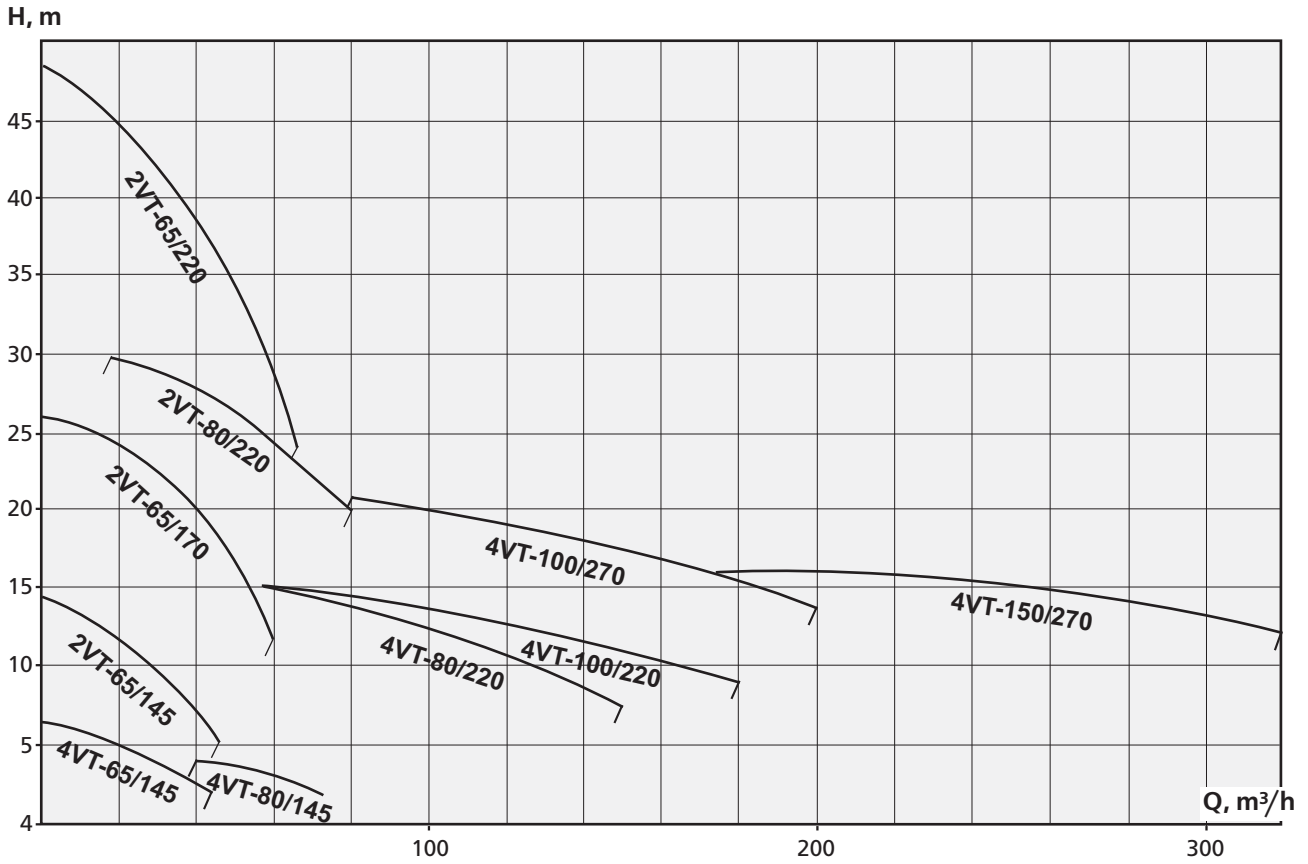
Pump	Power, kW	Rated current at 380V	Rated voltage, V	Cos φ	Motor efficiency, %	Pump weight, kg	Base weight, kg
2VT-65/145-1.1	1.1	4.8	220 / 380	0.6	55	34	30
2VT-65/145-1.5	1.5	5.2	220 / 380	0.75	60	34	30
2VT-65/145-2.2	2.2	6	220 / 380	0.8	70	36	30
2VT-65/145-3	3	6.6	220 / 380	0.86	79	36	30
2VT-65/170-4	4	9.3	220 / 380	0.84	79	91	30
2VT-65/170-5.5	5.5	12.3	220 / 380	0.85	80	92	30
2VT-65/170-7.5	7.5	17	380 / 660	0.82	81	126	30
2VT-65/170-9.2	9.2	19	380 / 660	0.87	84	126	30
2VT-65/170-11	11	25	380 / 660	0.81	83	143	30
2VT-65/170-15	15	30	380 / 660	0.88	85	143	30
2VT-65/220-7.5	7.5	17	380 / 660	0.82	81	136	30
2VT-65/220-9.2	9.2	19	380 / 660	0.87	84	136	30
2VT-65/220-11	11	25	380 / 660	0.81	83	153	30
2VT-65/220-15	15	30	380 / 660	0.88	85	153	30
2VT-65/220-18.5	18.5	40	380 / 660	0.83	84	156	30
2VT-65/220-22	22	45	380 / 660	0.88	85	168	30
2VT-80/145	1.5	5.2	220 / 380	0.6	55	32	30
2VT-80/220-7.5	7.5	17	380 / 660	0.82	81	146	56
2VT-80/220-9.2	9.2	19	380 / 660	0.87	84	146	56
2VT-80/220-11	11	25	380 / 660	0.81	83	163	56
2VT-80/220-15	15	30	380 / 660	0.88	85	163	56
2VT-80/220-18.5	18.5	40	380 / 660	0.83	84	166	56
2VT-80/220-22	22	45	380 / 660	0.88	85	178	56
4VT-65/145-1.1	1.1	4.8	220 / 380	0.6	55	36	30
4VT-65/145-1.5	1.5	5.2	220 / 380	0.75	60	36	30
4VT-65/170-1.5	1.5	5.2	220 / 380	0.75	60	56	30
4VT-65/170-2.2	2.2	6	220 / 380	0.77	73	90	30
4VT-65/170-3	3	7	220 / 380	0.83	77	92	30

TECHNICAL DATA

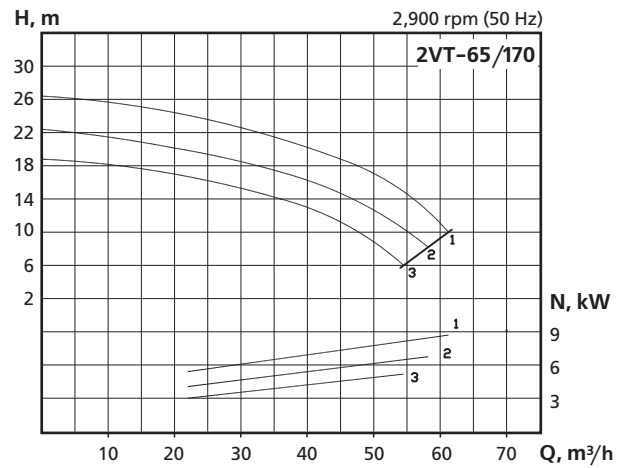
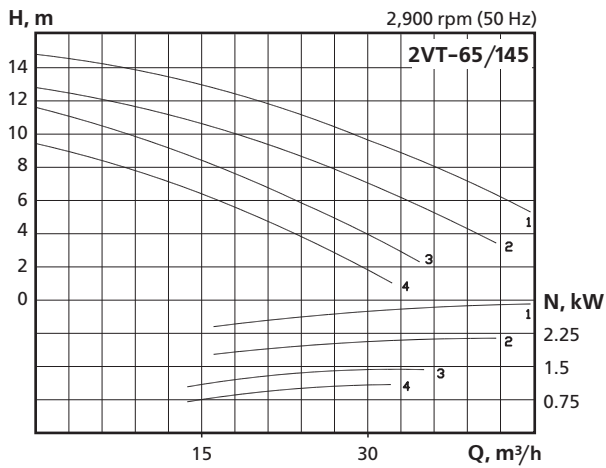
2/2

Pump	Power, kW	Rated current at 380V	Rated voltage, V	Cos φ	Motor efficiency, %	Pump weight, kg	Base weight, kg
4VT-65/220-2.2	2.2	6	220 / 380	0.77	73	100	30
4VT-65/220-3	3	7	220 / 380	0.83	77	102	30
4VT-65/220-4	4	9.3	220 / 380	0.84	79	105	30
4VT-65/220-5.5	5.5	12.3	220 / 380	0.86	79	105	30
4VT-80/220-2.2	2.2	6	220 / 380	0.77	73	107	56
4VT-80/220-3	3	7	220 / 380	0.83	77	110	56
4VT-80/220-4	4	9.3	220 / 380	0.84	79	113	56
4VT-80/220-5.5	5.5	12.3	220 / 380	0.86	79	113	56
4VT-80/220-7.5	7.5	17	380 / 660	0.81	82	153	56
4VT-80/220-9.2	9.2	19	380 / 660	0.87	84	153	56
4VT-80/220-11	11	25	380 / 660	0.79	85	163	56
4VT-80/220-15	15	30	380 / 660	0.87	86	163	56
4VT-100/220-2.2	2.2	6	220 / 380	0.77	73	111	56
4VT-100/220-3	3	7	220 / 380	0.83	77	114	56
4VT-100/220-4	4	9.3	220 / 380	0.84	79	117	56
4VT-100/220-5.5	5.5	12.3	220 / 380	0.86	79	117	56
4VT-100/220-7.5	7.5	17	380 / 660	0.81	82	157	56
4VT-100/220-9.2	9.2	19	380 / 660	0.87	84	157	56
4VT-100/220-11	11	25	380 / 660	0.79	85	167	56
4VT-100/220-15	15	30	380 / 660	0.87	86	167	56
4VT-100/270-15	15	30	380 / 660	0.87	86	198	56
4VT-100/270-18.5	18.5	40.2	380 / 660	0.82	85	220	56
4VT-100/270-22	22	45.4	380 / 660	0.86	86	263	56
4VT-150/270-7.5	7.5	17	380 / 660	0.81	82	193	89
4VT-150/270-9.2	9.2	19	380 / 660	0.87	84	193	89
4VT-150/270-11	11	25	380 / 660	0.79	85	203	89
4VT-150/270-15	15	30	380 / 660	0.87	86	203	89
4VT-150/270-18.5	18.5	40.2	380 / 660	0.82	85	225	89
4VT-150/270-22	22	45.4	380 / 660	0.86	86	268	89

