

Technical data

Pump name

OPTIMA M

Customer	Date 14-May-2020	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

1	Pump type	SUBMERSIBLE SUMP PUMPS	Fluid	Water, clean
2	Number of pumps / Reserve	1 / 0	Liquid temperature	K 293
3	Flow l/min	0	Kin. viscosity	mm ² /s 1
4	Head m	0	Vapour pressure	kPa 2.2
5	Geodetic head m	0	PH value	7
6	Inlet pressure (pin) kPa	10	Density	kg/m ³ 1000
7	Available system NPSH	0	Solids	Weight % 0
8	Ambient temperature K	290		

Pump

9	Pump name	OPTIMA M	Frequency	Hz 50
10	Design	SUBMERSIBLE SUMP PUMPS	Installation type	STANDARD
11	Manufacturer	EPE	Impeller Diameter	Max. mm 80
12	Speed 1/min	2800		Designed mm 80
13	No. of Stage	1		Min. mm 80
14	Connection Suction side	Strainer	Flow	Operating l/min
15	Connection Discharge side	UNI ISO 228		Max- l/min 150
16	Max Working Pressure kPa			Min- l/min 20
17	Shut-off head kPa	74.26	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 1.5
19	Shaft power kW			- (Qmin.) m 7.1
20			Max. Shaft Power at max. impeller	kW
21	Required pump NPSH m		Efficiency	%

Materials

22	Impeller	PPE+PS glass fiber reinforced	
23	Casing	AISI 304	
24	Shaft	AISI 303+AISI 303 ceramic coated shaft sleeve	
25			
26			
27			

Motor

28	Manufacturer	EPE Standard	Insulation class	F
29	Type	OPTIMA M_230_Single Phase	Phases	1~
30	Specific design	Submersible dry type / 50 Hz / Pole pairs 1	Frame size	
31	Rated power kW	0.25	Weight	kg 0
32	Number of poles	2	Electric voltage	V 230
33	Speed 1/min	2800	Electric current	A 1.9
34	Degree of protection	IP 68		
35				

