

# LDROO SERIES

Vertical multistage stainless steel high efficient pump





## PRESENTATION

fließen Pumpen Industries is an enterprise specialized in the research, development and large-scale production of Stainless Steel centrifugal pumps. We have a vertical integration of the production processes, standing out stamping, welding and motor wiring in 6 value centers and production units. All of them with a high performance management on pump engineering and production quality. fließen has set up a wide range of pumping solutions for many applications as building services, industry, irrigation and industrial process. Customers enjoy of the highest performance in booster sets and pressurization, fire-fighting sets, pumping of underground water, HVAC, drainage and sewage, utilities, desalination and OEM integrations. Versions in 50 Hz and 60 Hz are available, as well as any modification on materials, on request.

Global water challenges require excellence in pumping technologies and close cooperation between pump designers, manufacturers and pump engineers. In order to better meet the customers' needs and requirements our company is facing an expansion of its operations worldwide, providing timely and effective services in more than 30 countries. With tight relationships in many regions, we're proud to introduce a new regional value center for Europe. We are based in Ettlingen Deutschland, Germany. fließen is a trademark to forge excellent and successful business relationships with our value customers by means of an operative assembling unit and an application engineering unit. fließen trademark wants to symbolize the firm commitment for a high level service to our value partners. At fließen we bet on a high level service to our value pump partners.

# LF/LX/ LN/LD

Vertical multistage  
stainless steel  
centrifugal pump

## Applications

Cooling water system  
Municipal water supply  
and boosting  
Domestic water supply  
Irrigation  
General industrial services  
Washing plants  
Boiler feed and condensate  
system  
Water treatment

## Description

Vertical multistage in-line centrifugal pumps made in Stainless Steel. Standard totally enclosed, fan cooled, insulation class F, IP 55 motors. Single phase motors up to 2,2 kW.

WRAS / ACS certified.

LF version: hydraulic part in AISI304 SS, pump inlet/outlet made in cast iron.

LX/LN version: whole pumps available in AISI304 or AISI316L.

LD version: hydraulic part in AISI904 / SS2205.

## Performance range

Capacity: Q up to 240 m<sup>3</sup>/h

Head: H up to 305 m

Temperature: T up to 120 °C

Speed: n 2900 rpm

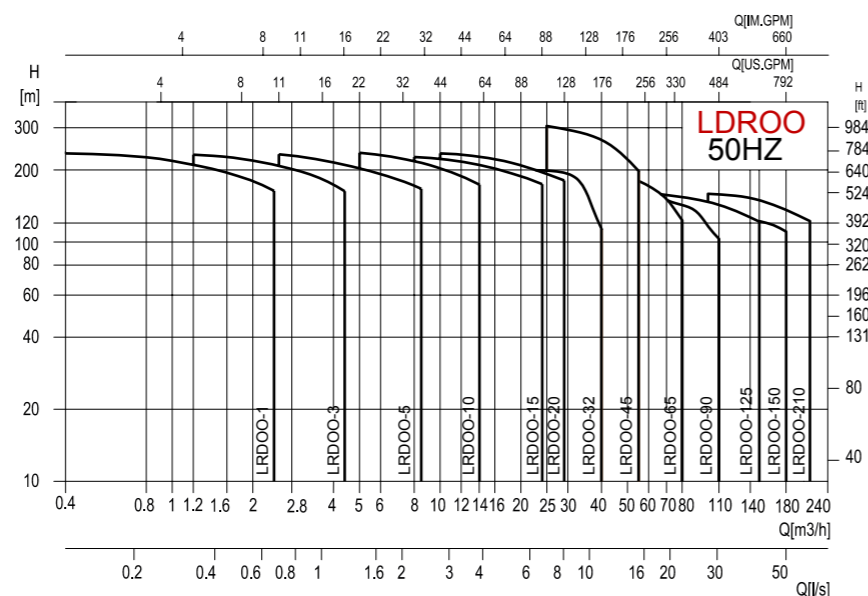
Power: P up to 110 kW

## Standard material

All the parts in contact with liquid made of 304 stainless steel, 316 stainless steel on request. The pump head and suction & discharge can be made of cast iron on request too.



## Performance scope



## Pump

LDROO is a kind of vertical non-self priming multistage centrifugal pump, which is driven by a standard electric motor. The motor output shaft directly connects with the pump shaft through a coupling. The pressure-resistant cylinder and flow passage components are fixed between pump head and inlet&outlet section with stay bolts. The inlet and outlet are located at the pump bottom at the same plane. This kind of pump can be equipped with an intelligent protector to effectively prevent it from dry-running, out-of-phase and overload.

## Motor

Full-enclosed efficiency standard motor air cooled according IEC634-2014  
Protection class: IP55  
Insulation class: F  
Standard voltage: 50HZ:  
1x230V  
3x230/400V  
3x400/690V

## Application

LDROO is a kind of multifunctional products.

It can be used to convey various medium from tap water to industrial liquid at different temperature and with different flow rate and pressure. LF type is applicable to conveying non-corrosive liquid, while LX, LN is suitable for slightly corrosive liquid.

**-Water supply:** Water filter and transport in waterworks boosting of main pipeline, boosting in high-rise buildings.

**-Industrial boosting:** process flow water system, cleaning system, high-pressure washing system, fire fighting system.

**- Industrial liquid conveying:** Cooling and air-conditioning system, boiler water supply and condensing system, machine-associated purpose, acids and alkali.

**-Water treatment:** Ultra filtration system, reverse osmosis system, distillation system, separator, swimming pool.

**-Irrigation :** Farmland irrigation, spray irrigation, dripping irrigation.

## Operation conditions

-Thin, clean, non-flammable and non-explosive liquid containing no solid granules and fibers.

-Liquid temperature: -15°C +120°C

-Ambient temperature: up to +40°C

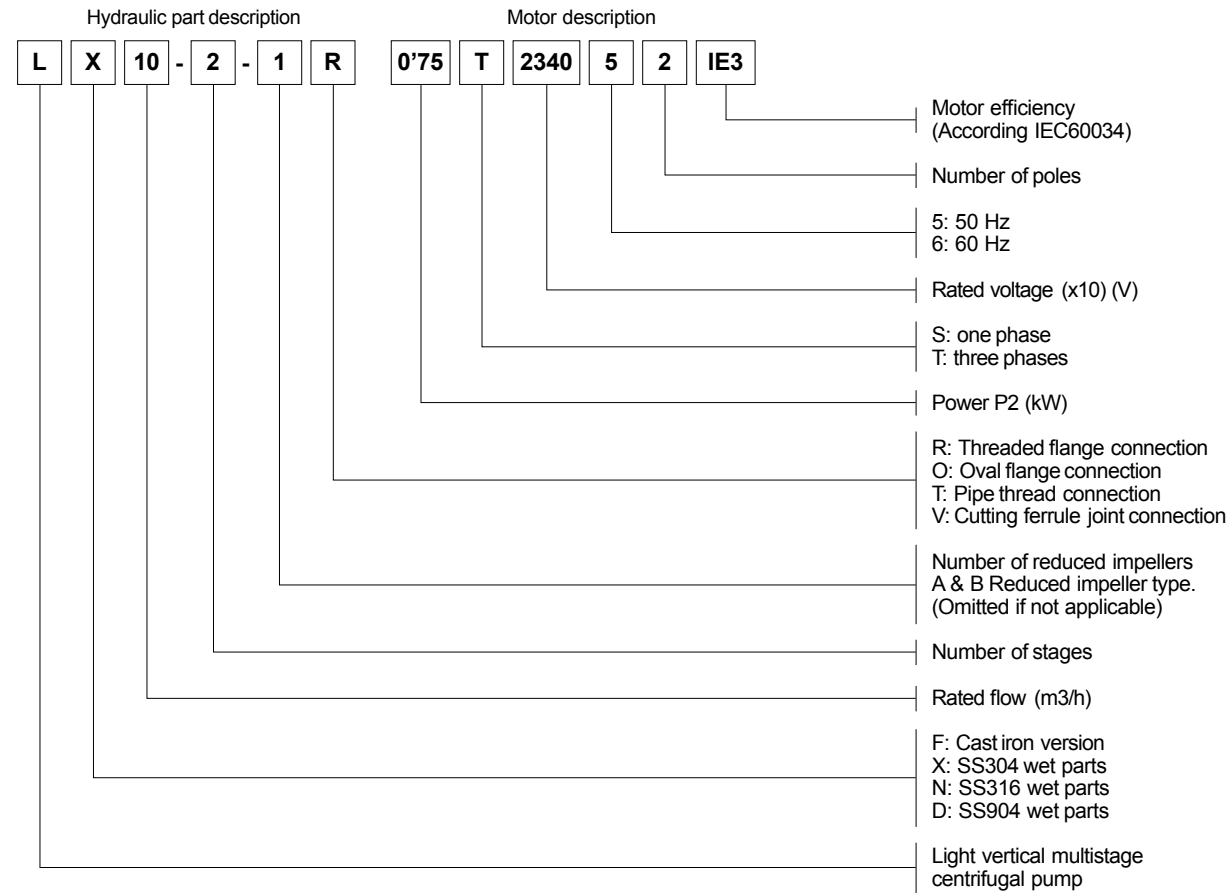
-Altitude: up to 1000m

## Product range

Description	LDROO-1	-3	-5	-10	-15	-20	-32	-45	-65	-90	-125	-150	-210
Rated flow [m <sup>3</sup> /h]	1	3	5	10	15	20	32	45	65	90	125	150	210
Rated flow [l/s]	0.3	0.8	1.4	2.8	4.2	5.6	8,9	11,7	18	24	33	41,6	55,6
Flow range [m <sup>3</sup> /h]	0.5~2.4	1.2~4.4	2.5~8.5	5~14	8~24	10~29	16-40	25-55	30-80	50-110	60-150	80-180	100-240
Max. pressure. [bar]	24	23	24	24	24	23	29	30	22	17	16	16	16
Motor power [kW]	0.37~2.2	0.37~3	0.37~5.5	0.75~11	1.1~15	1.1~18.5	1,5-30	3-45	4-45	5,5-45	11-75	11-75	18,5-110
Temp. [°C]	-15 ~ +120												
Max. efficiency [%]	48	58	70	72	73	73	73	75	76	77	74	73	79
MEI rates	≥ 0,8			≥ 0,7		≥ 0,7	≥ 0,7	≥ 0,7	≥ 0,6	≥ 0,6	≥ 0,6	≥ 0,6	≥ 0,6
LF	•	•	•	•	•	•	•	•	•	•	•	•	•
LX, LN	•	•	•	•	•	•	•	•	•	•	•	•	•
LD							•	•	•	•	•	•	•
LF, LX, LN, LD DIN Flange	DN25	DN25	DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125	DN150
LX, LN Cutting ferrule joint	DN32	DN32	DN32	DN50	DN50	DN50							
LX, LN Pipe thread	R1¼	R1¼	R1¼	R2	R2	R2							
LF, LX, LN Oval Flange	G1	G1	G1¼	G1½									

## Definition of model

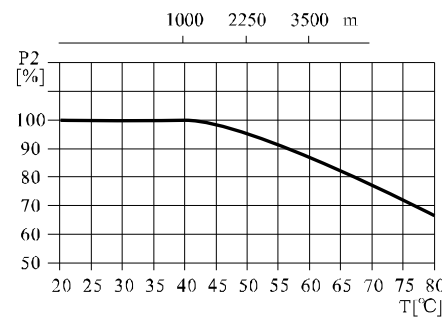
LF, LX, LN 1, 3, 5, 10, 15, 20  
LF, LX, LN, LD 32, 45, 65, 90, 125, 150, 210



\*For special applications please contact our AED department.

## Max. Ambient temperature

When the pump operates under ambient temperature higher than 40°C or at altitudes higher than 1000m, because of low air density and poor cooling effects, the motor output power P2 will be decreased to certain extent. If the pump is operated under the above-said conditions, it should be equipped with motor of higher power.



## Max. working pressure

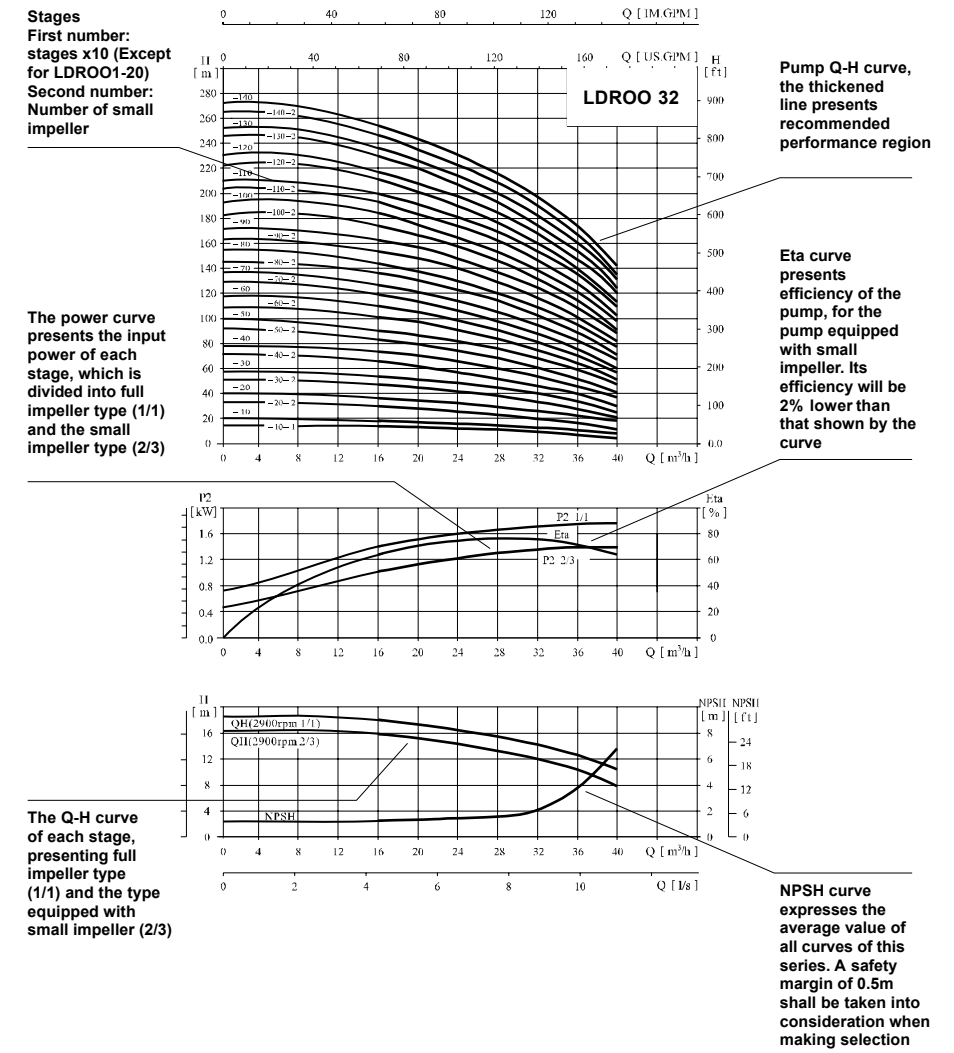
Model	Max. pressure (bar)
LF, LX, LN 1,3,5,10,15,20 Flange, cutting ferrule joint, pipe thread	25
LF, LX, LN 1,3,5,10 Oval Flange	16
LF 32-10-1 ~ 32-80	16
LF 32-90-2 ~ 32-160	30
LX, LN, LD 32	30
LF 45-10-1 ~ 45-60-2	16
LF 45-60 ~ 45-90	25
LF 45-100-2 ~ 45-130-2	30
LX, LN, LD 45-10-1 ~ 45-90	25
LX, LN, LD 45-100-2 ~ 45-130-2	30
LF 65-10-1 ~ 65-50-2	16
LF 65-50-1 ~ 65-80-1	25
LF 90-10-1 ~ 90-40-2	16
LF 90-40 ~ 90-60	25
LF, LN, LD 65,90	25
LF, LX, LN, LD 125, 150, 210	20

## Performance curve

Following conditions are suitable for the performance curves shown below:

- All curves are based on the measured values of 50HZ: constant motor speed 2900rpm or 2950rpm.
- Curve tolerance in conformity with ISO9906 Annex A.
- Measurement is done with 20°C air-free water, kinematic viscosity of 1mm<sup>2</sup>/sec.
- The operation of pump shall refer to the performance region indicated by the thickened curve to prevent over-heating due to too small flow rate or overload of motor due to too large flow rate.

## Curve illustration



## Minimum inlet pressure NPSH

In case that the pressure in pump is lower than the steam pressure used to convey liquid, the cavitation will occur. To avoid cavitation, a minimum pressure at the inlet side of the pump shall be guaranteed.