PERFORMANCE RANGE



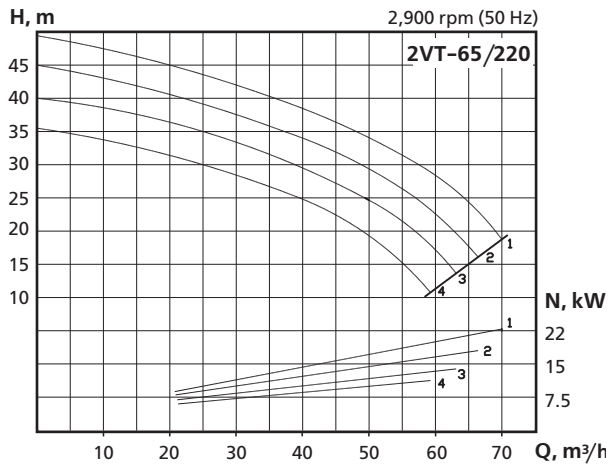
PERFORMANCE CURVES



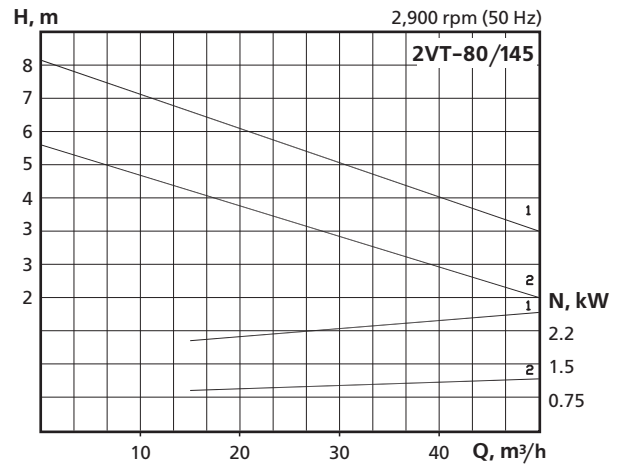
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅130x7	166N	3	∅65	45
2	∅130x5		2.2		
3	∅120x5		1.5		
4	∅120x3		1.1		

Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅170	3197	9.2	∅65	45
2	∅160		7.5		
3	∅150		5.5		

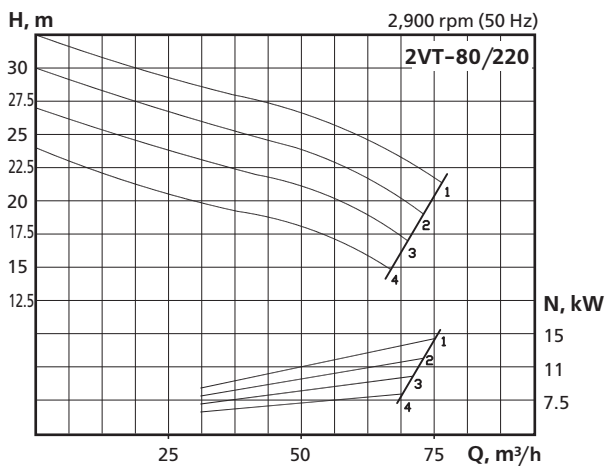
PERFORMANCE CURVES



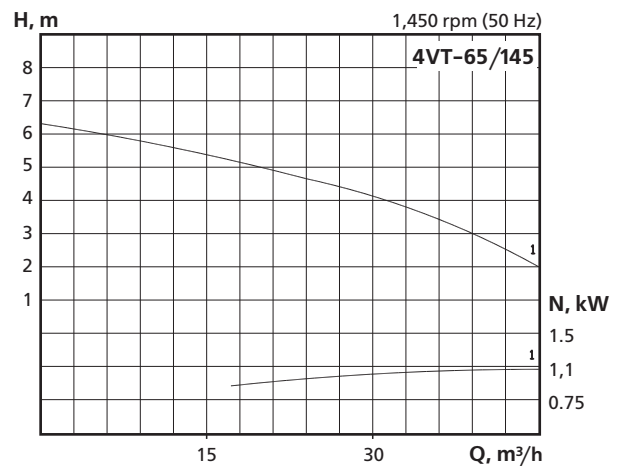
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅220	3007	22	∅65	45
2	∅210		18.5		
3	∅200		15		
4	∅190		11		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅130x7	166N	3	∅80	80
2	∅130x5		1.5		

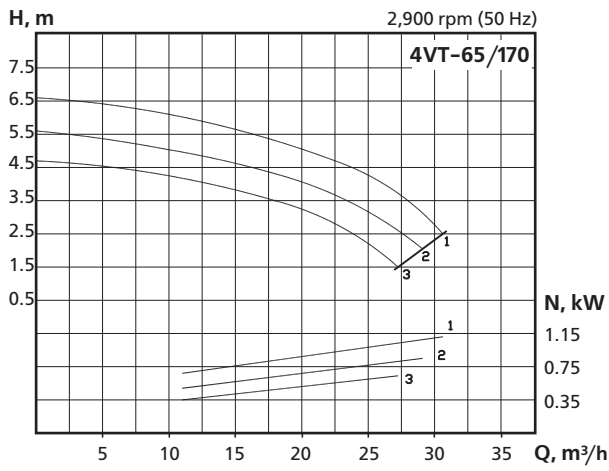


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅200x8	3007	15	∅80	80
2	∅190x8		11		
3	∅180x8		9.2		
4	∅170x8		7.5		

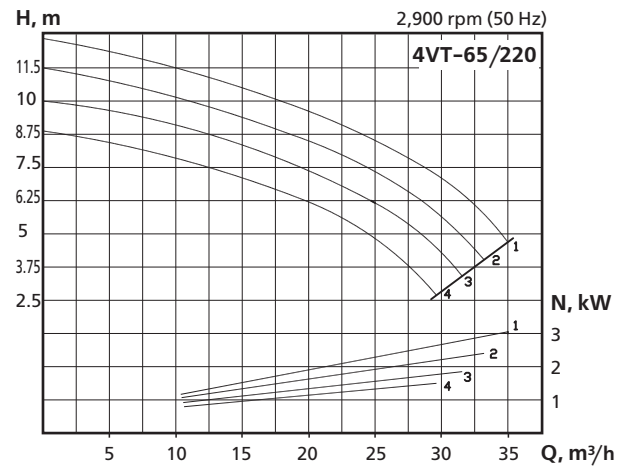


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅145x18	3062	1.5	∅65	45

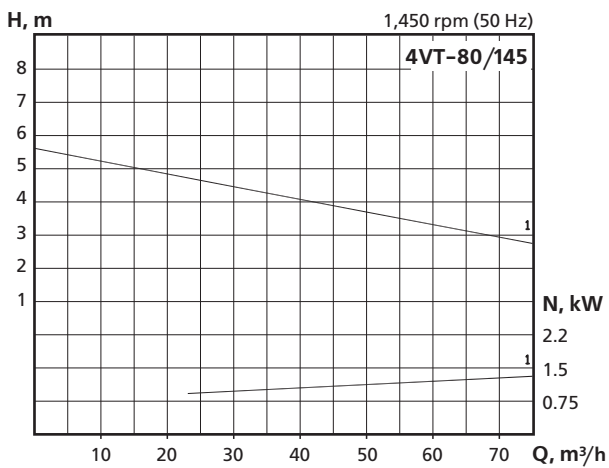
PERFORMANCE CURVES



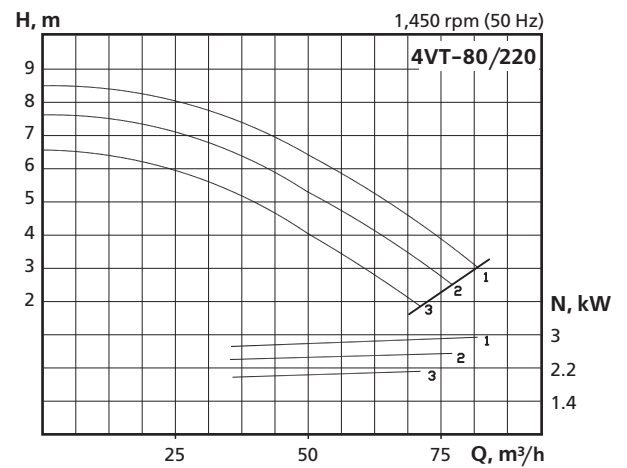
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅170	3197	1.5	∅65	45
2	∅160		1.1		
3	∅150		1.1		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅220	3007	4	∅65	45
2	∅210		3		
3	∅200		2.2		
4	∅190		2.2		

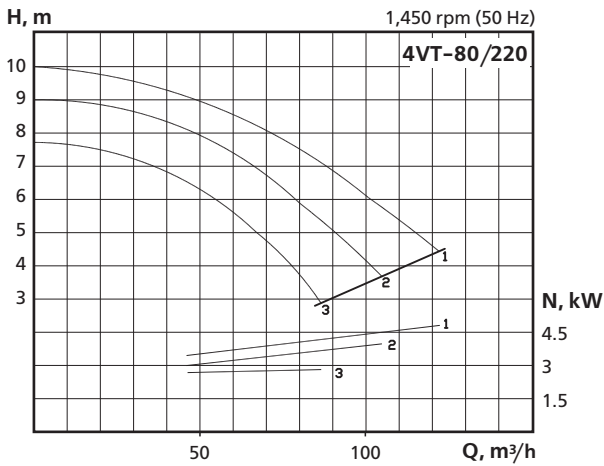


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅145x18	3062	1.5	∅80	80

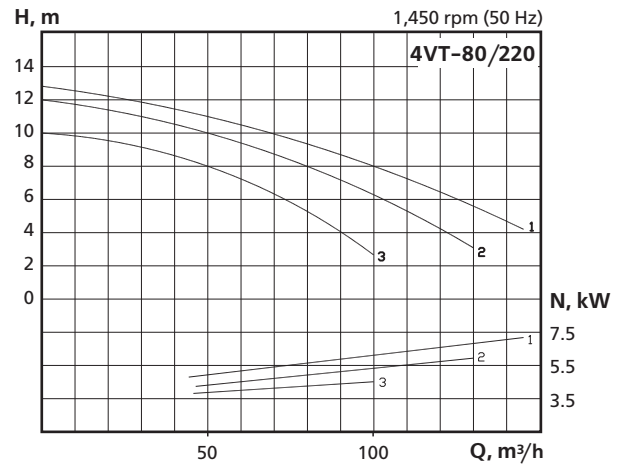


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅180x15	3007	3	∅80	70
2	∅180x15	3025	3		
3	∅180x15	181N	2.2		