Remarks

Performance curve Pump name OPTIMA M

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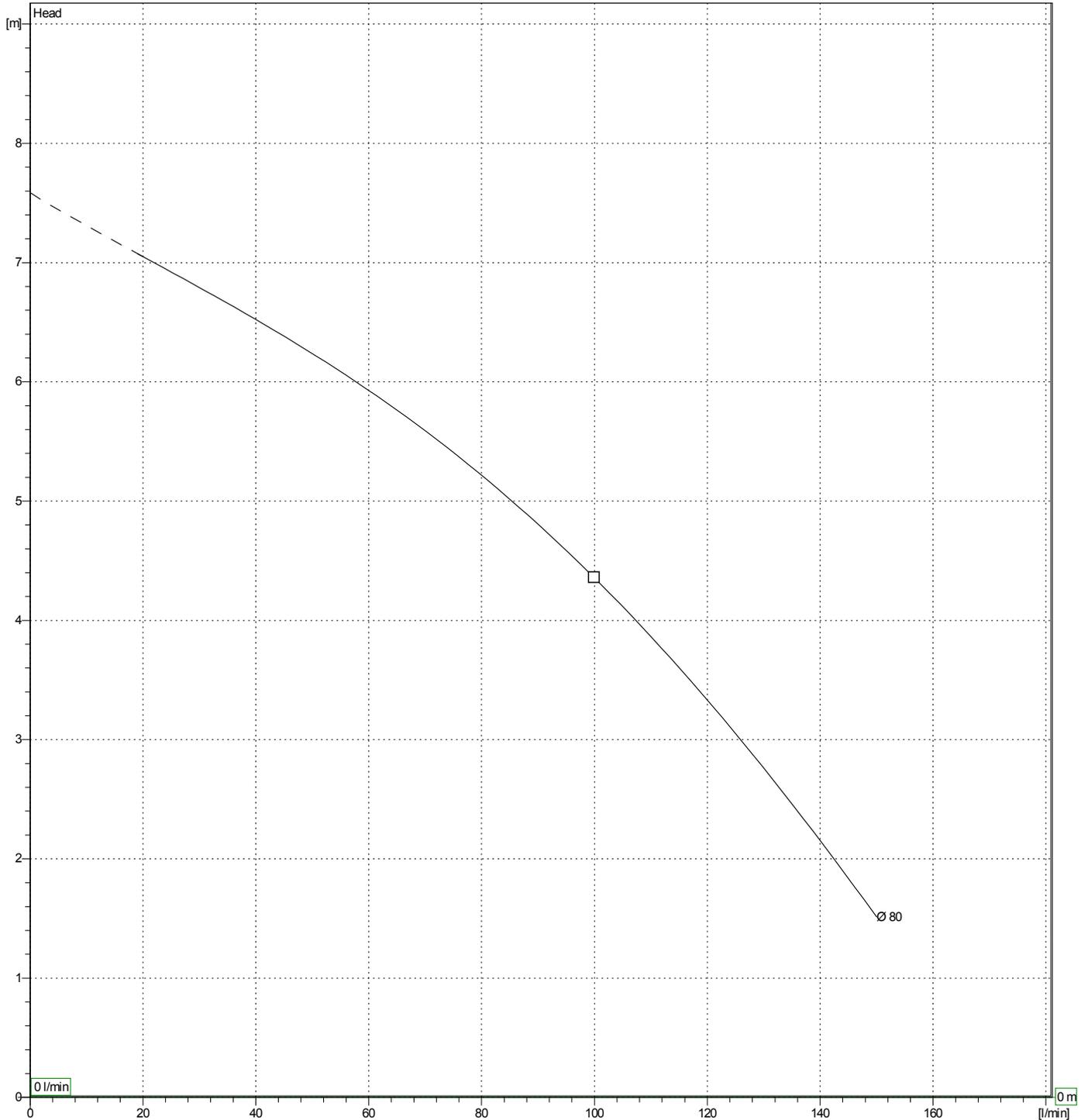
1	Flow	l/min	0
2	Head	m	0
3	Geodetic head	m	0

Pump

Operating Flow	l/min	Frequency	Hz	50
Operating Head	m	Number of poles	2	
Impeller Diameter	Designed mm	80	Speed	1/min

