

# LNES 50-250/40/P46PCS4

## Technical data

Company name  
Contact  
Phone number  
e-mail address

Operating data					
1	Pumpe type	Single head pump		Fluid	Water
2	No. of pumps	1		Operating temperature t A	°F 39.2
3	Nominal flow	US g.p.m.	0	Max / Min Operating Temperature mech. Seal	°F 120 / -25
4	Nominal head	ft	0	pH-value at t A	7
5	Static head	ft	0	Density at t A	lb/ft <sup>3</sup> 62.4
6	Inlet pressure	psi	0	Kin. viscosity at t A	ft <sup>2</sup> /s 1.689E-5
7	Environmental temperature	°F	68	Vapor pressure at t A	psi 14.5
8	Available system NPSH	ft	0	Altitude	0

Pump data					
9	Lubrication	Standard, Grease lubrication [Std]			
10	Execution				
11	Design	In-line		Impeller Ø	Max. inch 10 1/8
12	Operating speed	1750 rpm	Stages 1		designed inch 9 9/16
13	Suction nozzle	DN 50 /	PN 16 /	EN1092-2	Min. inch 8 7/8
14	Discharge nozzle	DN 50 /	PN 16 /	EN1092-2	Flow
15	Max. casing pressure	psi			Nominal US g.p.m.
16	Max. working pressure	psi	42.7		Max- US g.p.m. 167.3
17	Impeller type	Radial impeller		Head	Min- US g.p.m. 57.2
18	Head H(Q=0)	ft	98		Nominal ft
19	Max. shaft power	hp	5.3		at Qmax ft 75.5
20	Pump weight	kg		at Qmin ft 96.7	Shaft power hp
21	Total weight	lb	220.5	Efficiency %	NPSH 3% ft

Materials					
22		Pump		Shaft Seal	
23	Volute Casing	Cast iron		Single mechanical seal, without shaft sleeve	
24	Casing Cover	Cast iron		eMG12 - Ø28mm	BQ7EGG-WA
25	Impeller	Stainless steel / AISI 304		Mechanical seal diameter	1 1/8 inch
26	Stub shaft	Stainless steel / AISI 316L		1. Rotating ring	Carbon graphite resin impregnated
27	Wear ring	Stainless steel / AISI 304		2. Stationary ring	SiC, silicon carbide, sintered press.less
28	Impeller lock nut and washer	Stainless steel / AISI 304		3. Secondary seal	Ethylene propylene rubber (EPDM)
29	Impeller key	Stainless steel / AISI 316L		4. Springs	CrNiMo - Steel
30	Fill and drain plugs	Nickel-plated brass		5. Others	EPDM - WRAS
31				Gaskets of the pump	Ethylene propylene rubber (EPDM)
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Motor data					
Electrical and dimensional data refer to IE3 motor					
42	Manufacturer	Lowara			
43	Specific design	IE3 3ph Flange Motor - Premium Efficiency			
44	Type	PLM 112 B5 4 kW			
45	Rated power	5.3641 hp	Rated current	8.52 A	
46	Nominal speed	1740 rpm	Rated voltage	380 V	
47	Frame size	112	Service factor	1	
48	Weight	lb 126.1	Degree of protection	IP55	

Remarks					
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52					

Project	Xylect-20070985	Created by		Last update	1/19/2025
Block	LNES 50-250/370/L26UCS4	Created on	1/19/2025		