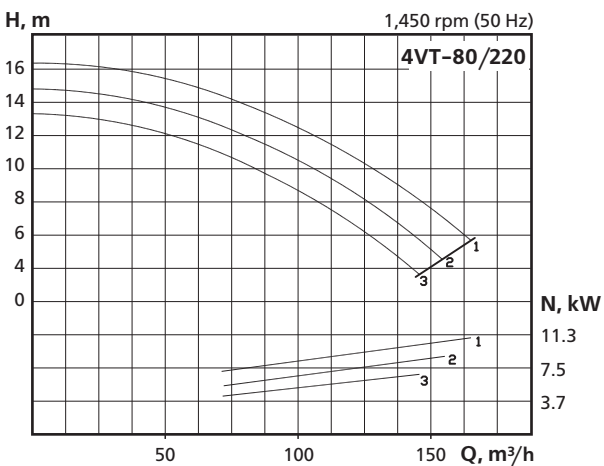
PERFORMANCE CURVES



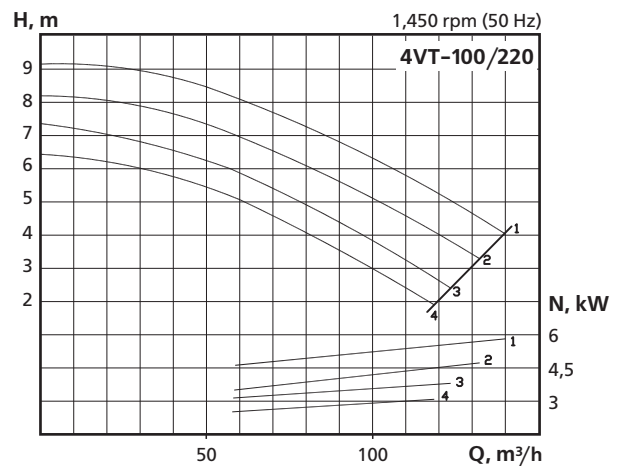
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅180x30	3007	5.5	∅80	70
2	∅180x30	3025	4		
3	∅180x30	181N	3		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅200x30	3007	7.5	∅80	70
2	∅200x30	3025	5.5		
3	∅200x30	181N	5.5		

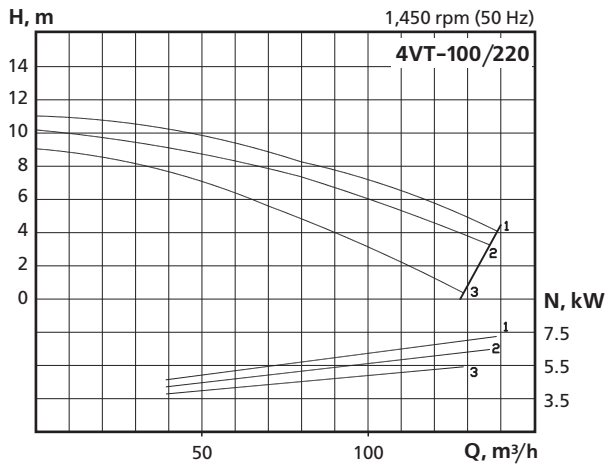


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅220x30	3007	11	∅80	70
2	∅220x30	3025	9.2		
3	∅220x30	181N	7.5		

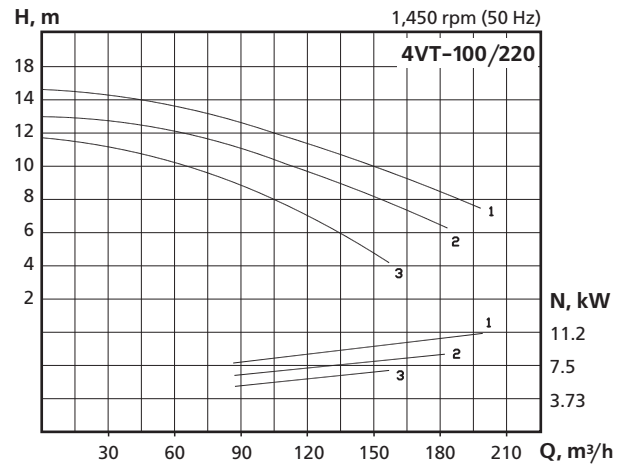


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅180x30	3007	5.5	∅100	100
2	∅180x30	3025	5.5		
3	∅180x30	3038	4		
4	∅180x30	181N	3		

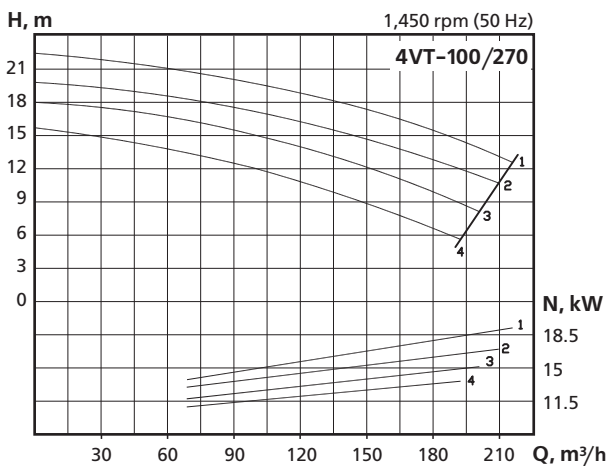
PERFORMANCE CURVES



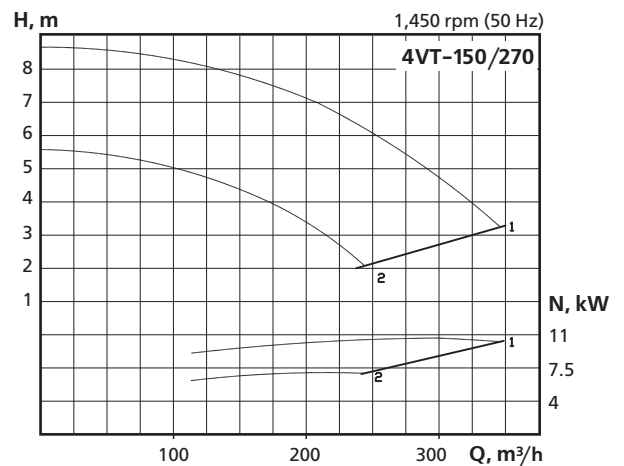
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅200x30	3007	7.5	∅100	100
2	∅200x30	3025	7.5		
3	∅200x30	181N	5		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅220x30	3007	11	∅100	100
2	∅220x30	3025	9.2		
3	∅220x30	181N	7.5		

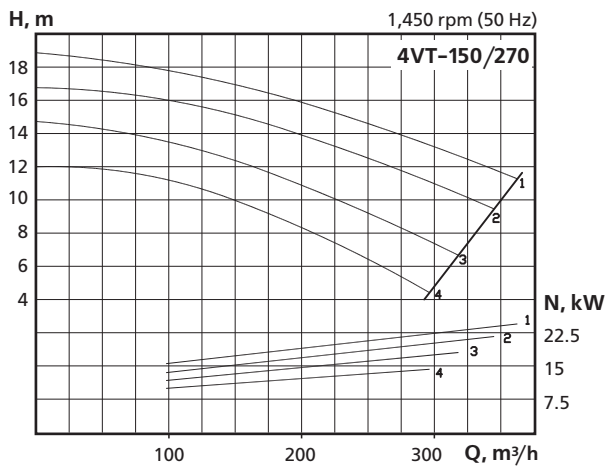


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅270x30	3014	22	∅100	100
2	∅270x30	3025	18.5		
3	∅270x30	3038	15		
4	∅270x30	181N	15		



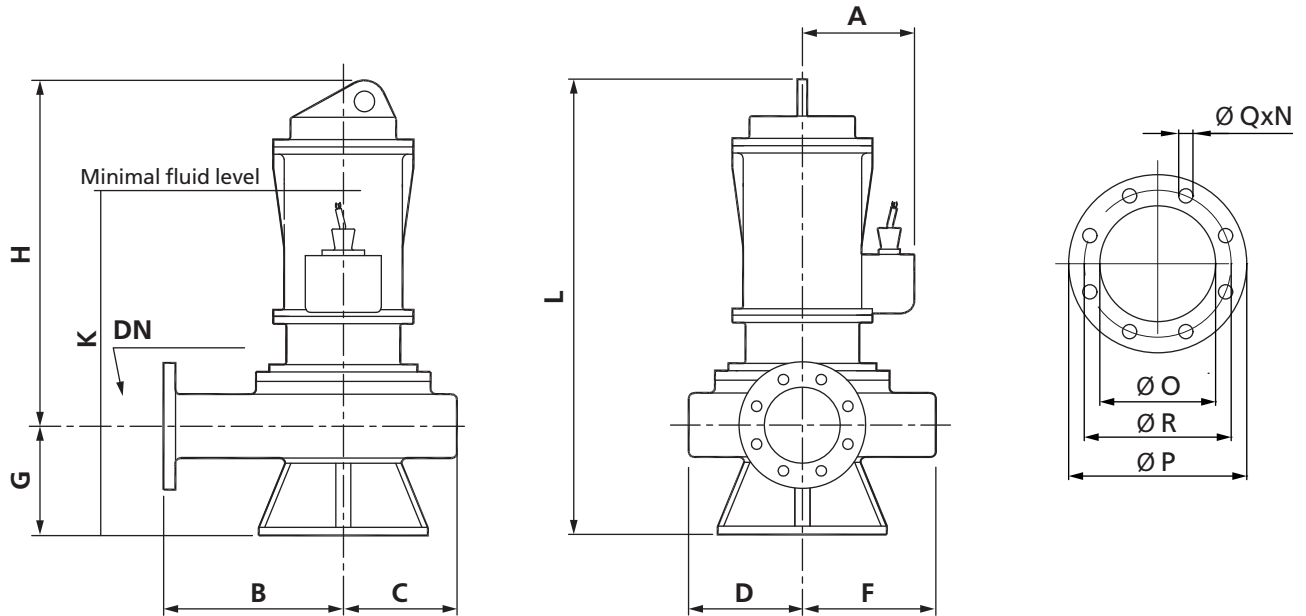
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅250x30	3038	11	∅150	120
2	∅250x30	181N	7.5		