Test standard: ISO 9906:2012 - Grade3B

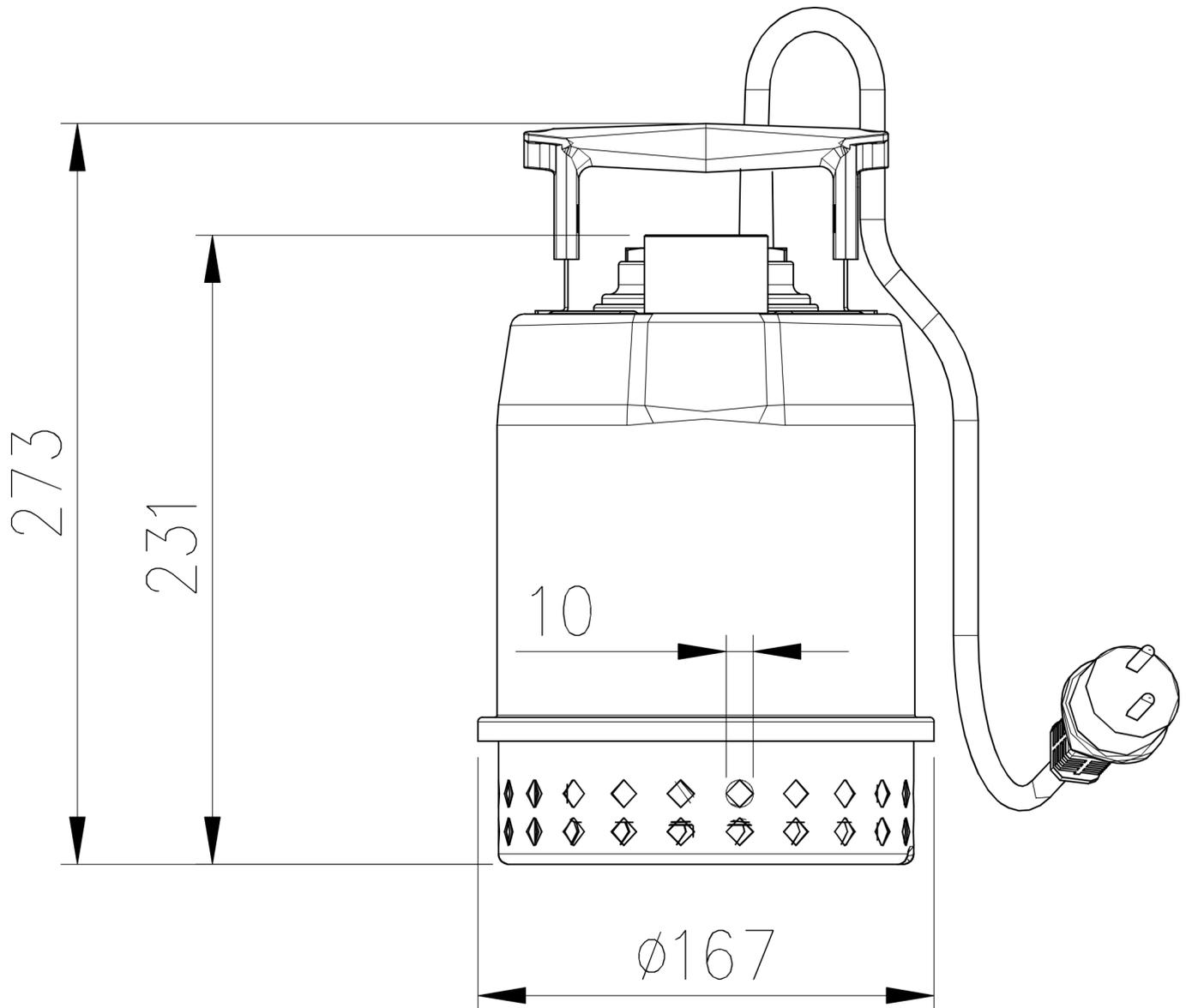
Water, clean [100%] ; 293K; 998.3kg/m³; 1mm²/s



Dimensions

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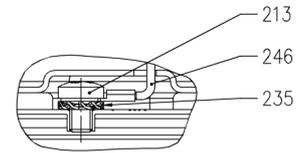
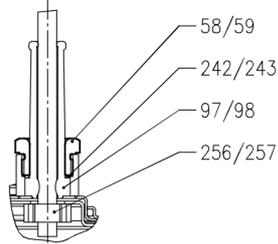