The maximum suction stroke can be calculated with following formula:  $H = P_b \times 10.2 - NPSH - H_f - H_v - H_s$   
 $P_b$  = atmosphere pressure [bar] (can be set as 1bar)

In a closed system,  $P_b$  means system pressure [bar]

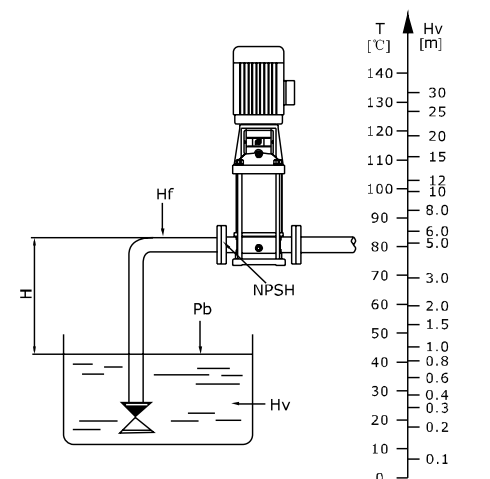
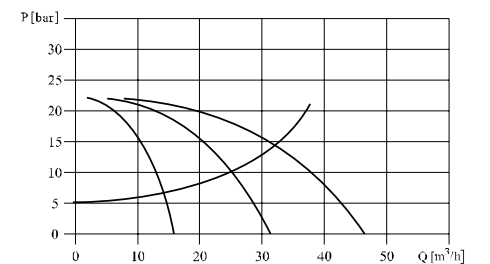
$NPSH$  = Net positive suction head [m] (It can be read out from the point of possible max. Flow rate shown on NPSH curve)  
 $H_f$  = Pipeline loss at the inlet [m]  
 $H_v$  = Steam pressure [m]  
 $H_s$  = Safety margin = Minimum 0.5m delivery head

If the calculated result H is positive, the pump may Run under the max. Suction stroke H.

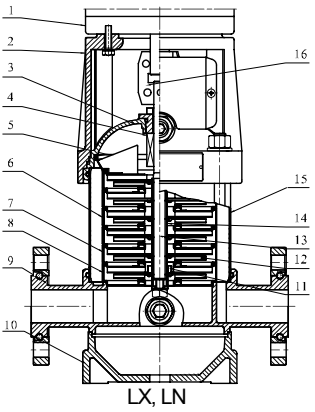
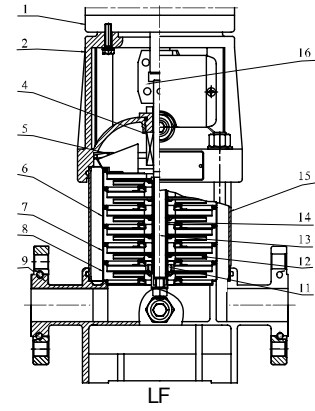
In case the calculated result H is negative, a delivery head of min. Inlet pressure is necessary.

Operation in parallel connecting several pumps in parallel running will benefit much more than running a single large pump.

Applicable to different working states necessary in a variable flow system. Increasing the possibility of water supply when the pump is in failure, because in case of pump failure, only part of the system flow is effected.



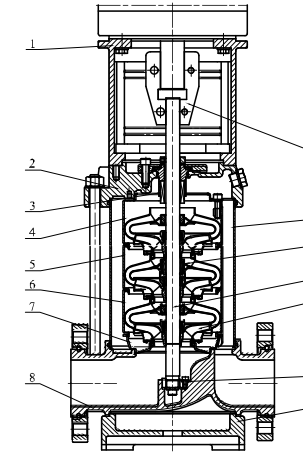
**Sectional drawing**  
LF, LX, LN 1,3,5



**Material**  
LF, LX, LN 1,3,5

N°	Name	Material	AISI /ASTM
1	Motor		
2	Pump head	Cast iron	ASTM25B
4	Mechanical seal	SiC/SiC/EPDM	
5	Top diffuser	Stainless steel	AISI304 / AISI316L
6	Diffuser	Stainless steel	AISI304 / AISI316L
7	Support diffuser	Stainless steel	AISI304 / AISI316L
8	Inducer	Stainless steel	AISI304 / AISI316L
11	Bearing	Turgsten carbide	
12	Impeller	Stainless steel	AISI304 / AISI316L
13	Shaft	Stainless steel	AISI304 / AISI316L
14	Impeller sleeve	Stainless steel	AISI304 / AISI316L
15	Cylinder	Stainless steel	AISI304 / AISI316L
16	Coupling	Carbon steel	
<b>LX, LN</b>			
3	Seal base	Stainless steel	AISI304 / AISI316L
9	Inlet and outlet chamber	Stainless steel	AISI304 / AISI316L
10	Base plate	Aluminium	ASTM25B
<b>LF</b>			
9	Inlet and outlet chamber	Cast iron	ASTM25B

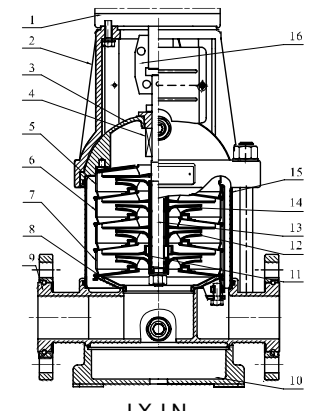
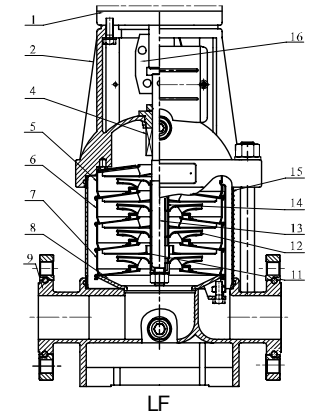
**Sectional drawing**  
LF, LX, LN, LD 32,45,65,90



**Material**  
LF, LX, LN, LD 32,45,65,90

N°	Name	Material	AISI /ASTM
1	Bracket	Cast iron	ASTM25B
3	Mechanical seal	SiC/SiC/EPDM	
4	Top diffuser	Stainless steel	AISI304 / AISI316 / SS904L
5	Support diffuser	Stainless steel	AISI304 / AISI316 / SS904L
6	Diffuser	Stainless steel	AISI304 / AISI316 / SS904L
7	Inducer	Stainless steel	AISI304 / AISI316 / SS904L
9	Base plate	Cast iron	ASTM25B
10	Bottom bearing	Carbure de tungstène	
11	Impeller	Stainless steel	AISI304 / AISI316 / SS904L
12	Shaft	Stainless steel	AISI304 / AISI316L / AISI431
13	Intermediate bearing	Turgsten carbide	
14	Cylinder	Stainless steel	AISI304 / AISI316 / SS904L
15	Coupling	Carbon steel	
	Rubber parts	NBR	
<b>LF</b>			
2	Pump head	Cast iron	ASTM25B
8	Chambre d'entrée et de sortie	Cast iron	ASTM25B
<b>LX, LN, LD</b>			
2	Pump head	Stainless steel	AISI304 / AISI316 / SS2205
8	Inlet and outlet chamber	Stainless steel	AISI304 / AISI316 / SS2205

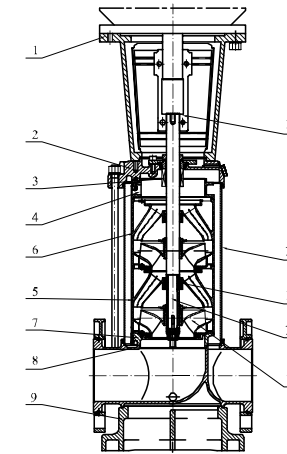
**Sectional drawing**  
LF, LX, LN 10,15,20



**Material**  
LF, LX, LN 10,15,20

N°	Name	Material	AISI /ASTM
1	Motor		
2	Pump head	Cast iron	ASTM25B
4	Mechanical seal	SiC/SiC/EPDM	
5	Top diffuser	Stainless steel	AISI304 / AISI316L
6	Diffuser	Stainless steel	AISI304 / AISI316L
7	Support diffuser	Stainless steel	AISI304 / AISI316L
8	Inducer	Stainless steel	AISI304 / AISI316L
11	Bearing	Turgsten carbide	
12	Impeller	Stainless steel	AISI304 / AISI316L
13	Shaft	Stainless steel	AISI304 / AISI316L
14	Impeller sleeve	Stainless steel	AISI304 / AISI316L
15	Cylinder	Stainless steel	AISI304 / AISI316L
16	Coupling	Carbon steel	
<b>LX, LN</b>			
3	Seal base	Stainless steel	AISI304 / AISI316L
9	Inlet and outlet chamber	Stainless steel	AISI304 / AISI316L
10	Base plate	Aluminium	ASTM25B
<b>LF</b>			
9	Inlet and outlet chamber	Cast iron	ASTM25B

**Sectional drawing**  
LF, LX, LN, LD 125,150,210

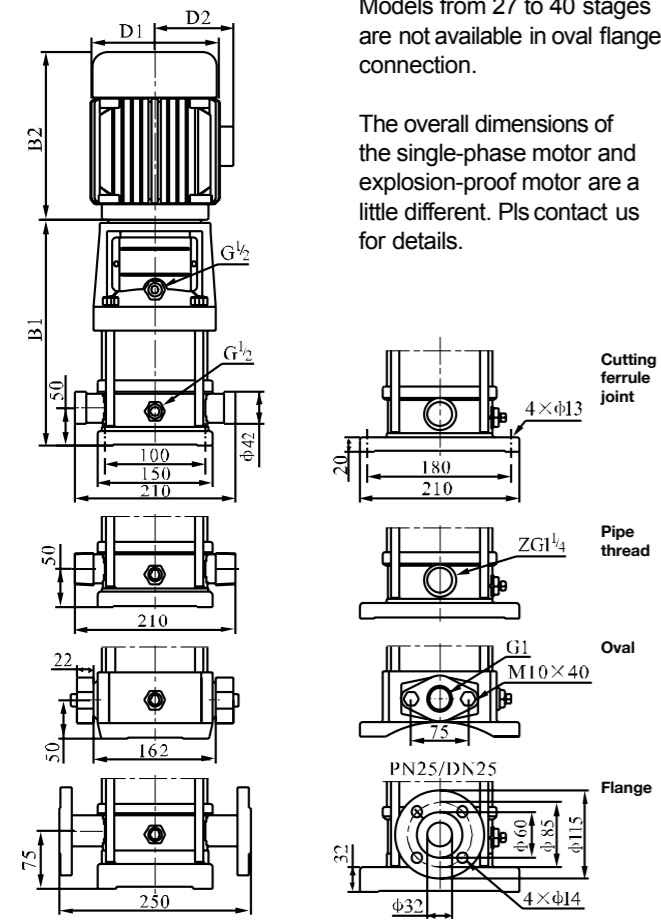


**Material**  
LF, LX, LN, LD 125,150,210

N°	Name	Material	AISI /ASTM
1	Bracket	Cast iron	ASTM25B
3	Mechanical seal	SiC/SiC/EPDM	
4	Discharge	Stainless steel	AISI304 / AISI316 / SS904L
5	Support diffuser	Stainless steel	AISI304 / AISI316 / SS904L
6	Diffuser	Stainless steel	AISI304 / AISI316 / SS904L
7	Inducer	Stainless steel	AISI304 / AISI316 / SS904L
9	Base plate	Cast iron	ASTM 80-55-06
11	Impeller	Stainless steel	AISI304 / AISI316 / SS904L
12	Shaft	Stainless steel	AISI304 / AISI316 / SS904L
13	Bearing	Turgsten carbide	
14	Cylinder	Stainless steel	AISI304 / AISI316 / SS904L
15	Coupling	Carbon steel	
	Rubber parts	NBR	
<b>LF</b>			
2	Pump head	Cast iron	ASTM 80-55-06
8	Inlet and outlet chamber	Stainless steel	ASTM 80-55-06
<b>LX, LN, LD</b>			
2	Pump head	Stainless steel	AISI304 / AISI316 / SS2205
8	Inlet and outlet chamber	Stainless steel	AISI304 / AISI316 / SS2205

# LDROO1

## Installation sketch



Models from 27 to 40 stages are not available in oval flange connection.

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

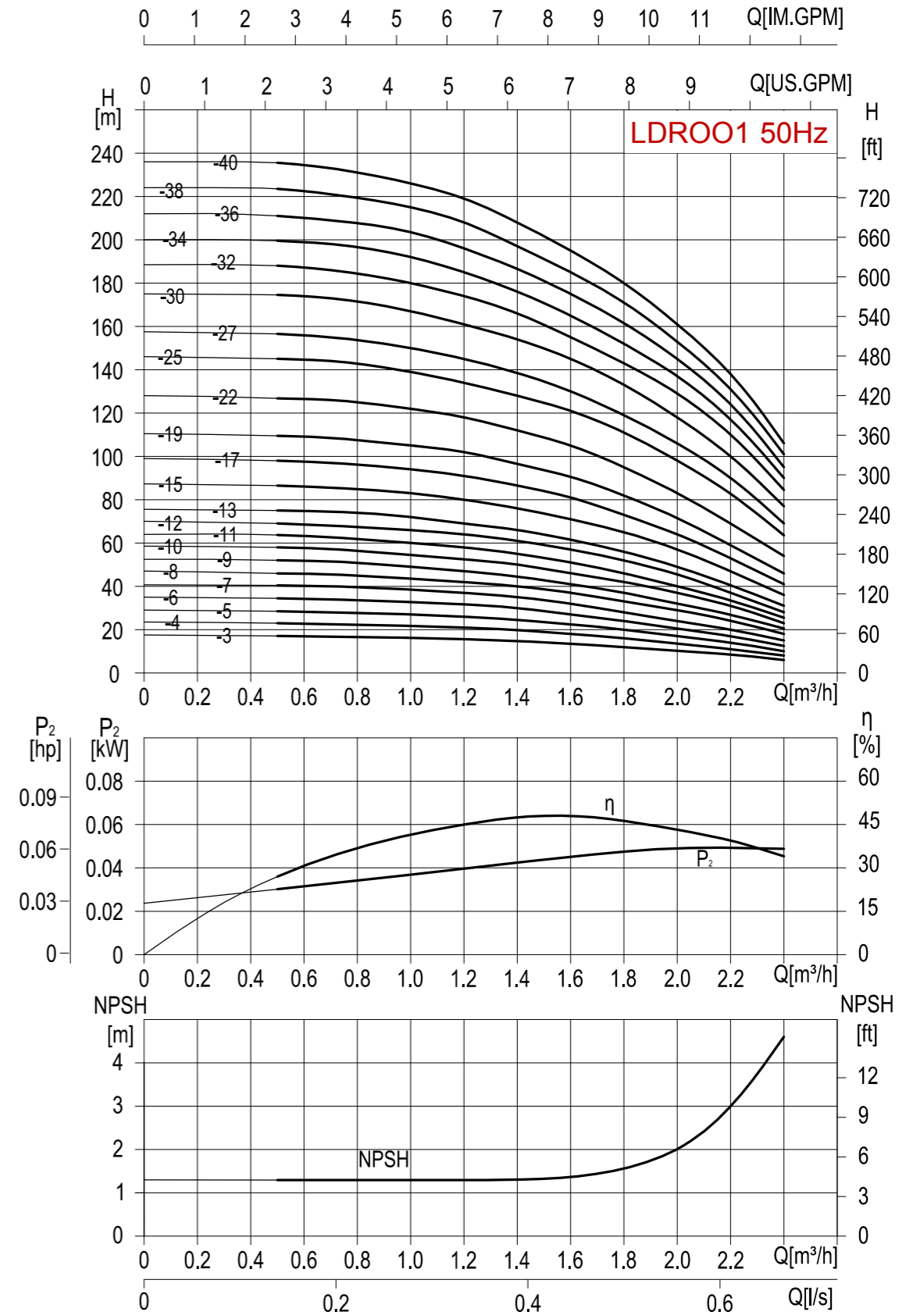
## Size and weight

Model	Pump and motor dimensions						Weight (kg)	
	H1	H2	H	D1	D2	LF	LX, LN	
LF, LX, LN-1-3	207	215	497/472	140	103	23	19	
LF, LX, LN-1-4	227	215	517/492	140	103	24	20	
LF, LX, LN-1-5	247	215	537/512	140	103	24	20	
LF, LX, LN-1-6	267	215	557/532	140	103	25	21	
LF, LX, LN-1-7	287	215	577/552	140	103	25	21	
LF, LX, LN-1-8	307	215	597/572	140	103	27	23	
LF, LX, LN-1-9	327	215	617/592	140	103	27	23	
LF, LX, LN-1-10	347	215	637/612	140	103	28	24	
LF, LX, LN-1-11	367	215	687/662	140	103	28	24	
LF, LX, LN-1-12	397	245	717/692	151	108	31	27	
LF, LX, LN-1-13	417	245	737/712	151	108	31	27	
LF, LX, LN-1-15	457	245	777/752	151	108	32	28	
LF, LX, LN-1-17	497	245	817/792	151	108	35	31	
LF, LX, LN-1-19	537	245	857/832	151	108	36	32	
LF, LX, LN-1-22	597	245	917/892	151	108	37	33	
LF, LX, LN-1-25	667	290	1032/1007	171	120	44	40	
LF, LX, LN-1-27	707	290	1072/1047	171	120	45	41	
LF, LX, LN-1-30	767	290	1132/1107	171	120	46	42	
LF, LX, LN-1-32	807	290	1172/1147	171	120	49	45	
LF, LX, LN-1-34	847	290	1212/1187	171	120	50	46	
LF, LX, LN-1-36	887	290	1252/1227	171	120	51	47	
LF, LX, LN-1-38	927	290	1292/1267	171	120	51	47	
LF, LX, LN-1-40	967	290	1332/1307	171	120	52	48	