PERFORMANCE CURVES



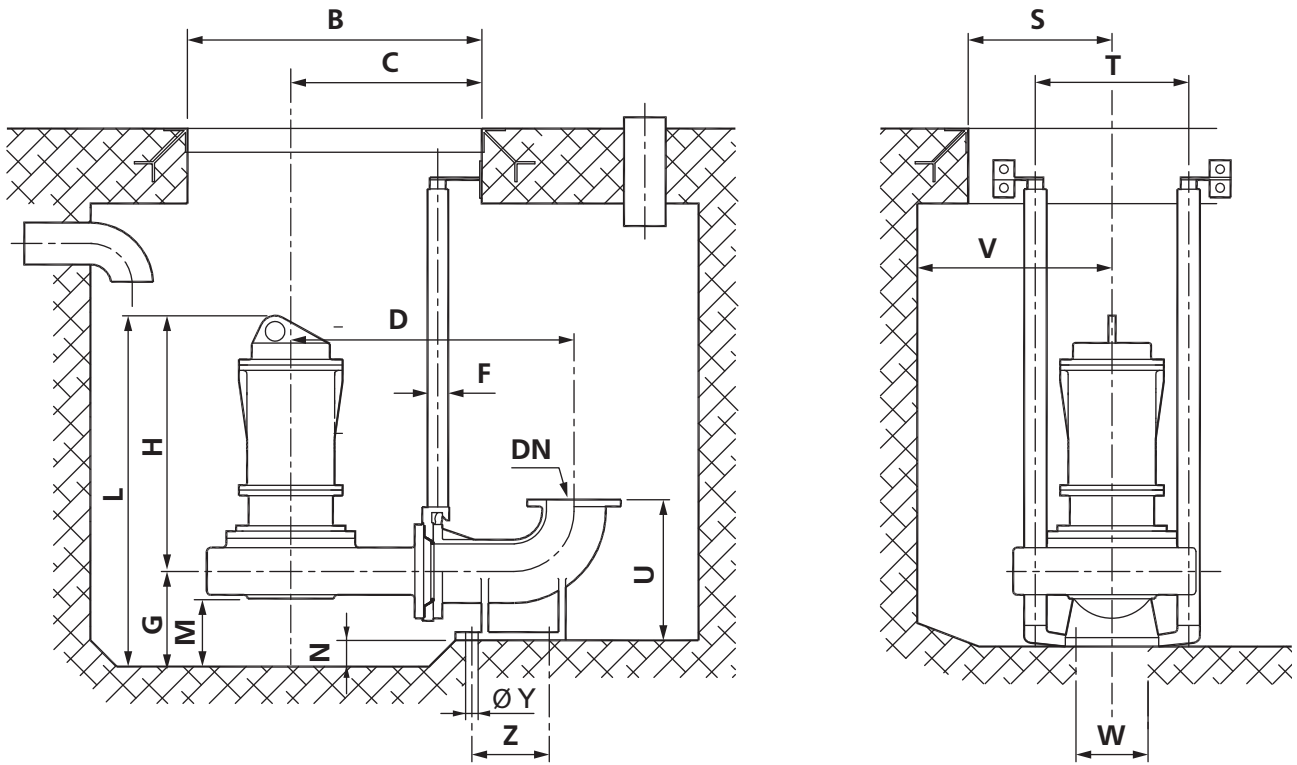
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅270x30	3014	22	∅150	120
2	∅270x30	3025	22		
3	∅270x30	3038	18,5		
4	∅270x30	181N	15		

OVERALL DIMENSIONS



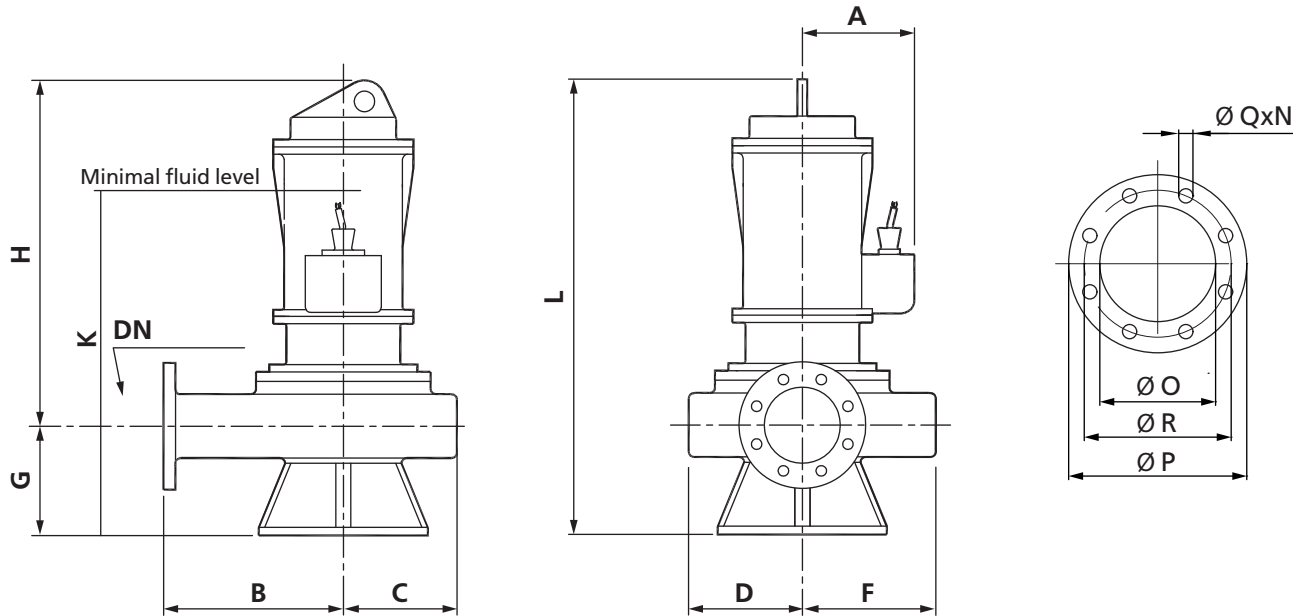
Pump	Discharge Nozzle Ø	A	B	C	D	F	G	H	K	L	DN	O	P	R	Q	N
2VT-65/145-1.1	2"	100	150	125	115	130	130	427	431	557	2"					
2VT-65/145-1.5	2"	100	150	125	115	130	130	427	431	557	2"					
2VT-65/145-2.2	2"	100	150	125	115	130	130	427	431	557	2"					
2VT-65/145-3	2"	100	150	125	115	130	130	427	431	557	2"					
2VT-65/170-5.5	2"	168	200	140	130	145	130	530	570	660	2"					
2VT-65/170-7.5	2"	212	200	140	130	145	130	624	664	754	2"					
2VT-65/170-9.2	2"	212	200	140	130	145	130	624	664	754	2"					
2VT-65/220-11	2"	212	250	155	150	160	150	674	694	824	2"					
2VT-65/220-15	2"	212	250	155	150	160	150	674	694	824	2"					
2VT-65/220-18.5	2"	212	250	155	150	160	150	674	694	824	2"					
2VT-65/220-22	2"	212	250	155	150	160	150	734	754	884	2"					
2VT-80/145-1.5	80	0	190	100	98	108	170	440	495	610	80	80	220	180	18	8
2VT-80/145-3	80	0	190	100	98	108	170	440	495	610	80	80	220	180	18	8
2VT-80/220-7.5	80	212	250	155	145	165	210	661	745	871	80	80	220	180	18	8
2VT-80/220-9.2	80	212	250	155	145	165	210	661	745	871	80	80	220	180	18	8
2VT-80/220-11	80	212	250	155	145	165	210	661	745	871	80	80	220	180	18	8
2VT-80/220-15	80	212	250	155	145	165	210	661	745	871	80	80	220	180	18	8

MOUNTING DIMENSIONS



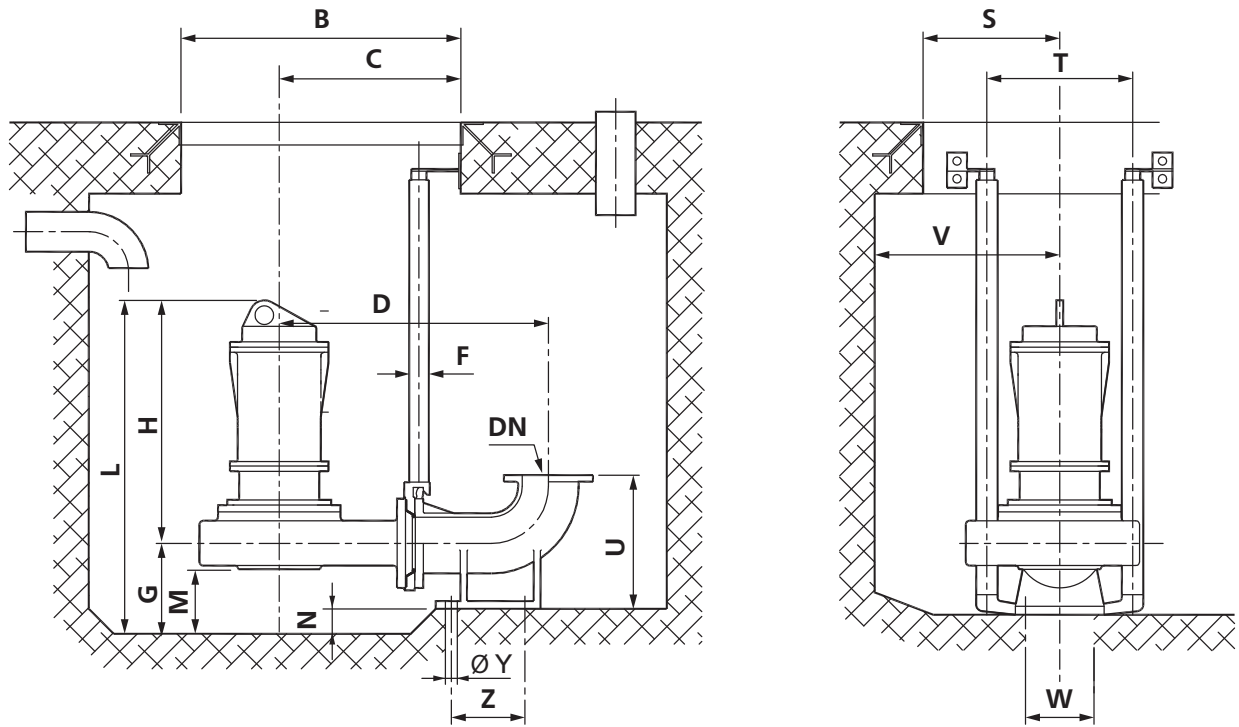
Pump	Discharge Nozzle Ø	L	G	H	B	C	D	DN	F	M	N	S	T	U	V	W	Y	Z
2VT-65/145-1.1	2"	557	130	427	500	297	460	65	1 1/2"	80	10	300	300	240	400	140	14	170
2VT-65/145-1.5	2"	557	130	427	500	297	460	65	1 1/2"	80	10	300	300	240	400	140	14	170
2VT-65/145-2.2	2"	557	130	427	500	297	460	65	1 1/2"	80	10	300	300	240	400	140	14	170
2VT-65/145-3	2"	557	130	427	500	297	460	65	1 1/2"	80	10	300	300	240	400	140	14	170
2VT-65/170-5.5	2"	710	130	565	500	297	460	65	1 1/2"	70	10	300	300	240	400	140	14	170
2VT-65/170-7.5	2"	804	130	674	500	297	460	65	1 1/2"	70	10	300	300	240	400	140	14	170
2VT-65/170-9.2	2"	804	130	674	500	297	460	65	1 1/2"	70	10	300	300	240	400	140	14	170
2VT-65/220-11	2"	824	150	674	600	347	510	65	1 1/2"	60	10	300	300	240	400	140	14	170
2VT-65/220-15	2"	824	150	674	600	347	510	65	1 1/2"	60	10	300	300	240	400	140	14	170
2VT-65/220-18.5	2"	824	150	674	600	347	510	65	1 1/2"	60	10	300	300	240	400	140	14	170
2VT-65/220-22	2"	884	150	734	600	347	510	65	1 1/2"	60	10	300	300	240	400	140	14	170
2VT-80/145-1.5	80	610	170	440	500	345	515	80	1 1/2"	80	25	200	90	230	300	120	16	215
2VT-80/145-3	80	610	170	440	500	345	515	80	1 1/2"	80	25	200	90	230	300	120	16	215
2VT-80/220-7.5	80	871	210	661	630	370	590	80	1 1/2"	100	100	400	370	265	500	140	18	215
2VT-80/220-9.2	80	871	210	661	630	370	590	80	1 1/2"	100	100	400	370	265	500	140	18	215
2VT-80/220-11	80	871	210	661	630	370	590	80	1 1/2"	100	100	400	370	265	500	140	18	215
2VT-80/220-15	80	871	210	661	630	370	590	80	1 1/2"	100	100	400	370	265	500	140	18	215

