

Technical data

Pump name

CD 90/10

Customer	Date 01-June-2019	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

1	Pump type	CENTRIFUGAL PUMPS	Fluid	Water, clean
2	Number of pumps / Reserve	1 / 0	Liquid temperature °C	20
3	Flow m³/h	0	Kin. viscosity mm²/s	1
4	Head m	0	Vapour pressure bar	0.022
5	Static head m	0	PH value	7
6	Inlet pressure bar	0.1	Density kg/dm³	1
7	Available system NPSH	0	Solids Weight %	0
8	Environmental temperature °C	20		

Pump

9	Pump name	CD 90/10	Frequency Hz	50
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EPE	Impeller	Max. mm 157
12	Speed 1/min	2800	Diameter	Designed mm 157
13	No. of Stage	1		Min. mm 157
14	Connection Suction side	UNI ISO 228-1	Flow	Operating m³/h
15	Connection Discharge side	UNI ISO 228-1		Max- m³/h 6.6
16	Max Working Pressure bar	8		Min- m³/h 1.2
17	Shut-off head bar	3.13	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 18.5
19	Shaft power kW			- (Qmin.) m 30.3
20			Max. Shaft Power at max. impeller	kW 0.76
21	Required NPSH m		Efficiency	%

Materials

22	Impeller	AISI 304		
23	Casing	AISI 304		
24	Shaft	AISI 303 (Wet extension)		
25				
26				
27				

Motor

28	Manufacturer	EPE Standard	Insulation class	F
29	Type	TEFC_CD 90/10_230_Three Phase	Phases	3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size	
31	Rated power kW	0.75	Weight kg	0
32	Number of poles	2	Electric voltage V	230
33	Speed 1/min	2800	Electric current A	3.3
34	Degree of protection	IP 55		
35				

Remarks

Performance curve Pump name CD 90/10

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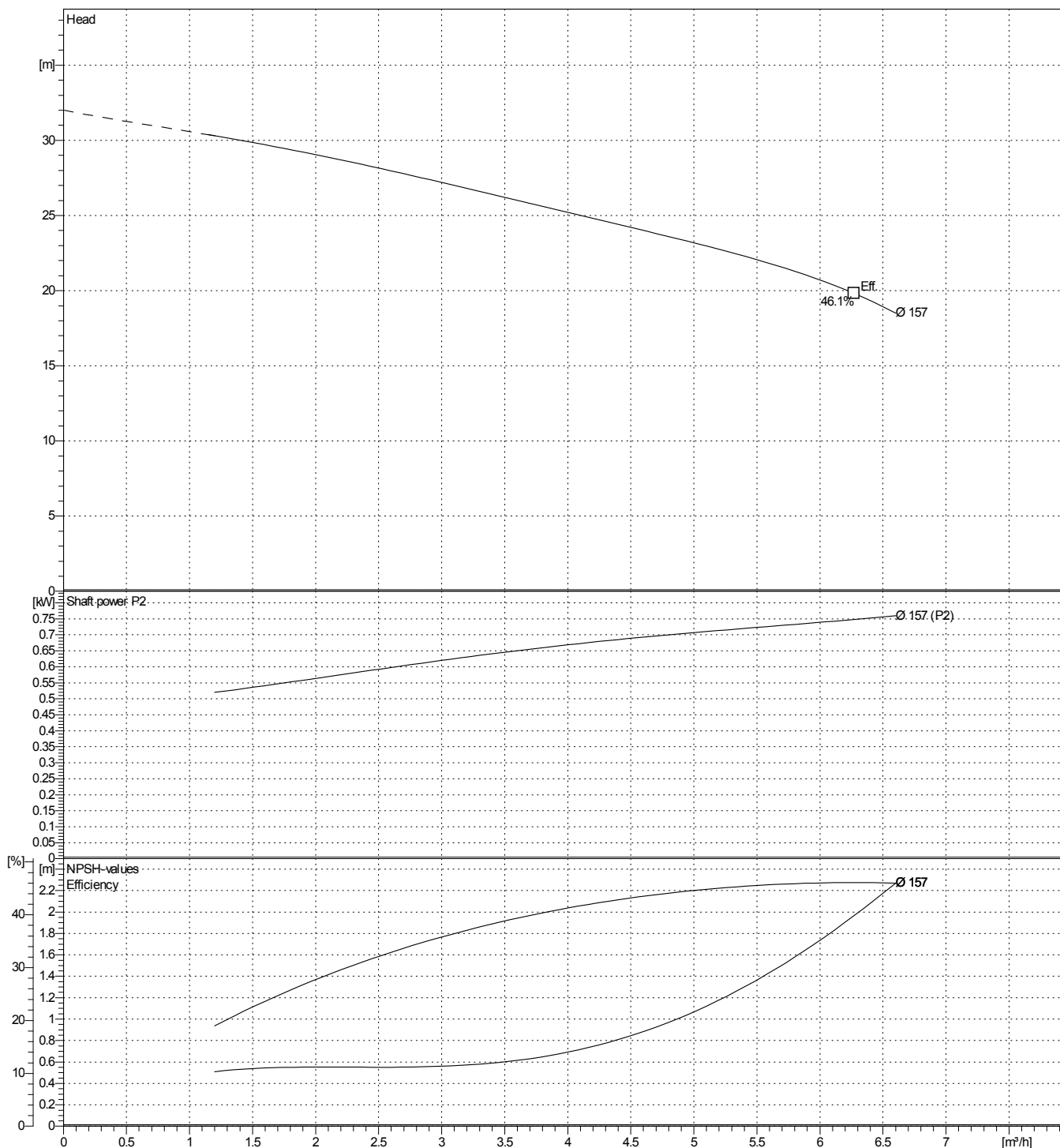
1	Flow	m³/h	0
2	Head	m	0
3	Static head	m	0