Dimensions in		mm					
1	Weight PUMP	4.2 kg					

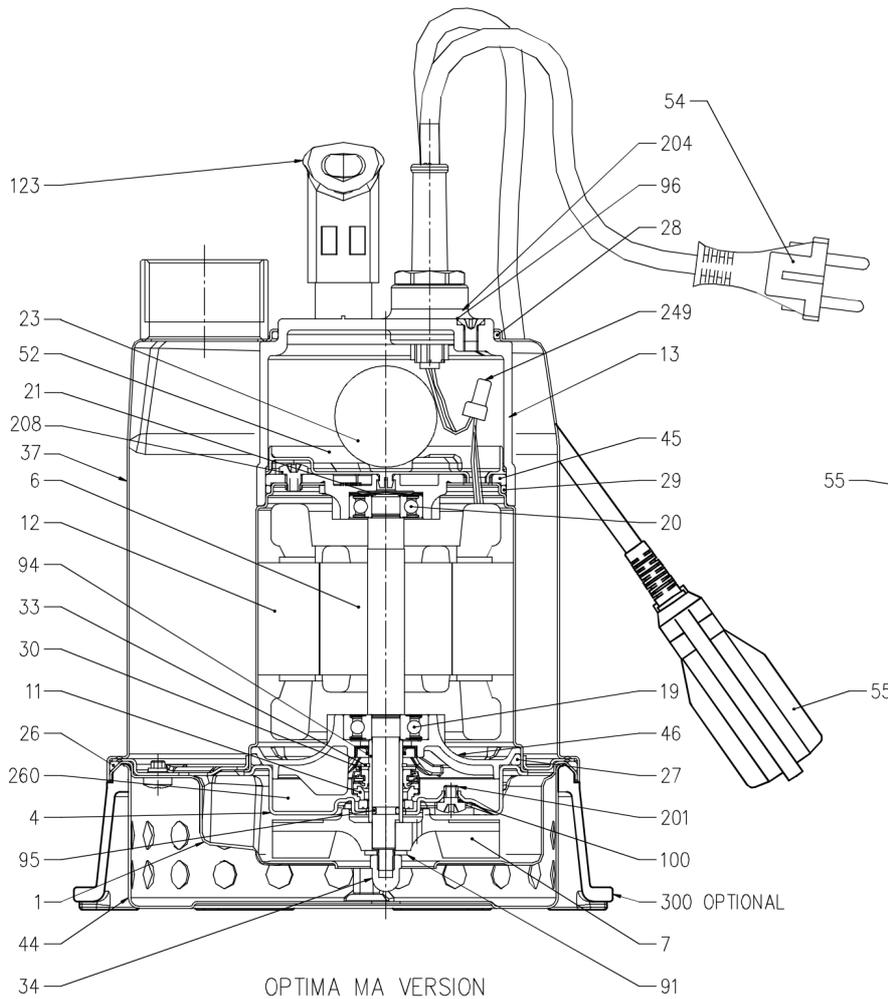
(1/4) Construction

Pump name OPTIMA M

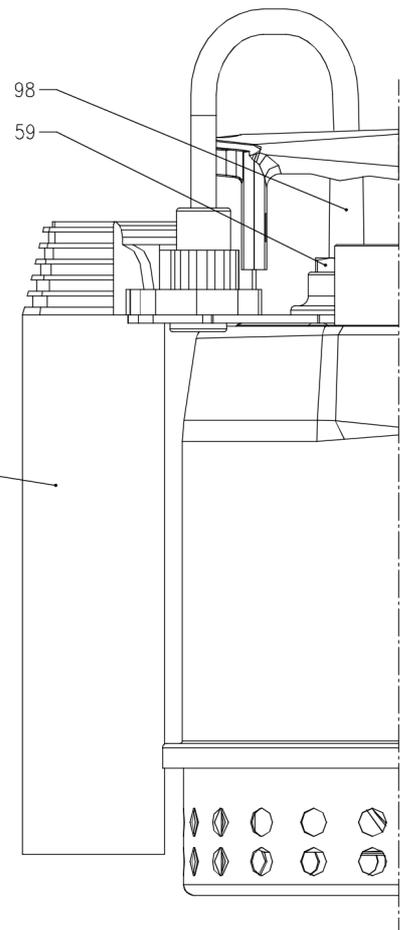
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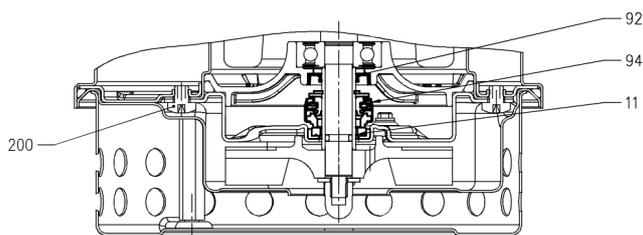
GROUND WIRE



