

LNT..H with HYDROVAR® (HVL range)



LNT..H SERIES (e-LNT WITH HYDROVAR)

Background and context

For all pumping needs in commercial or residential building and in industry applications, the demand for intelligent pumping systems is constantly growing. Controlled systems offer many advantages: reduced operating costs for the lifetime of the pump, lower environmental impact, longer lifetime of piping systems and networks.

For this reason, Lowara has developed the LNT..H: an intelligent pumping system which assures high level performance with energy consumption tailored to the system's demand.

Benefits of e-LNT with HYDROVAR

Saving: LNT..H transforms the LNT pumps into variable speed intelligent pumping systems. Thanks to the HYDROVAR, the speed of each pump varies so as to maintain a constant flow, a constant pressure, or a differential pressure. In doing so, at any point in time, the pump only receives the energy required. This in turns allows for considerable savings, especially for systems that have varying loads throughout the day.

Easy installation and space-saving: LNT..H saves time and space during installation. The HYDROVAR is delivered already mounted on the motor (for models up to 22kW). The HYDROVAR is kept cool by the motor fan and does not require a control panel. In order to function, only fuses on the supply line are needed (Check your local electrical installation regulations). A wall-mounted HYDROVAR version is available for higher power outputs (up to 45 kW).

Standard motors: LNT..H models are fitted with three-phase standard TEFC motors with insulation class 155 (F).

Identification code:

LNT..H models are identified by the letter "**H**" and the last two characters.

Examples:

LNTE**H**50-125/22/P25VCS4 /**2**

LNTE**H**50-125/22/P25VCS4 /**3**

LNTE**H**50-125/22/P25VCS4 /**4X**

H = with integrated HYDROVAR

/2 = HYDROVAR HVL**2**.022 1~ 208-240 V (50/60 Hz)

/3 = HYDROVAR HVL**3**.022 3~ 208-240 V (50/60 Hz)

/4 = HYDROVAR HVL**4**.022 3~ 380-460 V (50/60 Hz)

Other options:

X = Wi-fi Card included.

(Premium Card already included as standard).

Key Features of the HYDROVAR

- **No need for additional pressure sensors:**

The LNT..H is fitted as standard with two pressure transmitters for each HYDROVAR, consequently four in total, normally are fitted on the flanges.

- **No need for special pumps or motors.**

- **LNT..H is already pre-wired.**

- **No need for IN LINE filters.**

HYDROVAR already includes the THDi filter embedded as standard.

- **No need for bypass or safety systems:**

The LNT..H will immediately switch off when demand drops to zero or when it exceeds maximum pump capacity; thus making installation of additional safety devices unnecessary.

- **Anti-condensation device:**

The HYDROVAR is fitted with anti-condensation devices which switch on when the pump is in standby in order to prevent condensation forming in the unit.



LNT..H SERIES (e-LNT WITH HYDROVAR)

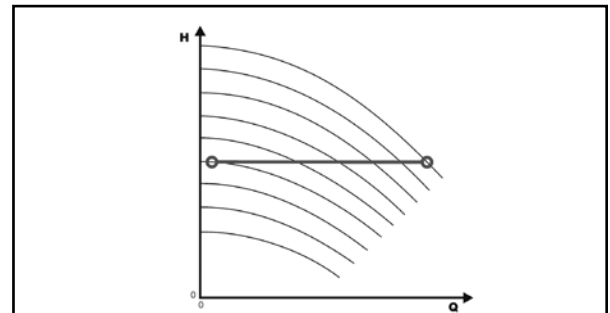
The basic function of the HYDROVAR device is to control the pump to meet the system demands.

HYDROVAR performs these functions by:

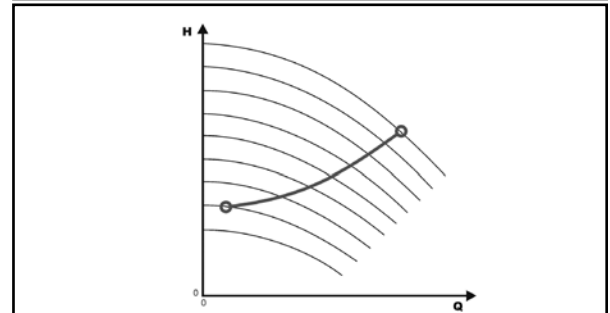
- 1) Measuring the system pressure or flow via a transmitter mounted on the pump's delivery side.
- 2) Calculating the motor speed to maintain the correct flow or pressure.
- 3) Sending out a signal to the pump to start the motor, increase speed, decrease speed or stop.
- 4) In the case of multiple pump installations, HYDROVAR will automatically provide for the cyclic changeover of the pumps' starting sequence.

In addition to these basic functions, HYDROVAR can perform controls only manageable by the most advanced computerized control systems. Some examples are:

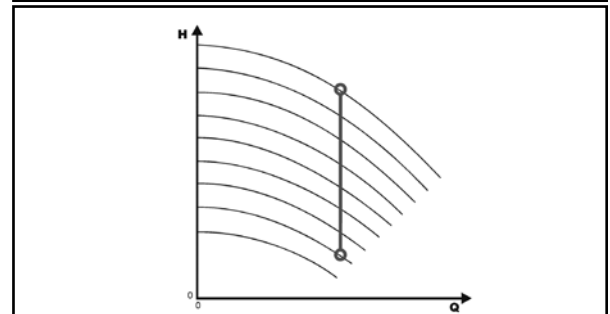
- Stop the pump(s) at zero demand.
- Stop the pump(s) in case of water failure on the suction side (protection against dry running).
- Stop the pump if the required delivery exceeds the pump's capacity (protection against cavitation caused by excessive demand), or automatically switch on the next pump in a multiple series.
- Protect the pump and motor from over-voltage, under-voltage, overload, and earth fault.
- Vary the pump speed: acceleration and deceleration time.
- Compensate for increased flow resistance at high flow rates.
- Conduct automatic tests at set intervals.
- Monitor the converter and motor operating hours.
- Display the energy consumption (kWh).
- Display all functions on an LCD in different languages (Italian, English, French, German, Spanish, Portuguese, Dutch, etc...).
- Send a signal to a remote control system which is proportional to the pressure and frequency.
- Communicate with external control system via Modbus (RS 485 interface) and Bacnet as standard.



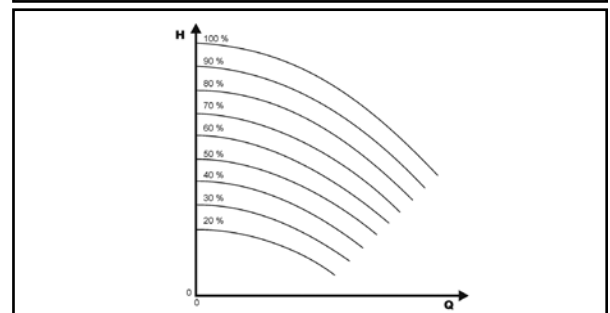
Control for constant pressure



Control to match a system curve



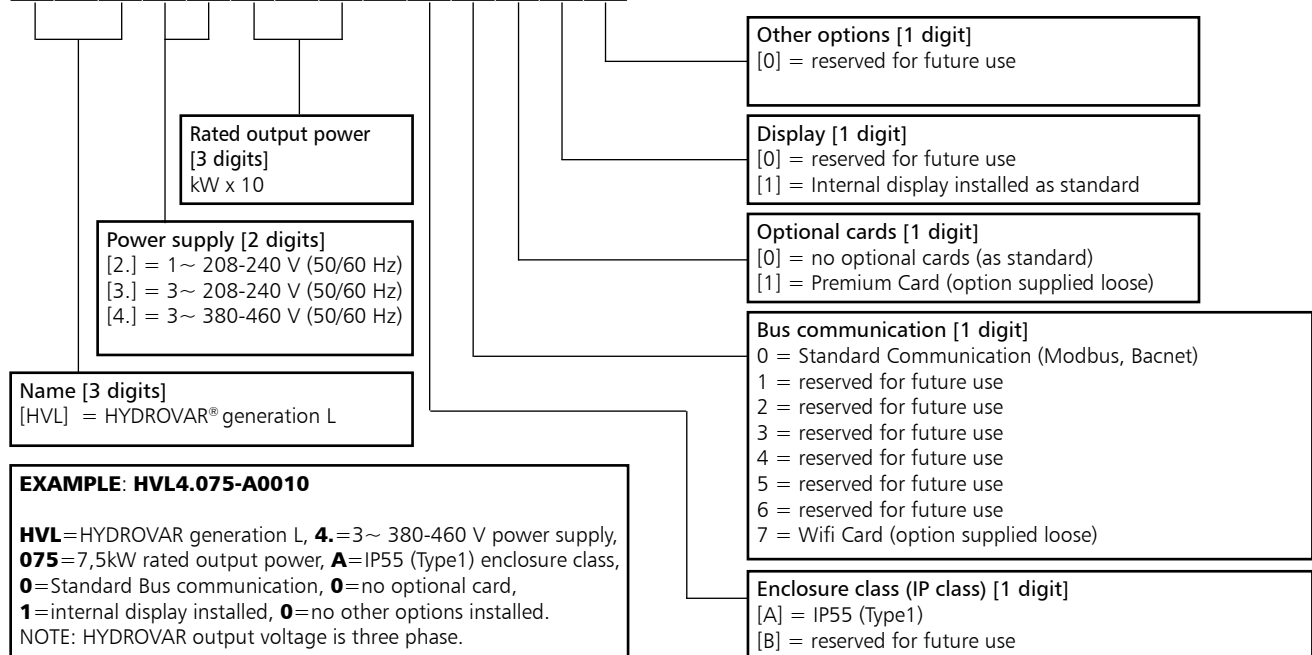
Control for constant flow



Control according to an external signal

HYDROVAR HVL IDENTIFICATION CODE

H V L 4 . 0 7 5 - A 0 0 1 0



DIMENSIONS AND WEIGHTS



TYPE	MODELS			DIMENSIONS (mm)				WEIGHT
	/2	/3	/4	L	B	H	X	Kg
SIZE A	HVL2.015 ÷ 2.022	HVL3.015 ÷ 3.022	HVL4.015 ÷ 4.040	216	205	170	243	5,6
SIZE B	HVL2.030 ÷ 2.040	HVL3.030 ÷ 3.055	HVL4.055 ÷ 4.110	276	265	185	305	10,5
SIZE C	-	HVL3.075 ÷ 3.110	HVL4.150 ÷ 4.220	366	337	200	407	15,6

HVL_dim-en_b_td

HYDROVAR HVL EMC COMPATIBILITY

EMC requirements

HYDROVAR fulfills the product standard EN61800-3:2004 + A1:2012, which defines categories (C1 to C4) for device application areas.

Depending on the motor cable length, a classification of HYDROVAR by category (based on EN61800-3) is reported in the following tables:

HVL	HYDROVAR classification by categories based on EN61800-3
2.015 ÷ 2.040	C1 (*)
3.015 ÷ 3.110	C2 (*)
4.015 ÷ 4.220	C2 (*)

(*) 0,75 motor cable length; contact Xylem for further information

En-Rev_A

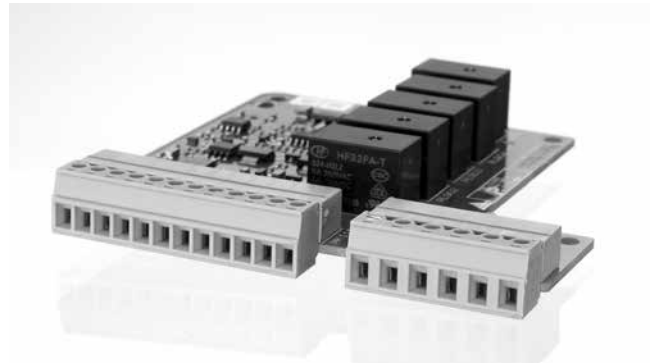
CARD

Premium Card HYDROVAR

For the e-LNE..H and e-LNT..H series, the Premium Card comes fitted as standard on the standalone HYDROVAR. This allows to control up to five fix speed pumps via an external panel.

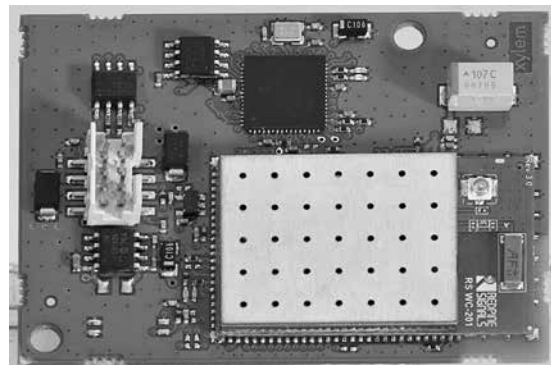
The Premium Card will allow additional features listed below:

- 2 additional Analog Inputs
- 2 Analog Outputs
- 1 additional digital input
- 5 relays.