OVERALL DIMENSIONS



Pump	Discharge Nozzle Ø	A	B	C	D	F	G	H	K	L	DN	O	P	R	Q	N
4VT-65/145-1.5	2"	100	150	125	115	130	130	427	431	557	2"					
4VT-65/170-1.1	2"	100	200	140	130	145	130	435	475	565	2"					
4VT-65/170-1.5	2"	100	200	140	130	145	130	435	475	565	2"					
4VT-65/220-2.2	2"	168	250	155	150	160	150	580	600	730	2"					
4VT-65/220-3	2"	168	250	155	150	160	150	580	600	730	2"					
4VT-65/220-4	2"	168	250	155	150	160	150	580	600	730	2"					
4VT-80/145	80	168	250	155	145	165	210	537	642	747	80	80	220	180	18	8
4VT-80/220-2.2	80	168	250	155	145	165	210	537	642	747	80	80	220	180	18	8
4VT-80/220-3	80	168	250	155	145	165	210	537	642	747	80	80	220	180	18	8
4VT-80/220-4	80	168	250	155	145	165	210	537	642	747	80	80	220	180	18	8
4VT-80/220-5.5	80	168	250	155	145	165	210	537	642	747	80	80	220	180	18	8
4VT-80/220-7.5	80	212	250	155	145	165	210	661	745	871	80	80	220	180	18	8
4VT-80/220-9.2	80	212	250	155	145	165	210	661	745	871	80	80	220	180	18	8
4VT-80/220-11	80	212	250	155	145	165	210	661	745	871	80	80	220	180	18	8
4VT-100/220-3	100	168	280	176	160	195	215	581	691	796	100	80	220	180	18	8
4VT-100/220-4	100	168	280	176	160	195	215	581	691	796	100	80	220	180	18	8
4VT-100/220-5.5	100	168	280	176	160	195	215	581	691	796	100	80	220	180	18	8
4VT-100/220-7.5	100	168	280	176	160	195	215	581	691	796	100	80	220	180	18	8
4VT-100/220-9.2	100	212	280	176	160	195	215	675	764	890	100	80	220	180	18	8
4VT-100/220-11	100	212	280	176	160	195	215	675	764	890	100	80	220	180	18	8
4VT-100/270-15	100	212	340	220	200	240	198	658	730	856	100	100	220	180	18	8
4VT-100/270-18.5	100	212	340	220	200	240	198	718	790	916	100	100	220	180	18	8
4VT-100/270-22	100	267	340	220	200	240	198	753	825	951	100	100	220	180	18	8
4VT-150/270-7.5	150	212	315	215	195	240	293	683	850	976	150	150	285	240	23	8
4VT-150/270-11	150	212	315	215	195	240	293	683	850	976	150	150	285	240	23	9
4VT-150/270-15	150	212	315	215	195	240	293	683	850	976	150	150	285	240	23	8
4VT-150/270-18.5	150	212	315	215	195	240	293	743	910	1 036	150	150	285	240	23	8
4VT-150/270-22	150	267	315	215	195	240	293	778	910	1 071	150	150	285	240	23	8

MOUNTING DIMENSIONS

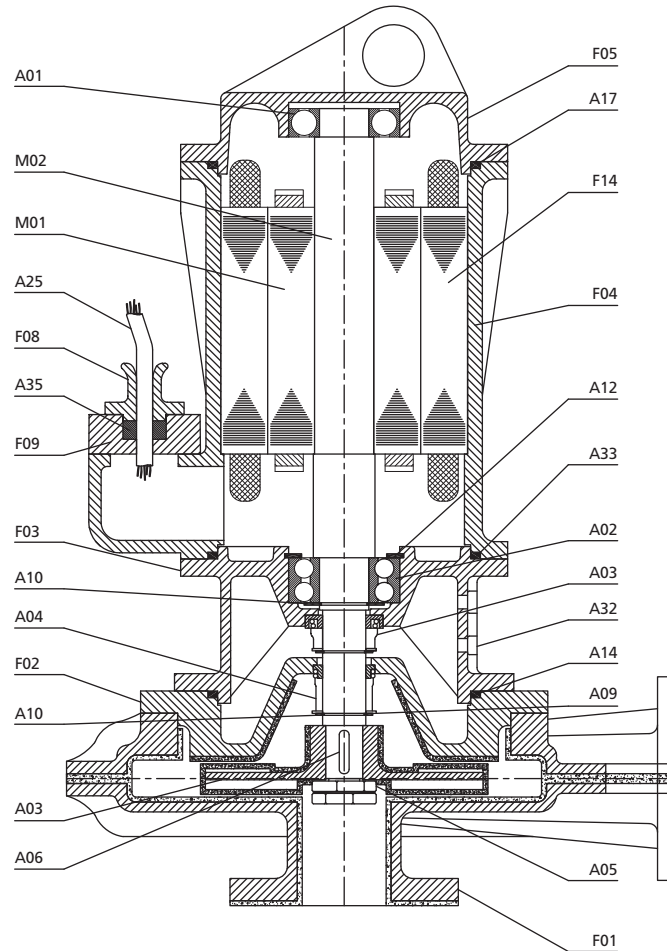


Pump	Discharge Nozzle Ø	L	G	H	B	C	D	DN	F	M	N	S	T	U	V	W	Y	Z
4VT-65/145-1.5	2"	557	130	427	500	297	460	65	1 1/2"	80	10	300	300	240	400	140	14	170
4VT-65/170-1.1	2"	710	130	565	500	297	460	65	1 1/2"	70	10	300	300	240	400	140	14	170
4VT-65/170-1.5	2"	710	130	565	500	297	460	65	1 1/2"	70	10	300	300	240	400	140	14	170
4VT-65/220-2.2	2"	730	150	580	600	347	510	65	1 1/2"	60	10	300	300	240	400	140	14	170
4VT-65/220-3	2"	730	150	580	600	347	510	65	1 1/2"	60	10	300	300	240	400	140	14	170
4VT-65/220-4	2"	730	150	580	600	347	510	65	1 1/2"	60	10	300	300	240	400	140	14	170
4VT-80/220-2.2	80	777	210	567	630	370	590	80	1 1/2"	100	100	400	370	265	500	140	18	215
4VT-80/220-3	80	777	210	567	630	370	590	80	1 1/2"	100	100	400	370	265	500	140	18	215
4VT-80/220-4	80	777	210	567	630	370	590	80	1 1/2"	100	100	400	370	265	500	140	18	215
4VT-80/220-5.5	80	777	210	567	630	370	590	80	1 1/2"	100	100	400	370	265	500	140	18	215
4VT-80/220-7.5	80	871	210	661	630	370	590	80	1 1/2"	100	100	400	370	265	500	140	18	215
4VT-80/220-9.2	80	871	210	661	630	370	590	80	1 1/2"	100	100	400	370	265	500	140	18	215
4VT-80/220-11	80	871	210	661	630	370	590	80	1 1/2"	100	100	400	370	265	500	140	18	215
4VT-100/220-3	100	796	150	581	660	400	620	100	1 1/2"	100	100	400	370	265	500	140	18	215
4VT-100/220-4	100	796	150	581	660	400	620	100	1 1/2"	100	100	400	370	265	500	140	18	215
4VT-100/220-5.5	100	796	150	581	660	400	620	100	1 1/2"	100	100	400	370	265	500	140	18	215
4VT-100/220-7.5	100	796	150	581	660	400	620	100	1 1/2"	100	100	400	370	265	500	140	18	215
4VT-100/220-9.2	100	890	215	675	700	400	620	100	1 1/2"	100	105	400	370	265	600	140	18	215
4VT-100/220-11	100	890	215	675	700	400	620	100	1 1/2"	100	105	400	370	265	600	140	18	215
4VT-100/270-15	100	886	198	688	800	460	680	100	1 1/2"	100	88	400	370	265	600	140	18	215
4VT-100/270-18.5	100	946	198	748	800	460	680	100	1 1/2"	100	88	400	370	265	600	140	18	215
4VT-100/270-22	100	981	198	783	800	460	680	100	1 1/2"	100	88	400	370	265	600	140	18	215
4VT-150/270-7.5	150	976	293	683	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
4VT-150/270-11	150	976	293	683	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
4VT-150/270-15	150	976	293	683	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
4VT-150/270-18.5	150	1 036	293	743	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
4VT-150/270-22	150	1 036	293	743	900	455	695	150	2"	150	148	400	420	325	650	160	23	258

Types 40G, 60G

Pumps with Rubberized Flow Path and Impeller

CROSS-SECTION DRAWING



M01	Rotor
M02	Shaft
M03	Impeller
F01	Pump Casing
F02	Pump Casing Cover
F03	Oil Chamber
F04	Motor Casing
F05	Motor Cover
F08	Cable Clamp
F09	Junction Box Cover
F14	Stator
A01	Upper Bearing
A02	Lower Bearing

