

NSCF50-125/15/P46PCS4

Technical data

Company name
Contact
Phone number
e-mail address

Operating data					
1	Pumpe type	Single head pump		Fluid	Water, pure
2	No. of pumps	1		Operating temperature at 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	[F] = 4 poles motor unit with standard cuopling			
11	Design	Horizontal		Impeller Ø	Max. inch 5 11/16
12	Operating speed	1750 rpm	Stages 1		designed inch 5 11/16
13	Suction nozzle	DN 65 /	PN 16 /	EN1092-2	Min. inch 4 5/8
14	Discharge nozzle	DN 50 /	PN 16 /	EN1092-2	Nominal US g.p.m.
15	Max. casing pressure	psi		Flow	Max- US g.p.m. 268.6
16	Max. working pressure	psi	14.3		Min- US g.p.m. 70.4
17	Impeller type	Radial impeller		Head	Nominal ft
18	Head H(Q=0)	ft	33		at Qmax ft 13.6
19	Max. shaft power	hp	1.7		at Qmin ft 30.7
20	Pump weight	kg	75	Shaft power	hp
21	Total weight	lb	179.6	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 - Ø22mm	BQ7EGG-WA
25	Impeller	Fabricated Stainless Steel		Mechanical seal diameter	7/8 inch
26	Shaft	Stainless steel		1. Rotating ring	Carbon graphite resin impregnated
27	Wear ring	Stainless steel		2. Stationary ring	SiC, silicon carbide, sintered press.less
28	Impeller lock nut and washer	Stainless steel		3. Secondary seal	Ethylene propylene rubber (EPDM)
29	Impeller key	Stainless steel		4. Springs	CrNiMo - Steel
30	Fill and drain plugs	Stainless steel		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		Coupling	
42	Manufacturer	Lowara		Manufacturer	Flender		
43	Specific design	IE3 3ph Surface Motor - Premium Efficiency		Series	Standard Coupling - N-EUPEX - Type B		
44	Type	PLM 90 B3 1,5 kW		Shaft diameter	Pump 15/16 inch	Motor 15/16 inch	
45	Rated power	2.0115 hp	Rated current	6.34 A	Frame size	68	
46	Nominal speed	1734 rpm	Rated voltage	220 V	Spacer length	inch	1/8
47	Frame size	90	Service factor	1	Weight	lb 1.2	
48	Weight	lb 50.7	Degree of protection	IP55	Coupling protection	COUPLGUARD 160x102PNTD	0.48501 lb

Base plate			Remarks	
49	Name	BASE 3A 900X390 BLU		
50	Weight	lb	52.2	

Project	Xylect-20182283	Created by		Last update	1/11/2025
Block	NSCF50-125/110/P26PCS4	Created on	1/11/2025		