Wi-Fi Card HYDROVAR (optional)

With the WiFi card fitted in the HYDROVAR, the unit can will allow you to be connected to a wireless network.



OPTIONAL COMPONENTS

Sensors

The following sensors are available for HYDROVAR:

- Pressure-transducer
- Differential pressure-transducer
- Temperature-sensor
- Flow indicator (orifice plate, inductive flow meter)
- Level-sensor.

e-LNT..H SERIES

LIST OF MODELS AT 50 Hz, 2 POLES

SIZE LNT..H	kW	VERSION					
		LNTEH			LNTSH		
		/2	/3	/4	/2	/3	/4
		1 ~ 230V	3 ~ 230V	3 ~ 400V	1 ~ 230V	3 ~ 230V	3 ~ 400V
40-125/11	1,1	A	A	A	A	A	A
40-125/15	1,5	A	A	A	A	A	A
40-125/22	2,2	A	A	A	A	A	A
40-125/30	3	B	B	A	B	B	A
40-160/30	3	B	B	A	B	B	A
40-160/40	4	B	B	A	B	B	A
40-160/55	5,5	-	B	B	-	B	B
40-200/40	4	B	B	A	B	B	A
40-200/55	5,5	-	B	B	-	B	B
40-200/75	7,5	-	C	B	-	C	B
40-250/92	9,2	-	C	B	-	-	-
40-250/110	11	-	C	B	-	C	B
40-250/150	15	-	-	C	-	-	C
50-125/15	1,5	A	A	A	A	A	A
50-125/22	2,2	A	A	A	A	A	A
50-125/30	3	B	B	A	B	B	A
50-125/40	4	B	B	A	B	B	A
50-160/40	4	B	B	A	B	B	A
50-160/55	5,5	-	B	B	-	B	B
50-160/75	7,5	-	NF	B	-	NF	B
50-200/75	7,5	-	C	B	-	C	B
50-200/92	9,2	-	C	B	-	-	-
50-200/110	11	-	C	B	-	C	B
50-250/110	11	-	C	B	-	C	B
50-250/150	15	-	-	C	-	-	C
50-250/185	18,5	-	-	C	-	-	C
50-250/220	22	-	-	C	-	-	C
65-125/30	3	B	B	A	B	B	A
65-125/40	4	B	B	A	B	B	A
65-125/55	5,5	-	B	B	-	B	B
65-125/75	7,5	-	NF	B	-	NF	B
65-160/75	7,5	-	NF	B	-	NF	B
65-160/92	9,2	-	NF	B	-	-	-
65-160/110	11	-	NF	B	-	NF	B
65-200/110	11	-	C	B	-	C	B
65-200/150	15	-	-	C	-	-	C
65-200/185	18,5	-	-	C	-	-	C
65-250/185	18,5	-	-	C	-	-	C
65-250/220	22	-	-	C	-	-	C

NF = Non Feasible, only Wall Mounting KIT version.

SIZE LNT..H	kW	VERSION					
		LNTEH			LNTSH		
		/2	/3	/4	/2	/3	/4
		1 ~ 230V	3 ~ 230V	3 ~ 400V	1 ~ 230V	3 ~ 230V	3 ~ 400V
80-160/75	7,5	-	C	B	-	C	B
80-160/92	9,2	-	C	B	-	-	-
80-160/110	11	-	C	B	-	C	B
80-160/150	15	-	-	C	-	-	C
80-160/185	18,5	-	-	C	-	-	C
80-200/185	18,5	-	-	-	-	-	C
80-200/220	22	-	-	-	-	-	C
100-160/110	11	-	C	B	-	C	B
100-160/150	15	-	-	C	-	-	C
100-160/185	18,5	-	-	C	-	-	C
100-160/220	22	-	-	C	-	-	C
100-200/220	22	-	-	-	-	-	C

LNTH-HVL_models-2p50-en_b_sc

LEGEND

LNTEH : Extended shaft with HYDROVAR (twin version).

LNTSH : Stub shaft with HYDROVAR (twin version).

A, B, C : are the mechanical size of HYDROVAR, refer to "HYDROVAR DIMENSIONS AND WEIGHTS" table in the previous pages.

e-LNT..H SERIES

LIST OF MODELS AT 50 Hz, 4 POLES

SIZE LNT..H	kW	VERSION					
		LNTEH			LNTSH		
		/2	/3	/4	/2	/3	/4
		1 ~ 230V	3 ~ 230V	3 ~ 400V	1 ~ 230V	3 ~ 230V	3 ~ 400V
40-160/05	0,55	A	A	A	A	A	A
40-160/07	0,75	A	A	A	A	A	A
40-200/05	0,55	A	A	A	A	A	A
40-200/07	0,75	A	A	A	A	A	A
40-200/11	1,1	A	A	A	A	A	A
40-250/11	1,1	-	-	-	A	A	A
40-250/15	1,5	A	A	A	A	A	A
40-250/22	2,2	A	A	A	A	A	A
50-125/05	0,55	A	A	A	A	A	A
50-160/05	0,55	A	A	A	A	A	A
50-160/07	0,75	A	A	A	A	A	A
50-160/11	1,1	A	A	A	A	A	A
50-200/11	1,1	A	A	A	A	A	A
50-200/15	1,5	A	A	A	A	A	A
50-250/15	1,5	A	A	A	A	A	A
50-250/22	2,2	A	A	A	A	A	A
50-250/30	3	B	B	A	B	B	A
65-125/05	0,55	A	A	A	A	A	A
65-125/07	0,75	A	A	A	A	A	A
65-125/11	1,1	A	A	A	A	A	A
65-160/11	1,1	A	A	A	A	A	A
65-160/15	1,5	A	A	A	A	A	A
65-200/15	1,5	A	A	A	A	A	A
65-200/22	2,2	A	A	A	A	A	A
65-250/22	2,2	A	A	A	A	A	A
65-250/30	3	B	B	A	B	B	A
65-250/40	4	B	B	A	B	B	A
80-160/11A	1,1	-	-	-	A	A	A
80-160/15B	1,5	A	A	A	-	-	-
80-160/11	1,1	-	-	-	A	A	A
80-160/15	1,5	A	A	A	A	A	A
80-160/22	2,2	A	A	A	A	A	A
80-200/22	2,2	-	-	-	A	A	A
80-200/30	3	-	-	-	B	B	A
80-200/40	4	-	-	-	B	B	A
80-250/55	5,5	-	-	-	-	B	B
80-250/75	7,5	-	-	-	-	C	B
80-315/75	7,5	-	-	-	-	C	B
80-315/110	11	-	-	-	-	C	B
80-315/150	15	-	-	-	-	-	C

SIZE LNT..H	kW	VERSION					
		LNTEH			LNTSH		
		/2	/3	/4	/2	/3	/4
		1 ~ 230V	3 ~ 230V	3 ~ 400V	1 ~ 230V	3 ~ 230V	3 ~ 400V
100-160/15	1,5	A	A	A	A	A	A
100-160/22	2,2	A	A	A	A	A	A
100-160/30	3	B	B	A	B	B	A
100-200/30	3	-	-	-	B	B	A
100-200/40	4	-	-	-	B	B	A
100-200/55	5,5	-	-	-	-	B	B
100-250/55	5,5	-	-	-	-	B	B
100-250/75	7,5	-	-	-	-	C	B
100-250/110	11	-	-	-	-	C	B
100-315/110	11	-	-	-	-	C	B
100-315/150	15	-	-	-	-	-	C
100-315/185	18,5	-	-	-	-	-	C
100-315/220	22	-	-	-	-	-	C
125-160/22	2,2	-	-	-	A	A	A
125-160/30	3	-	-	-	B	B	A
125-160/40	4	-	-	-	B	B	A
125-200/55	5,5	-	-	-	-	B	B
125-200/75	7,5	-	-	-	-	C	B
125-250/75	7,5	-	-	-	-	C	B
125-250/110	11	-	-	-	-	C	B
125-315/150	15	-	-	-	-	-	C
125-315/185	18,5	-	-	-	-	-	C
125-315/220	22	-	-	-	-	-	C
150-200/55	5,5	-	-	-	-	B	B
150-200/75	7,5	-	-	-	-	C	B
150-200/110	11	-	-	-	-	C	B
150-250/110	11	-	-	-	-	C	B
150-250/150	15	-	-	-	-	-	C
150-315/185	18,5	-	-	-	-	-	C
150-315/220	22	-	-	-	-	-	C

LNT-HVL_models-4p50-en_b_sc

e-LNT..H SERIES

ELECTRICAL DATA TABLE AT 50 Hz, 2 POLES

SIZE	kW	INPUT CURRENT (A)					
		LNTEH			LNTSH		
		/2	/3	/4	/2	/3	/4
		1~ 230V	3~ 230V	3~ 400V	1~ 230V	3~ 230V	3~ 400V
LNT..H							
40-125/11	1,1	11,7	7,1	4,1	11,7	7,1	4,1
40-125/15	1,5	15,9	9,6	5,7	15,9	9,6	5,7
40-125/22	2,2	23,4	14,1	8,3	23,4	14,1	8,3
40-125/30	3	31,9	19,2	11,2	31,9	19,2	11,2
40-160/30	3	31,9	19,2	11,2	31,9	19,2	11,2
40-160/40	4	42,5	25,3	14,6	42,5	25,3	14,6
40-160/55	5,5	-	34,5	20,1	-	34,5	20,1
40-200/40	4	42,5	25,3	14,6	42,5	25,3	14,6
40-200/55	5,5	-	34,5	20,1	-	34,5	20,1
40-200/75	7,5	-	46,1	27,3	-	46,1	27,3
40-250/92	9,2	-	56,9	32,4	-	-	-
40-250/110	11	-	69,0	40,3	-	69,0	40,3
40-250/150	15	-	-	52,2	-	-	52,2
50-125/15	1,5	15,9	9,6	5,7	15,9	9,6	5,7
50-125/22	2,2	23,4	14,1	8,1	23,4	14,1	8,3
50-125/30	3	31,9	19,2	11,2	31,9	19,2	11,2
50-125/40	4	42,5	25,3	14,6	42,5	25,3	14,6
50-160/40	4	42,5	25,3	14,6	42,5	25,3	14,6
50-160/55	5,5	-	34,5	20,1	-	34,5	20,1
50-160/75	7,5	-	*47,5	27,3	-	*47,5	27,3
50-200/75	7,5	-	46,1	27,3	-	46,1	46,1
50-200/92	9,2	-	56,9	32,4	-	-	-
50-200/110	11	-	69,0	40,3	-	69,0	40,3
50-250/110	11	-	69,0	40,3	-	69,0	40,3
50-250/150	15	-	-	52,2	-	-	52,2
50-250/185	18,5	-	-	64,3	-	-	64,3
50-250/220	22	-	-	76,1	-	-	76,1
65-125/30	3	31,9	19,2	11,2	31,9	19,2	11,2
65-125/40	4	42,5	25,3	14,6	42,5	25,3	14,6
65-125/55	5,5	-	34,5	20,1	-	34,5	20,1
65-125/75	7,5	-	*47,5	27,3	-	*47,5	27,3
65-160/75	7,5	-	*47,5	27,3	-	*47,5	27,3
65-160/92	9,2	-	*58,3	32,4	-	-	-
65-160/110	11	-	*70,4	40,3	-	*70,4	40,3
65-200/110	11	-	69,0	40,3	-	69,0	40,3
65-200/150	15	-	-	52,2	-	-	52,2
65-200/185	18,5	-	-	64,3	-	-	64,3
65-250/185	18,5	-	-	64,3	-	-	64,3
65-250/220	22	-	-	76,1	-	-	76,1

