

NSCF 80-160/15/P45RCC4**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 t A	°C	4
3	Nominal flow	m³/h	0	Max / Min Operating Temperature mech. Seal	°C	120 / -25
4	Nominal head	m	0	pH-value at t A		7
5	Static head	m	0	Density at t A	kg/m³	1000
6	Inlet pressure	kPa	0	Kin. viscosity at t A	mm²/s	1.569
7	Environmental temperature	°C	20	Vapor pressure at t A	kPa	100
8	Available system NPSH	m	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.	mm 177
12	Operating speed	1450 rpm	Stages 1		designed	mm 144
13	Suction nozzle	DN 100 /	PN 16 /		Min.	mm 144
14	Discharge nozzle	DN 80 /	PN 16 /	Flow	Nominal	m³/h
15	Max. casing pressure	kPa			Max-	m³/h 106
16	Max. working pressure	kPa	63.9		Min-	m³/h 22
17	Impeller type	Radial impeller		Head	Nominal	m
18	Head H(Q=0)	m	6.5		at Qmax	m 2.7
19	Max. shaft power	kW	1.3		at Qmin	m 6.5
20	Pump weight	kg	66	Shaft power	kW	
21	Total weight	kg	118.7	Efficiency	%	
				NPSH 3%	m	

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	Cast Iron		Mechanical seal diameter	28 mm	
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						
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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 24 mm	Motor 24 mm
45	Rated power	1.5 kW	Rated current 3.7 A	Frame size	68	
46	Nominal speed	1440 rpm	Rated voltage 400 V	Spacer length	mm	3
47	Frame size	90	Service factor 1	Weight	kg	0.5
48	Weight	kg 23.0	Degree of protection IP55	Coupling protection	COUPLGUARD 175x102PNTD 0.24 kg	

Base plate

49	Name	BASE 4A 1000X450 BLU				
50	Weight	kg	28.9			

Project	Xylect-20101285	Created by		Last update	12/15/2024
Block	NSCF 80-160/220/L25VCC4	Created on	12/15/2024		

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Performance curve

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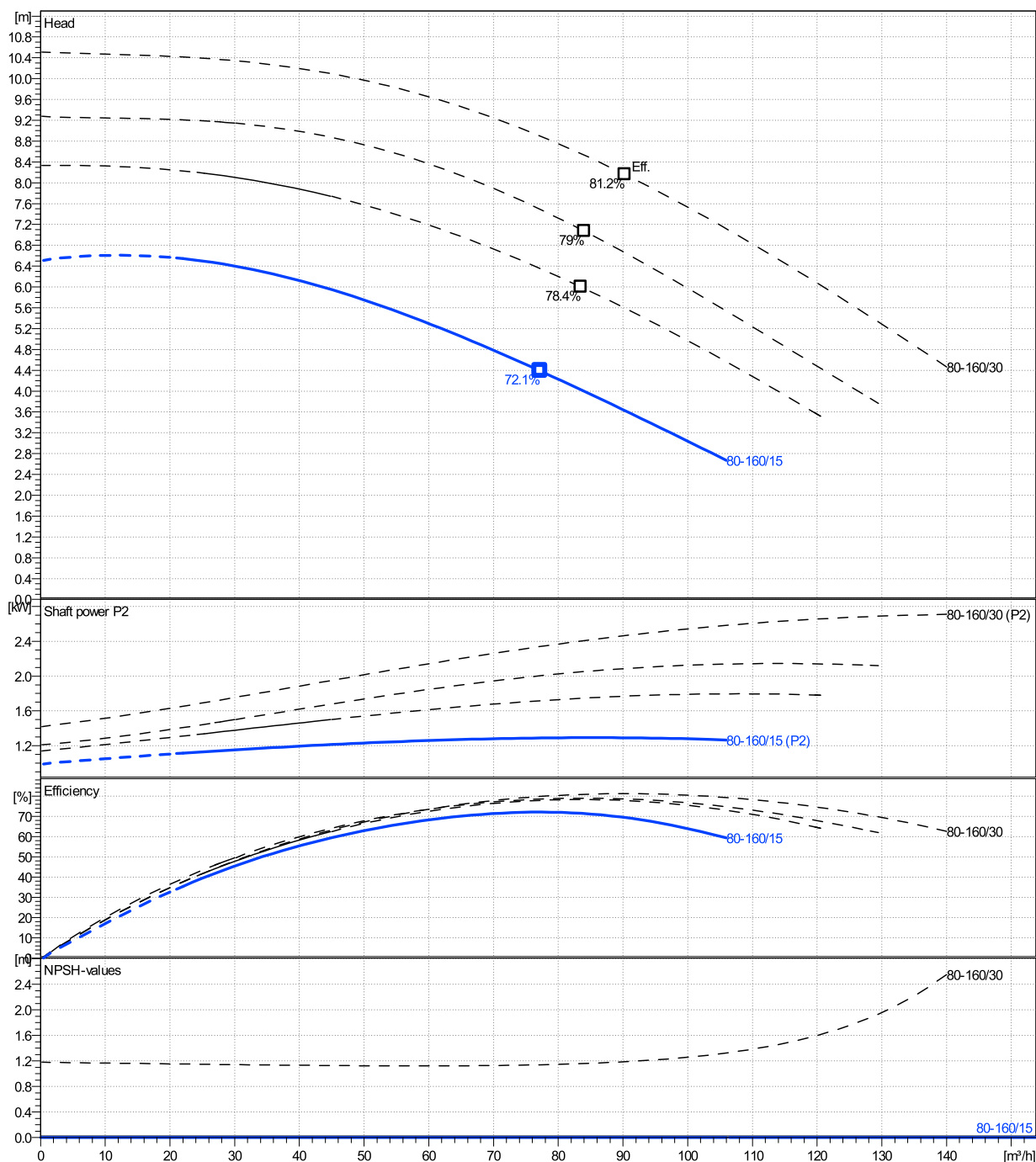
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency	Hz	50
		Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	1450
actual	144	22	106	77.2	6.51	4.39		1.29	1.29	Nominal flow	m³/h	0
Min.	0	/	/	77.2	6.51	4.39		/	1.29	Nominal head	m	0
Max.	177	/	/	90.3	10.5	8.16		/	2.47	Inlet pressure	kPa	0
										Static head	m	0