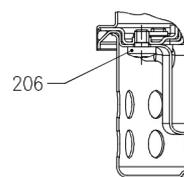
OPTIMA MA VERSION



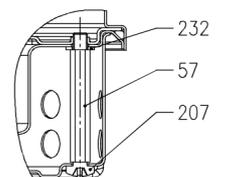
OPTIMA MS VERSION



MOTOR FIXING



SUCTION COVER FIXING



STRAINER FIXING

(2/4)**Construction**Pump name **OPTIMA M**

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N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
1	Suction cover	EN 1.4301 (AISI 304)	-	-	1
4	Casing cover	EN 1.4301 (AISI 304)	-	-	1
6	Shaft with rotor	EN 1.4305 (AISI 303)	-	-	1
7	Impeller	PPE+PS-HI-GF20	-	-	1
11	Mechanical seal [1]	[1]	[1]	-	1
12	Motor frame with stator	EN 1.4301 (AISI 304)	-	-	1
13	Motor cover	PP-GF30 class V-0	-	-	1
19	Lower ball bearing	-	-	-	1
20	Upper ball bearing	-	-	-	1
21	Adjusting ring	-	-	-	1
23	Capacitor	-	-	-	1
26	O-ring	NBR	159,5x3	-	1
27	O-ring	NBR	88,5x3,53	-	1
28	O-ring	NBR	75,87x2,62	-	1
29	O-ring	NBR	75,87x2,62	-	1
30	Washer	EN 1.4301 (AISI 304)	12x21x1	-	1
33	Seeger ring	Carbon steel TC80	12	UNI 7435	1
34	Impeller nut	A2 - 70 UNI 7323	M6	UNI 5721	1
37	Outer casing	EN 1.4301 (AISI 304)	-	-	1
44	Strainer	EN 1.4301 (AISI 304)	-	-	1
45	Upper bearing housing	EN 1706 AC-46000 D	-	-	1
46	Lower bearing housing	EN 1706 AC-46000 D	-	-	1
52	Terminal insulating base	PA6 class V-0	-	-	1
54	Power cable	-	-	-	1
55	Switch [2] [3]	-	-	-	1
57	Spacer	EN 1.4301 (AISI 304)	-	-	2
58	Power cable connector	PA66-GF30	-	-	1
59	Switch cable connector [2]	PA66-GF30	-	-	1
91	Washer	EN 1.4301 (AISI 304)	-	-	1
92	Lip seal	NBR	22x12x4	-	1
94	Shaft sleeve	EN 1.4305 (AISI 303) ceramic coated	-	-	1
95	O-ring	NBR	6,07x1,78	-	1
96	O-ring	NBR	4,48x1,78	-	1
97	Power cable boot	NBR	-	-	1
98	Switch cable boot [2]	NBR	-	-	1
100	O-ring	NBR	4,48x1,78	-	1
123	Handle	PP	-	-	1
200	Screw	A2 - 70 UNI 7323	M5x6	UNI 7687	4
201	Screw	A2 - 70 UNI 7323	M5x6	UNI 7687	1
204	Screw	A2 - 70 UNI 7323	M5x6	UNI 7687	1
206	Screw	A2 - 70 UNI 7323	M5x6	UNI 7687	3
207	Screw	A2 - 70 UNI 7323	M5x6	UNI 7687	2
208	Screw	A2 - 70 UNI 7323	M5x6	UNI 7687	3
213	Screw	A2 - 70 UNI 7323	M4x6	UNI 7687	1
232	Washer	PA6	5,5x10x1	-	2
235	Washer	Zinked Steel	4	UNI 8842	1
242	Washer	EN 1.4301 (AISI 304)	13,4x15,9x1	-	1
243	Washer [2]	EN 1.4301 (AISI 304)	13,4x15,9x1	-	1
246	Ground wire	-	-	-	1
249	Cap Terminal	-	-	-	4
256	Cable holder	-	-	-	1
257	Cable holder [2]	-	-	-	1
260	Oil	Esso Marcol 152	-	-	40 cc
300	Minimum suction system [4]	Thermoplastic elastomer vulcanizate	-	-	-