## Performance table

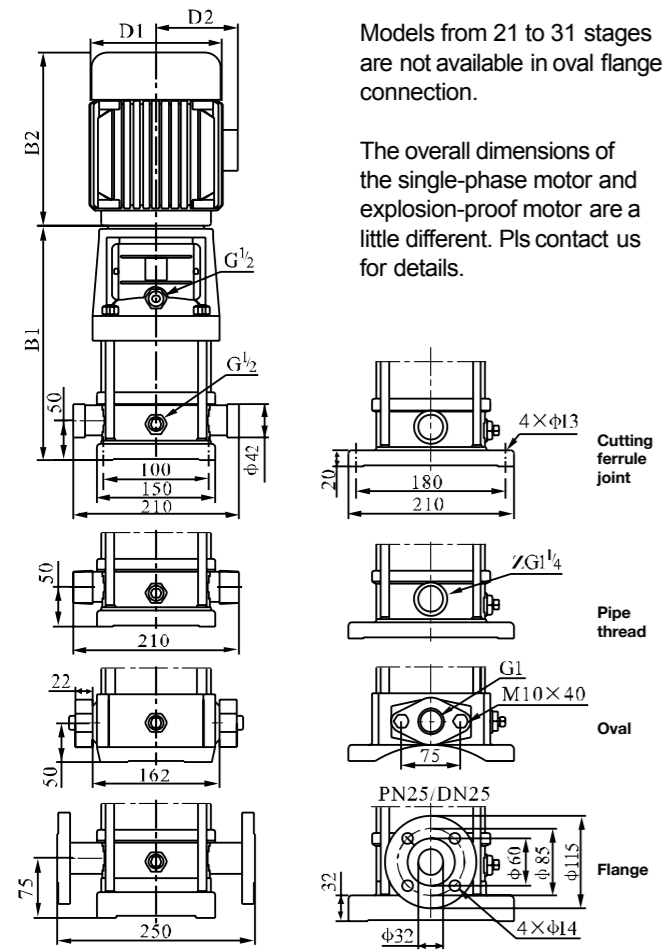
Model	Motor (kW)	Q (m <sup>3</sup> /h)	0	0,5	0,7	1	1,2	1,4	1,6	1,8	2	2,2	2,4
LF, LX, LN-1-3	0,37	H (m)	17,5	17	16,8	16	15,6	14,8	13,5	12	10	8,5	6
LF, LX, LN-1-4	0,37		23,5	23	22,5	21,5	21	19,8	18	16	13,5	11	8
LF, LX, LN-1-5	0,37		29	28,5	28	27	26	24,5	22,5	20	17	14	10
LF, LX, LN-1-6	0,37		35	34,5	34	32,5	31,5	30	27	24	20,5	17	12,5
LF, LX, LN-1-7	0,37		41	40,5	40	39	37	35	32	28	24	20	15
LF, LX, LN-1-8	0,55		47	46	45,5	43,5	42	40	37	33	29	24,5	18
LF, LX, LN-1-9	0,55		52,5	52	51,5	49	47	44,5	41	37	32	27	20,5
LF, LX, LN-1-10	0,55		58,5	58	57	55	52,5	50	46	42	37	31	23
LF, LX, LN-1-11	0,55		64	63,5	63	61	58,5	55	51	46	40	33,5	25,5
LF, LX, LN-1-12	0,75		70	69	68,5	67	64,5	61	57	52	45,5	37	28
LF, LX, LN-1-13	0,75		75,5	75	74,5	73	70	66,5	61,5	56	49	40,5	31
LF, LX, LN-1-15	0,75		87,5	86,5	85,5	84	81	76,5	71	65	57	47	36
LF, LX, LN-1-17	1,1		99	98	97	95	91,5	86,5	81	73	64	53	41
LF, LX, LN-1-19	1,1		110	109	108	106	103	98	91	82	72	59	46
LF, LX, LN-1-22	1,1	128	127	126	122	118	112	105	95	83	69	54	
LF, LX, LN-1-25	1,5	146	145	144	139	134	128	121	111	98	83	63	
LF, LX, LN-1-27	1,5	158	157	155	150	145	138	130	119	106	90	69	
LF, LX, LN-1-30	1,5	175	174	172	167	161	154	145	133	118	100	77	
LF, LX, LN-1-32	2,2	189	188	186	180	174	166	155	143	129	110	85	
LF, LX, LN-1-34	2,2	200	199	198	192	185	176	165	152	137	117	90	
LF, LX, LN-1-36	2,2	212	211	209	203	196	186	175	161	145	124	95	
LF, LX, LN-1-38	2,2	225	224	221	215	208	197	185	171	153	131	101	
LF, LX, LN-1-40	2,2	237	236	233	226	219	208	195	180	161	138	106	

## Performance curve ISO9906:2012 Grade 3B



# LDROO3

## Installation sketch



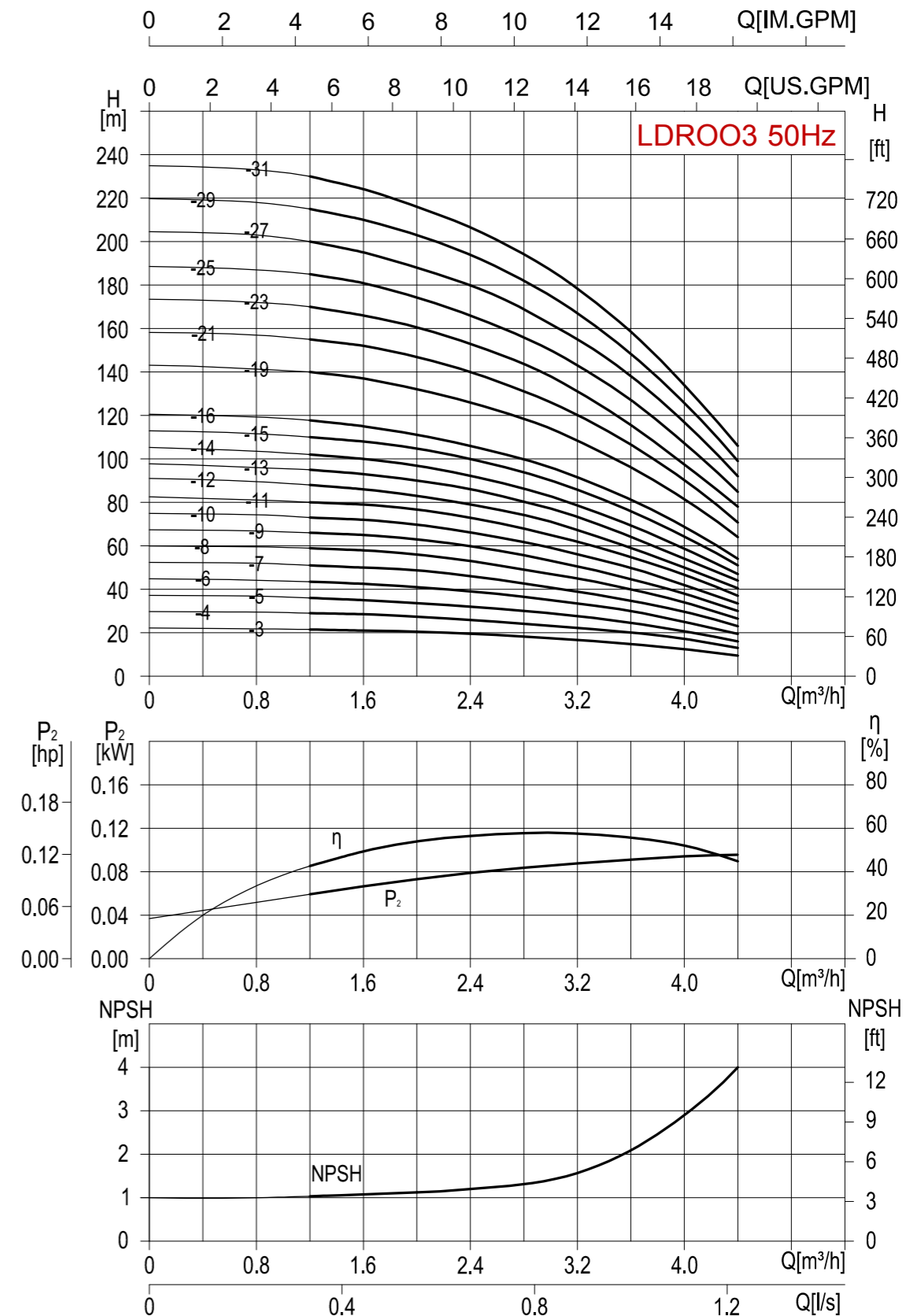
## Size and weight

Model	Pump and motor dimensions					Weight (kg)	
	H1	H2	H	D1	D2	LF	LX, LN
LF, LX, LN-3-3	207	215	497/472	140	103	24	20
LF, LX, LN-3-4	227	215	517/492	140	103	25	21
LF, LX, LN-3-5	247	215	537/512	140	103	26	22
LF, LX, LN-3-6	267	215	557/532	140	103	27	23
LF, LX, LN-3-7	297	245	617/592	151	108	30	26
LF, LX, LN-3-8	317	245	637/612	151	108	30	26
LF, LX, LN-3-9	337	245	657/632	151	108	32	28
LF, LX, LN-3-10	357	245	677/652	151	108	33	29
LF, LX, LN-3-11	377	245	697/672	151	108	33	29
LF, LX, LN-3-12	397	245	717/692	151	108	34	30
LF, LX, LN-3-13	427	290	792/767	171	120	39	35
LF, LX, LN-3-14	447	290	812/787	171	120	40	36
LF, LX, LN-3-15	467	290	832/807	171	120	40	36
LF, LX, LN-3-16	487	290	852/827	171	120	41	37
LF, LX, LN-3-19	547	290	912/887	171	120	44	40
LF, LX, LN-3-21	587	290	952/927	171	120	45	41
LF, LX, LN-3-23	627	290	992/967	171	120	46	42
LF, LX, LN-3-25	677	345	1097/1072	196	132	57	53
LF, LX, LN-3-27	717	345	1137/1112	196	132	58	54
LF, LX, LN-3-29	757	345	1177/1152	196	132	58	54
LF, LX, LN-3-31	797	345	1217/1192	196	132	59	55

## Performance table

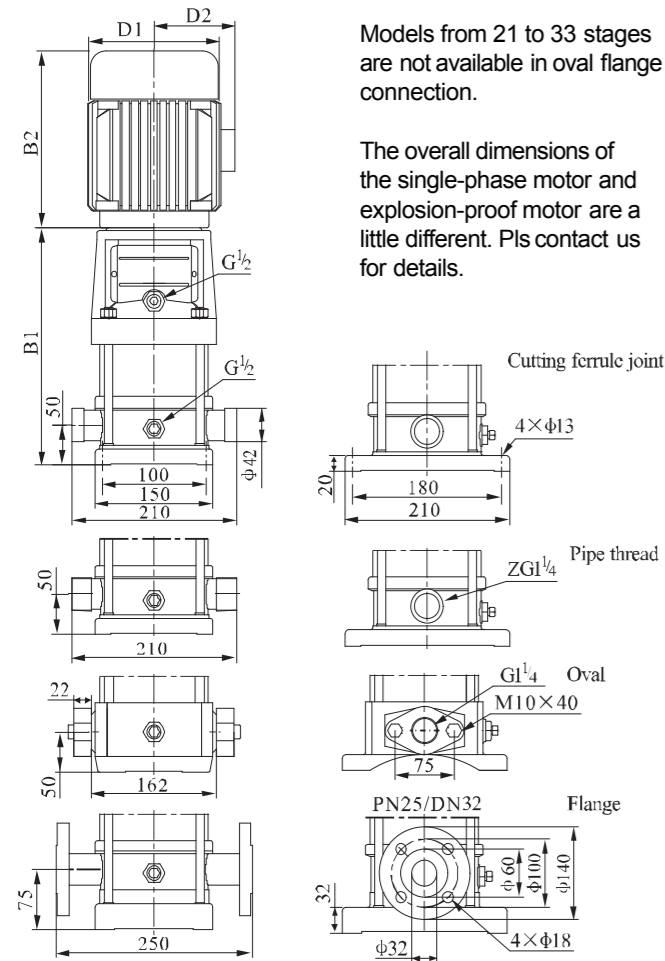
Model	Motor (kW)	Q (m3/h)	Flow rate (m³/h)											
			0	1,2	1,6	2	2,4	2,8	3	3,2	3,6	4	4,4	
LF, LX, LN-3-3	0.37		22,2	21,5	21	20,5	19,5	18	17	16,5	15	12,5	9,5	
LF, LX, LN-3-4	0.37		29,7	29	28,5	27,5	26	24	23	22	20	17	13	
LF, LX, LN-3-5	0.55		37,2	36	35	33,5	32	30	29	28	25	21	16	
LF, LX, LN-3-6	0.55		45	43,5	42,5	41	39	36,5	35	33,5	30	25	19,5	
LF, LX, LN-3-7	0.75		52,5	51	50	49	46	43	41	39,5	35	30	23	
LF, LX, LN-3-8	0.75		60	58,5	58	56	53	49	47	45	40	34	26,5	
LF, LX, LN-3-9	1.1		67,5	66	65	63	60	56	53	51	45	38	30	
LF, LX, LN-3-10	1.1		75	73	72	70	66	61	59	56	50	42	33,5	
LF, LX, LN-3-11	1.1		82,5	80	79	77	73	68	65	62	55	47	37	
LF, LX, LN-3-12	1.1		90	88	86	83	79	74	71	67	59	50	40,5	
LF, LX, LN-3-13	1.5		98	95	93	90	86	80	77	73	64	54	44	
LF, LX, LN-3-14	1.5		105	102	101	98	92,5	86	83	78	69	58	47	
LF, LX, LN-3-15	1.5		113	110	108	105	100	94	90	86	76	64	51	
LF, LX, LN-3-16	1.5		120	118	116	112	107	100	96	92	81	69	54	
LF, LX, LN-3-19	2.2		143	140	137	132	126	119	114	108	96	82	64	
LF, LX, LN-3-21	2.2		158	155	152	147	140	131	126	120	106	90	71	
LF, LX, LN-3-23	2.2		173	170	166	161	153	144	138	131	115	97	78	
LF, LX, LN-3-25	3		188	185	181	175	166	156	150	142	125	105	85	
LF, LX, LN-3-27	3		204	200	195	188	180	169	162	155	138	117	92	
LF, LX, LN-3-29	3		220	215	210	203	194	182	175	167	148	126	99	
LF, LX, LN-3-31	3		235	230	224	216	207	194	187	178	159	134	106	