Pump

Operating Flow	m³/h		Frequency	Hz	50
Operating Head	m		Number of poles		2
Impeller Diameter	Designed mm	157	Speed	1/min	

Test standard: ISO 9906:2012 - Grade3B

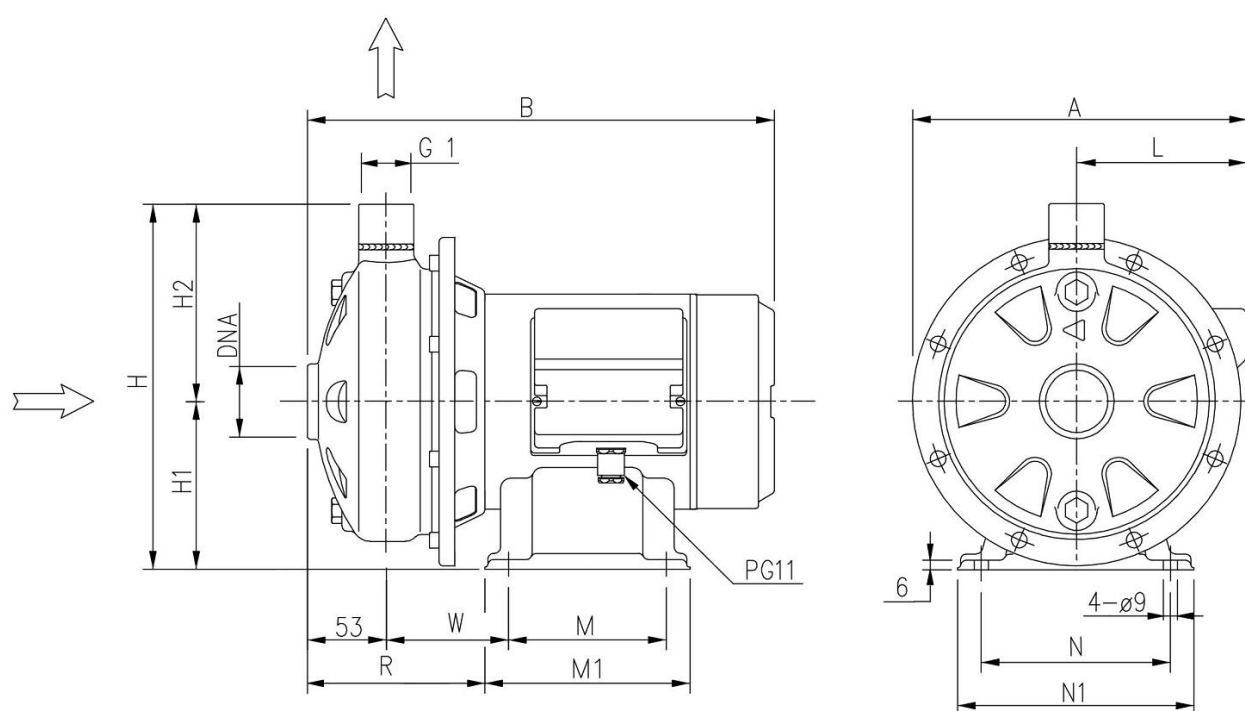
Water, clean [100%] ; 20°C; 0.9983kg/dm³; 1mm²/s