A03	Upper Mechanical Seal
A04	Lower Mechanical Seal
A05	Impeller Nut
A06	Impeller Key
A09	Thrust Ring
A10	Snap Ring
A12	Bearing Clip Ring
A14	Oil Chamber O-Ring
A17	Motor Cover O-Ring
A33	Motor Casing O-Ring
A25	Electric Cable
A32	Oil Level Plug
A35	Cable Entry Bushing

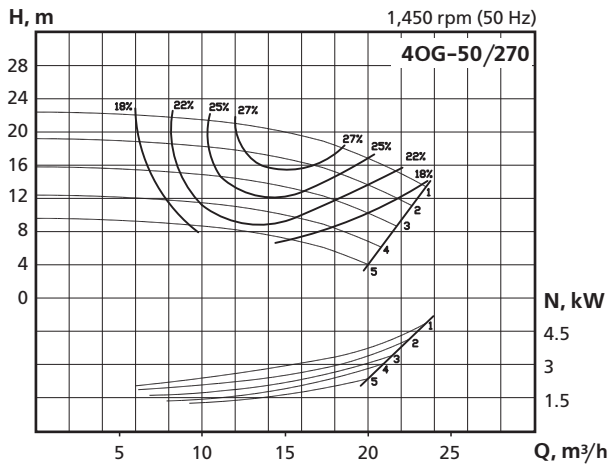
TECHNICAL DATA

- Impeller type: semi open
- Capacity: up to 450 m³/h
- Head: up to 26 m

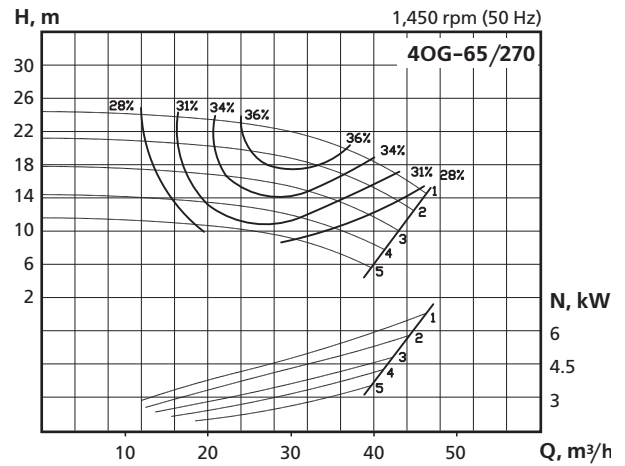
- Power: up to 45 kW
- Rotation speed: 960 / 1,450 rpm
- Solids size: up to 10 mm

Pump	Power, kW	Rated current at 380V	Rated voltage, V	Cos φ	Motor efficiency, %	Pump weight, kg	Base weight, kg
4OG-50/270-2.2	2.2	6	220 / 380	0.77	73	111	30
4OG-50/270-3	3	7	220 / 380	0.83	77	111	30
4OG-50/270-4	4	9.3	220 / 380	0.84	79	114	30
4OG-50/270-5.5	5.5	12.3	220 / 380	0.86	79	114	30
4OG-50/270-7.5	7.5	17	380 / 660	0.81	82	146	30
4OG-65/270-4	4	9.3	220 / 380	0.84	79	119	30
4OG-65/270-5.5	5.5	12.3	220 / 380	0.86	79	119	30
4OG-65/270-7.5	7.5	17	380 / 660	0.81	82	151	30
4OG-65/270-9.2	9.2	19	380 / 660	0.87	84	151	30
4OG-65/270-11	11	25	380 / 660	0.79	85	161	30
4OG-100/270-7.5	7.5	17	380 / 660	0.81	82	186	56
4OG-100/270-9.2	9.2	19	380 / 660	0.87	84	186	56
4OG-100/270-11	11	25	380 / 660	0.79	85	196	56
4OG-100/270-15	15	30	380 / 660	0.87	86	196	56
4OG-100/270-18.5	18.5	40.2	380 / 660	0.82	85	218	56
4OG-150/270-11	11	25	380 / 660	0.79	85	206	89
4OG-150/270-15	15	30	380 / 660	0.87	86	206	89
4OG-150/270-18.5	18.5	40.2	380 / 660	0.82	85	228	89
4OG-150/270-22	22	45.4	380 / 660	0.86	86	271	89
4OG-150/270-30	30	60.5	380 / 660	0.86	86	281	89
4OG-200/330-30	30	60.5	380 / 660	0.86	86	335	190
4OG-200/330-37	37	75	380 / 660	0.84	89	413	190
4OG-200/330-45	45	90	380 / 660	0.83	90	423	190
6OG-100/270-5.5	5.5	14.4	380 / 660	0.73	80	186	56
6OG-100/270-7.5	7.5	17.3	380 / 660	0.78	83	186	56
6OG-150/270-5.5	5.5	14.4	380 / 660	0.73	80	196	89
6OG-150/270-7.5	7.5	17.3	380 / 660	0.78	83	196	89
6OG-150/270-9.2	9.2	22.8	380 / 660	0.74	83	206	89
6OG-150/270-11	11	25.9	380 / 660	0.78	83	206	89
6OG-200/330-9.2	9.2	22.8	380 / 660	0.74	83	250	190
6OG-200/330-11	11	25.9	380 / 660	0.78	83	250	190
6OG-200/330-15	15	32.9	380 / 660	0.8	85	325	190

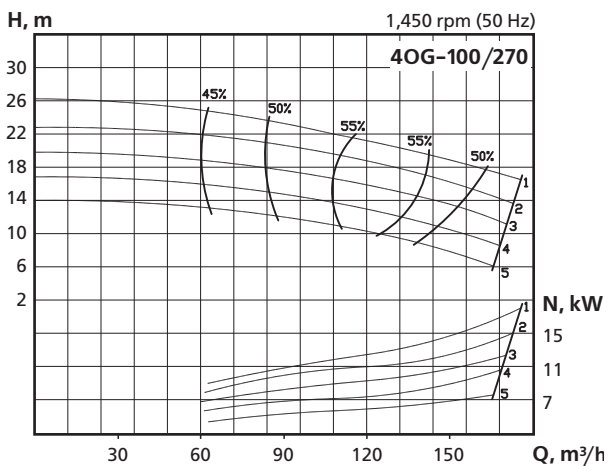
PERFORMANCE CURVES



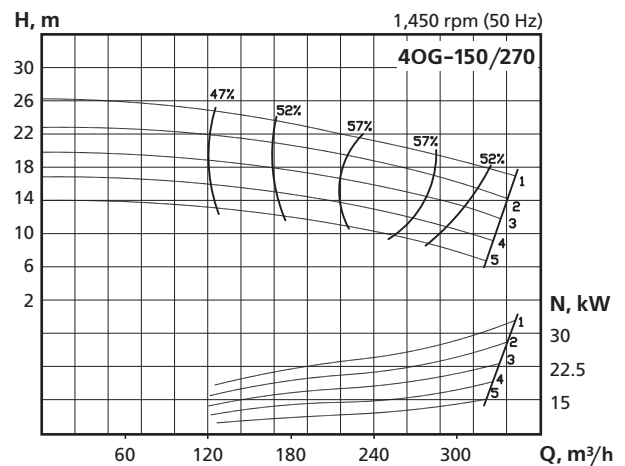
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅270	3014	5.5	∅65	8
2	∅250		4		
3	∅230		4		
4	∅210		3		
5	∅190		2.2		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅270	3014	7.5	∅65	10
2	∅250		7.5		
3	∅230		5.5		
4	∅210		5.5		
5	∅190		4		

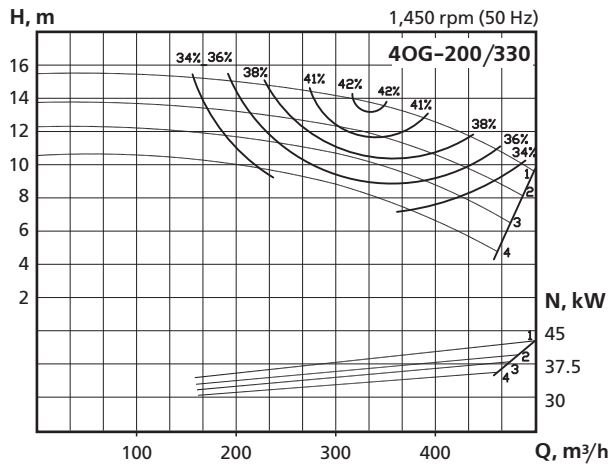


Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅260	3014	18.5	∅100	10
2	∅245		15		
3	∅230		15		
4	∅215		11		
5	∅200		7.5		

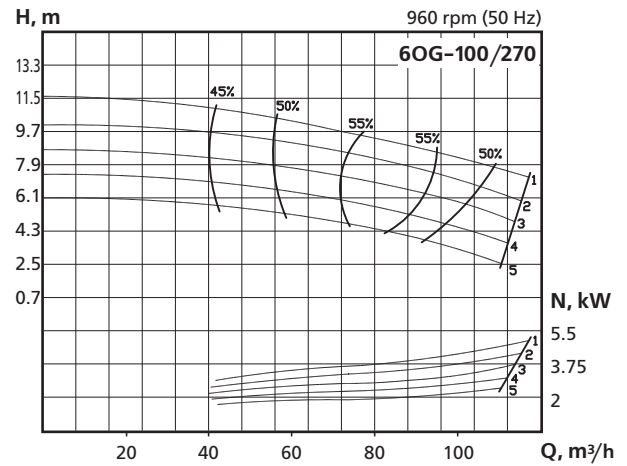


Nº	Действительный диаметр колеса, мм	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅260	3178	37	∅100	10
2	∅245		30		
3	∅230		30		
4	∅215		22		
5	∅200		18.5		