## Performance curve ISO9906:2012 Grade 3B



# LDRO05

## Installation sketch



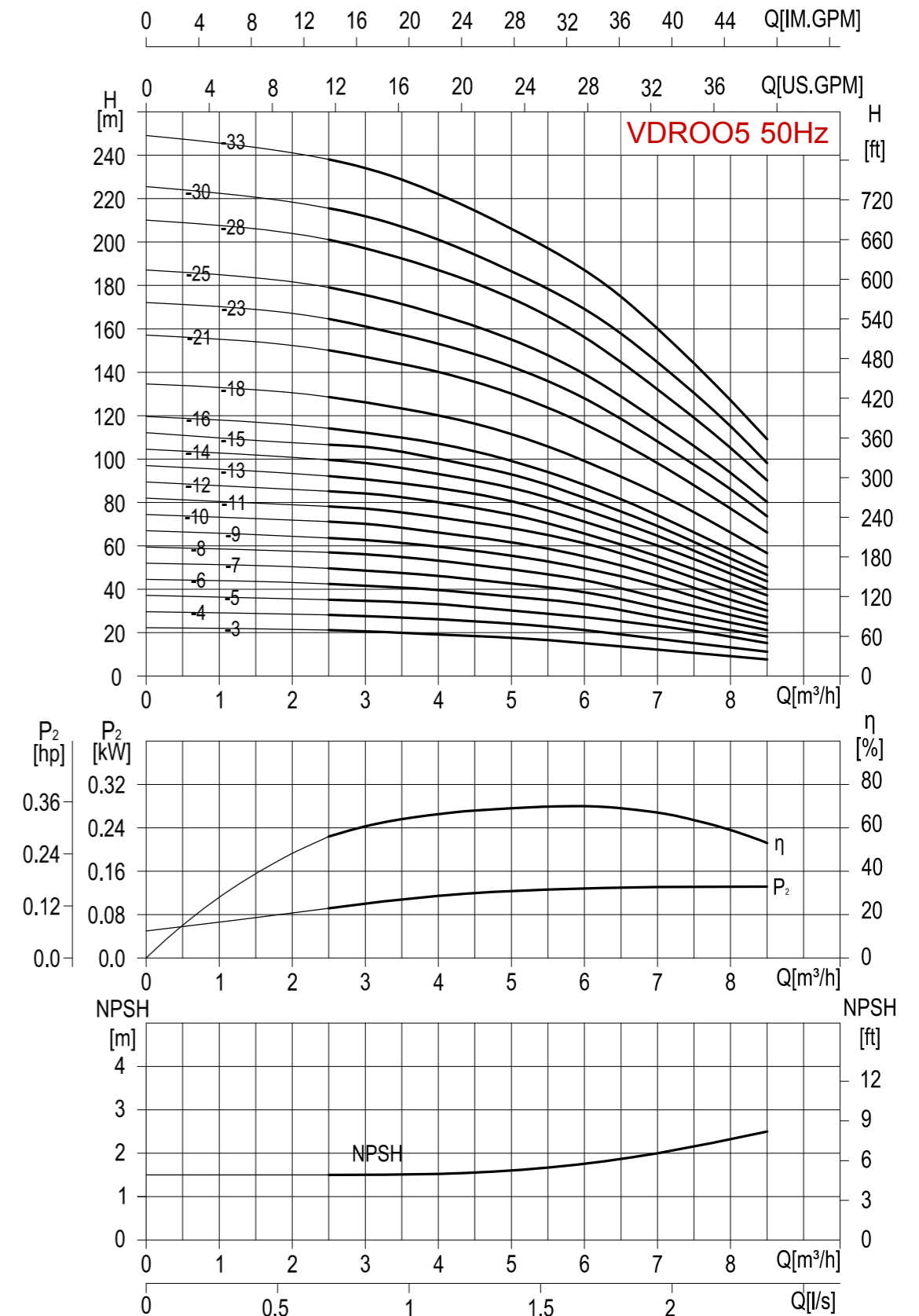
## Size and weight

Model	Pump and motor dimensions					Weight (kg)	
	H1	H2	H	D1	D2	LF	LX, LN
LF, LX, LN-5-3	228	215	518/493	140	103	26	21
LF, LX, LN-5-4	255	215	545/520	140	103	27	22
LF, LX, LN-5-5	292	245	612/587	151	108	30	25
LF, LX, LN-5-6	319	245	639/614	151	108	32	27
LF, LX, LN-5-7	346	245	666/641	151	108	32	27
LF, LX, LN-5-8	373	245	693/668	151	108	33	28
LF, LX, LN-5-9	410	290	775/750	171	120	38	33
LF, LX, LN-5-10	437	290	802/777	171	120	39	34
LF, LX, LN-5-11	464	290	829/804	171	120	39	34
LF, LX, LN-5-12	491	290	856/831	171	120	42	37
LF, LX, LN-5-13	518	290	883/858	171	120	42	37
LF, LX, LN-5-14	545	290	910/885	171	120	43	38
LF, LX, LN-5-15	572	290	937/912	171	120	43	38
LF, LX, LN-5-16	599	290	964/939	171	120	44	39
LF, LX, LN-5-18	663	345	1083/1058	196	132	55	50
LF, LX, LN-5-21	744	345	1164/1139	196	132	57	52
LF, LX, LN-5-23	798	355	1228/1203	214	151	65	60
LF, LX, LN-5-25	852	355	1282/1257	214	151	66	61
LF, LX, LN-5-28	933	355	1363/1338	214	151	67	62
LF, LX, LN-5-30	1062	390	1527/1502	257	168	88	83
LF, LX, LN-5-33	1143	390	1608/1583	257	168	89	84

## Performance table

Model	Motor (kW)	Q (m <sup>3</sup> /h)	Performance (m)									
			0	2,5	3	4	5	6	7	8	8,5	
LF, LX, LN-5-3	0.55		22,1	21	20,5	19	17,5	15	12	9	7,5	
LF, LX, LN-5-4	0.55		29,5	28	27,5	26	24	21	17	13	11	
LF, LX, LN-5-5	0.75		37	35	34,5	33	30	27	23	18	15	
LF, LX, LN-5-6	1.1		44,5	42	41,5	40	37	33	27	21	18	
LF, LX, LN-5-7	1.1		52	49,5	48,5	46	42,5	38,5	31,5	24,5	21	
LF, LX, LN-5-8	1.1		59	57	56	53	49	44	36	28	24	
LF, LX, LN-5-9	1.5		67	64	63	60	55	49,5	41,5	31,5	27	
LF, LX, LN-5-10	1.5		74,5	71	70	66	62	55	46	35	30	
LF, LX, LN-5-11	1.5		82	78	77	73	68	61	51	39	33	
LF, LX, LN-5-12	2.2		89,5	85	84	81	74,5	66	55	43	37	
LF, LX, LN-5-13	2.2		97	92	91	87	80	71	60	47	40	
LF, LX, LN-5-14	2.2		104	100	98	93	87	77	65	51	43,5	
LF, LX, LN-5-15	2.2		112	107	106	100	93	82	69	54	46,5	
LF, LX, LN-5-16	2.2		119	114	112	107	99	88	74	58	50	
LF, LX, LN-5-18	3		134	128	126	120	111	99	84	66	56	
LF, LX, LN-5-21	3		157	150	147	140	130	116	98	77	66	
LF, LX, LN-5-23	4		172	165	161	153	142	128	108	86	74	
LF, LX, LN-5-25	4		187	179	175	167	155	139	117	93	80	
LF, LX, LN-5-28	4		210	201	197	187	174	156	132	105	90	
LF, LX, LN-5-30	5.5		225	216	212	201	186	169	144	115	98	
LF, LX, LN-5-33	5.5		249	238	234	222	206	187	160	127	109	

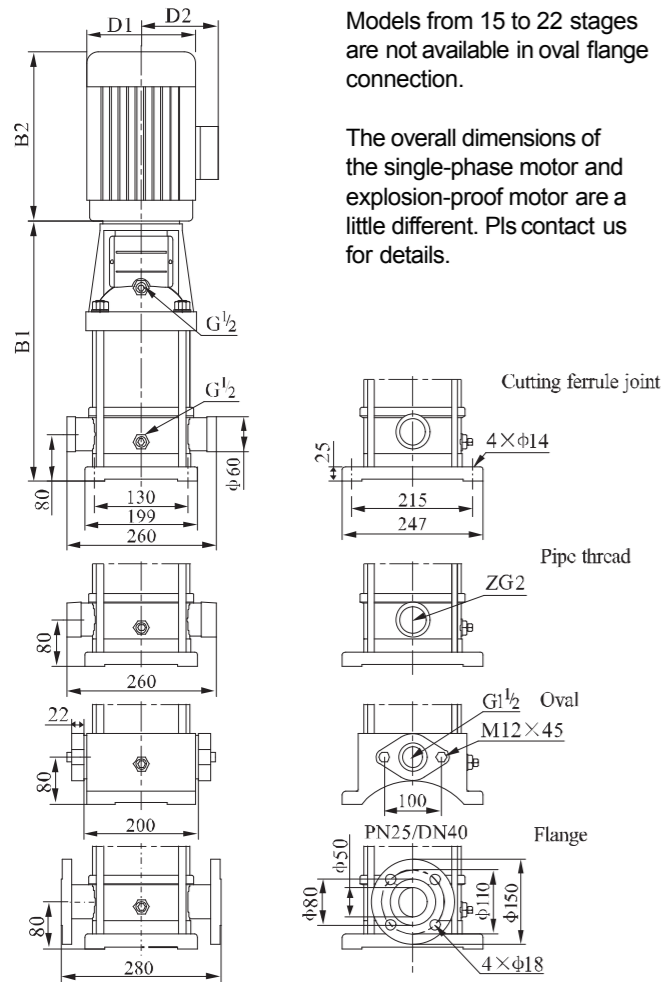
## Performance curve ISO9906:2012 Grade 3B





# LDROO10

## Installation sketch



Models from 15 to 22 stages are not available in oval flange connection.

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

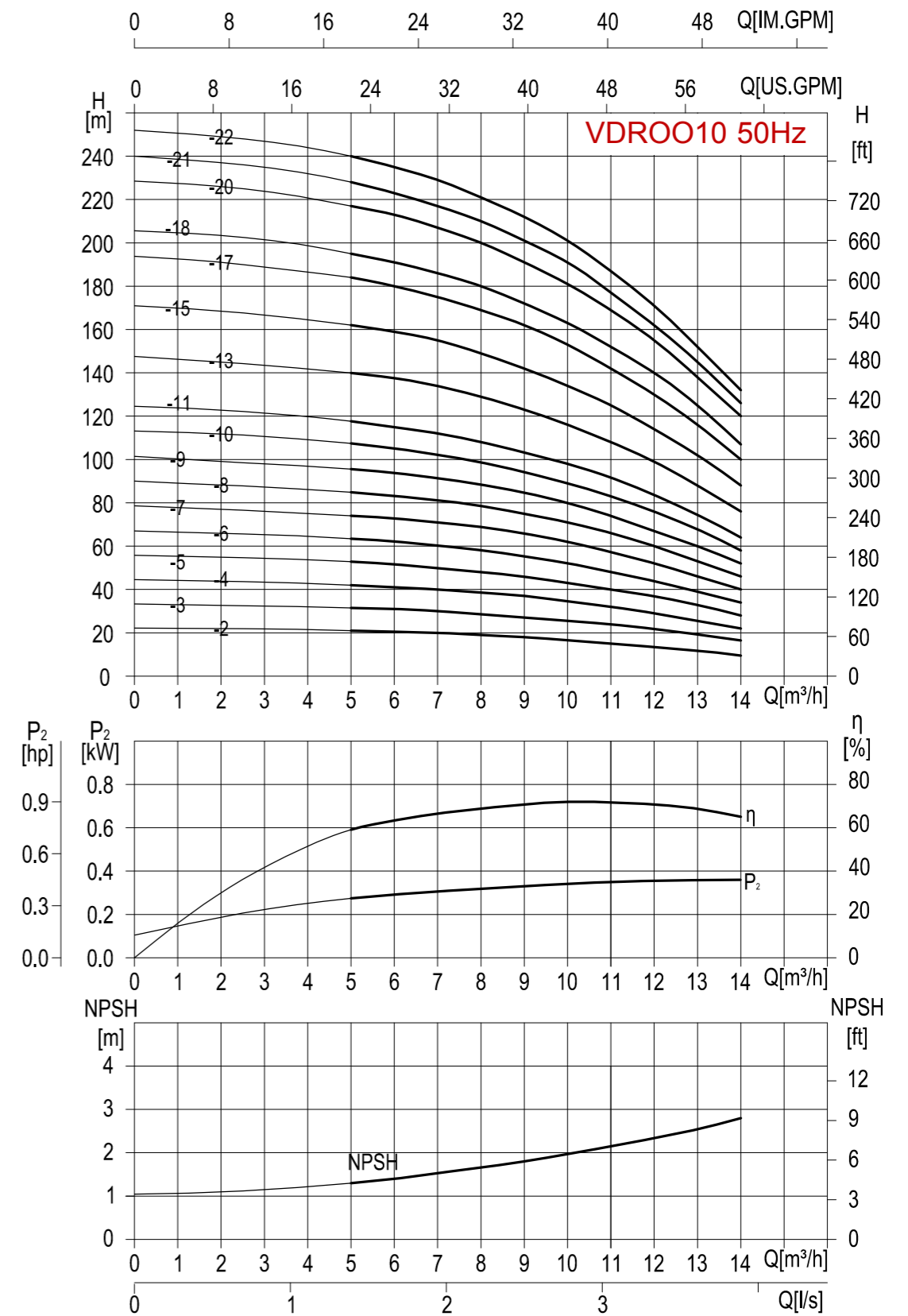
## Size and weight

Model	Pump and motor dimensions					Weight (kg)	
	H1	H2	H	D1	D2	LF	LX, LN
LF, LX, LN-10-2	267	245	592	151	108	32	30
LF, LX, LN-10-3	297	245	622	151	108	35	33
LF, LX, LN-10-4	337	290	707	171	120	41	39
LF, LX, LN-10-5	367	290	737	171	120	45	43
LF, LX, LN-10-6	397	290	767	171	120	46	44
LF, LX, LN-10-7	437	345	862	196	132	57	55
LF, LX, LN-10-8	467	345	892	196	132	58	56
LF, LX, LN-10-9	497	355	932	214	151	65	63
LF, LX, LN-10-10	527	355	962	214	151	66	64
LF, LX, LN-10-11	557	355	992	214	151	67	65
LF, LX, LN-10-13	695	390	1165	257	168	88	86
LF, LX, LN-10-15	755	390	1225	257	168	90	88
LF, LX, LN-10-17	815	390	1285	257	168	100	98
LF, LX, LN-10-18	845	390	1315	257	168	101	99
LF, LX, LN-10-20	905	390	1375	257	168	103	101
LF, LX, LN-10-21	935	390	1405	257	168	104	102
LF, LX, LN-10-22	995	500	1575	314	261	170	168

## Performance table

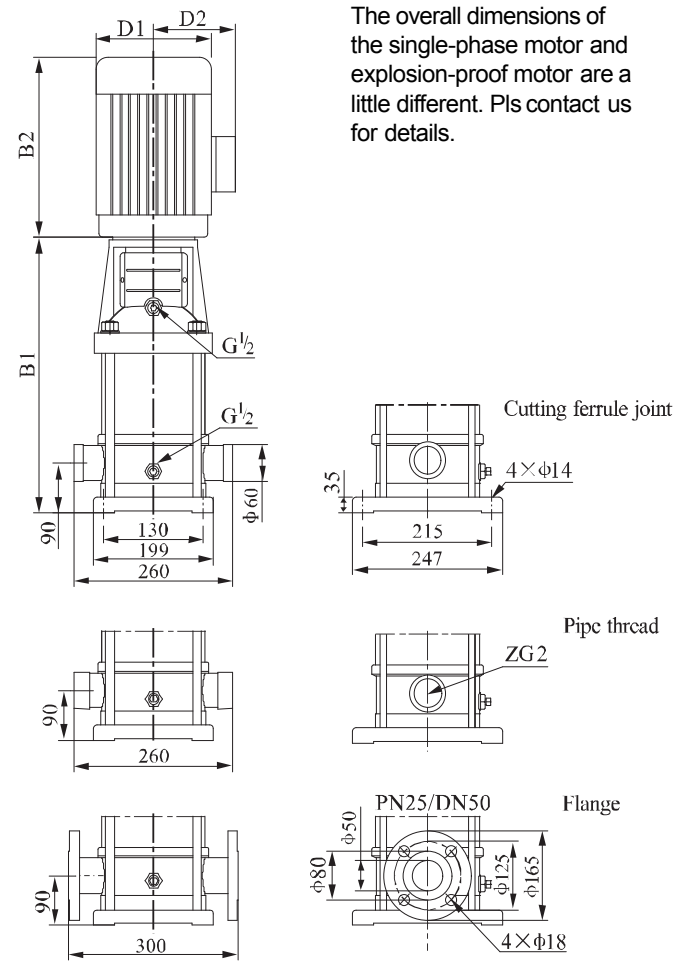
Model	Motor (kW)	Q (m <sup>3</sup> /h)	0	5	6	8	10	12	14
LF, LX, LN-10-2	0.75	H (m)	22,2	21	20,5	19	16,5	13,5	9,5
LF, LX, LN-10-3	1.1		33,3	31,5	31	28,5	25,5	22	16,5
LF, LX, LN-10-4	1.5		44,5	42	41	38	34	29	22
LF, LX, LN-10-5	2.2		56	52,5	51	48	43	37	28
LF, LX, LN-10-6	2.2		67	63	62	58	52	44	34
LF, LX, LN-10-7	3		78,5	74	73	69	62	52	40
LF, LX, LN-10-8	3		90	85	84	79	71	60	46
LF, LX, LN-10-9	4		101,5	96	94	89	80	67	52
LF, LX, LN-10-10	4		113	107	105	98	89	76	58
LF, LX, LN-10-11	4		124	118	115	108	98	84	64
LF, LX, LN-10-13	5.5		147	140	138	130	116	99	76
LF, LX, LN-10-15	5.5		171	162	159	149	134	114	88
LF, LX, LN-10-17	7.5		194	184	180	169	153	130	100
LF, LX, LN-10-18	7.5		205	195	191	180	163	141	108
LF, LX, LN-10-20	7.5		228	217	213	200	181	155	120
LF, LX, LN-10-21	7.5		240	228	223	210	191	162	126
LF, LX, LN-10-22	11		250	240	235	221	201	171	132

