

# LNES 100-250/110/P46PCC4

## 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 3/16
12	Operating speed	1750 rpm	Stages 1		designed inch 9 1/2
13	Suction nozzle	DN 100 / PN 16 / EN1092-2			Min. inch 8 7/16
14	Discharge nozzle	DN 100 / PN 16 / EN1092-2		Flow	Nominal US g.p.m.
15	Max. casing pressure	psi			Max- US g.p.m. 651.6
16	Max. working pressure	psi	43.3	Min- US g.p.m. 158.5	
17	Impeller type	Radial impeller		Head	Nominal ft
18	Head H(Q=0)	ft	100		at Qmax ft 72.8
19	Max. shaft power	hp	15.2		at Qmin ft 98.5
20	Pump weight	kg		Shaft power	hp
21	Total weight	lb	443.1	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 - Ø38mm	BQ7EGG-WA
25	Impeller	Cast iron / ASTM Class 30		Mechanical seal diameter	1 1/2 inch
26	Stub shaft	Stainless steel / AISI 431		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 Nut	Stainless steel		3. Secondary seal	Ethylene propylene rubber (EPDM)
29	Impeller washer	Stainless steel		4. Springs	CrNiMo - Steel
30	Impeller key	Stainless steel / AISI 316Ti		5. Others	EPDM - WRAS
31	PLUG	Stainless steel / AISI 316Ti		Gaskets of the pump	Ethylene propylene rubber (EPDM)
32	GASKET	Asbestos-free synthetic fiber AFM34			
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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 160 B5 11 kW			
45	Rated power	14.751 hp	Rated current	38.3 A	
46	Nominal speed	1758 rpm	Rated voltage	220 V	
47	Frame size	160	Service factor	1	
48	Weight	lb 276.5	Degree of protection	IP55	

Remarks					
49					
50					
50					
52					

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## Performance curve

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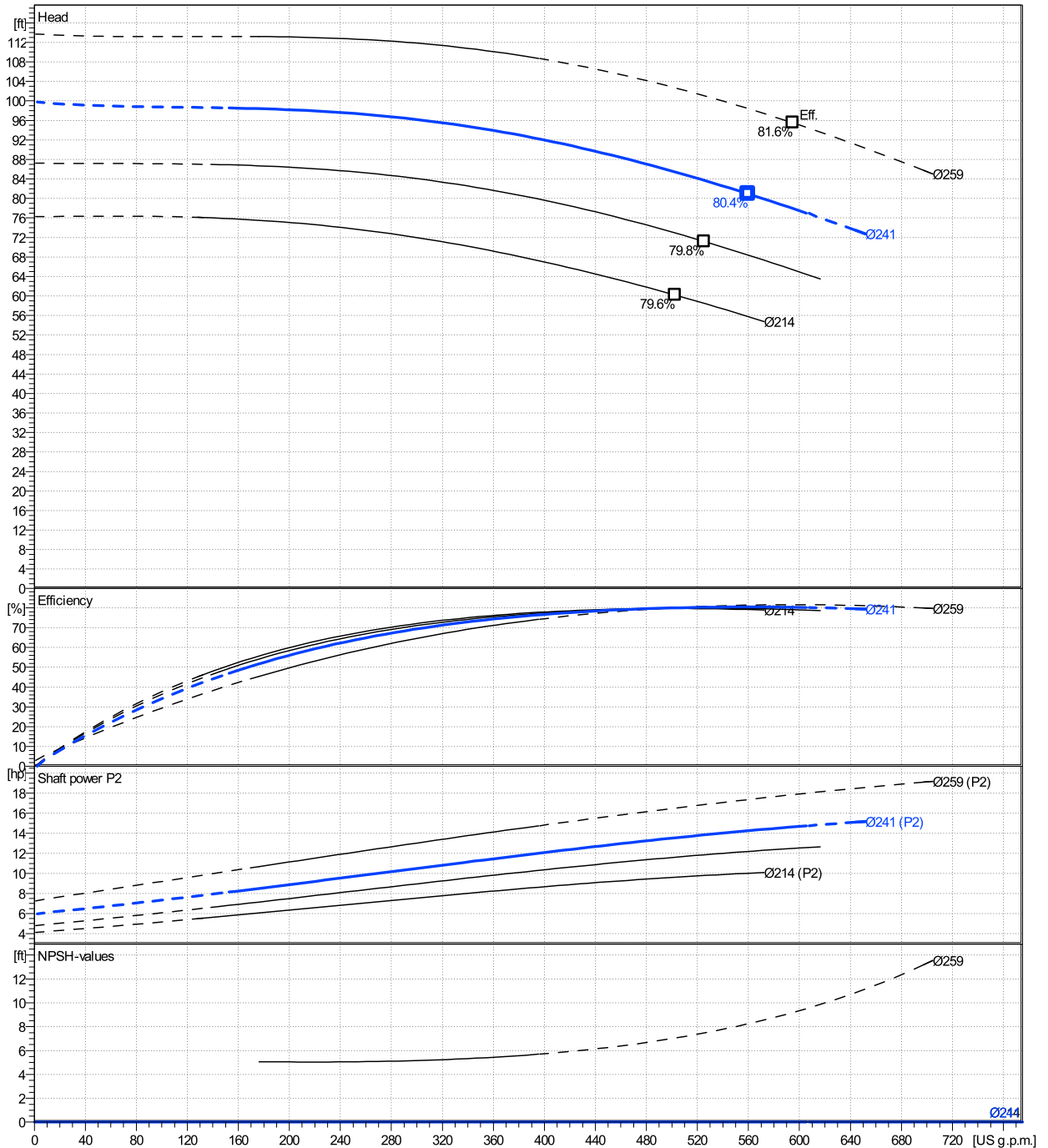
	Ø mm	Pump capacity Operating range η			Pump head η		Shaft power P2 η			Frequency	Hz	
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	Max. ft	P2(Q=0) hp	Max. hp	Max. hp	Operating speed	rpm	
actual	9 1/2	159	606	560	99.8	80.9		15.2	14.3	Nominal flow	US g.p.m.	0
Min.	0	/	/	503	76.3	60.2		/	9.62	Nominal head	ft	0
Max.	10 3/16	/	/	595	114	95.5		/	17.9	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