Power datas referred to:

Water, pure [100%] ; 4°C; 1000kg/m³; 1.57mm²/s

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

MEI: >=0,4



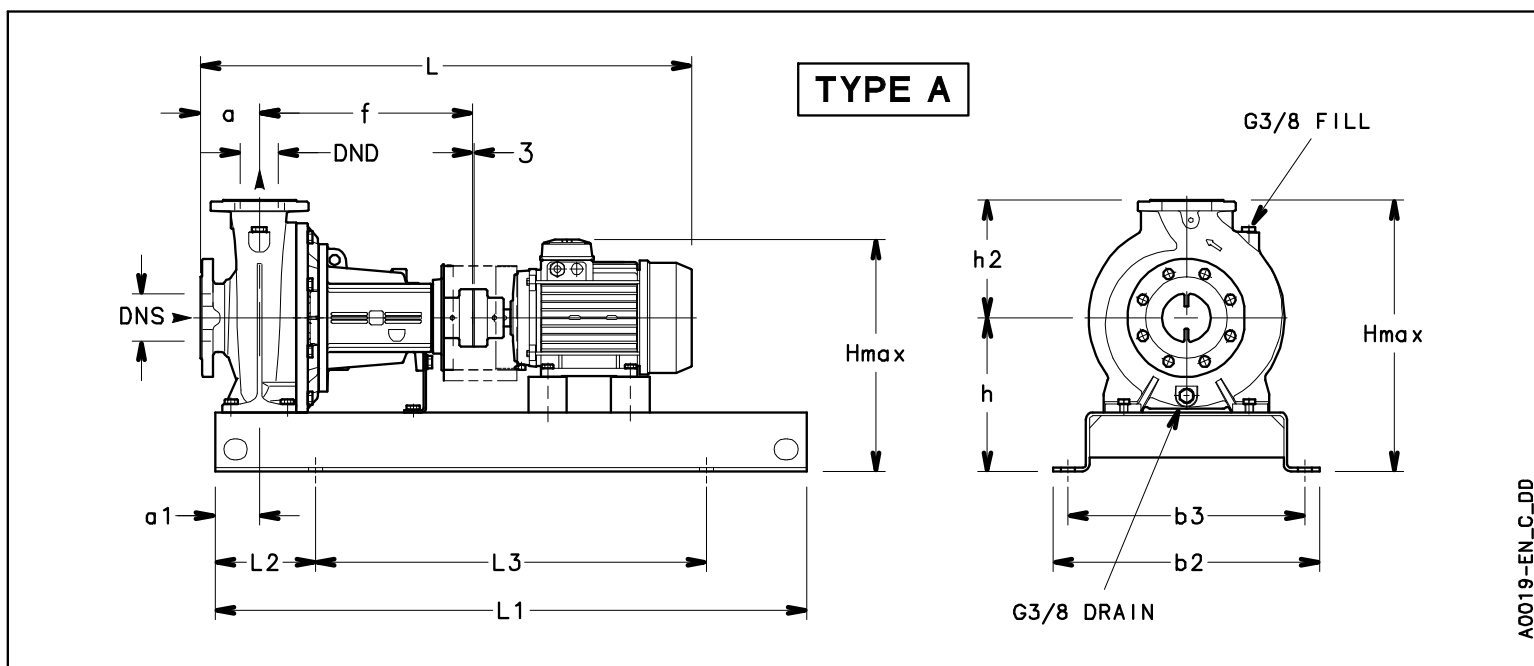
NSCF 80-160/15/P45RCC4

Dimensions

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

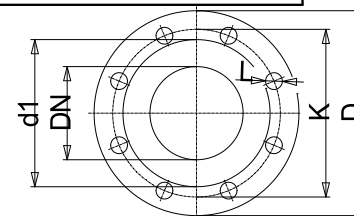
Electrical and dimensional data refer to IE3 motor



Dimensions		[mm]	
a	125		
a1	75		
AD	134		
b2	450		
b3	400		
DND	80		
DNS	100		
f	360		
Guard	103		
h	280		
h2	225		
Hmax	505		
L	836		
L1	1000		
L2	170		
L3	660		
s	4xØ24		
Type	A		
Volumen	0.18998		
x	3		

Weight	
Total weight	118.68 kg

Connections			
Suction nozzle		Discharge nozzle	
DN 100		DN 80	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	24	C	22
D	230	D	200
df	157	df	132
DN	100	DN	80
K	180	K	160
L	8 x 19	L	8 x 19



Value C, D may vary from Standard

Dimensions and weight without obligation

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