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## Performance curve

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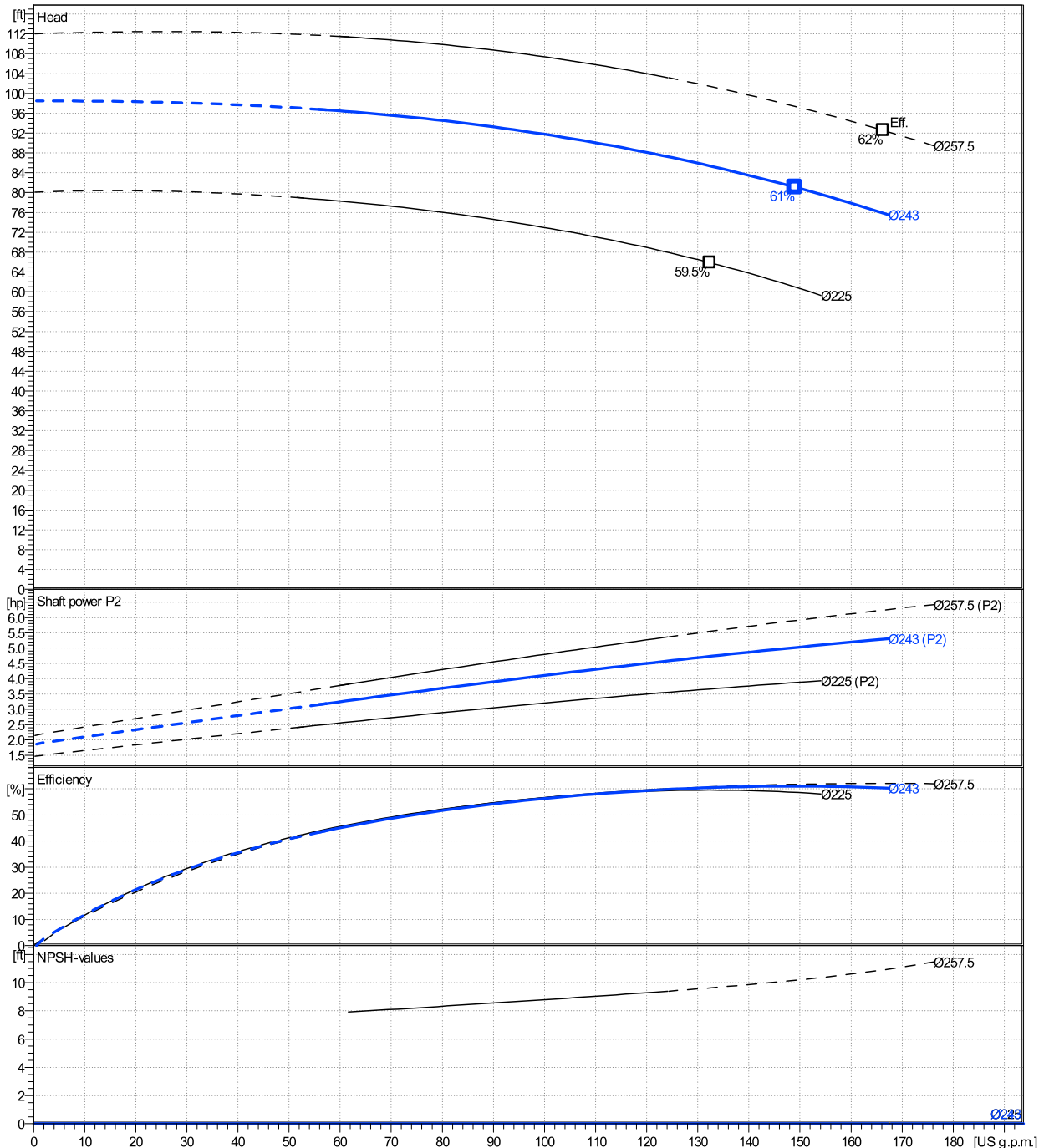
	Ø mm	Pump capacity Operating range η			Pump head η		Shaft power P2 η			Frequency	Hz	
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	Max. ft	P2(Q=0) hp	Max. hp	Max. hp	Operating speed	rpm	
actual	9 9/16	57.2	167	149	98.5	81.1		5.31	5.02	Nominal flow	US g.p.m.	0
Min.	0	/	/	132	80.1	65.9		/	3.67	Nominal head	ft	0
Max.	10 1/8	/	/	166	112	92.5		/	6.24	Inlet pressure	psi	0
										Static head	ft	0

Power datas referred to:

hydr. Performance acceptance acc. To EN ISO 9906 Class Grade 3B

Water [100%] ; 39.2°F; 62.4lb/ft³; 1.69E-5ft²/s

MEI: N.A - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



**LNES 50-250/40/P46PCS4**

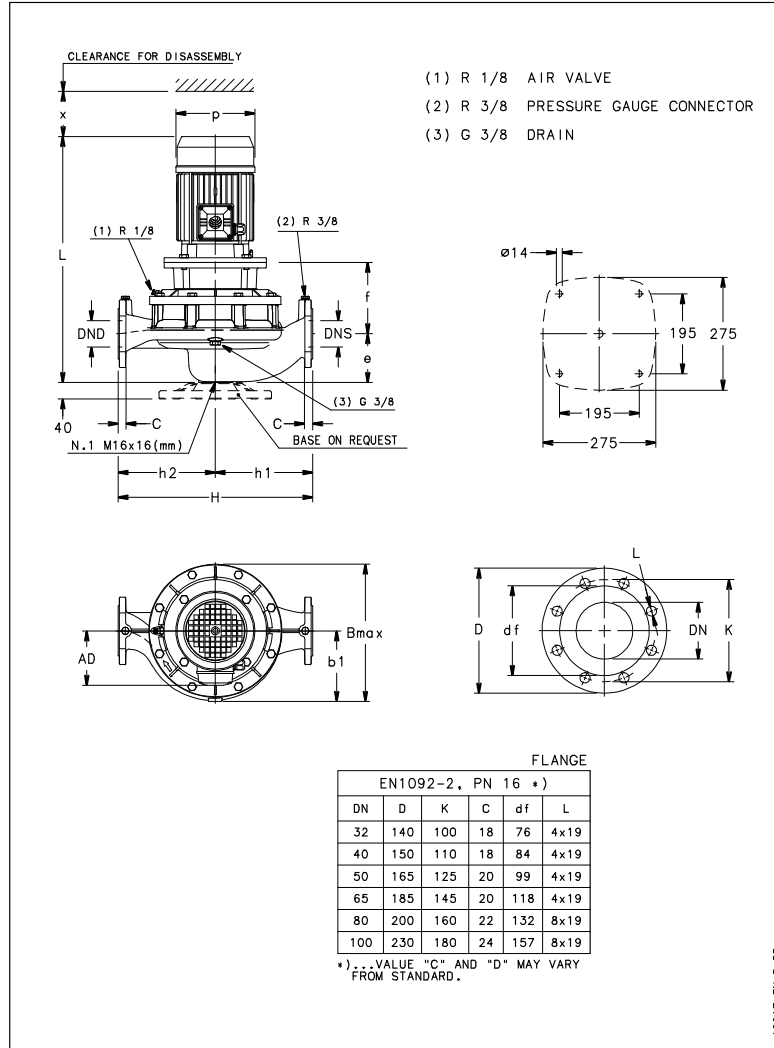
**Dimensions**

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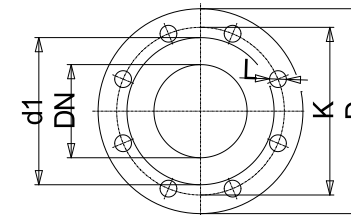
Rigid coupling

PLM 112 B5 4 kW

Electrical and dimensional data refer to IE3 motor



A0017-EN\_LB\_DD



Value C, D may vary from Standard

**Dimensions [ inch ]**

AD	6 <sup>5</sup> / <sub>8</sub>		
b1	6 <sup>5</sup> / <sub>8</sub>		
Bmax	13 <sup>1</sup> / <sub>4</sub>		
DNd	1 <sup>15</sup> / <sub>16</sub>		
DNS	1 <sup>15</sup> / <sub>16</sub>		
e	4 <sup>3</sup> / <sub>8</sub>		
f	6 <sup>1</sup> / <sub>2</sub>		
H	17 <sup>5</sup> / <sub>16</sub>		
h1	8 <sup>11</sup> / <sub>16</sub>		
h2	8 <sup>11</sup> / <sub>16</sub>		
L	25 <sup>7</sup> / <sub>8</sub>		
p	8 <sup>7</sup> / <sub>16</sub>		
x	4 <sup>1</sup> / <sub>4</sub>		

**Weight**

<b>Total weight</b>	<b>100 kg</b>
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**Connections**

Suction nozzle		Discharge nozzle	
<b>DN 50</b>		<b>DN 50</b>	
<b>PN 16</b>		<b>PN 16</b>	
<b>EN1092-2</b>		<b>EN1092-2</b>	
C	1 <sup>3</sup> / <sub>16</sub>	C	1 <sup>3</sup> / <sub>16</sub>
D	6 <sup>1</sup> / <sub>2</sub>	D	6 <sup>1</sup> / <sub>2</sub>
df	3 <sup>7</sup> / <sub>8</sub>	df	3 <sup>7</sup> / <sub>8</sub>
DN	1 <sup>15</sup> / <sub>16</sub>	DN	1 <sup>15</sup> / <sub>16</sub>
K	4 <sup>15</sup> / <sub>16</sub>	K	4 <sup>15</sup> / <sub>16</sub>
L	4 x 19	L	4 x 19

**Dimensions and weight without obligation**

Project Xylect-20070985  
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