LOWARA
a xylem brand

LNES 40-200/22/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/ft³	62.4
6	Inlet pressure	psi	0	Kin. viscosity at t A		ft²/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			Impeller Ø	Max.	inch	8 1/16
11	Design	In-line			designed	inch	8 1/16
12	Operating speed	1750 rpm	Stages 1		Min.	inch	7 5/16
13	Suction nozzle	DN 40 / PN 16 / EN1092-2		Flow	Nominal	US g.p.m.	
14	Discharge nozzle	DN 40 / PN 16 / EN1092-2			Max-	US g.p.m.	96.9
15	Max. casing pressure	psi			Min-	US g.p.m.	26.4
16	Max. working pressure	psi	29	Head	Nominal	ft	
17	Impeller type		Radial impeller		at Qmax	ft	48.1
18	Head H(Q=0)	ft	67		at Qmin	ft	64.5
19	Max. shaft power	hp	2.3	Shaft power		hp	
20	Pump weight	kg		Efficiency		%	
21	Total weight	lb	163.1	NPSH 3%		ft	

Materials

	Pump		Shaft Seal	
22				
23	Volute Casing	Cast iron	Single mechanical seal, without shaft sleeve	
24	Casing Cover	Cast iron	eMG12 - Ø22mm	BQ7EGG-WA
25	Impeller	Stainless steel / AISI 304	Mechanical seal diameter	7/8 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)
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				

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 100 B5 2,2 kW		
45	Rated power	2.9502 hp	Rated current	8.19 A
46	Nominal speed	1740 rpm	Rated voltage	220 V
47	Frame size	100	Service factor	1
48	Weight lb	70.5	Degree of protection	IP55

Remarks

49	
50	
50	
52	

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Performance curve

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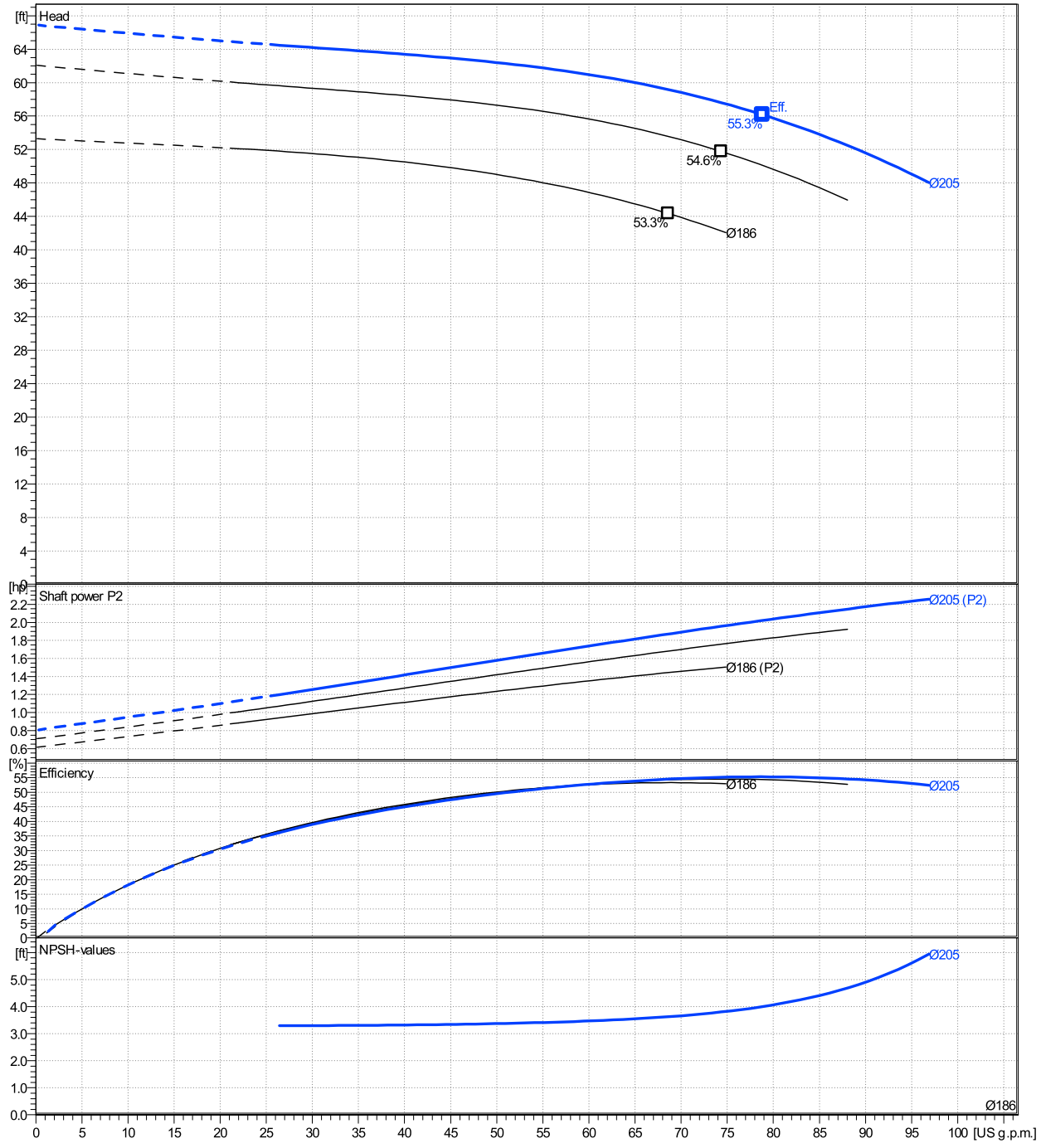
	Ø	Pump capacity Operating range Min.	Max.	η Max.	Pump head H(Q=0)	η Max.	Shaft power P2 P2(Q=0)	Max.	η Max.			
	mm	US g.p.m.	US g.p.m.	US g.p.m.	ft	ft	hp	hp	hp			
actual	8 1/16	26.4	96.9	78.8	66.9	56.2		2.26	2.02	Frequency	Hz	60
Min.	0	/	/	68.6	53.3	44.3		/	1.44	Operating speed	rpm	1750
Max.	8 1/16	/	/	78.8	66.9	56.2		/	2.02	Nominal flow	US g.p.m.	0
										Nominal head	ft	0
										Inlet pressure	psi	0
										Static head	ft	0