NSCF50-125/15/P46PCS4

Performance curve

Company name
Contact
Phone number
e-mail address

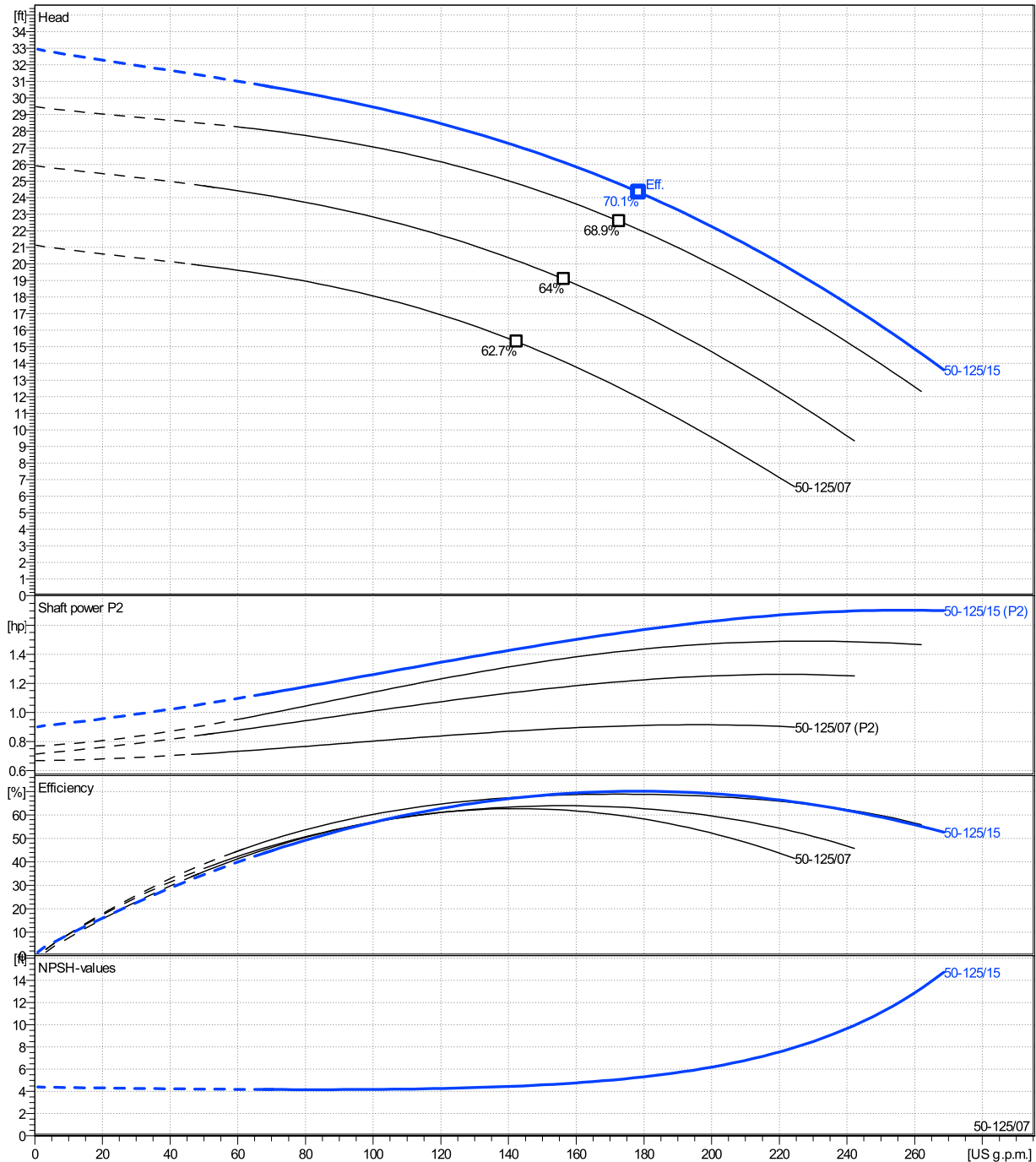
	Ø mm	Pump capacity Operating range η			Pump head η		Shaft power P2 η			Frequency	Hz	
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	Max. ft	P2(Q=0) hp	Max. hp	Max. hp	Operating speed	rpm	
actual	5 11/16	70.4	269	178	33	24.3		1.7	1.57	Nominal flow	US g.p.m.	0
Min.	0	/	/	142	21.1	15.3		/	0.873	Nominal head	ft	0
Max.	5 11/16	/	/	178	33	24.3		/	1.57	Inlet pressure	psi	0
										Static head	ft	0

Power datas referred to:

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

Water, pure [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



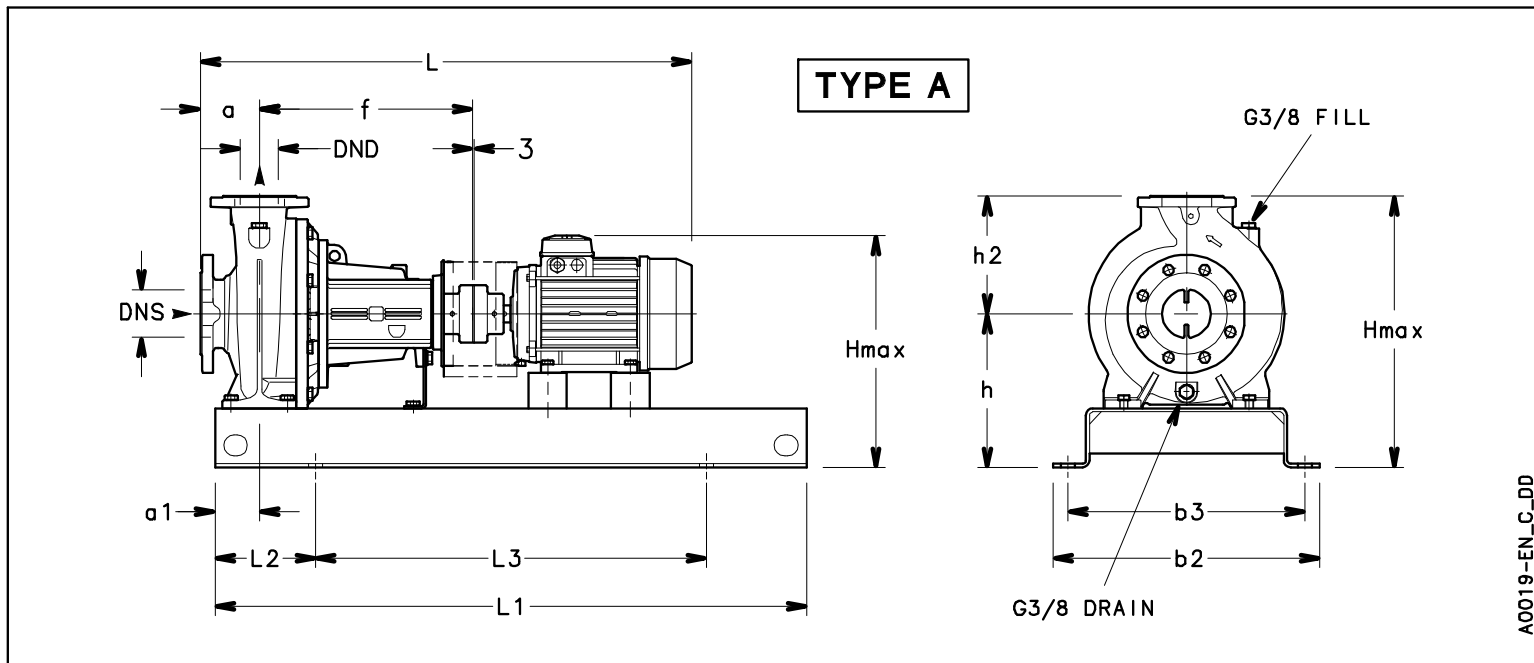
NSCF50-125/15/P46PCS4

Dimensions

Company name
Contact
Phone number
e-mail address

Frame mounted
[F] = 4 poles motor unit with standard coupling
PLM 90 B3 1,5 kW

Electrical and dimensional data refer to IE3 motor



Dimensions [inch]

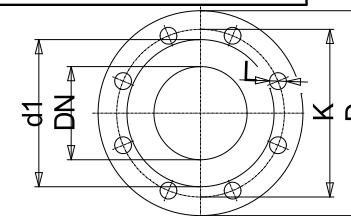
a	3 ¹⁵ / ₁₆
a1	2 ³ / ₈
AD	5 ¹ / ₄
b2	15 ³ / ₈
b3	13 ³ / ₄
DND	1 ¹⁵ / ₁₆
DNS	2 ⁹ / ₁₆
f	14 ³ / ₁₆
Guard	4 ¹ / ₁₆
h	9 ⁹ / ₈
h2	6 ⁵ / ₁₆
Hmax	15 ⁷ / ₁₆
L	31 ¹⁵ / ₁₆
L1	35 ⁷ / ₁₆
L2	5 ⁷ / ₈
L3	23 ⁵ / ₈
s	4xØ19
Type	A
Volumen	1 ¹ / ₂₈
x	1 ¹ / ₈

Weight

Total weight	81.46 kg
--------------	----------

Connections

Suction nozzle		Discharge nozzle	
DN 65		DN 50	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	1 ³ / ₁₆	C	1 ³ / ₁₆
D	7 ⁵ / ₁₆	D	6 ¹ / ₂
df	4 ⁵ / ₈	df	3 ⁷ / ₈
DN	2 ⁹ / ₁₆	DN	1 ¹⁵ / ₁₆
K	5 ¹¹ / ₁₆	K	4 ¹⁵ / ₁₆
L	4 x 19	L	4 x 19



Value C, D may vary from Standard

Note:
Weight and Dimensions of selected Hydrovar are NOT considered.
Please refer to additional datasheet.

Dimensions and weight without obligation

Project	Xylect-20182283	Created by		Last update	1/11/2025
Block	NSCF50-125/110/P26PCS4	Created on	1/11/2025		