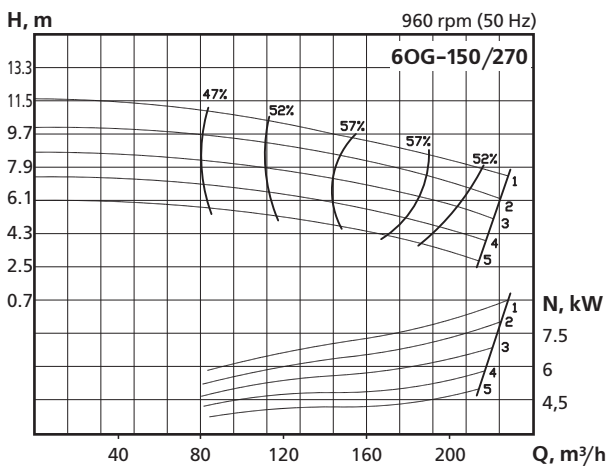
PERFORMANCE CURVES



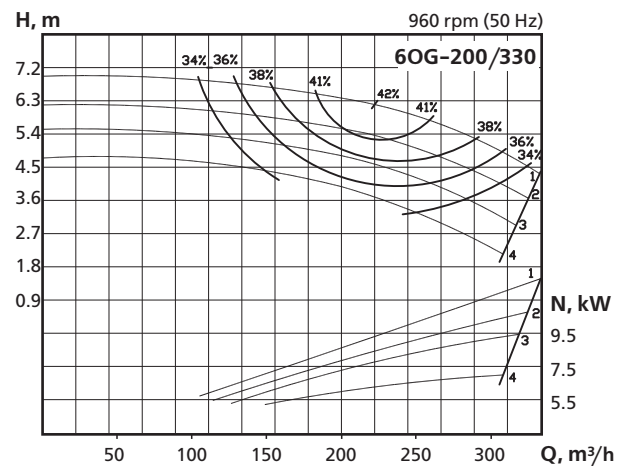
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅330x30	3037	40	∅200	10
2	∅310x30				
3	∅290x30				
4	∅270x30				



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅260	3014	7.5	∅100	10
2	∅245		7.5		
3	∅230		5.5		
4	∅215		4		
5	∅200		4		



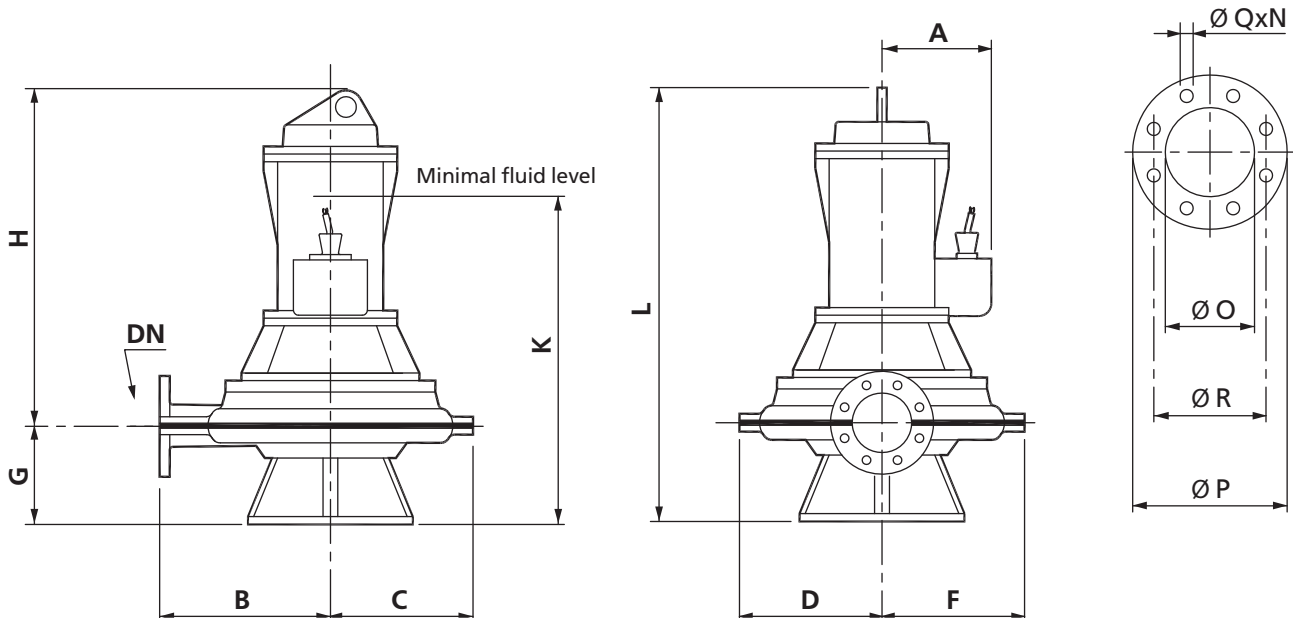
Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅260	3014	11	∅100	10
2	∅245		9.2		
3	∅230		9.2		
4	∅215		7.5		
5	∅200		5.5		



Nº	Actual impeller diameter, mm	Impeller type	Power, kW	Discharge nozzle, mm	Solids size, mm
1	∅330x30	3037	37	∅100	10
2	∅310x30		30		
3	∅290x30		30		
4	∅270x30		22		

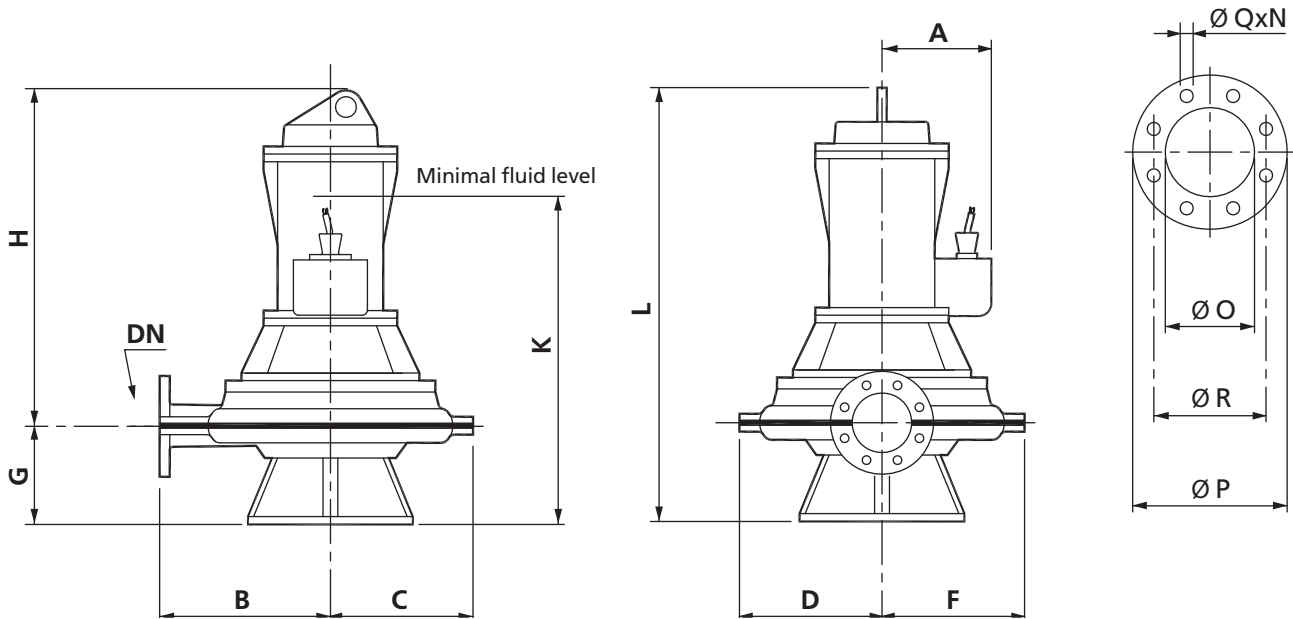
OVERALL DIMENSIONS

1/2



Pump	Discharge Nozzle Ø	A	B	C	D	F	G	H	K	L	DN	O	P	R	Q	N
4OG-50/270-2.2	50	168	270	230	215	240	120	530	560	650	50	50	165	125	18	4
4OG-50/270-3	50	168	270	230	215	240	120	530	560	650	50	50	165	125	18	4
4OG-50/270-4	50	168	270	230	215	240	120	530	560	650	50	50	165	125	18	4
4OG-50/270-5.5	50	168	270	230	215	240	120	530	560	650	50	50	165	125	18	4
4OG-50/270-7.5	50	212	270	230	215	240	120	624	654	744	50	50	165	125	18	4
4OG-65/270-4	65	168	315	220	205	230	200	526	596	726	65	65	185	145	18	4
4OG-65/270-5.5	65	168	315	220	205	230	200	526	596	726	65	65	185	145	18	4
4OG-65/270-7.5	65	212	315	220	205	230	200	620	690	820	65	65	185	145	18	4
4OG-65/270-9.2	65	212	315	220	205	230	200	620	690	820	65	65	185	145	18	4
4OG-65/270-11	65	212	315	220	205	230	200	620	690	820	65	65	185	145	18	4
4OG-100/270-7.5	100	212	315	230	215	240	220	660	750	880	100	100	220	180	18	8
4OG-100/270-9.2	100	212	315	230	215	240	220	660	750	880	100	100	220	180	18	8
4OG-100/270-11	100	212	315	230	215	240	220	660	750	880	100	100	220	180	18	8
4OG-100/270-15	100	212	315	230	215	240	220	660	750	880	100	100	220	180	18	8
4OG-100/270-18.5	100	212	315	230	215	240	220	720	810	940	100	100	220	180	18	8
4OG-150/270-11	150	212	315	250	235	260	300	680	800	980	150	150	285	240	23	8