Nominal current LNT supplied by HVL at 50Hz

LNTH-HVL-2p50-en_a_te

Nominal current of wall mounting kit is included

SIZE	kW	INPUT CURRENT (A)					
		LNTEH			LNTSH		
		/2	/3	/4	/2	/3	/4
		1~ 230V	3~ 230V	3~ 400V	1~ 230V	3~ 230V	3~ 400V
LNT..H							
80-160/75	7,5	-	46,1	27,3	-	46,1	27,3
80-160/92	9,2	-	56,9	32,4	-	-	-
80-160/110	11	-	68,0	38,7	-	67,3	38,7
80-160/150	15	-	-	52,2	-	-	52,2
80-160/185	18,5	-	-	64,3	-	-	64,3
80-200/185	18,5	-	-	-	-	-	64,3
80-200/220	22	-	-	-	-	-	76,4
100-160/110	11	-	68,0	38,7	-	67,3	38,2
100-160/150	15	-	-	52,2	-	-	52,2
100-160/185	18,5	-	-	64,3	-	-	64,3
100-160/220	22	-	-	76,4	-	-	76,4
100-200/220	22	-	-	-	-	-	76,4

e-LNT..H SERIES

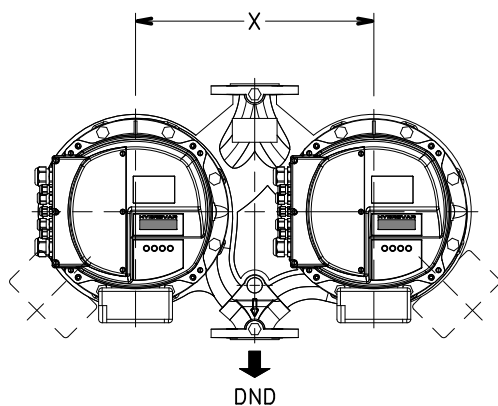
ELECTRICAL DATA TABLE AT 50 Hz, 4 POLES

SIZE	kW	INPUT CURRENT (A)					
		LNTEH			LNTSH		
		/2	/3	/4	/2	/3	/4
		1~ 230V	3~ 230V	3~ 400V	1~ 230V	3~ 230V	3~ 400V
LNT..H							
40-160/05	0,55	6,27	3,98	2,58	6,27	3,98	2,58
40-160/07	0,75	8,55	5,42	3,51	8,55	5,42	3,51
40-200/05	0,55	6,27	3,98	2,58	6,27	3,98	2,58
40-200/07	0,75	8,55	5,42	3,51	8,55	5,42	3,51
40-200/11	1,1	12,5	7,96	5,15	12,5	7,96	5,15
40-250/11	1,1	-	-	-	12,5	7,96	5,15
40-250/15	1,5	17,1	9,92	7,03	17,1	9,92	7,03
40-250/22	2,2	25,1	14,1	10,3	25,1	14,1	10,3
50-125/05	0,55	6,27	3,98	2,58	6,27	3,98	2,58
50-160/05	0,55	6,27	3,98	2,58	6,27	3,98	2,58
50-160/07	0,75	8,55	5,42	3,51	8,55	5,42	3,51
50-160/11	1,1	12,5	7,96	5,15	12,5	7,96	5,15
50-200/11	1,1	12,5	7,96	5,15	12,5	7,96	5,15
50-200/15	1,5	17,1	9,92	7,03	17,1	9,92	7,03
50-250/15	1,5	17,1	9,92	7,03	17,1	9,92	7,03
50-250/22	2,2	25,1	14,1	10,3	25,1	14,1	10,3
50-250/30	3	34,2	19,2	11,2	34,2	19,2	11,2
65-125/05	0,55	6,27	3,98	2,58	6,27	3,98	2,58
65-125/07	0,75	8,55	5,42	3,51	8,55	5,42	3,51
65-125/11	1,1	12,5	7,96	5,15	12,5	7,96	5,15
65-160/11	1,1	12,5	7,96	5,15	12,5	7,96	5,15
65-160/15	1,5	17,1	9,92	7,03	17,1	9,92	7,03
65-200/15	1,5	17,1	9,92	7,03	17,1	9,92	7,03
65-200/22	2,2	25,1	14,1	10,3	25,1	14,1	10,3
65-250/22	2,2	25,1	14,1	10,3	25,1	14,1	10,3
65-250/30	3	34,2	19,2	11,2	34,2	19,2	11,2
65-250/40	4	45,6	25,6	14,8	45,6	25,6	14,8
80-160/11A	1,1	-	-	-	12,5	7,96	5,15
80-160/15B	1,5	17,1	9,92	7,03	-	-	-
80-160/11	1,1	-	-	-	12,5	7,96	5,15
80-160/15	1,5	17,1	9,92	7,03	17,1	9,92	7,03
80-160/22	2,2	25,1	14,1	10,3	25,1	14,1	10,3
80-200/22	2,2	-	-	-	25,1	14,1	10,3
80-200/30	3	-	-	-	34,2	19,2	11,2
80-200/40	4	-	-	-	45,6	25,6	14,8
80-250/55	5,5	-	-	-	-	34,5	20,2
80-250/75	7,5	-	-	-	-	47,1	27,4
80-315/75	7,5	-	-	-	-	47,1	27,4
80-315/110	11	-	-	-	-	69	38,7
80-315/150	15	-	-	-	-	-	52,4

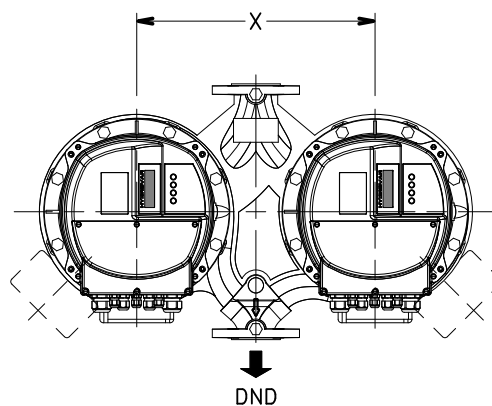
LNTH-HVL-4p50-en_a_te

SIZE	kW	INPUT CURRENT (A)					
		LNTEH			LNTSH		
		/2	/3	/4	/2	/3	/4
		1~ 230V	3~ 230V	3~ 400V	1~ 230V	3~ 230V	3~ 400V
LNT..H							
100-160/15	1,5	17,1	9,92	7,03	17,1	9,92	7,03
100-160/22	2,2	25,1	14,1	10,3	25,1	14,1	10,3
100-160/30	3	34,2	19,2	11,2	34,2	19,2	11,2
100-200/30	3	-	-	-	34,2	19,2	11,2
100-200/40	4	-	-	-	45,6	25,6	14,8
100-200/55	5,5	-	-	-	-	34,5	20,2
100-250/55	5,5	-	-	-	-	34,5	20,2
100-250/75	7,5	-	-	-	-	47,1	27,4
100-250/110	11	-	-	-	-	69	38,7
100-315/110	11	-	-	-	-	69	38,7
100-315/150	15	-	-	-	-	-	52,4
100-315/185	18,5	-	-	-	-	-	64,6
100-315/220	22	-	-	-	-	-	77,6
125-160/22	2,2	-	-	-	25,1	14,1	10,3
125-160/30	3	-	-	-	34,2	19,2	11,2
125-160/40	4	-	-	-	45,6	25,6	14,8
125-200/55	5,5	-	-	-	-	34,5	20,2
125-200/75	7,5	-	-	-	-	47,1	27,4
125-250/75	7,5	-	-	-	-	47,1	27,4
125-250/110	11	-	-	-	-	69	38,7
125-315/150	15	-	-	-	-	-	52,4
125-315/185	18,5	-	-	-	-	-	64,6
125-315/220	22	-	-	-	-	-	77,6
150-200/55	5,5	-	-	-	-	34,5	20,2
150-200/75	7,5	-	-	-	-	47,1	27,4
150-200/110	11	-	-	-	-	69	38,7
150-250/110	11	-	-	-	-	69	38,7
150-250/150	15	-	-	-	-	-	52,4
150-315/185	18,5	-	-	-	-	-	64,6
150-315/220	22	-	-	-	-	-	77,6

e-LNT..H SERIES HYDROVAR HVL DISPLAY POSITION



POSITION 1-9



POSITION 7-15

HVL SIZE A	
X (mm)	HVL STD position
310	1-9
360	1-9
395	1-9
410	1-9
420	1-9

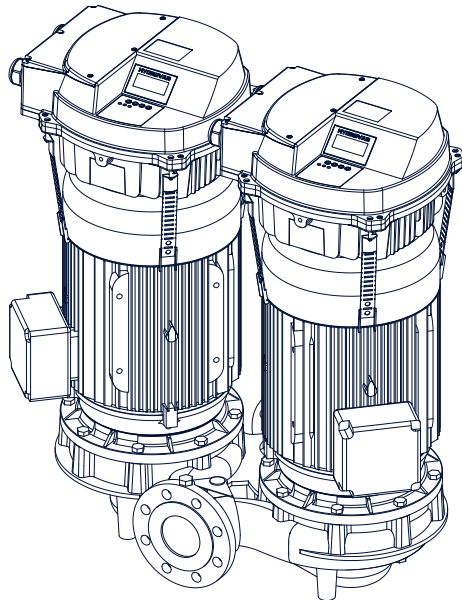
HVL SIZE B	
X (mm)	HVL STD position
310	7-15
360	7-15
395	1-9
410	1-9
435	1-9
470	1-9
480	1-9
500	1-9

HVL SIZE C	
X (mm)	HVL STD position
310	NF**
360	NF**
395	7-15
410	7-15
420	7-15
435	7-15
470	7-15
480	1-9
	7-15 (only 22 kW)
500	1-9
	7-15 (only 22 kW)

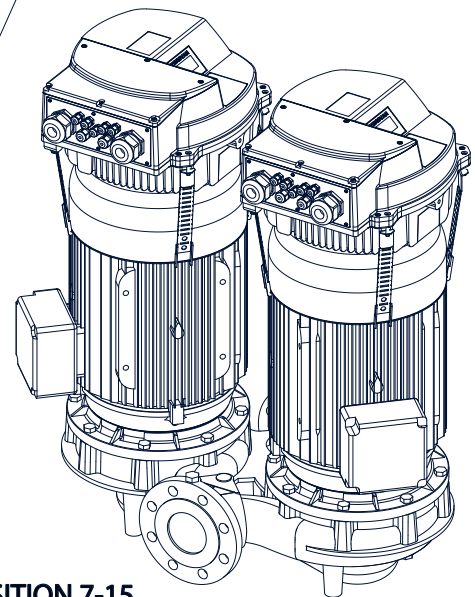
NF** = Not FEASIBLE, only wall mounting kit version.

HVL_LNT-pos-en_a_td

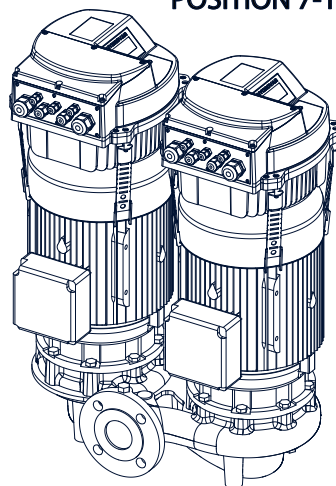
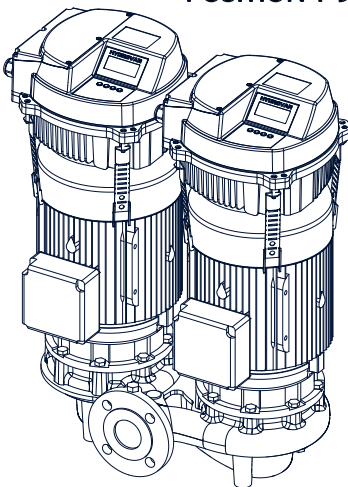
e-LNT..H SERIES
HYDROVAR HVL DISPLAY POSITION