Power datas refered to:

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

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

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



Project	Xylect-20070985	Created by		Last update	1/19/2025
Block	LNES 40-200/110/P26PCS4	Created on	1/19/2025		

Program version: 75.0 - 06/11/2024 (Build 274)
Data version: 18/01/2025 09:55
User group(s): Xylem: United Kingdom - EXT

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Dimensions

Company name
Contact
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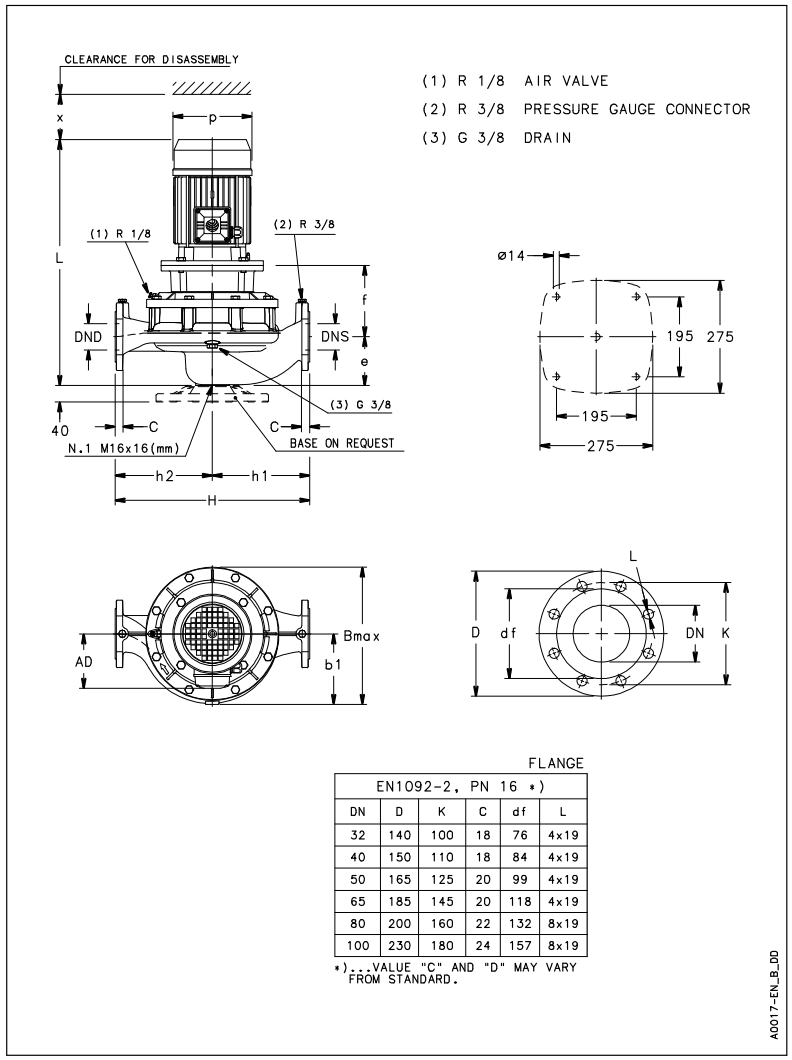
Rigid coupling

PLM 100 B5 2,2 kW



FLANGE

EN1092-2, PN 16 *)					
DN	D	K	C	df	L
32	140	100	18	76	4x19
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.

Electrical and dimensional data refer to IE3 motor

Dimensions [inch]

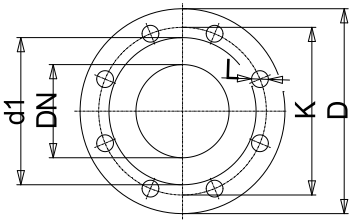
AD	$9^{7}/_{16}$		
b1	$6^{5}/_{8}$		
Bmax	$13^{1}/_{4}$		
DNd	$1^{9}/_{16}$		
DNs	$1^{9}/_{16}$		
e	$4^{5}/_{16}$		
f	$6^{1}/_{2}$		
H	$17^{5}/_{16}$		
h1	$8^{11}/_{16}$		
h2	$8^{11}/_{16}$		
L	$23^{1}/_{2}$		
p	$8^{7}/_{16}$		
x	$4^{1}/_{8}$		

Weight

Total weight	**74 kg**

Connections

Suction nozzle		**Discharge nozzle**	
DN 40		**DN 40**	
PN 16		**PN 16**	
EN1092-2		**EN1092-2**	
C	$^{11}/_{16}$	C	$^{11}/_{16}$
D	$5^{7}/_{8}$	D	$5^{7}/_{8}$
df	$3^{5}/_{16}$	df	$3^{5}/_{16}$
DN	$1^{9}/_{16}$	DN	$1^{9}/_{16}$
K	$4^{5}/_{16}$	K	$4^{5}/_{16}$
L	4 x 19	L	4 x 19



Value C, D may vary from Standard

Dimensions and weight without obligation

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