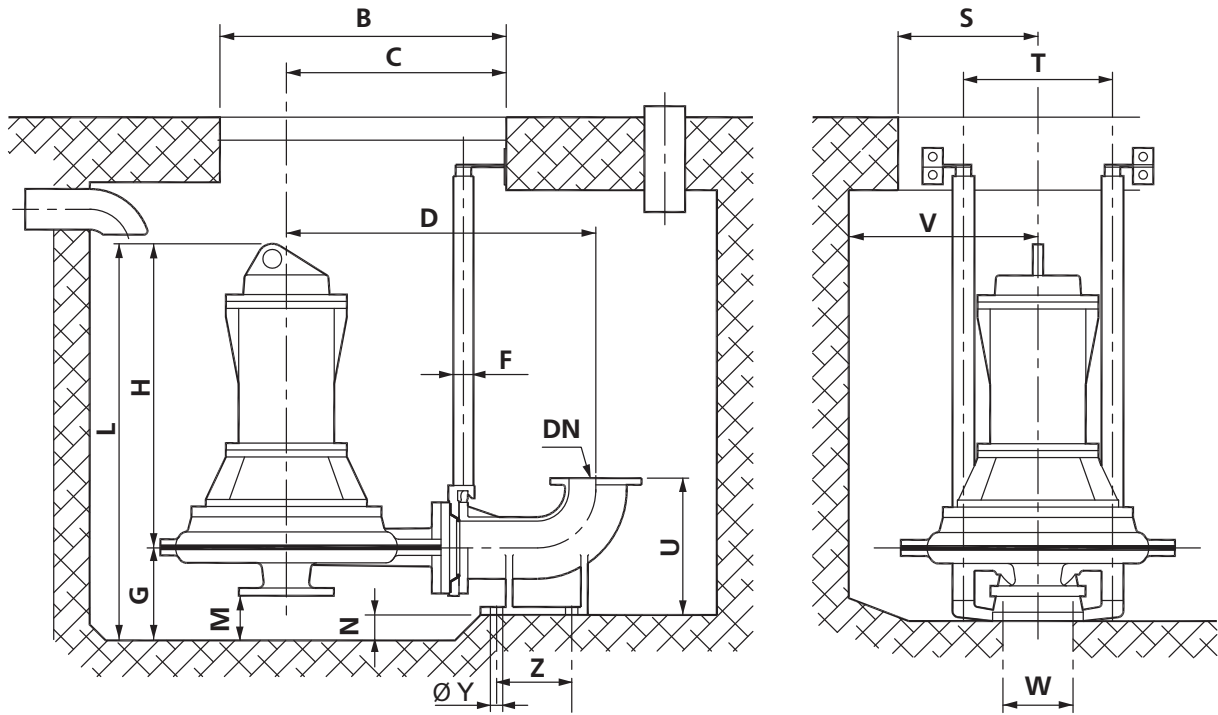
OVERALL DIMENSIONS



Pump	Discharge Nozzle Ø	A	B	C	D	F	G	H	K	L	DN	O	P	R	Q	N
4OG-150/270-15	150	212	315	250	235	260	300	680	800	980	150	150	285	240	23	8
4OG-150/270-18.5	150	212	315	250	235	260	300	740	860	1,040	150	150	285	240	23	8
4OG-150/270-22	150	267	315	250	235	260	300	775	895	1,075	150	150	285	240	23	8
4OG-150/270-30	150	267	315	250	235	260	300	775	895	1,075	150	150	285	240	23	8
4OG-200/330-30	200	267	390	330	290	370	360	770	920	1,130	200	200	340	295	23	8
4OG-200/330-37	200	306	390	330	290	370	360	884	1,034	1,244	200	200	340	295	23	8
4OG-200/330-45	200	306	390	330	290	370	360	884	1,034	1,244	200	200	340	295	23	8
6OG-100/270-5.5	100	212	315	230	215	240	220	660	750	880	100	100	220	180	18	8
6OG-100/270-7.5	100	212	315	230	215	240	220	660	750	880	100	100	220	180	18	8
6OG-150/270-5.5	150	212	315	250	235	260	300	680	800	980	150	150	285	240	23	8
6OG-150/270-7.5	150	212	315	250	235	260	300	680	800	980	150	150	285	240	23	8
6OG-150/270-9.2	150	212	315	250	235	260	300	680	800	980	150	150	285	240	23	8
6OG-150/270-11	150	212	315	250	235	260	300	680	800	980	150	150	285	240	23	8
6OG-200/330-9.2	200	212	390	330	290	370	360	675	825	1,035	200	200	340	295	23	8
6OG-200/330-11	200	212	390	330	290	370	360	675	825	1,035	200	200	340	295	23	8
6OG-200/330-15	200	267	390	330	290	370	360	770	920	1,130	200	200	340	295	23	8

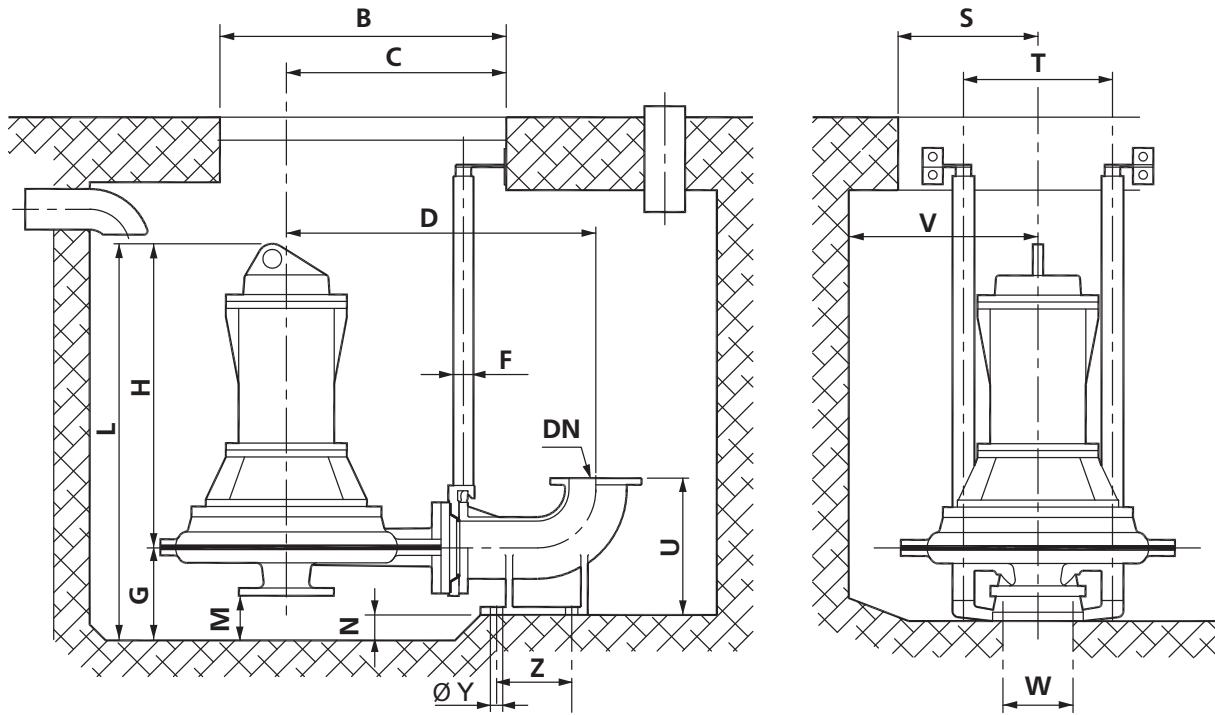
MOUNTING DIMENSIONS

1/2



Pump	Discharge Nozzle Ø	L	G	H	B	C	D	DN	F	M	N	S	T	U	V	W	Y	Z
4OG-50/270-2.2	50	650	120	530	700	365	525	50	1 1/2"	50	43	300	300	230	350	120	16	170
4OG-50/270-3	50	650	120	530	700	365	525	50	1 1/2"	50	43	300	300	230	350	120	16	170
4OG-50/270-4	50	650	120	530	700	365	525	50	1 1/2"	50	43	300	300	230	350	120	16	170
4OG-50/270-5.5	50	650	120	530	700	365	525	50	1 1/2"	50	43	300	300	230	350	120	16	170
4OG-50/270-7.5	50	744	120	624	700	365	525	50	1 1/2"	50	43	300	300	230	350	120	16	170
4OG-65/270-4	65	726	200	526	700	395	570	65	1 1/2"	80	80	300	300	240	350	140	14	170
4OG-65/270-5.5	65	726	200	526	700	395	570	65	1 1/2"	80	80	300	300	240	350	140	14	170
4OG-65/270-7.5	65	820	200	620	700	395	570	65	1 1/2"	80	80	300	300	240	350	140	14	170
4OG-65/270-9.2	65	820	200	620	700	395	570	65	1 1/2"	80	80	300	300	240	350	140	14	170
4OG-65/270-11	65	820	200	620	700	395	570	65	1 1/2"	80	80	300	300	240	350	140	14	170
4OG-100/270-7.5	100	880	220	660	750	435	655	100	1 1/2"	100	88	400	370	265	600	140	18	215
4OG-100/270-9.2	100	880	220	660	750	435	655	100	1 1/2"	100	88	400	370	265	600	140	18	215
4OG-100/270-11	100	880	220	660	750	435	655	100	1 1/2"	100	88	400	370	265	600	140	18	215
4OG-100/270-15	100	880	220	660	750	435	655	100	1 1/2"	100	88	400	370	265	600	140	18	215
4OG-100/270-18.5	100	940	220	720	750	435	655	100	1 1/2"	100	88	400	370	265	600	140	18	215
4OG-150/270-11	150	980	300	680	900	455	695	150	2"	150	148	400	420	325	650	160	23	258

MOUNTING DIMENSIONS



Pump	Discharge Nozzle Ø	L	G	H	B	C	D	DN	F	M	N	S	T	U	V	W	Y	Z
4OG-150/270-15	150	980	300	680	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
4OG-150/270-18.5	150	1,040	300	740	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
4OG-150/270-22	150	1,075	300	775	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
4OG-150/270-30	150	1,075	300	775	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
4OG-200/330-30	200	1,130	360	770	950	566	930	200	2 1/2"	200	110	500	510	510	700	240	28	280
4OG-200/330-37	200	1,244	360	884	950	566	930	200	2 1/2"	200	110	500	510	510	700	240	28	280
4OG-200/330-45	200	1,244	360	884	950	566	930	200	2 1/2"	200	110	500	510	510	700	240	28	280
6OG-100/270-5.5	100	880	220	660	750	435	655	100	1 1/2"	100	88	400	370	265	600	140	18	215
6OG-100/270-7.5	100	880	220	660	750	435	655	100	1 1/2"	100	88	400	370	265	600	140	18	215
6OG-150/270-5.5	150	980	300	680	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
6OG-150/270-7.5	150	980	300	680	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
6OG-150/270-9.2	150	980	300	680	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
6OG-150/270-11	150	980	300	680	900	455	695	150	2"	150	148	400	420	325	650	160	23	258
6OG-200/330-9.2	200	1,035	360	675	950	566	930	200	2 1/2"	200	110	500	510	510	700	240	28	280
6OG-200/330-11	200	1,035	360	675	950	566	930	200	2 1/2"	200	110	500	510	510	700	240	28	280
6OG-200/330-15	200	1,130	360	770	950	566	930	200	2 1/2"	200	110	500	510	510	700	240	28	280



HMS Group – a leading international holding, integrating major machine building and engineering companies. Scope of HMS Group's activities covers oil & gas industry, nuclear and thermal energy, water supply & sewage disposal, and other industries.

- Company foundation: 1993
- Production facilities in Russia, CIS, and Germany
- Own engineering institutes and R&D centers
- 14,500 professional employees
- Considerable experience in integrated projects for various industries
- Branch and representative offices in Europe, CIS, Middle East and North Africa

HMS Group offers contemporary, reliable and energy-efficient solutions based on pumps and compressors for various industries: from equipment engineering, development and production to complex procurement and integrated turn-key projects.

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Modern R&D base with years of experience is represented by the own engineering centers with centralized control, located in Russia and CIS.

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The casing parts and impellers of pumps and compressors are manufactured at the own foundries, equipped with new efficient molding lines and induction furnaces.

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