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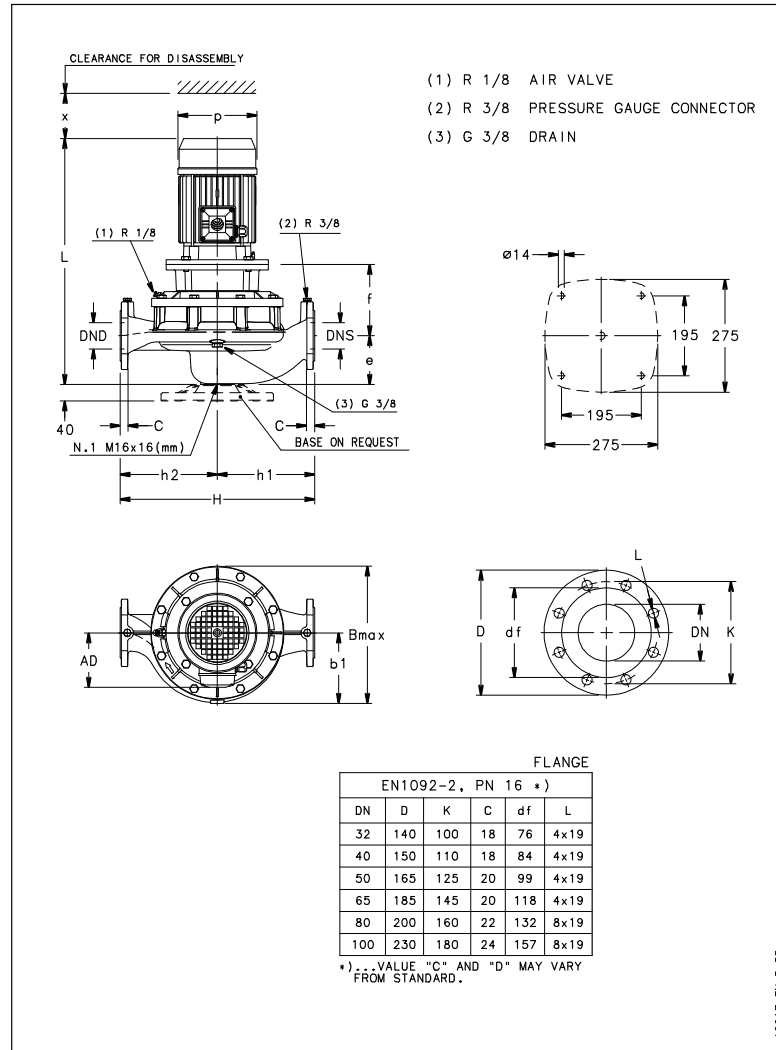
## Dimensions

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Rigid coupling

PLM 160 B5 11 kW

Electrical and dimensional data refer to IE3 motor



### Dimensions [ inch ]

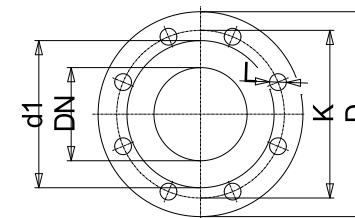
AD	9 <sup>7</sup> / <sub>16</sub>		
b1	7 <sup>15</sup> / <sub>16</sub>		
Bmax	14 <sup>5</sup> / <sub>8</sub>		
DNd	3 <sup>15</sup> / <sub>16</sub>		
DNS	3 <sup>15</sup> / <sub>16</sub>		
e	6 <sup>7</sup> / <sub>8</sub>		
f	9 <sup>7</sup> / <sub>16</sub>		
H	21 <sup>5</sup> / <sub>8</sub>		
h1	11 <sup>13</sup> / <sub>16</sub>		
h2	9 <sup>13</sup> / <sub>16</sub>		
L	35 <sup>13</sup> / <sub>16</sub>		
p	12 <sup>5</sup> / <sub>16</sub>		
x	6		

### Weight

Total weight 201 kg

### Connections

Suction nozzle		Discharge nozzle	
DN 100		DN 100	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	1 <sup>5</sup> / <sub>16</sub>	C	1 <sup>5</sup> / <sub>16</sub>
D	9 <sup>1</sup> / <sub>16</sub>	D	9 <sup>1</sup> / <sub>16</sub>
df	6 <sup>3</sup> / <sub>16</sub>	df	6 <sup>3</sup> / <sub>16</sub>
DN	3 <sup>15</sup> / <sub>16</sub>	DN	3 <sup>15</sup> / <sub>16</sub>
K	7 <sup>1</sup> / <sub>16</sub>	K	7 <sup>1</sup> / <sub>16</sub>
L	8 x 19	L	8 x 19



Value C, D may vary from Standard

### Dimensions and weight without obligation

Project Xlect-20070985  
Block LNES 100-250/150/P46PCC4

Created by  
Created on 1/19/2025

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