## Performance curve ISO9906:2012 Grade 3B



# LDROO15

## Installation sketch



The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

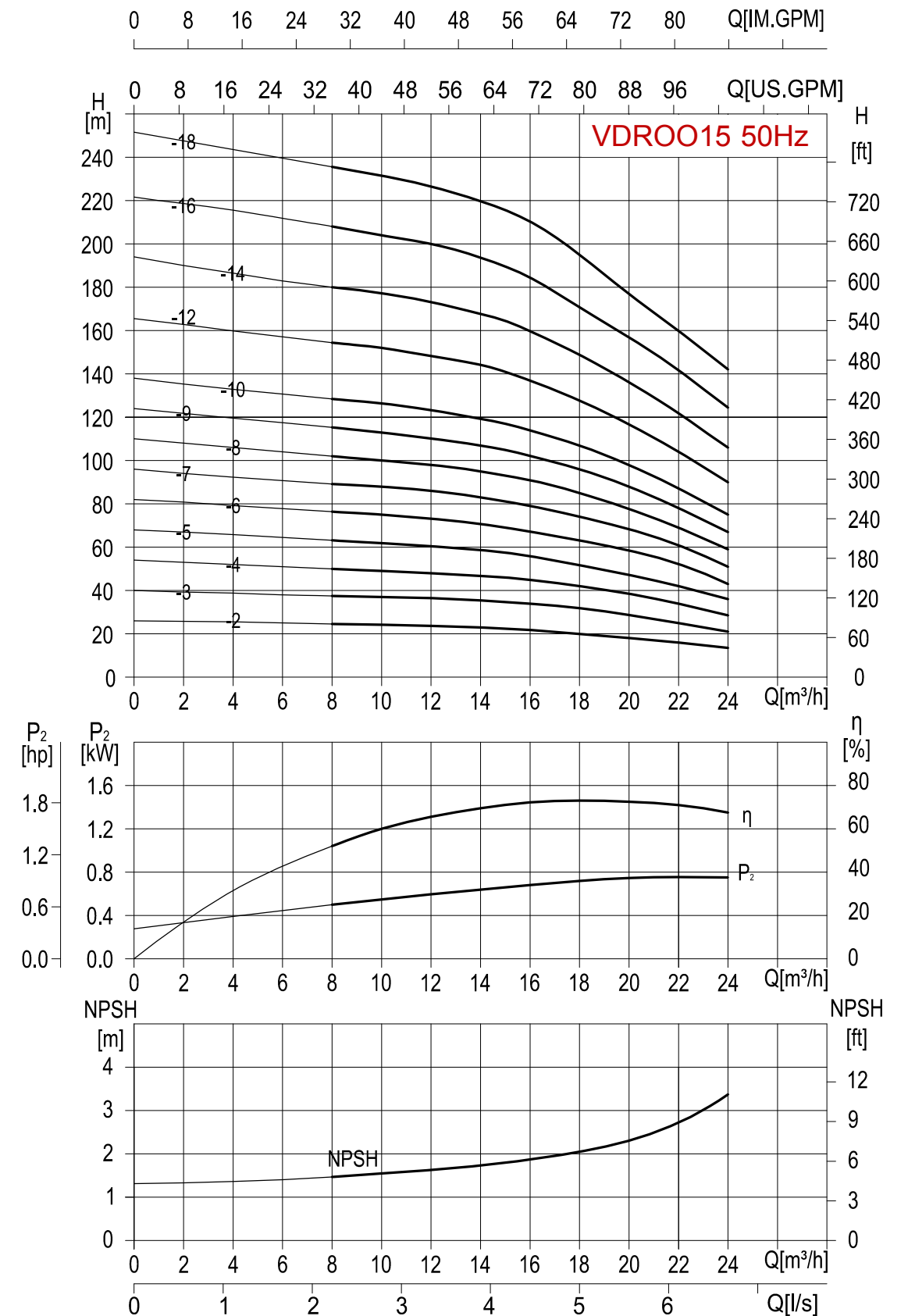
## Size and weight

Model	Pump and motor dimensions					Weight (kg)	
	H1	H2	H	D1	D2	LF	LX, LN
LF, LX, LN-15-2	307	290	687	171	120	48	41
LF, LX, LN-15-3	362	345	797	196	132	59	52
LF, LX, LN-15-4	407	355	852	214	151	66	59
LF, LX, LN-15-5	452	355	897	214	151	68	61
LF, LX, LN-15-6	575	390	1055	257	168	90	83
LF, LX, LN-15-7	620	390	1100	257	168	91	84
LF, LX, LN-15-8	665	390	1145	257	168	98	91
LF, LX, LN-15-9	710	390	1190	257	168	99	92
LF, LX, LN-15-10	785	500	175	314	261	157	150
LF, LX, LN-15-12	875	500	1465	314	261	160	153
LF, LX, LN-15-14	965	500	1555	314	261	163	156
LF, LX, LN-15-16	1055	500	1645	314	261	182	175
LF, LX, LN-15-18	1145	500	1735	314	261	184	177

## Performance table

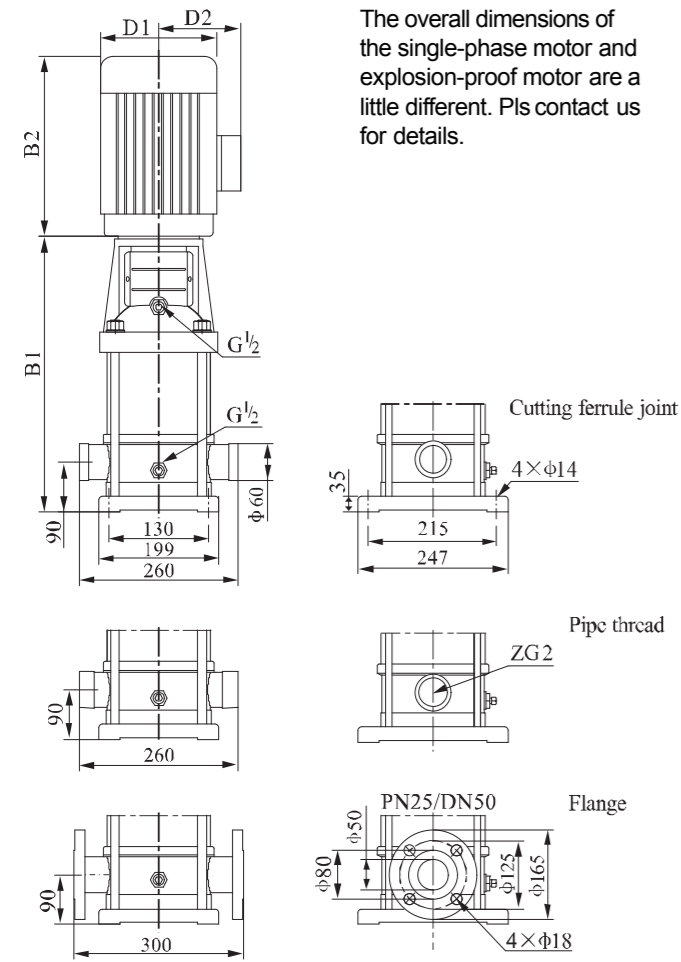
Model	Motor (kW)	Q (m³/h)	H (m)										
			0	8	10	12	14	15	16	18	20	22	24
LF, LX, LN-15-2	2.2		26	24,5	24	23,5	23	22,5	21,5	20	18	16	13,5
LF, LX, LN-15-3	3		40	37,5	37	36,5	35,5	34,5	34	32	29	25	21
LF, LX, LN-15-4	4		54	50,5	50	49	47,5	47	46	43	39	34	28,5
LF, LX, LN-15-5	4		68	63	62	61	59	58	57	53	48	42,5	36
LF, LX, LN-15-6	5.5		82	76	75	73	71	69	67	63	58	52	43
LF, LX, LN-15-7	5.5		96	89	88	86	83	81	79	74	68	61	51
LF, LX, LN-15-8	7.5		110	102	100	98	95	93	91	85	78	69	59
LF, LX, LN-15-9	7.5		124	115	113	111	108	106	103	96	88	78	67
LF, LX, LN-15-10	11		138	128	126	124	121	118	115	107	98	87	75
LF, LX, LN-15-12	11		166	154	152	149	145	142	138	129	117	104	90
LF, LX, LN-15-14	11		194	180	177	173	168	165	160	149	136	122	106
LF, LX, LN-15-16	15		222	209	205	200	194	189	184	172	157	142	125
LF, LX, LN-15-18	15		250	235	231	225	218	213	207	194	177	160	141

## Performance curve ISO9906:2012 Grade 3B



# LDROO20

## Installation sketch



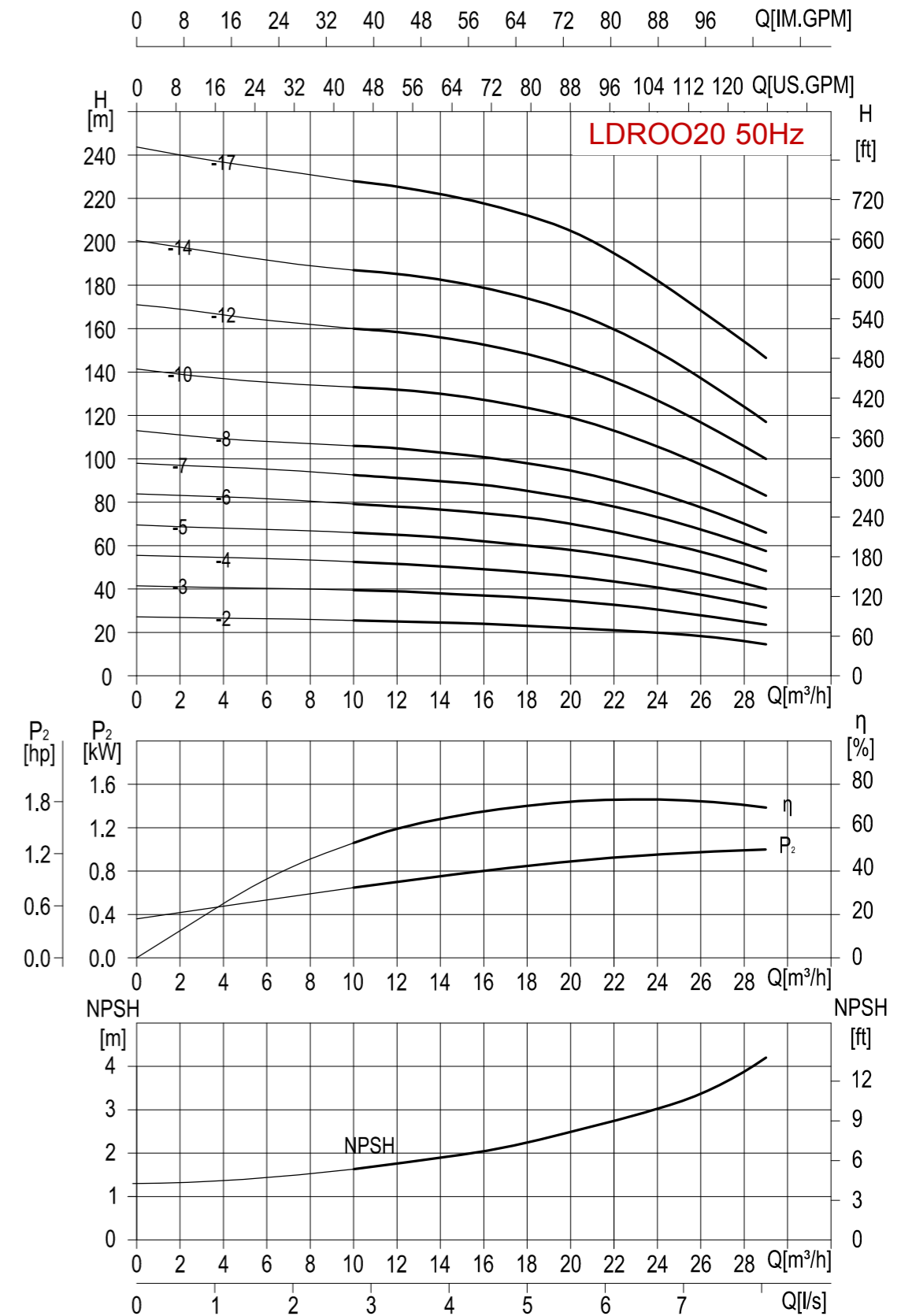
## Size and weight

Model	Pump and motor dimensions					Weight (kg)	
	H1	H2	H	D1	D2	LF	LX, LN
LF, LX, LN-20-2	307	290	687	171	120	48	41
LF, LX, LN-20-3	362	355	807	214	151	66	59
LF, LX, LN-20-4	485	390	965	257	168	88	81
LF, LX, LN-20-5	530	390	1010	257	168	90	83
LF, LX, LN-20-6	575	390	1055	257	168	99	92
LF, LX, LN-20-7	620	390	1100	257	168	100	93
LF, LX, LN-20-8	695	500	1285	314	261	167	160
LF, LX, LN-20-10	785	500	1375	314	261	170	163
LF, LX, LN-20-12	875	500	1465	314	261	188	181
LF, LX, LN-20-14	965	500	1555	314	261	191	184
LF, LX, LN-20-17	1100	550	1740	314	261	212	205

## Performance table

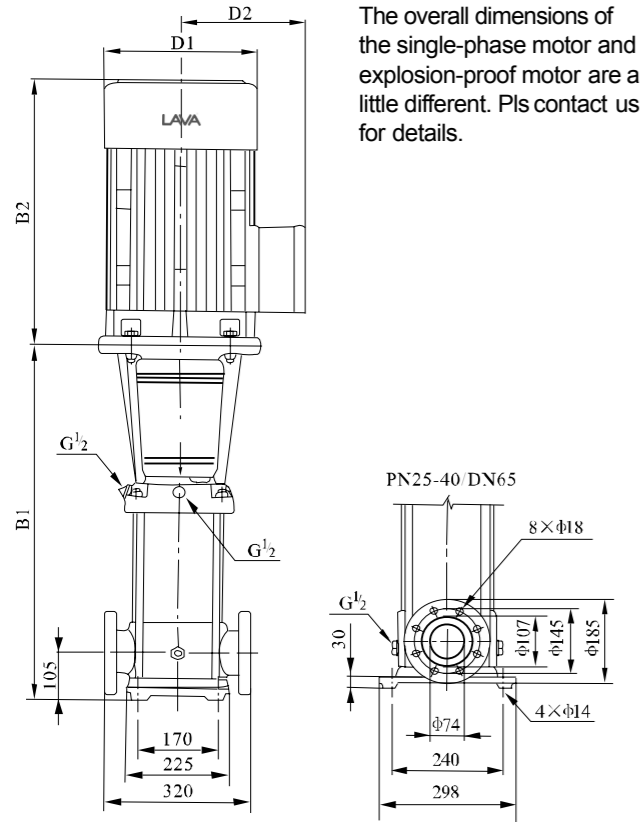
Model	Motor (kW)	Q (m³/h)	Q (m³/h)												
			0	10	12	14	16	18	20	22	24	26	28	29	
LF, LX, LN-20-2	2.2		27,2	25,5	25	24,5	24	23,7	23	22	20,5	18	16	14,5	
LF, LX, LN-20-3	4		41,5	39,5	39	38	37	36	35	33	31	28	25	23,5	
LF, LX, LN-20-4	5.5		55,5	52,5	51	50	49	48,5	47	45	41,5	37	33	31,5	
LF, LX, LN-20-5	5.5		69,5	66	65	64	62	60	58	55	51	47	42	40	
LF, LX, LN-20-6	7.5		84	79	78	77	75	73	70	66	62	58	52	48	
LF, LX, LN-20-7	7.5		98	92,5	91	90	88	85	82	78	73	68	61	57,5	
LF, LX, LN-20-8	11		113	106	105	103	101	98	95	90	84	77	70	66	
LF, LX, LN-20-10	11		141	133	132	130	127	123	119	113	106	97	88	83	
LF, LX, LN-20-12	15		171	160	158	156	153	149	143	137	127	117	106	100	
LF, LX, LN-20-14	15		200	187	185	183	179	174	168	160	149	137	124	117	
LF, LX, LN-20-17	18.5		244	228	225	222	218	212	205	195	182	168	154	147	