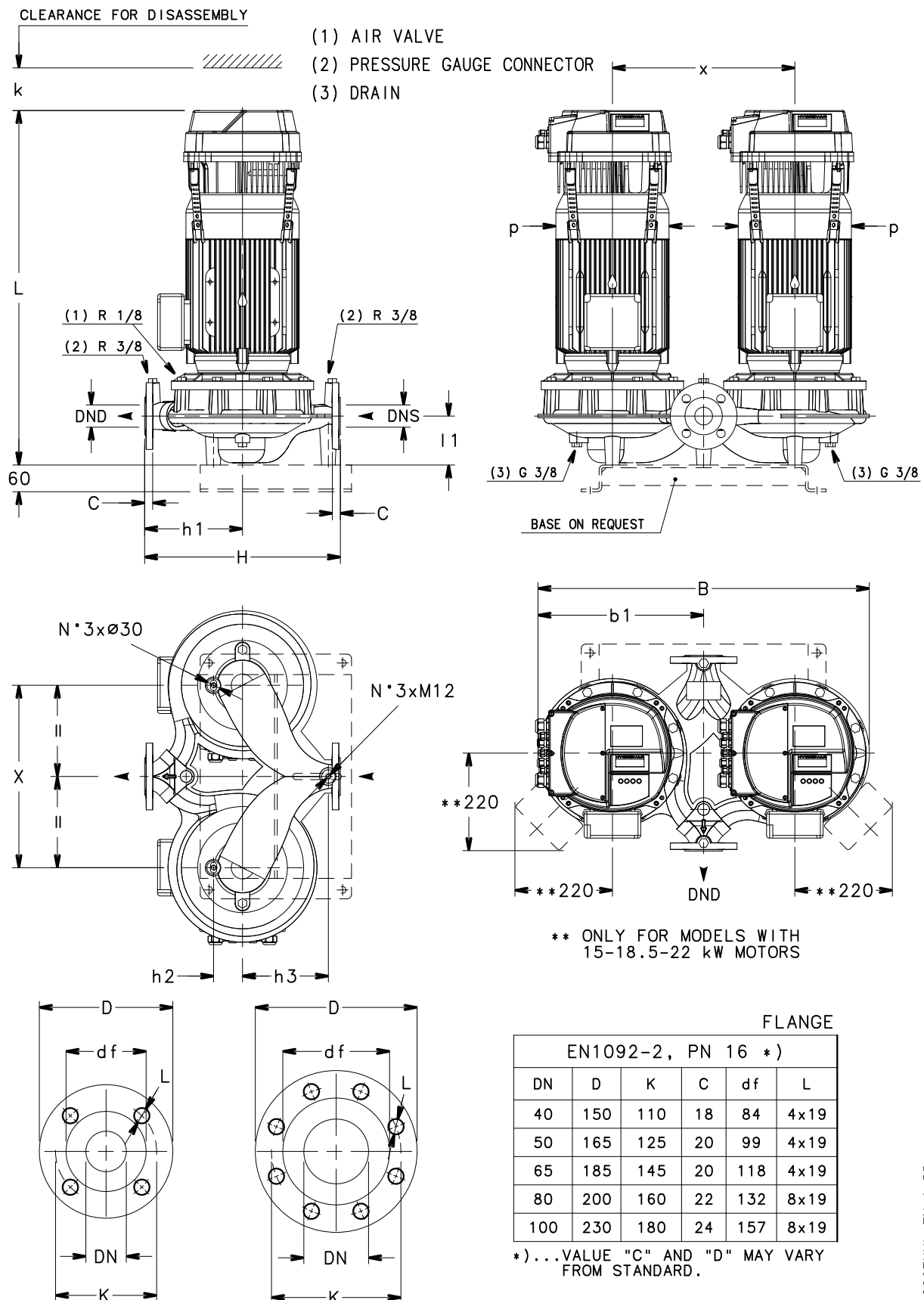
POSITION 1-9



POSITION 7-15



LNTEH 40, 50, 65, 80, 100 SERIES
DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES



A0027HVL-EN_A_DD

LNTEH 40, 50, 65, 80, 100 SERIES

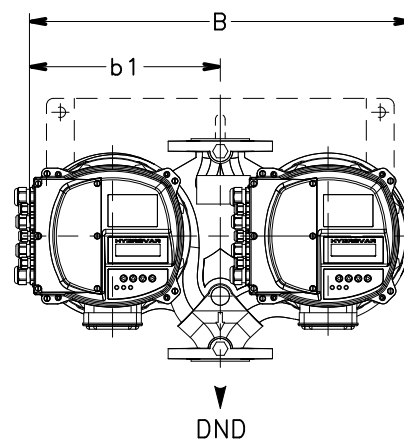
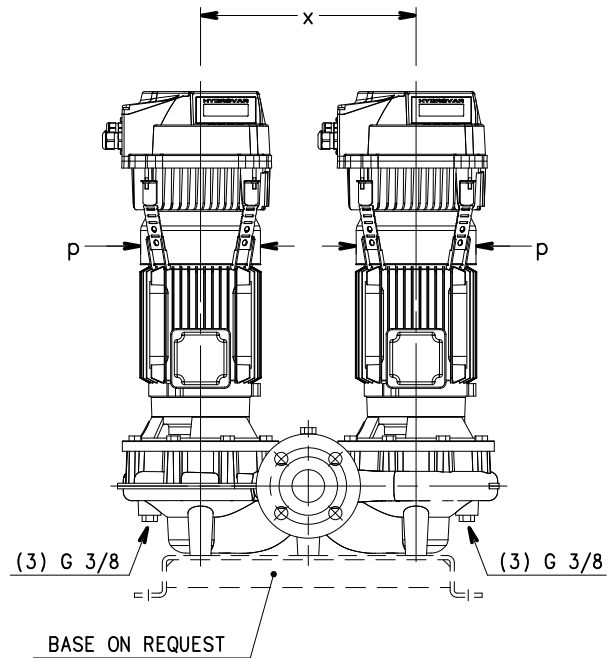
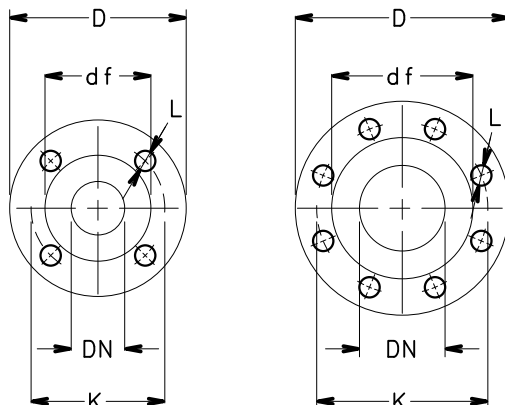
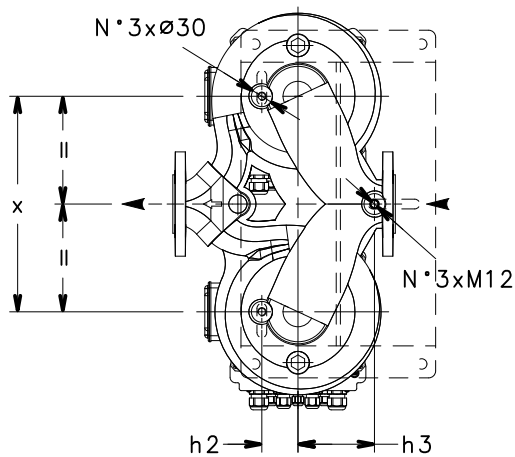
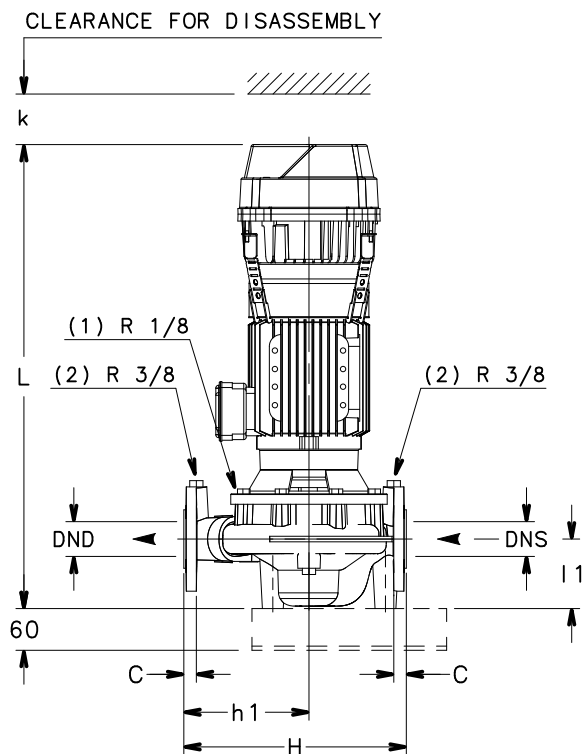
DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES

PUMP TYPE LNTEH..2	DIMENSIONS (mm)										B	H	L			k	WEIGHT (kg)		
	DND	DNS	b1	h1	h2	h3	l1	p	x	/2			/3	/4	/2		/3	/4	
										1 ~ 230V			3 ~ 230V	3 ~ 400V	1 ~ 230V		3 ~ 230V	3 ~ 400V	
40-125/11/S	40	40	274,5	180	52	110	100	155	310	549	320	633	633	633	300	62,6	62,6	62,6	
40-125/15/S	40	40	274,5	180	52	110	100	155	310	549	320	633	633	633	300	70,6	70,6	70,6	
40-125/22/P	40	40	274,5	180	52	110	100	174	310	549	320	668	668	668	300	84,6	84,6	84,6	
40-125/30/P	40	40	274,5	180	52	110	100	174	310	549	320	683	683	668	300	91,5	91,5	86,6	
40-160/30/P	40	40	274,5	180	52	110	100	174	310	549	320	683	683	668	300	91,5	91,5	86,6	
40-160040/P	40	40	274,5	180	52	110	100	197	310	549	320	704	704	689	300	101,5	101,5	96,6	
40-160/55/P	40	40	274,5	180	52	110	100	214	310	549	320	-	738	738	300	-	119,5	119,5	
40-200/40/P	40	40	372,5	220	65	193	110	197	410	745	440	712	712	697	300	133,5	133,5	128,6	
40-200/55/P	40	40	372,5	220	65	193	110	214	410	745	440	-	746	746	300	-	151,5	151,5	
40-200/75/P	40	40	372,5	220	65	193	110	256	410	745	440	-	775	760	300	-	194,6	189,5	
40-250/92/P	40	40	372,5	220	65	193	110	256	410	745	440	-	813	798	300	-	206,6	201,5	
40-250/110/P	40	40	372,5	220	65	193	110	256	410	745	440	-	813	798	300	-	212,6	207,5	
40-250/150/P	40	40	372,5	220	65	193	110	313	410	745	440	-	-	902	300	-	-	292,6	
50-125/15/S	50	50	275	190	57	120	116	155	310	555	340	649	649	649	300	79,6	79,6	79,6	
50-125/22/P	50	50	275	190	57	120	116	174	310	555	340	684	684	684	300	93,6	93,6	93,6	
50-125/30/P	50	50	275	190	57	120	116	174	310	555	340	699	699	684	300	100,5	100,5	95,6	
50-125/40/P	50	50	275	190	57	120	116	197	310	555	340	720	720	705	300	110,5	110,5	105,6	
50-160/40/P	50	50	275	190	57	120	116	197	310	555	340	720	720	705	300	110,5	110,5	105,6	
50-160/55/P	50	50	275	190	57	120	116	214	310	555	340	-	754	754	300	-	128,5	128,5	
50-160/75/P	50	50	275	190	57	120	116	256	310	555	340	-	-	768	300	-	-	166,5	
50-200/75/P	50	50	372,5	230	60	185	115	256	410	745	440	-	782	767	300	-	206,6	201,5	
50-200/92/P	50	50	372,5	230	60	185	115	256	410	745	440	-	820	805	300	-	218,6	213,5	
50-200/110/P	50	50	372,5	230	60	185	115	256	410	745	440	-	820	805	300	-	224,6	219,5	
50-250/110/P	50	50	372,5	230	60	185	115	256	410	745	440	-	820	805	300	-	224,6	219,5	
50-250/150/P	50	50	372,5	230	60	185	115	313	410	745	440	-	-	909	300	-	-	304,6	
50-250/185/P	50	50	372,5	230	60	185	115	313	410	745	440	-	-	909	300	-	-	326,6	
50-250/220/P	50	50	372,5	230	60	185	115	313	410	745	440	-	-	909	300	-	-	344,6	
65-125/30/P	65	65	323	190	75	140	122	174	360	646	360	711	711	696	300	112,5	112,5	107,6	
65-125/40/P	65	65	323	190	75	140	122	197	360	646	360	732	732	717	300	122,5	122,5	117,6	
65-125/55/P	65	65	323	190	75	140	122	214	360	646	360	-	766	766	300	-	140,5	140,5	
65-125/75/P	65	65	323	190	75	140	122	256	360	646	360	-	-	780	300	-	-	178,5	
65-160/75/P	65	65	323	190	75	140	122	256	360	646	360	-	-	780	300	-	-	178,5	
65-160/92/P	65	65	323	190	75	140	122	256	360	646	360	-	-	818	300	-	-	190,5	
65-160/110/P	65	65	323	190	75	140	122	256	360	646	360	-	-	818	300	-	-	196,5	
65-200/110/P	65	65	377,5	250	76	196	118	256	420	762	475	-	823	808	300	-	232,6	227,5	
65-200/150/P	65	65	377,5	250	76	196	118	313	420	762	475	-	-	912	300	-	-	312,6	
65-200/185/P	65	65	377,5	250	76	196	118	313	420	762	475	-	-	912	300	-	-	334,6	
65-250/185/P	65	65	377,5	250	76	196	118	313	420	762	475	-	-	912	300	-	-	334,6	
65-250/220/P	65	65	377,5	250	76	196	118	313	420	762	475	-	-	912	300	-	-	352,6	
80-160/75/P	80	80	374	235	80	110	133	256	410	748	420	-	800	785	300	-	222,6	217,5	
80-160/92/P	80	80	374	235	80	110	133	256	410	748	420	-	838	823	300	-	234,6	229,5	
80-160/110/P	80	80	374	235	80	110	133	256	410	748	420	-	838	823	300	-	240,6	235,5	
80-160/150/P	80	80	374	235	80	110	133	313	410	748	420	-	-	927	300	-	-	320,6	
80-160/185/P	80	80	374	235	80	110	133	313	410	748	420	-	-	927	300	-	-	342,6	
100-160/110/P	100	100	374	280	87	125	158	256	410	748	500	-	868	853	300	-	252,6	247,5	
100-160/150/P	100	100	374	280	87	125	158	313	410	748	500	-	-	957	300	-	-	332,6	
100-160/185/P	100	100	374	280	87	125	158	313	410	748	500	-	-	957	300	-	-	354,6	
100-160/220/P	100	100	374	280	87	125	158	313	410	748	500	-	-	957	300	-	-	372,6	

NOTE: Pumps supplied with flanges according to EN 1092-2 as standard. For flanges dimensions see drawing.