Dimensions

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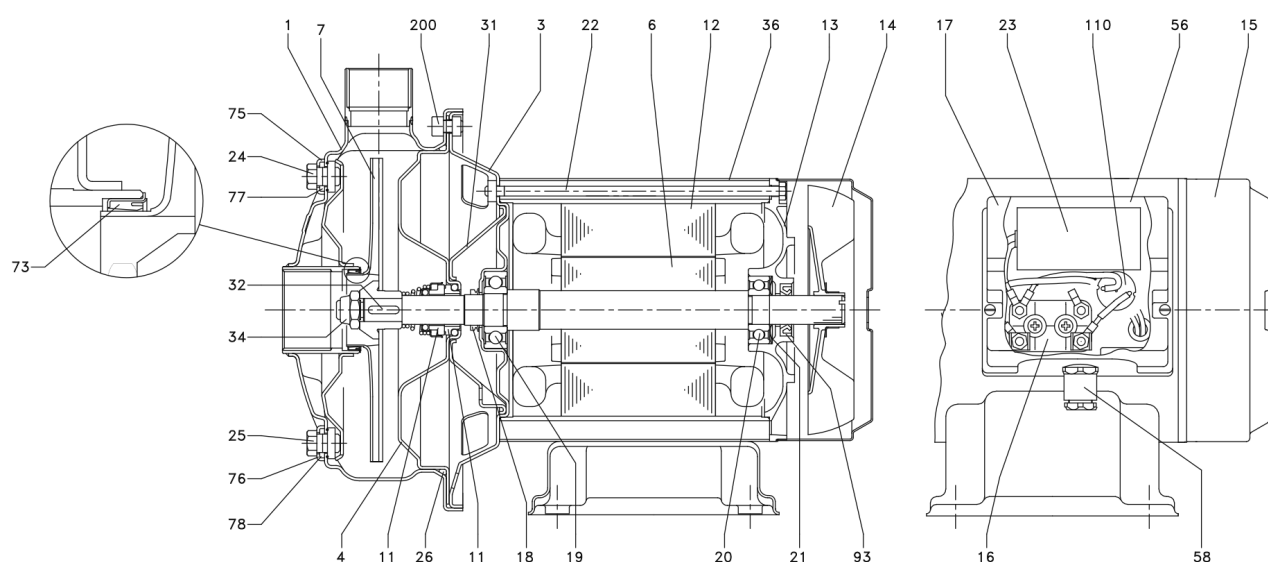


Dimensions in mm							
1	A	208	Weight P&M	11.6kg			
2	B	328					
3	DNA	G 1" 1/4					
4	H	229.5					
5	H1	106					
6	H2	123.5					
7	L	104					
8	M	100					
9	M1	130					
10	N	120					
11	N1	150					
12	R	130.5					
13	W	92.5					

(1/3) Construction

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(2/3) Construction

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N°	PART NAME	MATERIAL	DIMENSION	STANDARD	Q.TY
1	Casing	AISI 304			1
3	Motor bracket	AISI 304			1
4	Casing cover	AISI 304			1
6	Shaft with rotor	AISI 303 (Wet extension)			1
7	Impeller	AISI 304			1
11	Mechanical seal [4]	Ceramic/Carbon/NBR			1
12	Motor frame with stator	-			1
13	Motor cover	Aluminium			1
14	Fan	PA			1
15	Fan cover	AISI 304			1
16	Terminal board	-			1
17	Terminal box cover	PA66 glass fibre reinforced class V-0			1
18	Splash ring	NBR			1
19	Pump side ball bearing	-			1
20	Fan side ball bearing	-			1
21	Adjusting ring	Steel C70			1
22	Tie rod	Fe 420 Galvanized			4
23	Capacitor [1]	-			1
24	Priming plug	AISI 304			1
25	Drain plug	AISI 304			1
26	O-ring [2]	NBR			1
31	Thrust flange	AISI 304			1
32	Key	AISI 316	4x4x14	UNI 6604	1
34	Impeller nut	Stainless steel A2-70	M10X1,25	UNI 7474	1
36	Motor casing	AISI 304			1
56	Box gasket	NBR			1
58	Cable entry	-			1
73	Casing ring [3]	NBR			1
75	Washer	AISI 304			1
76	Washer	AISI 304			1
77	O-ring [2]	NBR			1
78	O-ring [2]	NBR			1
93	Lip seal	NBR			1
110	Protector [1]	-			1
200	Screw	70/05, 70/07, 90/10	M6X12	UNI 5931	8
		70/12	M8X14		

[1] Only for single phase

[2] FPM for H-HS-HW-HSW

EPDM for E and Special Mechanical Seal

[3] FPM for H-HS-HW-HSW 70/05, 70/07, 90/10

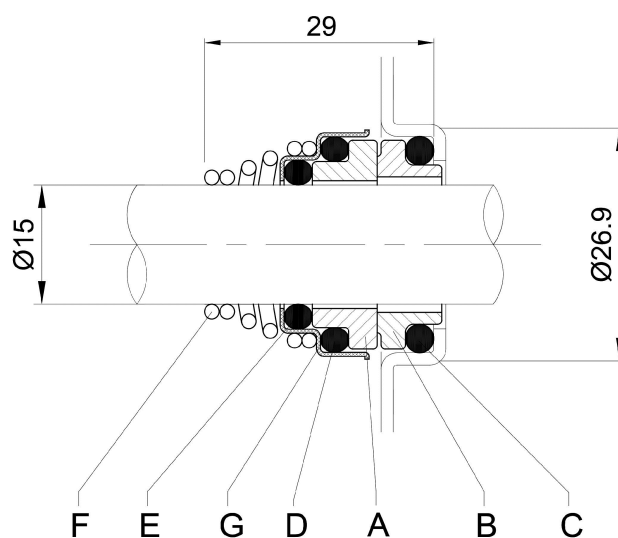
NBR for E 70/05, 70/07, 90/10

[4] See **CONSTRUCTION 3**

(3/3) Construction

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REF	PART NAME	MATERIAL Standard and L version
A	Rotary seal ring	Ceramic
B	Stationary seal ring	Carbon graphite
C	O-Ring	NBR
D	O-Ring	NBR
E	O-Ring	NBR
F	Self-driving spring	AISI 316
G	Frame	AISI 304