## Performance curve ISO9906:2012 Grade 3B



# LDROO32

## Installation sketch



The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

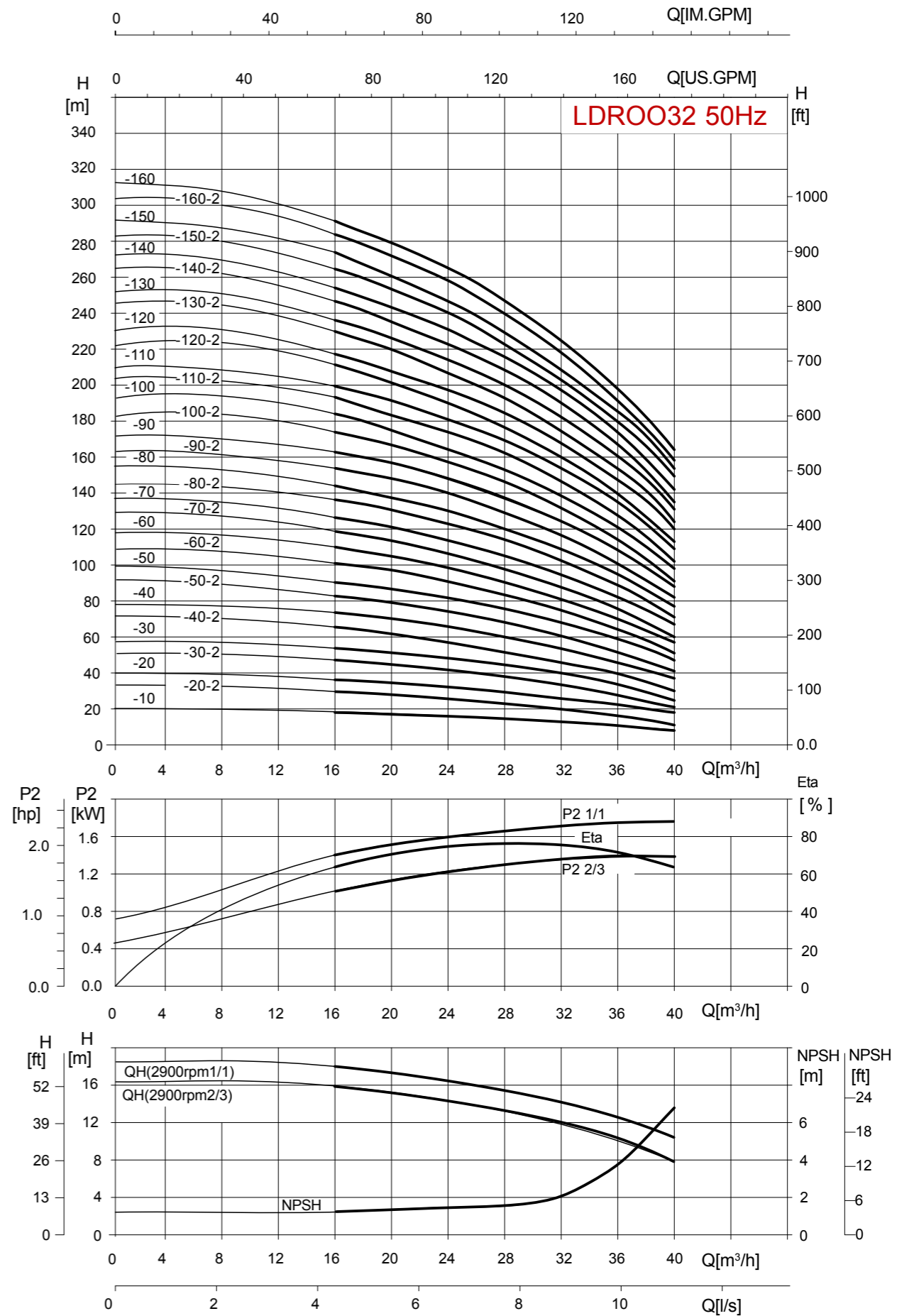
## Size and weight

Model	Pump and motor dimensions					Weight (kg)
	B1	B2	B	D1	D2	
LF, LX, LN, LD-32-10	505	290	795	190	155	64/68
LF, LX, LN, LD-20-2/ LF, LX, LN, LD-32-20	575	345/ 355	920/ 930	197/ 230	165/ 180	77/85
LF, LX, LN, LD-32-30-2/ LF, LX, LN, LD-32-30	645	390	1035	260	208	100
LF, LX, LN, LD-32-40-2/ LF, LX, LN, LD-32-40	715	390	1105	260	208	109
LF, LX, LN, LD-32-50-2/ LF, LX, LN, LD-32-50	890	500	1390	330	255	181
LF, LX, LN, LD-32-60-2/ LF, LX, LN, LD-32-60	960	500	1460	330	255	185
LF, LX, LN, LD-32-70-2/ LF, LX, LN, LD-32-70	1030	500	1530	330	255	199
LF, LX, LN, LD-32-80-2/ LF, LX, LN, LD-32-80	1100	500	1600	330	255	203
LF, LX, LN, LD-32-90-2/ LF, LX, LN, LD-32-90	1170	550	1720	330	255	222
LF, LX, LN, LD-32-100-2/ LF, LX, LN, LD-32-100	1240	550	1790	330	255	227
LF, LX, LN, LD-32-110-2/ LF, LX, LN, LD-32-110	1310	575	1885	360	285	272
LF, LX, LN, LD-32-120-2/ LF, LX, LN, LD-32-120	1380	575	1955	360	285	276
LF, LX, LN, LD-32-130-2/ LF, LX, LN, LD-32-130	1450	650	2100	400	310	337
LF, LX, LN, LD-32-140-2/ LF, LX, LN, LD-32-140	1520	650	2170	400	310	341
LF, LX, LN, LD-32-150-2/ LF, LX, LN, LD-32-150	1590	650	2240	400	310	345
LF, LX, LN, LD-32-160-2/ LF, LX, LN, LD-32-160	1660	650	2310	400	310	350

## Performance table

Model	Driving motor		Q (m <sup>3</sup> /h)	16	20	24	28	32	36	40
	(kW)	(hp)								
LF, LX, LN, LD-32-10	2,2	3	18	17	15	14	13	11	8	
LF, LX, LN, LD-32-20-2	3	4	29	28	26	23	20	16	11	
LF, LX, LN, LD-32-20	4	5,5	36	34	32	29	27	23	18	
LF, LX, LN, LD-32-30-2	5,5	7,5	47	44	41	39	33	28	21	
LF, LX, LN, LD-32-30	5,5	7,5	54	51	48	44	40	35	27	
LF, LX, LN, LD-32-40-2	7,5	10	65	62	58	53	46	40	30	
LF, LX, LN, LD-32-40	7,5	10	72	69	65	59	53	47	37	
LF, LX, LN, LD-32-50-2	11	15	83	79	74	68	60	52	41	
LF, LX, LN, LD-32-50	11	15	90	86	81	74	67	59	47	
LF, LX, LN, LD-32-60-2	11	15	101	97	90	83	74	65	51	
LF, LX, LN, LD-32-60	11	15	108	104	97	90	81	72	57	
LF, LX, LN, LDN-32-70-2	15	20	119	114	107	98	88	78	60	
LF, LX, LN, LD-32-70	15	20	126	121	113	105	95	85	67	
LF, LX, LN, LD-32-80-2	15	20	136	131	123	114	102	90	71	
LF, LX, LN, LD-32-80	15	20	144	138	130	120	109	97	77	
LF, LX, LN, LD-32-90-2	18,5	25	154	148	140	129	117	102	82	
LF, LX, LN, LD-32-90	18,5	25	162	156	147	136	124	109	88	
LF, LX, LN, LD-32-100-2	18,5	25	175	166	157	146	131	115	91	
LF, LX, LN, LD-32-100	18,5	25	182	173	164	152	138	122	98	
LF, LX, LN, LD-32-110-2	22	30	193	184	173	164	146	128	102	
LF, LX, LN, LD-32-110	22	30	200	191	180	168	153	135	109	
LF, LX, LN, LD-32-120-2	22	30	211	201	189	178	160	140	113	
LF, LX, LN, LD-32-120	22	30	218	208	196	184	167	147	120	
LF, LX, LN, LD-32-130-2	30	40	230	228	216	204	187	167	124	
LF, LX, LN, LD-32-130	30	40	237	225	213	200	181	160	131	
LF, LX, LN, LD-32-140-2	30	40	247	235	222	210	189	165	135	
LF, LX, LN, LD-32-140	30	40	255	242	229	216	196	172	142	
LF, LX, LN, LD-32-150-2	30	40	266	253	239	224	203	178	145	
LF, LX, LN, LD-32-150	30	40	274	260	246	231	210	185	152	
LF, LX, LN, LD-32-160-2	30	40	284	270	255	240	218	190	156	
LF, LX, LN, LD-32-160	30	40	292	277	262	246	225	197	163	

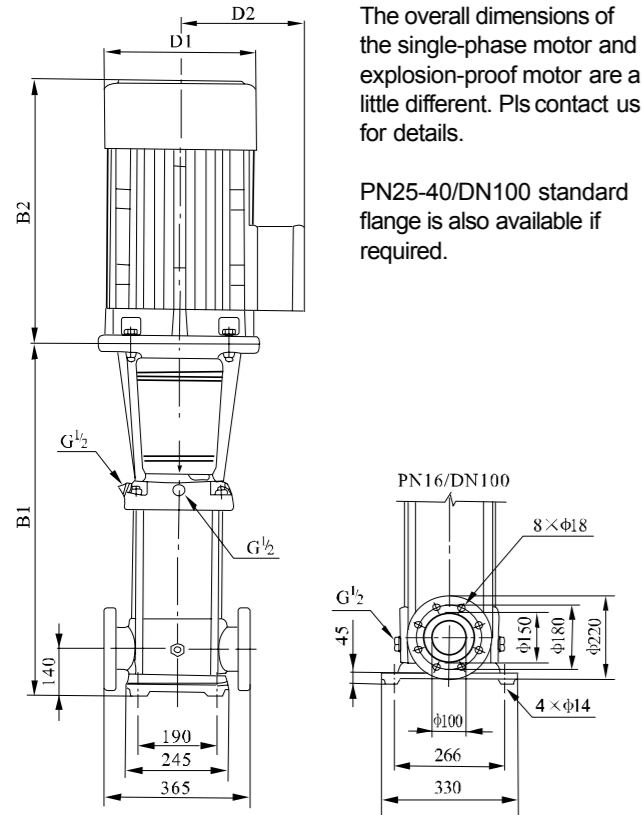
## Performance curve ISO9906:2012 Grade 3B





# LDRO065

## Installation sketch



The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

PN25-40/DN100 standard flange is also available if required.

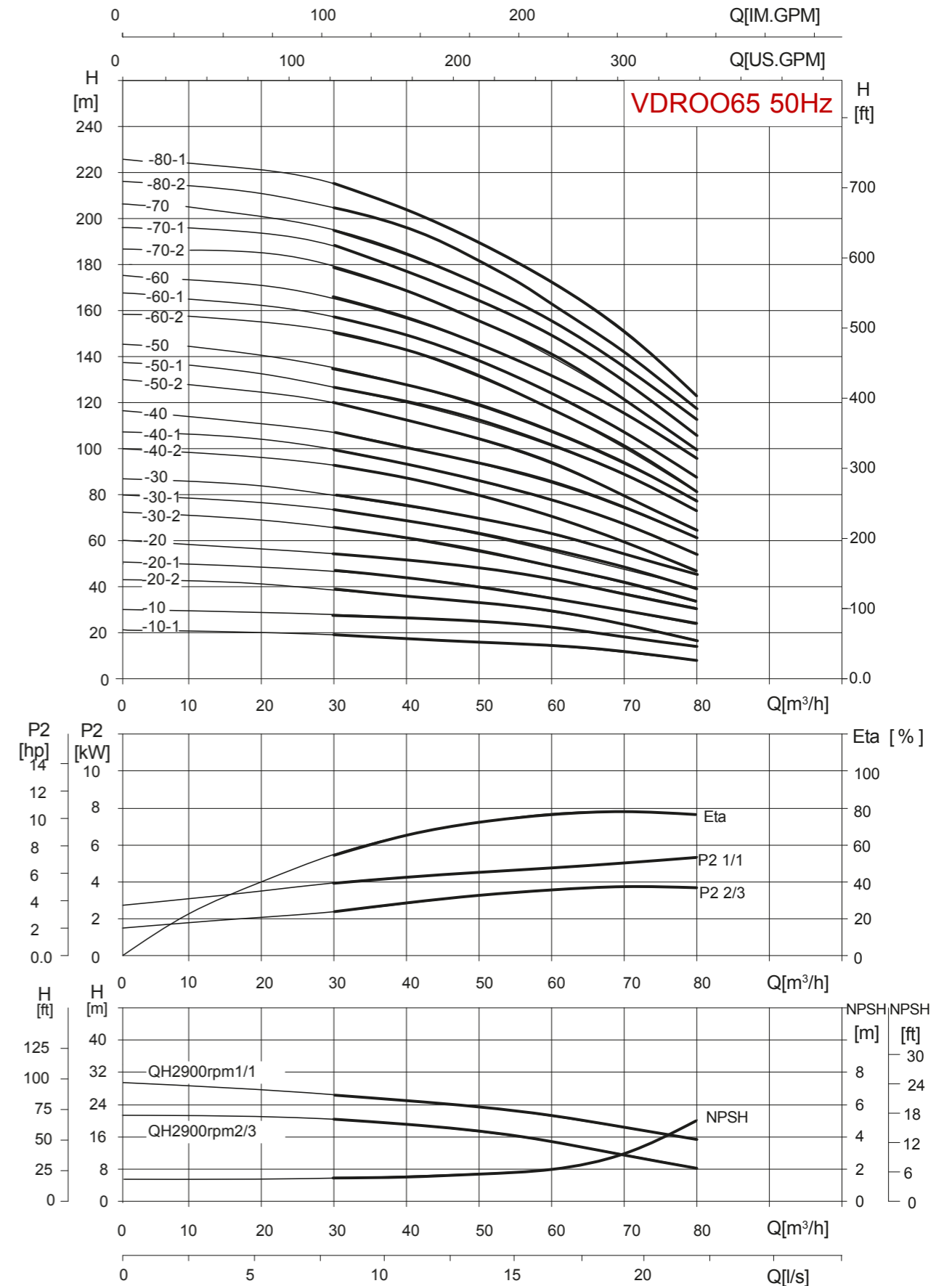
## Size and weight

Model	Pump and motor dimensions					Weight (kg)
	B1	B2	B	D1	D2	
LF,LX,LN,LD-65-10-1	561	335	916	230	188	93
LF,LX,LN,LD-65-10	561	390	951	260	208	105
LF,LX,LN,LD-65-20-2	644	390	1034	260	208	110
LF,LX,LN,LD-65-20-1	754	500	1254	330	255	182
LF,LX,LN,LD-65-20	754	500	1254	330	255	182
LF,LX,LN,LD-65-30-2	836	500	1336	330	255	196
LF,LX,LN,LD-65-30-1	836	500	1336	330	255	197
LF,LX,LN,LD-65-30	836	550	1386	330	255	221
LF,LX,LN,LD-65-40-2	919	550	1469	330	255	225
LF,LX,LN,LD-65-40-1	919	575	1494	360	285	258
LF,LX,LN,LD-65-40	919	575	1494	360	285	258
LF,LX,LN,LD-65-50-2	1001	650	1651	400	310	319
LF,LX,LN,LD-65-50-1	1001	650	1651	400	310	319
LF,LX,LN,LD-65-50	1001	650	1651	400	310	320
LF,LX,LN,LD-65-60-2	1084	650	1734	400	310	325
LF,LX,LN,LD-65-60-1	1084	650	1734	400	310	349
LF,LX,LN,LD-65-60	1084	650	1734	400	310	349
LF,LX,LN,LD-65-70-2	1166	650	1816	400	310	353
LF,LX,LN,LD-65-70-1	1166	650	1816	400	310	353
LF,LX,LN,LD-65-70	1166	685	1851	460	340	420
LF,LX,LN,LD-65-80-2	1248	685	1933	460	340	424
LF,LX,LN,LD-65-80-1	1248	685	1933	460	340	424