LNTEH-HVL-40-100_2p50-en_a_td

LNTEH 40, 50, 65, 80, 100 SERIES
DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES



- (1) AIR VALVE
(2) PRESSURE GAUGE CONNECTOR
(3) DRAIN

FLANGE

EN1092-2, PN 16 *)					
DN	D	K	C	df	L
40	150	110	18	84	4x19
50	165	125	20	99	4x19
65	185	145	20	118	4x19
80	200	160	22	132	8x19
100	230	180	24	157	8x19

*)...VALUE "C" AND "D" MAY VARY FROM STANDARD.

LNTEH 40, 50, 65, 80, 100 SERIES

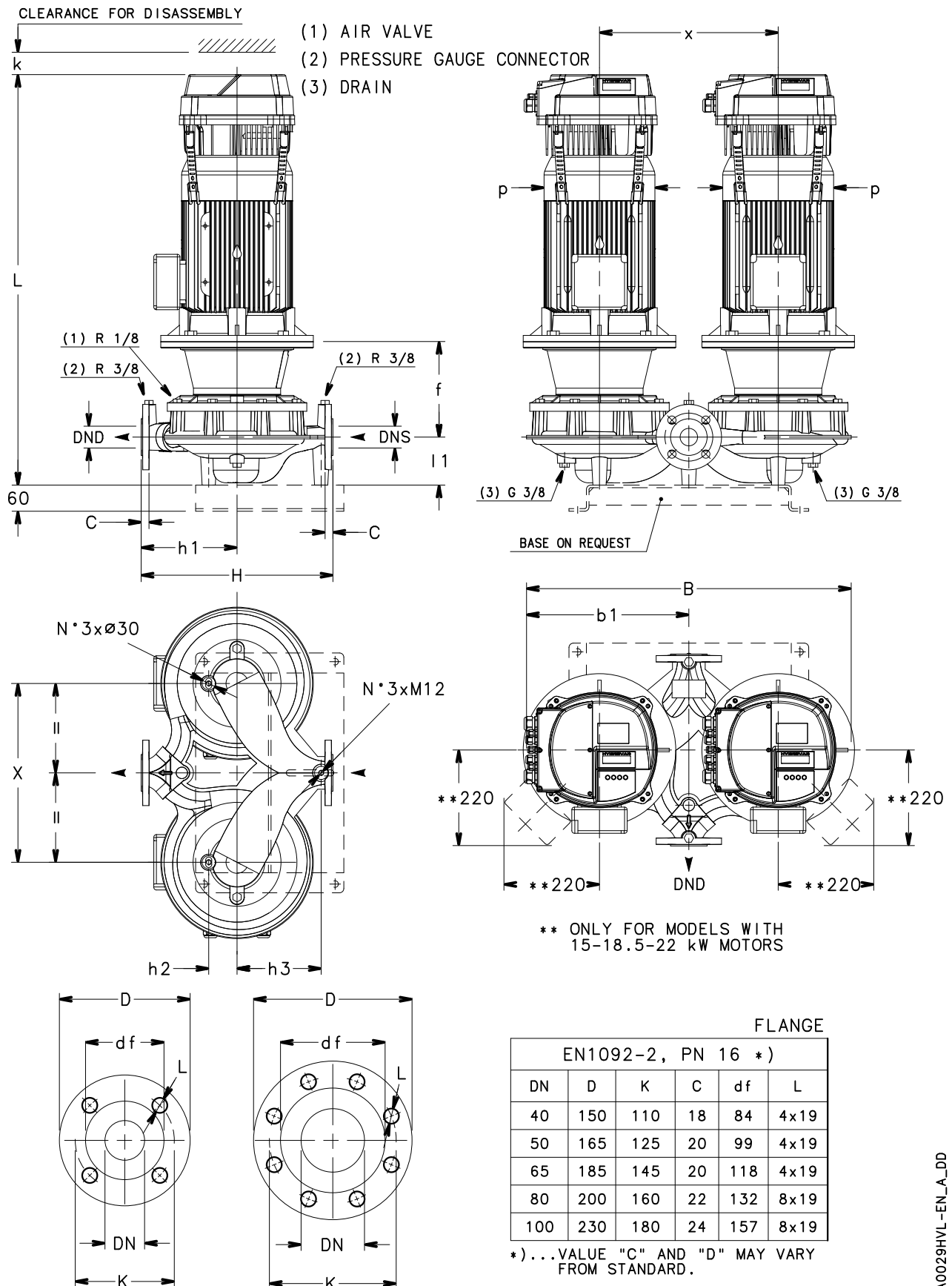
DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES

PUMP TYPE LNTEH..4	DIMENSIONS (mm)									B	H	L			k	WEIGHT (kg)		
	DND	DNS	b1	h1	h2	h3	l1	p	x			/2	/3	/4		/2	/3	/4
												1 ~ 230V	3 ~ 230V	3 ~ 400V		1 ~ 230V	3 ~ 230V	3 ~ 400V
40-160/05/S	40	40	274,5	180	52	110	100	155	310	549	320	633	633	633	300	62,6	62,6	62,6
40-160/07/X	40	40	274,5	180	52	110	100	159	310	549	320	601	601	601	300	62,6	62,6	62,6
40-200/05/S	40	40	372,5	220	65	193	110	155	410	745	440	641	641	641	300	94,6	94,6	94,6
40-200/07/X	40	40	372,5	220	65	193	110	159	410	745	440	609	609	609	300	100,6	100,6	100,6
40-200/11/P	40	40	372,5	220	65	193	110	174	410	745	440	676	676	676	300	112,6	112,6	112,6
40-250/15/P	40	40	372,5	220	65	193	110	174	410	745	440	676	676	676	300	120,6	120,6	120,6
40-250/22/P	40	40	372,5	220	65	193	110	214	410	745	440	700	700	700	300	140,6	140,6	140,6
50-125/05/S	50	50	275	190	57	120	116	155	310	555	340	649	649	649	300	71,6	71,6	71,6
50-160/05/S	50	50	275	190	57	120	116	155	310	555	340	649	649	649	300	71,6	71,6	71,6
50-160/07/X	50	50	275	190	57	120	116	159	310	555	340	617	617	617	300	77,6	77,6	77,6
50-160/11/P	50	50	275	190	57	120	116	174	310	555	340	684	684	684	300	93,6	93,6	93,6
50-200/11/P	50	50	372,5	230	60	185	115	174	410	745	440	683	683	683	300	124,6	124,6	124,6
50-200/15/P	50	50	372,5	230	60	185	115	174	410	745	440	683	683	683	300	132,6	132,6	132,6
50-250/15/P	50	50	372,5	230	60	185	115	174	410	745	440	683	683	683	300	132,6	132,6	132,6
50-250/22/P	50	50	372,5	230	60	185	115	214	410	745	440	707	707	707	300	152,6	152,6	152,6
50-250/30/P	50	50	372,5	230	60	185	115	214	410	745	440	753	753	738	300	165,5	165,5	160,6
65-125/05/S	65	65	323	190	75	140	122	155	360	646	360	661	661	661	300	83,6	83,6	83,6
65-125/07/X	65	65	323	190	75	140	122	159	360	646	360	629	629	629	300	89,6	89,6	89,6
65-125/11/P	65	65	323	190	75	140	122	174	360	646	360	696	696	696	300	101,6	101,6	101,6
65-160/11/P	65	65	323	190	75	140	122	174	360	646	360	696	696	696	300	101,6	101,6	101,6
65-160/15/P	65	65	323	190	75	140	122	174	360	646	360	696	696	696	300	109,6	109,6	109,6
65-200/15/P	65	65	377,5	250	76	196	118	174	420	762	475	686	686	686	300	140,6	140,6	140,6
65-200/22/P	65	65	377,5	250	76	196	118	214	420	762	475	710	710	710	300	160,6	160,6	160,6
65-250/22/P	65	65	377,5	250	76	196	118	214	420	762	475	710	710	710	300	160,6	160,6	160,6
65-250/30/P	65	65	377,5	250	76	196	118	214	420	762	475	756	756	741	300	173,5	173,5	168,6
65-250/40/P	65	65	377,5	250	76	196	118	214	420	762	475	785	785	770	300	211,5	211,5	206,6
80-160/15B/P	80	80	374	235	80	110	133	174	410	748	420	701	701	701	300	148,6	148,6	148,6
80-160/15/P	80	80	374	235	80	110	133	174	410	748	420	701	701	701	300	148,6	148,6	148,6
80-160/22/P	80	80	374	235	80	110	133	214	410	748	420	725	725	725	300	168,6	168,6	168,6
100-160/15/P	100	100	374	280	87	125	158	174	410	748	500	731	731	731	300	160,6	160,6	160,6
100-160/22/P	100	100	374	280	87	125	158	214	410	748	500	755	755	755	300	180,6	180,6	180,6
100-160/30/P	100	100	374	280	87	125	158	214	410	748	500	801	801	786	300	193,5	193,5	188,6

NOTE: Pumps supplied with flanges according to EN 1092-2 as standard. For flanges dimensions see drawing.