[1] See CONSTRUCTION 4

[2] Only for automatic version

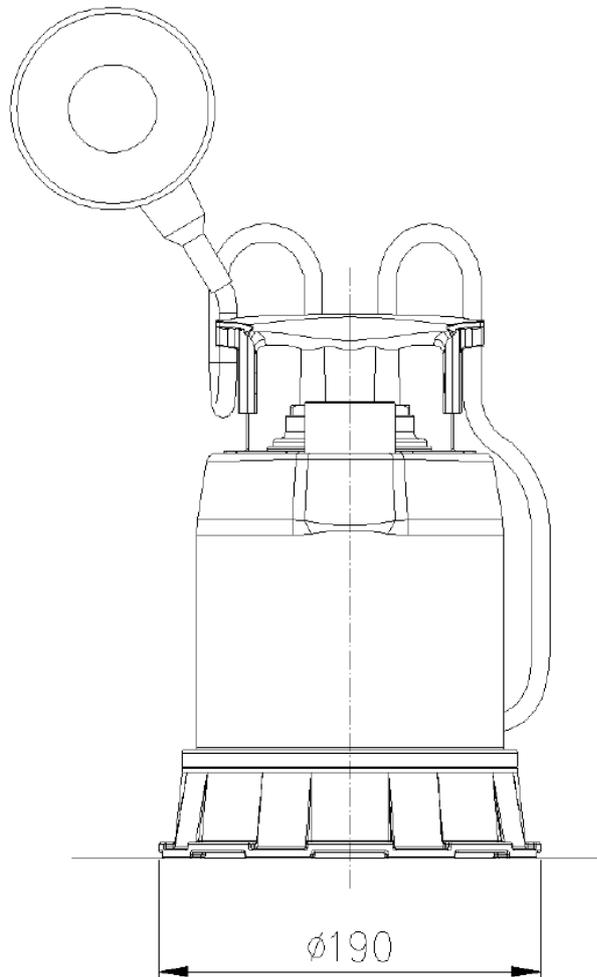
[3] It could be floating or magnetic type

[4] See CONSTRUCTION 3

(3/4) Construction

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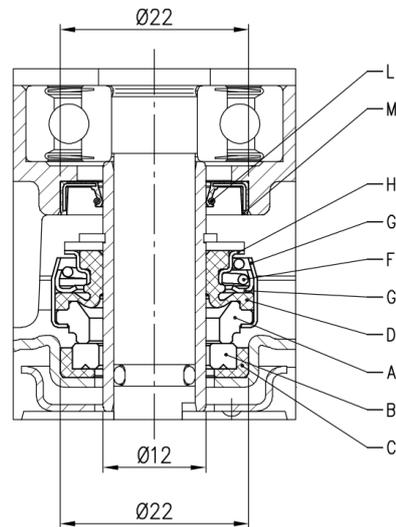
LEVEL	
Minimum starting suction level	10 mm
Minimum suction level capability	3 mm

COMPATIBILITY			
Type pumps	Version		
	M	MA	MS
OPTIMA	✓	✓	x

(4/4) Construction

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REF	PART NAME	MATERIAL Standard version
A	Rotary seal ring	Carbon graphite
B	Stationary seal ring	Ceramic
C	Gasket	NBR
D	Bellows	NBR
F	Self driving spring	EN 1.4301 (AISI 304)
G	Frame	EN 1.4301 (AISI 304)
H	Retainer ring	EN 1.4301 (AISI 304)
L	Spring	EN 1.4318 (AISI 302)
M	Lip	NBR