## Performance table

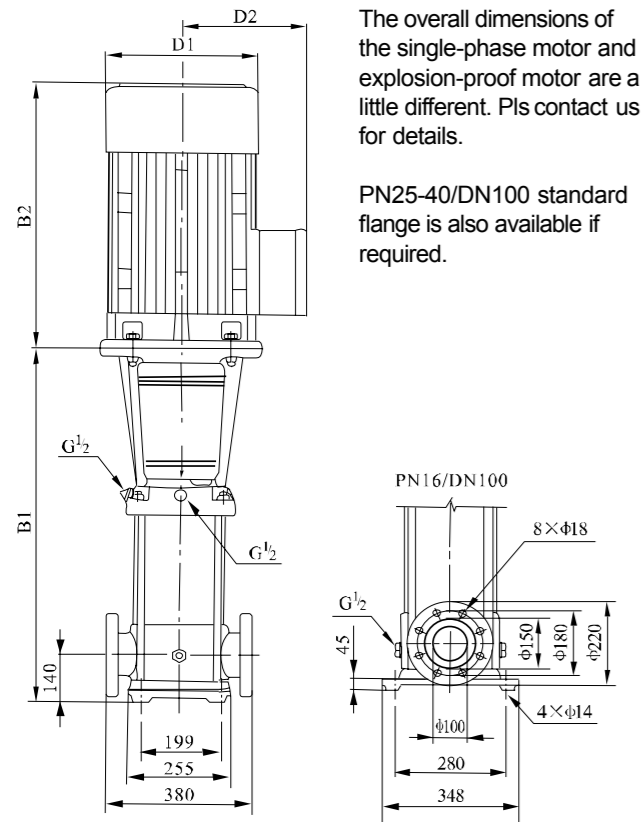
Model	Driving motor		Q (m³/h)	H (m)							
	(kW)	(hp)		30	40	50	60	65	70	80	
LF,LX,LN,LD-65-10-1	4	5,5	19	18	16	14	13	11	8		
LF,LX,LN,LD-65-10	5,5	7,5	27	25	23	21	20	18	15		
LF,LX,LN,LD-65-20-2	7,5	10	39	36	33	29	26	23	17		
LF,LX,LN,LD-65-20-1	11	15	46	44	40	36	33	30	24		
LF,LX,LN,LD-65-20	11	15	53	51	47	43	40	37	30		
LF,LX,LN,LD-65-30-2	15	20	66	62	56	50	45	41	32		
LF,LX,LN,LD-65-30-1	15	20	73	69	63	57	53	48	39		
LF,LX,LN,LD-65-30	18,5	25	80	76	70	64	60	55	46		
LF,LX,LN,LD-65-40-2	18,5	25	92	87	80	71	66	60	47		
LF,LX,LN,LD-65-40-1	22	30	100	94	87	78	73	67	54		
LF,LX,LN,LD-65-40	22	30	107	101	94	85	80	74	61		
LF,LX,LN,LD-65-50-2	30	40	121	114	105	95	88	80	64		
LF,LX,LN,LD-65-50-1	30	40	128	121	112	102	95	87	71		
LF,LX,LN,LD-65-50	30	40	136	129	119	109	102	94	78		
LF,LX,LN,LD-65-60-2	30	40	150	142	131	118	110	101	81		
LF,LX,LN,LD-65-60-1	37	50	157	149	138	125	117	108	88		
LF,LX,LN,LD-65-60	37	50	164	156	145	132	124	115	95		
LF,LX,LN,LD-65-70-2	37	50	179	169	156	141	132	121	99		
LF,LX,LN,LD-65-70-1	37	50	186	176	163	148	139	128	106		
LF,LX,LN,LD-65-70	45	60	193	183	170	155	146	135	112		
LF,LX,LN,LD-65-80-2	45	60	207	196	182	164	154	142	116		
LF,LX,LN,LD-65-80-1	45	60	215	203	189	171	161	149	123		

## Performance curve ISO9906:2012 Grade 3B



# LDROO90

## Installation sketch



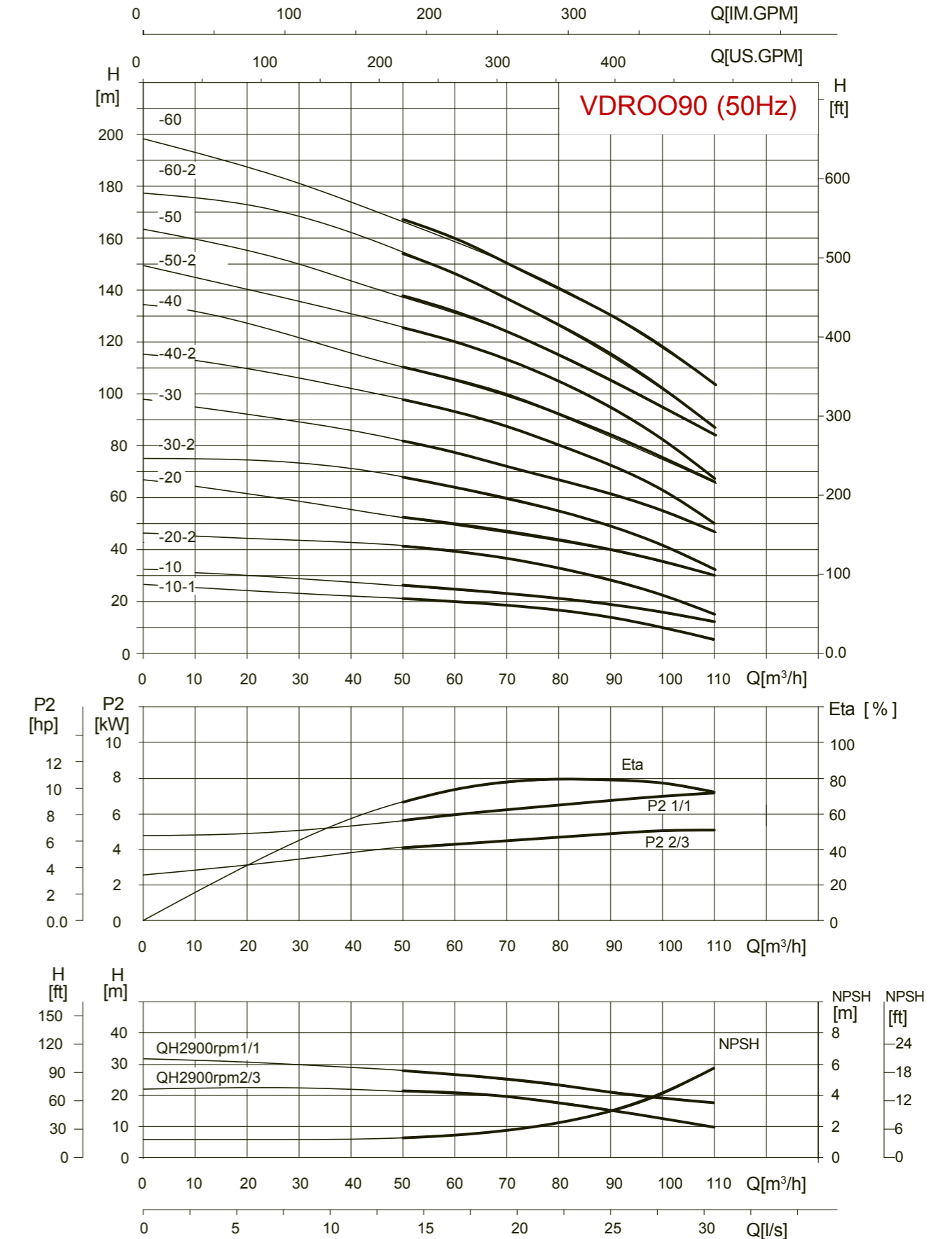
## Size and weight

Model	Pump and motor dimensions					Weight (kg)
	B1	B2	B	D1	D2	
LF,LX,LN,LD-90-10-1	571	390	961	260	208	105
LF,LX,LN,LD-90-10	571	390	961	260	208	110
LF,LX,LN,LD-90-20-2	773	500	1273	330	255	181
LF,LX,LN,LD-90-20	773	500	1273	330	255	192
LF,LX,LN,LD-90-30-2	865	550	1415	330	255	215
LF,LX,LN,LD-90-30	865	575	1440	360	285	252
LF,LX,LN,LD-90-40-2	957	650	1607	400	310	312
LF,LX,LN,LD-90-40	957	650	1607	400	310	312
LF,LX,LN,LD-90-50-2	1049	650	1699	400	310	336
LF,LX,LN,LD-90-50	1049	650	1699	400	310	336
LF,LX,LN,LD-90-60-2	1141	685	1826	460	340	407
LF,LX,LN,LD-90-60	1141	685	1826	460	340	407

## Performance table

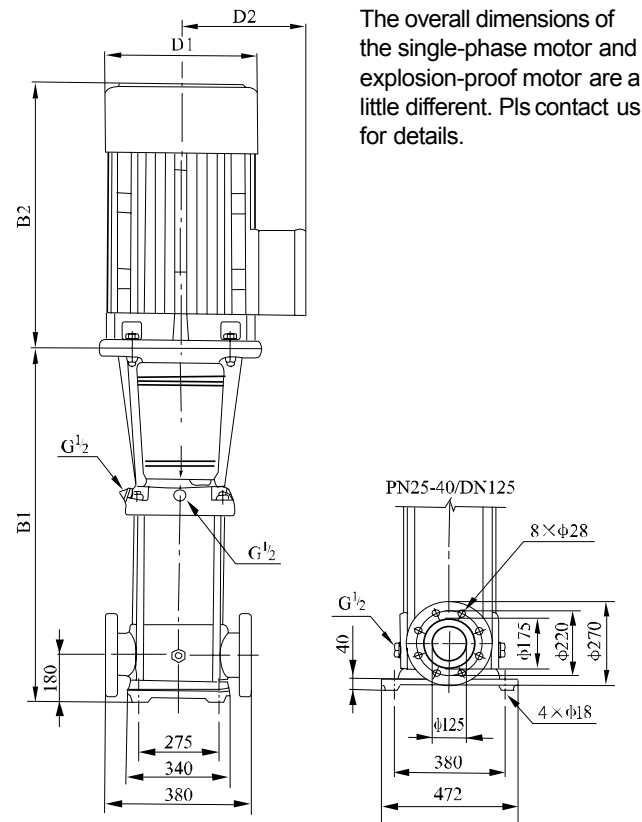
Model	Driving motor		Q (m <sup>3</sup> /h)	H (m)														
	(kW)	(hp)		50	60	70	80	85	90	100	110							
LF,LX,LN,LD-90-10-1	5,5	7,5		22	19	17	16	14	13	10	6							
LF,LX,LN,LD-90-10	7,5	10		25	24	22	21	20	19	16	12							
LF,LX,LN,LD-90-20-2	11	15		41	39	36	32	30	28	22	15							
LF,LX,LN,LD-90-20	15	20		53	50	47	44	41	40	36	30							
LF,LX,LN,LD-90-30-2	18,5	25		68	65	60	55	52	49	41	32							
LF,LX,LN,LD-90-30	22	30		81	77	72	67	64	62	55	48							
LF,LX,LN,LD-90-40-2	30	40		98	93	87	80	75	72	62	50							
LF,LX,LN,LD-90-40	30	40		110	105	100	92	86	84	76	66							
LF,LX,LN,LD-90-50-2	37	50		126	120	113	104	98	93	81	68							
LF,LX,LN,LD-90-50	37	50		139	131	124	115	110	106	94	83							
LF,LX,LN,LD-90-60-2	45	60		155	148	139	129	122	117	102	85							
LF,LX,LN,LD-90-60	45	60		168	160	150	141	134	130	117	103							

## Performance curve ISO9906:2012 Grade 3B



# LDROO125

## Installation sketch



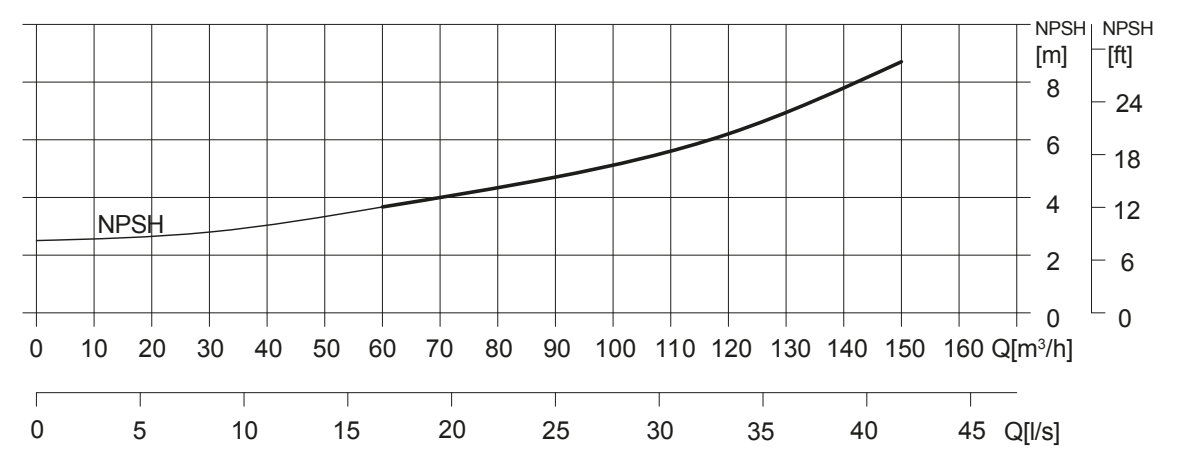
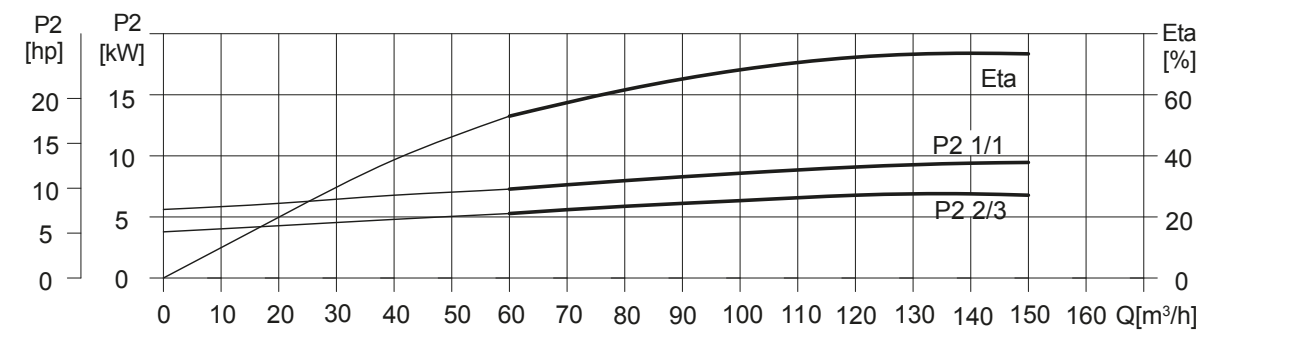
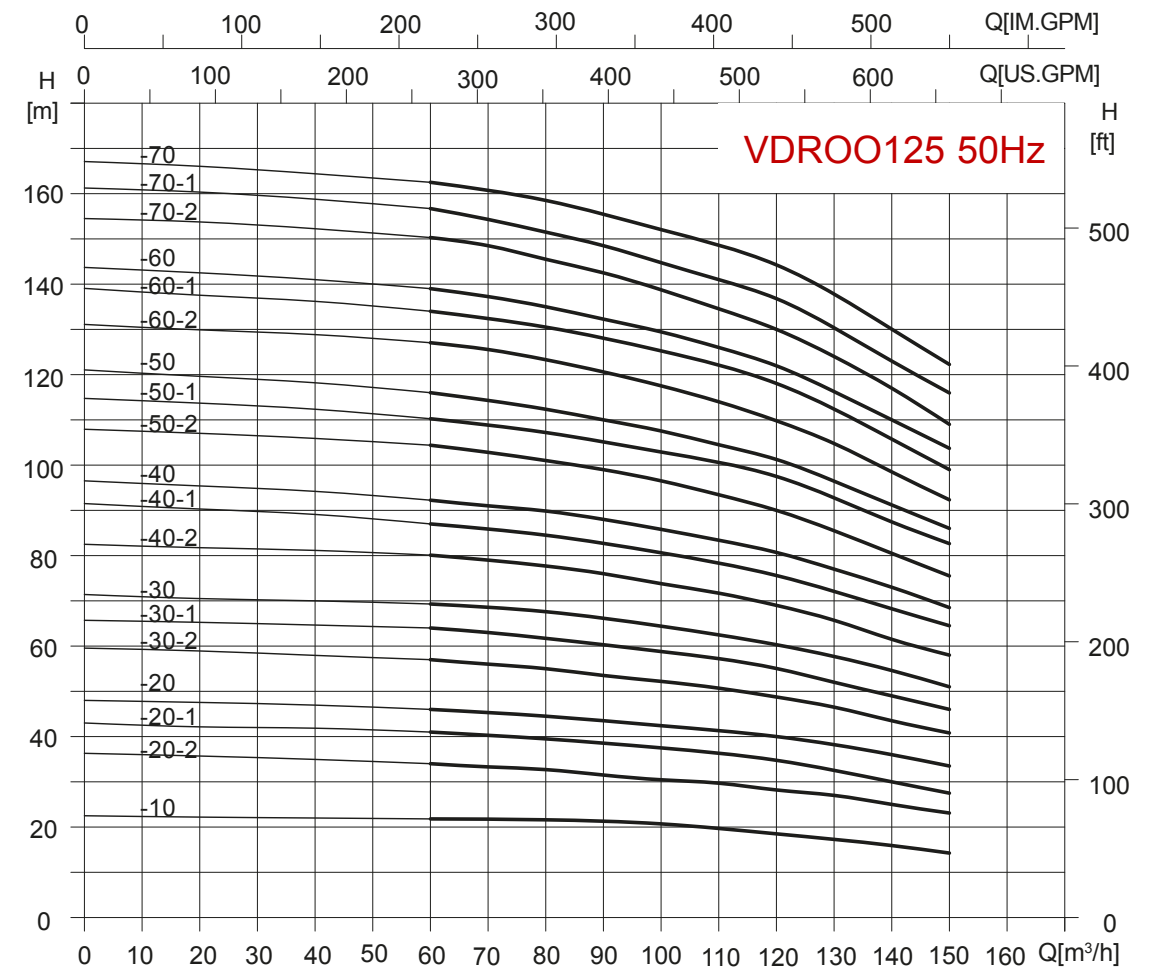
## Size and weight