LNTEH-HVL-40-100_4p50-en_b_td

LNTSH 40, 50, 65 SERIES
DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES



A0029HVL-EN_A_DD

LNTSH 40, 50, 65 SERIES

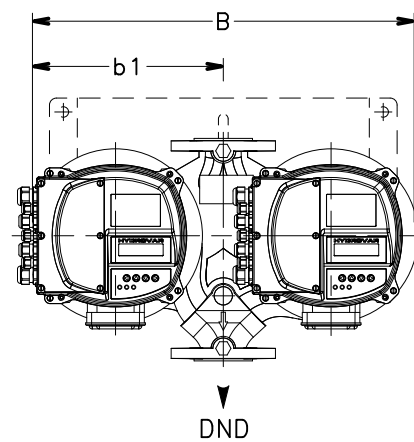
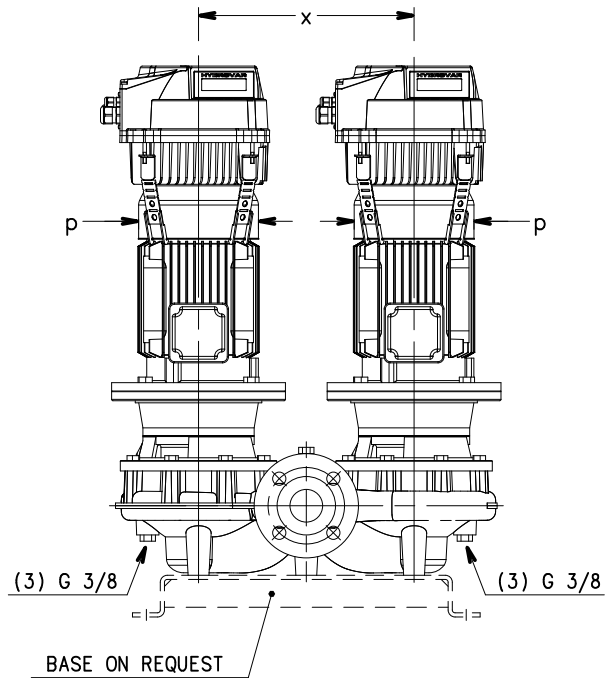
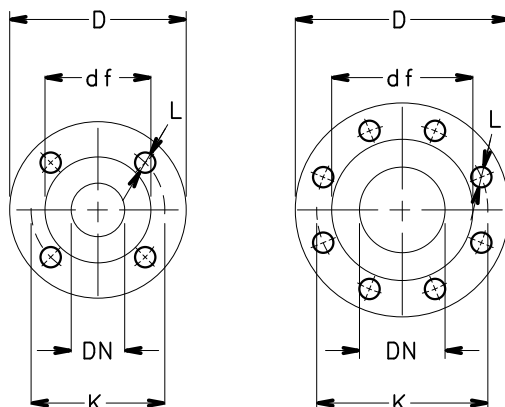
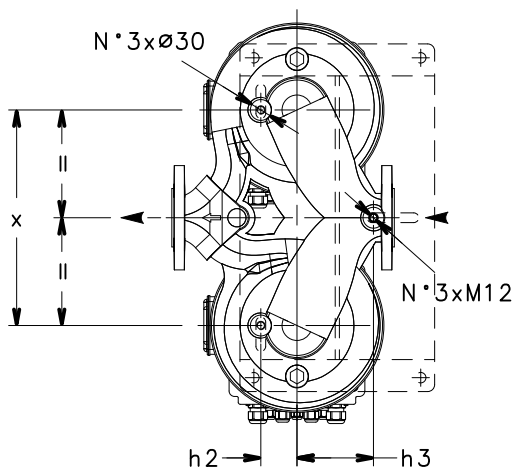
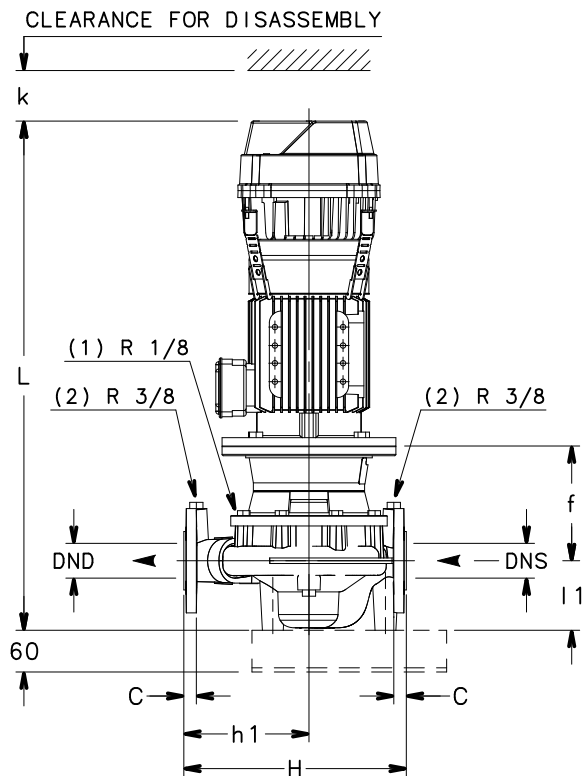
DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES

PUMP TYPE LNTSH..2	DIMENSIONS (mm)										B	H	L			k	WEIGHT (kg)		
	DND	DNS	b1	f	h1	h2	h3	l1	p	x			/2	/3	/4		/2	/3	/4
													1 ~ 230V	3 ~ 230V	3 ~ 400V		≥	1 ~ 230V	3 ~ 230V
40-125/11/S	40	40	275	155	180	52	110	100	155	310	549	320	688	688	688	300	68,6	68,6	68,6
40-125/15/S	40	40	275	155	180	52	110	100	155	310	549	320	688	688	688	300	76,6	76,6	76,6
40-125/22/P	40	40	275	155	180	52	110	100	174	310	549	320	723	723	723	300	90,6	90,6	90,6
40-125/30/P	40	40	275	165	180	52	110	100	174	310	549	320	748	748	733	300	105,5	105,5	100,6
40-160/30/P	40	40	275	165	180	52	110	100	174	310	549	320	748	748	733	300	105,5	105,5	100,6
40-160/40/P	40	40	275	165	180	52	110	100	197	310	549	320	769	769	754	300	111,5	111,5	106,6
40-160/55/P	40	40	275	192	180	52	110	100	214	310	549	320	-	852	852	300	-	137,5	137,5
40-200/40/P	40	40	373	163	220	65	193	110	197	410	745	440	777	777	762	300	143,5	143,5	138,6
40-200/55/P	40	40	373	190	220	65	193	110	214	410	745	440	-	860	860	300	-	169,5	169,5
40-200/75/P	40	40	373	190	220	65	193	110	256	410	745	440	-	867	852	300	-	212,6	207,5
40-250/110/P	40	40	373	220	220	65	193	110	256	410	745	440	-	958	943	300	-	246,6	241,5
40-250/150/P	40	40	373	220	220	65	193	110	313	410	745	440	-	-	1024	300	-	-	312,6
50-125/15/S	50	50	275	155	190	57	120	116	155	310	555	340	704	704	704	300	85,6	85,6	85,6
50-125/22/P	50	50	275	155	190	57	120	116	174	310	555	340	739	739	739	300	99,6	99,6	99,6
50-125/30/P	50	50	275	165	190	57	120	116	174	310	555	340	764	764	749	300	114,5	114,5	109,6
50-125/40/P	50	50	275	165	190	57	120	116	197	310	555	340	785	785	770	300	120,5	120,5	115,6
50-160/40/P	50	50	275	165	190	57	120	116	197	310	555	340	785	785	770	300	120,5	120,5	115,6
50-160/55/P	50	50	275	192	190	57	120	116	214	310	555	340	-	868	868	300	-	145,5	145,5
50-160/75/P	50	50	275	192	190	57	120	116	256	310	555	340	-	-	860	300	-	-	184,5
50-200/75/P	50	50	373	192	230	60	185	115	256	410	745	440	-	874	859	300	-	224,6	219,5
50-200/110/P	50	50	373	222	230	60	185	115	256	410	745	440	-	965	950	300	-	258,6	253,5
50-250/110/P	50	50	373	222	230	60	185	115	256	410	745	440	-	965	950	300	-	258,6	253,5
50-250/150/P	50	50	373	222	230	60	185	115	313	410	745	440	-	-	1031	300	-	-	324,6
50-250/185/P	50	50	373	222	230	60	185	115	313	410	745	440	-	-	1031	300	-	-	342,6
50-250/220/P	50	50	373	222	230	60	185	115	313	410	745	440	-	-	1031	300	-	-	364,6
65-125/30/P	65	65	323	171	190	75	140	122	174	360	646	360	776	776	761	300	126,5	126,5	121,6
65-125/40/P	65	65	323	171	190	75	140	122	197	360	646	360	797	797	782	300	132,5	132,5	127,6
65-125/55/P	65	65	323	198	190	75	140	122	214	360	646	360	-	880	880	300	-	159,5	159,5
65-125/75/P	65	65	323	198	190	75	140	122	256	360	646	360	-	-	872	300	-	-	197,5
65-160/75/P	65	65	323	198	190	75	140	122	256	360	646	360	-	-	872	300	-	-	197,5
65-160/110/P	65	65	323	228	190	75	140	122	256	360	646	360	-	-	963	300	-	-	240,5
65-200/110/P	65	65	378	222	250	76	196	118	256	420	762	475	-	968	953	300	-	266,6	266,6
65-200/150/P	65	65	378	222	250	76	196	118	313	420	762	475	-	-	1034	300	-	-	332,6
65-200/185/P	65	65	378	222	250	76	196	118	313	420	762	475	-	-	1034	300	-	-	350,6
65-250/185/P	65	65	378	222	250	76	196	118	313	420	762	475	-	-	1034	300	-	-	350,6
65-250/220/P	65	65	378	222	250	76	196	118	313	420	762	475	-	-	1034	300	-	-	372,6

NOTE: Pumps supplied with flanges according to EN 1092-2 as standard. For flanges dimensions see drawing.

LNTSH-HVL-40-50-65_2p50-en_a_td

LNTSH 40, 50, 65 SERIES
DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES



- (1) AIR VALVE
- (2) PRESSURE GAUGE CONNECTOR
- (3) DRAIN

FLANGE

EN1092-2, PN 16 *)					
DN	D	K	C	df	L
40	150	110	18	84	4x19
50	165	125	20	99	4x19
65	185	145	20	118	4x19
80	200	160	22	132	8x19
100	230	180	24	157	8x19

*)...VALUE "C" AND "D" MAY VARY FROM STANDARD.

LNTSH 40, 50, 65 SERIES

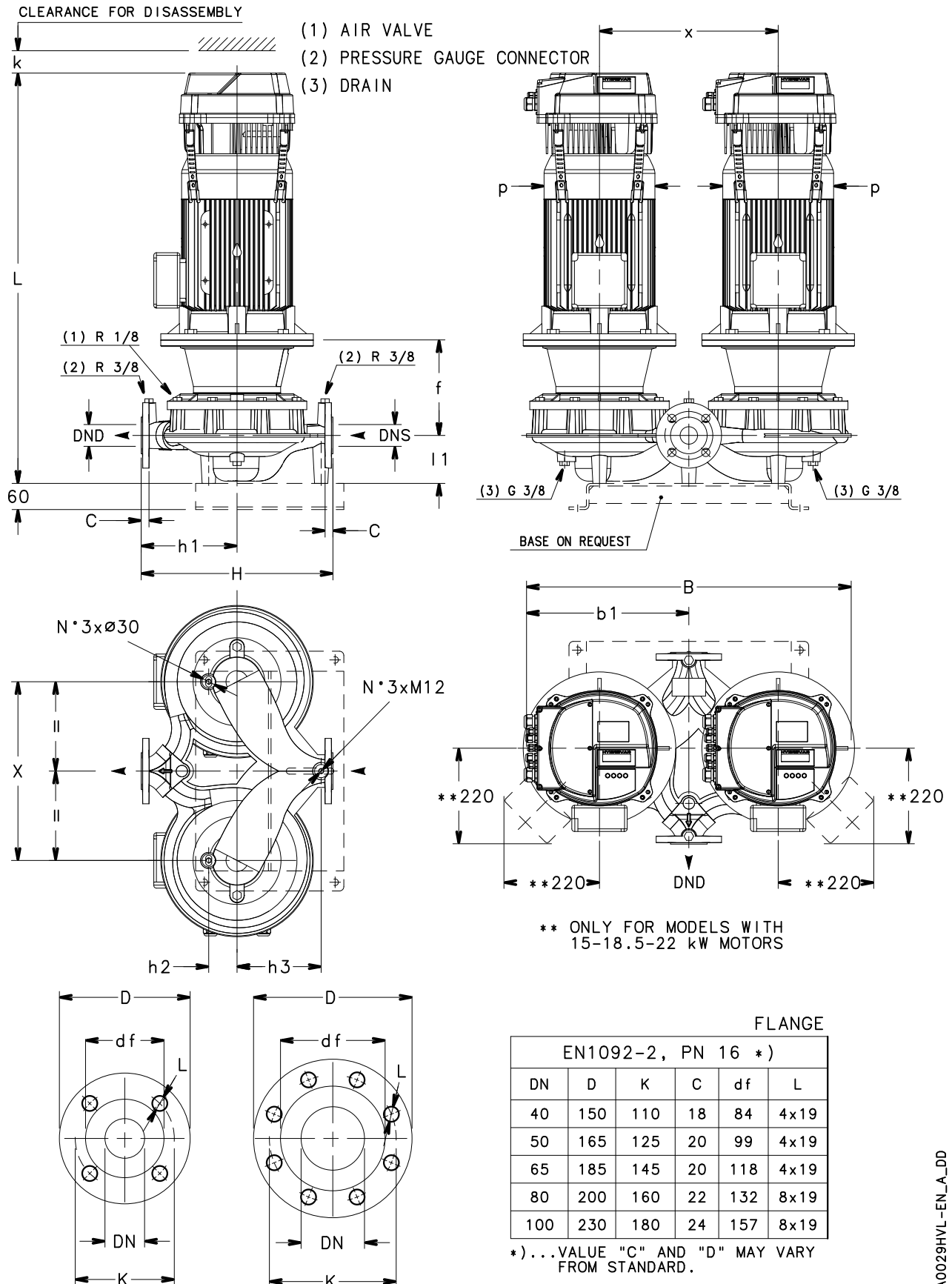
DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES

PUMP TYPE LNTSH..4	DIMENSIONS (mm)										B	H	L			k	WEIGHT (kg)		
	DND	DNS	b1	f	h1	h2	h3	l1	p	x			/2	/3	/4		/2	/3	/4
													1 ~ 230V	3 ~ 230V	3 ~ 400V		1 ~ 230V	3 ~ 230V	3 ~ 400V
40-160/05/S	40	40	275	155	180	52	110	100	155	310	549	320	688	688	688	300	68,6	68,6	68,6
40-160/07/X	40	40	275	155	180	52	110	100	159	310	549	320	656	656	656	300	74,6	74,6	74,6
40-200/05/S	40	40	373	152	220	65	193	110	155	410	745	440	696	696	696	300	100,6	100,6	100,6
40-200/07/X	40	40	373	152	220	65	193	110	159	410	745	440	664	664	664	300	106,6	106,6	106,6
40-200/11/P	40	40	373	152	220	65	193	110	174	410	745	440	731	731	731	300	118,6	118,6	118,6
40-250/11/P	40	40	373	152	220	65	193	110	174	410	745	440	731	731	731	300	118,6	118,6	118,6
40-250/15/P	40	40	373	152	220	65	193	110	174	410	745	440	731	731	731	300	126,6	126,6	126,6
40-250/22/P	40	40	373	162	220	65	193	110	214	410	745	440	765	765	765	300	148,6	148,6	148,6
50-125/05/S	50	50	275	155	190	57	120	116	155	310	555	340	704	704	704	300	77,6	77,6	77,6
50-160/05/S	50	50	275	155	190	57	120	116	155	310	555	340	704	704	704	300	77,6	77,6	77,6
50-160/07/X	50	50	275	155	190	57	120	116	159	310	555	340	672	672	672	300	83,6	83,6	83,6
50-160/11/P	50	50	275	155	190	57	120	116	174	310	555	340	739	739	739	300	95,6	95,6	95,6
50-200/11/P	50	50	373	155	230	60	185	115	174	410	745	440	738	738	738	300	130,6	130,6	130,6
50-200/15/P	50	50	373	155	230	60	185	115	174	410	745	440	738	738	738	300	138,6	138,6	138,6
50-250/15/P	50	50	373	155	230	60	185	115	174	410	745	440	738	738	738	300	138,6	138,6	138,6
50-250/22/P	50	50	373	165	230	60	185	115	214	410	745	440	772	772	772	300	159,6	159,6	159,6
50-250/30/P	50	50	373	165	230	60	185	115	214	410	745	440	818	818	803	300	173,5	173,5	168,6
65-125/05/S	65	65	323	161	190	75	140	122	155	360	646	360	716	716	716	300	90,6	90,6	90,6
65-125/07/X	65	65	323	161	190	75	140	122	159	360	646	360	684	684	684	300	96,6	96,6	96,6
65-125/11/P	65	65	323	161	190	75	140	122	174	360	646	360	751	751	751	300	108,6	108,6	108,6
65-160/11/P	65	65	323	161	190	75	140	122	174	360	646	360	751	751	751	300	108,6	108,6	108,6
65-160/15/P	65	65	323	161	190	75	140	122	174	360	646	360	751	751	751	300	116,6	116,6	116,6
65-200/15/P	65	65	378	155	250	76	196	118	174	420	762	475	741	741	741	300	146,6	146,6	146,6
65-200/22/P	65	65	378	165	250	76	196	118	214	420	762	475	775	775	775	300	168,6	168,6	168,6
65-250/22/P	65	65	378	165	250	76	196	118	214	420	762	475	775	775	775	300	168,6	168,6	168,6
65-250/30/P	65	65	378	165	250	76	196	118	214	420	762	475	821	821	806	300	181,5	181,5	176,6
65-250/40/P	65	65	378	165	250	76	196	118	214	420	762	475	850	850	835	300	219,5	219,5	214,6

NOTE: Pumps supplied with flanges according to EN 1092-2 as standard. For flanges dimensions see drawing.

LNTSH-HVL-40-50-65_4p50-en_b_td

LNTSH 80, 100 SERIES
DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES



A0029HVL-EN_A_DD

LNTSH 80, 100 SERIES

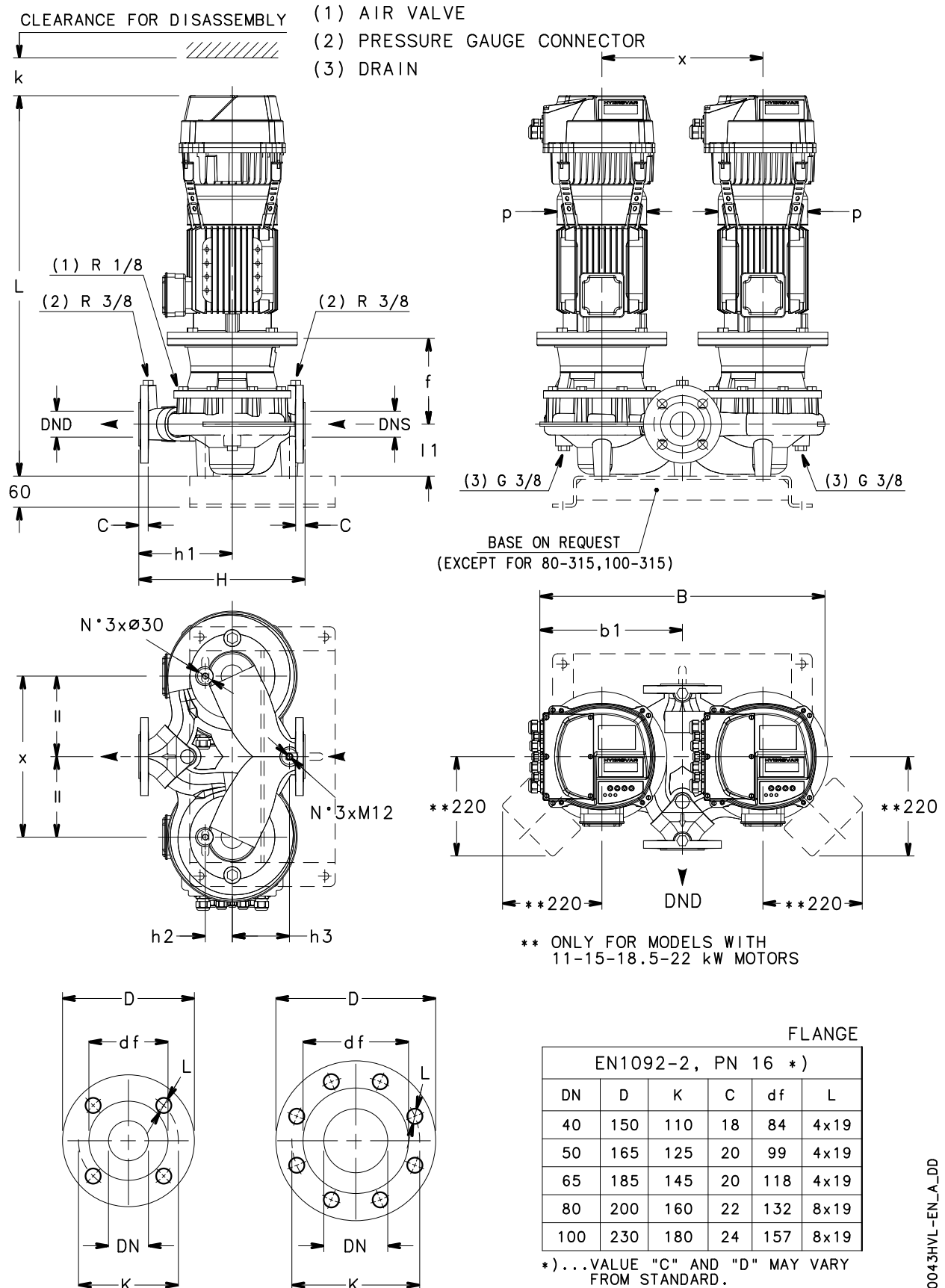
DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES

PUMP TYPE LNTSH..2	DIMENSIONS (mm)										B	H	L			k	WEIGHT (kg)		
	DND	DNS	b1	f	h1	h2	h3	l1	p	x			/2	/3	/4		/2	/3	/4
													1 ~ 230V	3 ~ 230V	3 ~ 400V				
80-160/75/P	80	80	374	192	235	80	110	133	256	410	748	420	-	892	877	300	-	231,6	226,5
80-160/110/P	80	80	374	222	235	80	110	133	256	410	748	420	-	983	968	300	-	274,6	269,5
80-160/150/P	80	80	374	222	235	80	110	133	313	410	748	420	-	-	1049	300	-	-	340,6
80-160/185/P	80	80	374	222	235	80	110	133	313	410	748	420	-	-	1049	300	-	-	358,6
80-200/185/P	80	80	378	240	275	85	140	132	313	420	766	500	-	-	1066	300	-	-	358,6
80-200/220/P	80	80	378	240	275	85	140	132	313	420	766	500	-	-	1066	300	-	-	380,6
100-160/110/P	100	100	374	227	280	87	125	158	256	410	748	500	-	1013	998	300	-	286,6	281,5
100-160/150/P	100	100	374	227	280	87	125	158	313	410	748	500	-	-	1079	300	-	-	352,6
100-160/185/P	100	100	374	227	280	87	125	158	313	410	748	500	-	-	1079	300	-	-	370,6
100-160/220/P	100	100	374	227	280	87	125	158	313	410	748	500	-	-	1079	300	-	-	392,6
100-200/220/P	100	100	381	240	300	90	160	179	313	420	783	550	-	-	1113	300	-	-	394,6

NOTE: Pumps supplied with flanges according to EN 1092-2 as standard. For flanges dimensions see drawing.

LNTSH-HVL-80-100_2p50-en_a_td

LNTSH 80, 100 SERIES **DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES**



A0043HVL-EN_A_DD

LNTSH 80, 100 SERIES

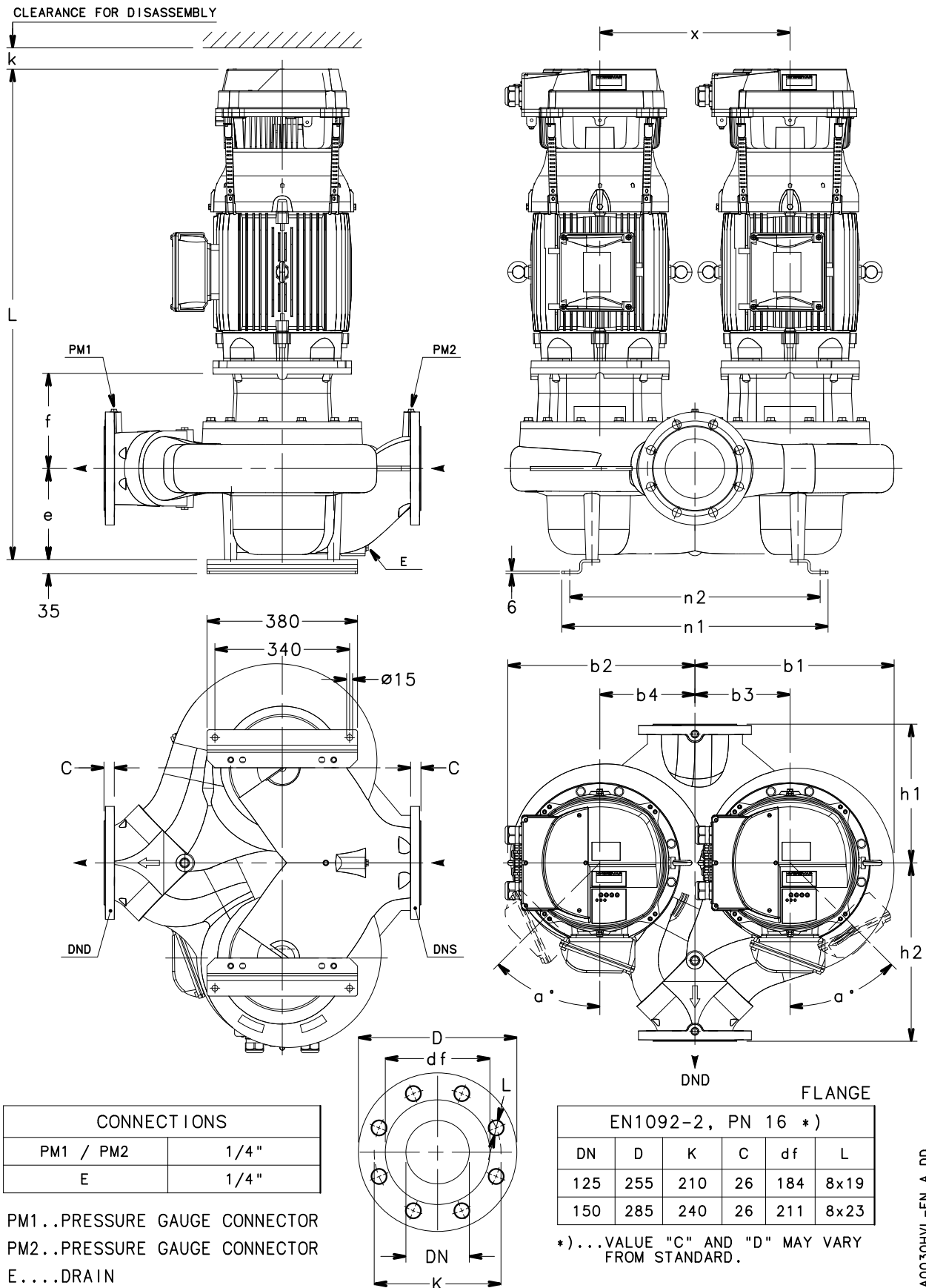
DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES

PUMP TYPE LNTSH..4	DIMENSIONS (mm)										B	H	L			k	WEIGHT (kg)		
	DND	DNS	b1	f	h1	h2	h3	l1	p	x			/2	/3	/4		/2	/3	/4
													1 ~ 230V	3 ~ 230V	3 ~ 400V		1 ~ 230V	3 ~ 230V	3 ~ 400V
80-160/11A/P	80	80	374	155	235	80	110	133	174	410	748	420	756	756	756	300	146,6	146,6	146,6
80-160/11/P	80	80	374	155	235	80	110	133	174	410	748	420	756	756	756	300	146,6	146,6	146,6
80-160/15/P	80	80	374	155	235	80	110	133	174	410	748	420	756	756	756	300	154,6	154,6	154,6
80-160/22/P	80	80	374	165	235	80	110	133	24	410	748	420	790	790	790	300	176,6	176,6	176,6
80-200/22/P	80	80	378	183	275	85	140	132	214	420	766	500	807	807	807	300	196,6	196,6	196,6
80-200/30/P	80	80	378	183	275	85	140	132	214	420	766	500	853	853	838	300	209,5	209,5	204,6
80-200/40/P	80	80	378	183	275	85	140	132	214	420	766	500	882	882	867	300	247,5	247,5	242,6
80-250/55/P	80	80	378	210	275	85	140	132	256	420	766	500	-	932	932	300	-	249,5	249,5
80-250/75/P	80	80	378	210	275	85	140	132	256	420	766	500	-	947	932	300	-	262,6	257,5
80-315/75/P	80	80	433	210	330	90	140	145	256	420	851	620	-	960	945	300	-	338,6	333,5
80-315/110/P	80	80	433	240	330	90	140	145	313	420	851	620	-	1079	1064	300	-	467,6	462,5
80-315/150/P	80	80	433	240	330	90	140	145	313	420	851	620	-	-	1079	300	-	-	475,6
100-160/15/P	100	100	374	160	280	87	125	158	174	410	748	500	786	786	786	300	167,6	167,6	167,6
100-160/22/P	100	100	374	170	280	87	125	158	214	410	748	500	820	820	820	300	188,6	188,6	188,6
100-160/30/P	100	100	374	170	280	87	125	158	214	410	748	500	866	866	851	300	201,5	201,5	196,6
100-200/30/P	100	100	381	183	300	90	160	179	214	420	783	550	900	900	885	300	203,5	203,5	198,6
100-200/40/P	100	100	381	183	300	90	160	179	214	420	783	550	929	929	914	300	241,5	241,5	236,6
100-200/55/P	100	100	381	210	300	90	160	179	256	420	783	550	-	979	979	300	-	263,5	263,5
100-250/55/P	100	100	381	210	300	90	160	179	256	420	783	550	-	979	979	300	-	263,5	263,5
100-250/75/P	100	100	381	210	300	90	160	179	256	420	783	550	-	994	979	300	-	276,6	271,5
100-250/110/P	100	100	381	240	300	90	160	179	313	420	783	550	-	1113	1098	300	-	386,6	381,5
100-315/110/P	100	100	453	240	360	110	155	175	313	420	883	670	-	1109	1094	300	-	498,6	493,5
100-315/150/P	100	100	453	240	360	110	155	175	313	420	883	670	-	-	1109	300	-	-	506,6
100-315/185/W	100	100	453	240	360	110	155	175	360	420	883	670	-	-	1169	300	-	-	584,6
100-315/220/W	100	100	453	240	360	110	155	175	360	420	883	670	-	-	1207	300	-	-	618,6

NOTE: Pumps supplied with flanges according to EN 1092-2 as standard. For flanges dimensions see drawing.

LNTSH-HVL-80-100_4p50-en_b_td

LNTSH 125, 150 SERIES **DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES**



A0030HVL-EN_A_DD

LNTSH 125, 150 SERIES DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES

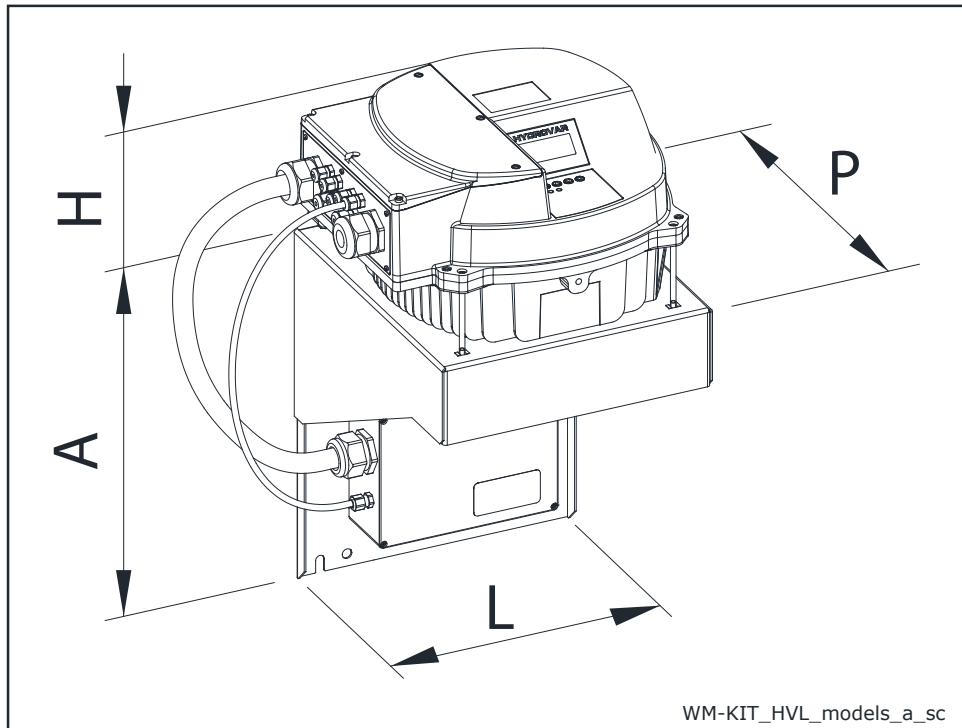
PUMP TYPE LNTSH..4	DIMENSIONS (mm)														L			k	WEIGHT (kg)		
	DND	DNS	a°	e	f	h1	h2	n1	n2	b1	b2	b3	b4	x	/2	/3	/4		/2	/3	/4
															1~ 230V	3~ 230V	3~ 400V		1~ 230V	3~ 230V	3~ 400V
125-160/22/P	125	125	0	200	183	280	340	572	532	412	365	235	160	395	875	875	875	300	238,6	238,6	238,6
125-160/30/P	125	125	0	200	183	280	340	572	532	412	365	235	160	395	921	921	906	300	256,5	256,5	251,6
125-160/40/P	125	125	0	200	183	280	340	572	532	412	365	235	160	395	950	950	935	300	299,5	299,5	294,6
125-200/55/P	125	125	0	200	210	280	340	572	532	412	365	235	160	395	-	1000	1000	300	-	319,5	319,5
125-200/75/P	125	125	0	200	210	280	340	572	532	412	365	235	160	395	-	1015	1000	300	-	334,6	329,5
125-250/75/P	125	125	0	230	215	350	450	652	612	480	516	250	250	500	-	1050	1035	300	-	418,6	413,5
125-250/110/P	125	125	45	230	245	350	450	652	612	480	516	250	250	500	-	1169	1154	300	-	462,6	457,5
125-315/150/P	125	125	45	230	245	350	450	652	612	480	516	250	250	500	-	-	1169	300	-	-	580,6
125-315/185/W	125	125	45	230	245	350	450	652	612	480	516	250	250	500	-	-	1229	300	-	-	682,6
125-315/220/W	125	125	45	230	245	350	450	652	612	480	516	250	250	500	-	-	1267	300	-	-	718,6
150-200/55/P	150	150	0	230	225	375	425	672	632	430	478	235	235	470	-	1045	1045	300	-	407,5	407,5
150-200/75/P	150	150	0	230	225	375	425	672	632	430	478	235	235	470	-	1060	1045	300	-	421,6	416,5
150-200/110/P	150	150	45	230	255	375	425	672	632	430	478	235	235	470	-	1179	1164	300	-	465,6	460,5
150-250/110/P	150	150	45	230	240	350	450	632	592	416	465	218	218	435	-	1164	1149	300	-	439,6	434,5
150-250/150/P	150	150	45	230	240	350	450	632	592	416	465	218	218	435	-	-	1164	300	-	-	523,6
150-315/185/W	150	150	30	230	254	350	450	672	632	466	503	240	240	480	-	-	1238	300	-	-	684,6
150-315/220/W	150	150	30	230	254	350	450	672	632	466	503	240	240	480	-	-	1276	300	-	-	720,6

NOTE: Pumps supplied with flanges according to EN 1092-2 as standard. For flanges dimensions see drawing.

LNTSH-HVL-125-150_4p50-en_b_id

HYDROVAR HVL (WALL MOUNTING KIT) DIMENSIONS AND WEIGHTS

As an option a HYDROVAR wall mounting kit is also available, this is used where mounting on the pump unit is impossible or where you would like the controls in another location, these are available for the new generation HYDROVAR HVL 2.015-4.220 (22 kW). The speed of the cooling fan modulates with the HYDROVAR usage which optimizes energy consumption and also reduces noise.



WM KIT TYPE	kW	WM KIT POWER SUPPLY	HVL SIZE	DIMENSIONS (mm)				WEIGHT (kg)	
				A	H	L	P	HVL	WM KIT
WM KIT HVL 2.015	1,5	1~ 230V	A	220	170	202	232	5,6	2,6
WM KIT HVL 2.022	2,2			220	170	202	232	5,6	2,6
WM KIT HVL 2.030	3		B	240	175	258	290	10,5	8,2
WM KIT HVL 2.040	4			320	175	288	305	10,5	5,4
WM KIT HVL 3.015	1,5	3~ 230V	A	220	170	202	232	5,6	2,6
WM KIT HVL 3.022	2,2			220	170	202	232	5,6	2,6
WM KIT HVL 3.030	3		B	240	175	258	290	10,5	8,2
WM KIT HVL 3.040	4			240	175	258	290	10,5	8,2
WM KIT HVL 3.055	5,5			240	175	258	290	10,5	8,2
WM KIT HVL 3.075	7,5		C	400	200	325	365	15,6	11,6
WM KIT HVL 3.110	11			400	200	325	365	15,6	11,6
WM KIT HVL 4.015	1,5	3~ 400V	A	240	170	258	290	5,6	8,2
WM KIT HVL 4.022	2,2			240	170	258	290	5,6	8,2
WM KIT HVL 4.030	3			240	170	258	290	5,6	8,2
WM KIT HVL 4.040	4			240	170	258	290	5,6	8,2
WM KIT HVL 4.055	5,5		B	240	175	258	290	10,5	8,2
WM KIT HVL 4.075	7,5			240	175	258	290	10,5	8,2
WM KIT HVL 4.110	11		C	320	175	288	305	10,5	5,4
WM KIT HVL 4.150	15			400	200	325	365	15,6	11,6
WM KIT HVL 4.185	18,5			400	200	325	365	15,6	11,6
WM KIT HVL 4.220	22			400	200	325	365	15,6	11,6

WM-KIT_HVL_models-EN_b_td

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