Model	Pump and motor dimensions					Weight (kg)
	B1	B2	B	D1	D2	
LF,LX,LN,LD-125-10	840	500	1340	330	255	230
LF,LX,LN,LD-125-20-2	1000	500	1500	330	255	245
LF,LX,LN,LD-125-20-1	1000	550	1550	330	255	250
LF,LX,LN,LD-125-20	1000	575	1575	360	285	285
LF,LX,LN,LD-125-30-2	1160	650	1810	400	310	360
LF,LX,LN,LD-125-30-1	1160	650	1810	400	310	360
LF,LX,LN,LD-125-30	1160	650	1810	400	310	360
LF,LX,LN,LD-125-40-2	1320	650	1970	400	310	400
LF,LX,LN,LD-125-40-1	1320	650	1970	400	310	400
LF,LX,LN,LD-125-40	1320	685	2005	400	340	460
LF,LX,LN,LD-125-50-2	1480	685	2165	460	340	470
LF,LX,LN,LD-125-50-1	1480	685	2165	460	340	470
LF,LX,LN,LD-125-50	1510	760	2270	460	370	575
LF,LX,LN,LD-125-60-2	1670	760	2430	540	370	585
LF,LX,LN,LD-125-60-1	1670	760	2430	540	370	585
LF,LX,LN,LD-125-60	1670	845	2515	540	410	705
LF,LX,LN,LD-125-70-2	1830	845	2675	580	410	715
LF,LX,LN,LD-125-70-1	1830	845	2675	580	410	715
LF,LX,LN,LD-125-70	1830	845	2675	580	410	715

## Performance table

Model	Driving motor		Q (m3/h)	H (m)											
	(kW)	(hp)		60	70	80	90	100	110	120	130	140	150		
LF,LX,LN,LD-125-10	11	15		22	21,8	21,6	21	20,5	19,5	18,5	17	16	15		
LF,LX,LN,LD-125-20-2	15	20		34	33,6	33	31	30,2	30	28,5	28	25	24		
LF,LX,LN,LD-125-20-1	18,5	25		41	40	39,5	38,5	37	36,5	34,5	32,5	30	27,5		
LF,LX,LN,LD-125-20	22	30		46	45	44,5	43,5	42,4	41	40	38	36	33,5		
LF,LX,LN,LD-125-30-2	30	40		57	56	55	53,5	52	51	49	46,5	43,5	41		
LF,LX,LN,LD-125-30-1	30	40		64	63	62	60	58,5	57,5	55,5	52	49	46		
LF,LX,LN,LD-125-30	30	40		69,5	68,5	67,5	66	64	62,5	61	57,5	54,5	51		
LF,LX,LN,LD-125-40-2	37	50		80,5	79	78	76	73,5	72	69	66	61,5	58		
LF,LX,LN,LD-125-40-1	37	50		87	86	84,5	82	80	78	76	72	68	64,5		
LF,LX,LN,LD-125-40	45	60		92,5	91	90	88	85,5	83	81	77	73	68,5		
LF,LX,LN,LD-125-50-2	45	60		104,5	103	101	99	96	93	90	85,5	80,5	75,5		
LF,LX,LN,LD-125-50-1	45	60		110,5	109	107,5	105	102	100	97	90	86,5	83		
LF,LX,LN,LD-125-50	55	75		115,5	114	113	110	107,5	104,5	101,5	96	91	86		
LF,LX,LN,LD-125-60-2	55	75		128	125,5	123	121	117,3	113,5	110	104,5	98,5	92,5		
LF,LX,LN,LD-125-60-1	55	75		134	132	130,5	127	124	121	118	111	105	100		
LF,LX,LN,LD-125-60	75	100		139	137	135	132	128,8	126	123	116	110	104		
LF,LX,LN,LD-125-70-2	75	100		151	148	145,5	143	139,6	134	130	123,5	116,5	109		
LF,LX,LN,LD-125-70-1	75	100		156,5	154	152	148,5	144,5	141	137,5	130	123	116,5		
LF,LX,LN,LD-125-70	75	100		162,5	160,5	158,5	155	151	148	145	137	129	123		

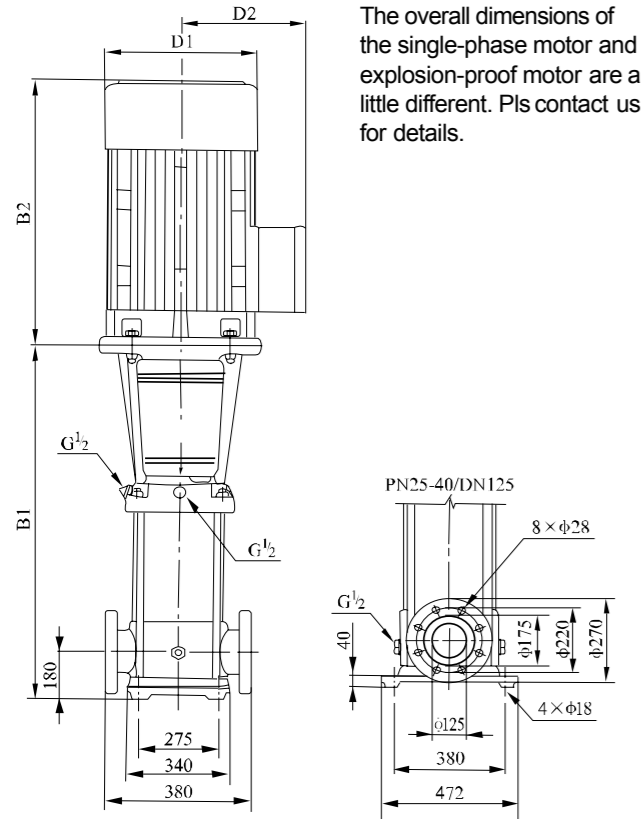
## Performance curve ISO9906:2012 Grade 3B





# LDROO150

## Installation sketch



The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

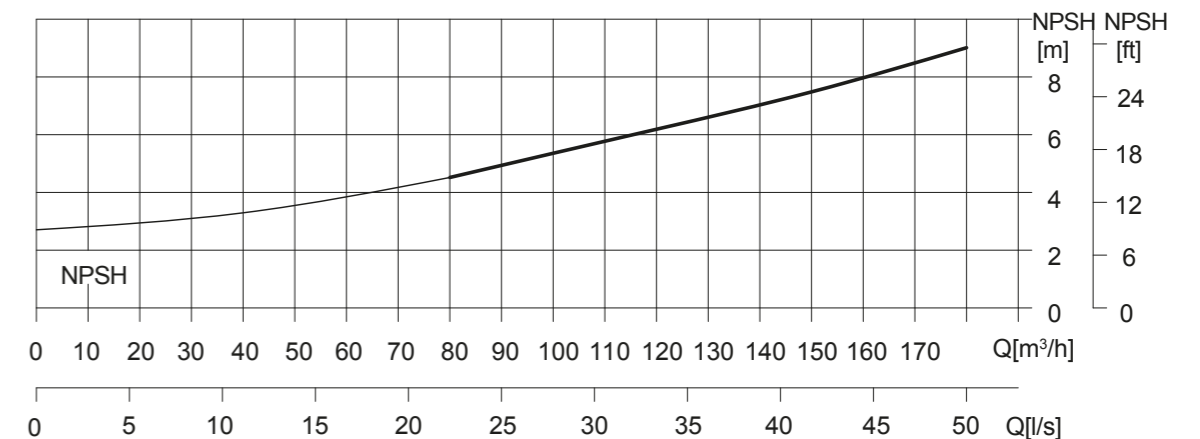
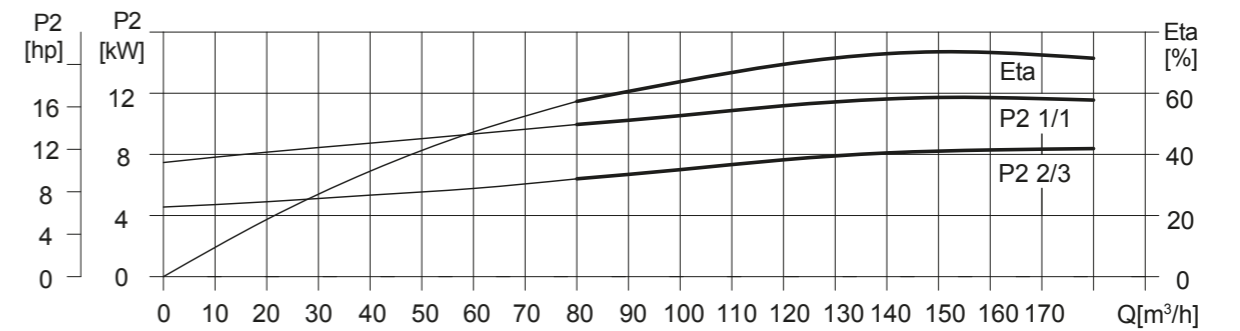
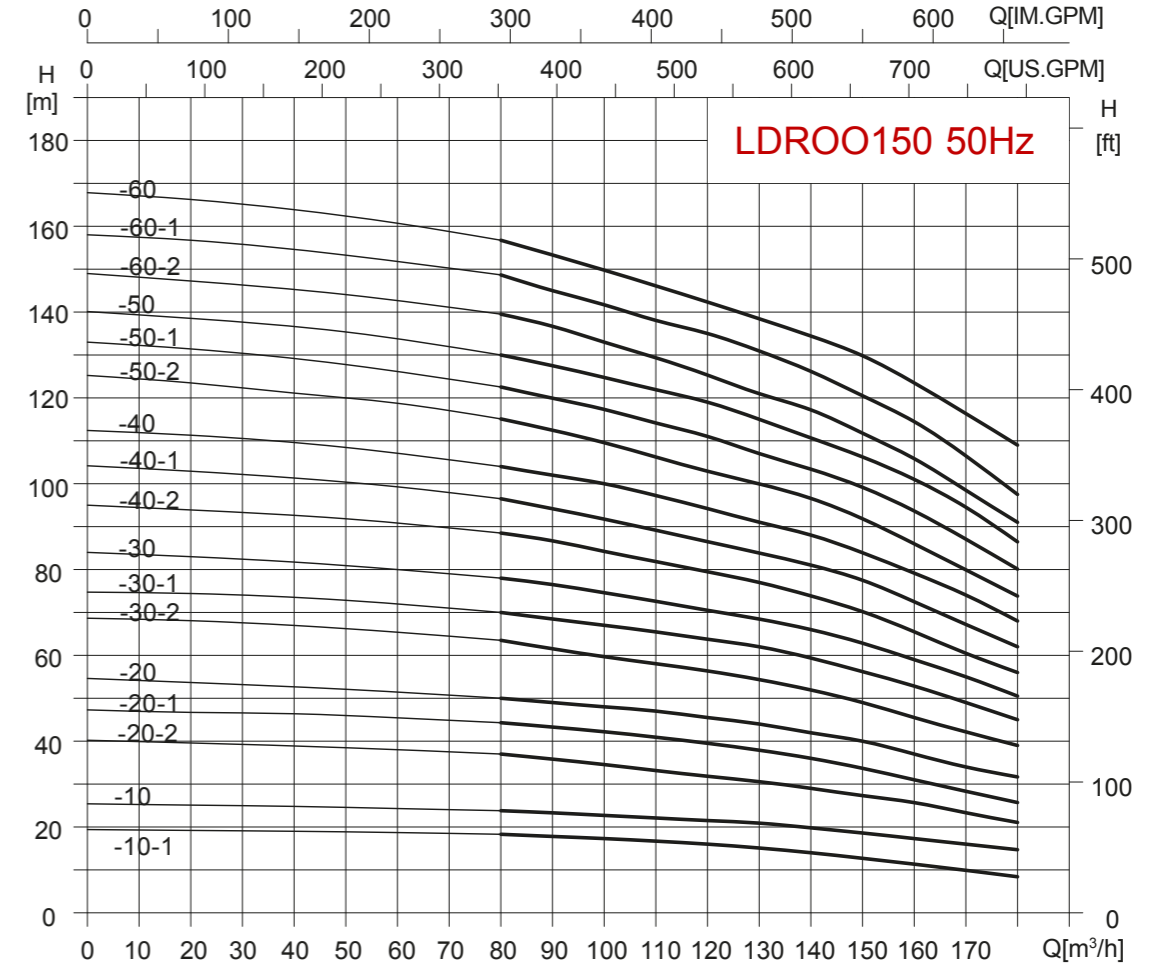
## Size and weight

Model	Pump and motor dimensions					Weight (kg)
	B1	B2	B	D1	D2	
LF,LX,LN,LD-150-10-1	840	500	1340	330	255	230
LF,LX,LN,LD-150-10	840	500	1340	330	255	235
LF,LX,LN,LD-150-20-2	1000	550	1550	330	255	250
LF,LX,LN,LD-150-20-1	1000	575	1575	360	285	295
LF,LX,LN,LD-150-20	1000	650	1650	400	310	350
LF,LX,LN,LD-150-30-2	1160	650	1810	400	310	360
LF,LX,LN,LD-150-30-1	1160	650	1810	400	310	360
LF,LX,LN,LD-150-30	1160	650	1810	400	310	385
LF,LX,LN,LD-150-40-2	1320	685	2005	460	310	460
LF,LX,LN,LD-150-40-1	1320	685	2005	460	340	460
LF,LX,LN,LD-150-40	1350	760	2110	540	340	560
LF,LX,LN,LD-150-50-2	1510	760	2270	540	370	570
LF,LX,LN,LD-150-50-1	1510	845	2355	580	410	690
LF,LX,LN,LD-150-50	1510	845	2355	580	410	690
LF,LX,LN,LD-150-60-2	1670	845	2515	580	410	700
LF,LX,LN,LD-150-60-1	1670	845	2515	580	410	700
LF,LX,LN,LD-150-60	1670	845	2515	580	410	700

## Performance table

Model	Driving motor		Q (m <sup>3</sup> /h)	H (m)											
	(kW)	(hp)		80	90	100	110	120	130	140	150	160	170	180	
LF,LX,LN,LD-150-10-1	11	15		18,3	17,8	17,3	17	16	15	14	12,5	11	10	8,5	
LF,LX,LN,LD-150-10	15	20		24	23	22,5	22	21,5	20,5	20	18,5	17	16	15	
LF,LX,LN,LD-150-20-2	18,5	25		37	35,5	34	33	32	31	29	27,5	26	23	21	
LF,LX,LN,LD-150-20-1	22	30		44,3	43	43	40	39	38,5	37,5	35	33	30	27	
LF,LX,LN,LD-150-20	30	40		50	49	48	47	45,5	44	42	40	37	34	32	
LF,LX,LN,LD-150-30-2	30	40		63,5	61	59	57,5	56	54,5	53	49	45,5	42	39	
LF,LX,LN,LD-150-30-1	37	50		70	68	67	65	63	62	60	56	53	49	45	
LF,LX,LN,LD-150-30	37	50		78	76,5	75	73	70,5	68	66	63	59	55	50,5	
LF,LX,LN,LD-150-40-2	45	60		89	87	84	81,5	79	77	74,5	70,5	65,5	60	56	
LF,LX,LN,LD-150-40-1	45	60		96,5	94	91,5	89	86,5	84	81,5	77	72,5	67	62	
LF,LX,LN,LD-150-40	55	75		104	102	100	97	95	91	88	84	79,5	74	68	
LF,LX,LN,LD-150-50-2	55	75		115,5	112	109	106	102,5	100	97	92	86	79	73,5	
LF,LX,LN,LD-150-50-1	75	100		122,5	119,5	117	113,5	111,5	107,5	104,5	99	93,5	87	80	
LF,LX,LN,LD-150-50	75	100		130	127,5	125	121	119	115	111,5	106,5	101	94,5	86,5	
LF,LX,LN,LD-150-60-2	75	100		140	137	133	130	126	121	118	112	106	98	91	
LF,LX,LN,LD-150-60-1	75	100		148,5	145	141,7	137,5	135	131	127	120,5	114,5	106,5	97,5	
LF,LX,LN,LD-150-60	75	100		157	153	149	145	142	139,5	137	130	123,5	116	109	

## Performance curve ISO9906:2012 Grade 3B





# Notes

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