

# Technical data

Pump name

BEST ONE VOX

Customer	Date	2021-05-13	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
2	Number of pumps / Reserve	1 / 0		Liquid temperature	°C	20
3	Flow	m³/h		Kin. viscosity	cSt	1.005
4	Head	m		Vapour pressure	kPa	2.34
5	Geodetic head	m		PH value		
6	Inlet pressure (pin)	kPa	0	Density	kg/m³	998.3
7	Available system NPSH			Solids	Weight %	0
8	Ambient temperature	°C	20			

## Pump

9	Pump name		BEST ONE VOX	Frequency	Hz	50	
10	Design		SUBMERSIBLE SUMP PUMPS	Installation type		Without switch (STANDARD)	
11	Manufacturer		EBARA	Impeller Diameter	Max.	mm 85	
12	Speed	rpm	2800		Designed	mm	85
13	No. of Stage		1		Min.	mm	85
14	Connection Suction side		Strainer	Flow	Operating	m³/h	
15	Connection Discharge side		UNI ISO 228		Max-	m³/h	10.2
16	Max Working Pressure	kPa			Min-	m³/h	1.2
17	Shut-off head	kPa	63.61	Head	Operating	m	
18	Total weight	kg	See the table of "Dimensions".		- (Qmax.)	m	1.5
19	Shaft power	kW			- (Qmin.)	m	6.0
20				Max. Shaft Power at max. impeller	kW		
21	Required pump NPSH	m		Efficiency	%		

## Materials

22	Impeller		AISI 304			
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		BEST ONE VOX_400_Three Phase	Phases		3~
30	Specific design		Submersible dry type / 50 Hz / Pole pairs 1	Frame size		
31	Rated power	kW	0.25	Weight	kg	
32	Number of poles		2	Electric voltage	V	400
33	Speed	rpm	2800	Electric current	A	0.8
34	Degree of protection		IP 68			
35						

## Remarks

# Performance curve

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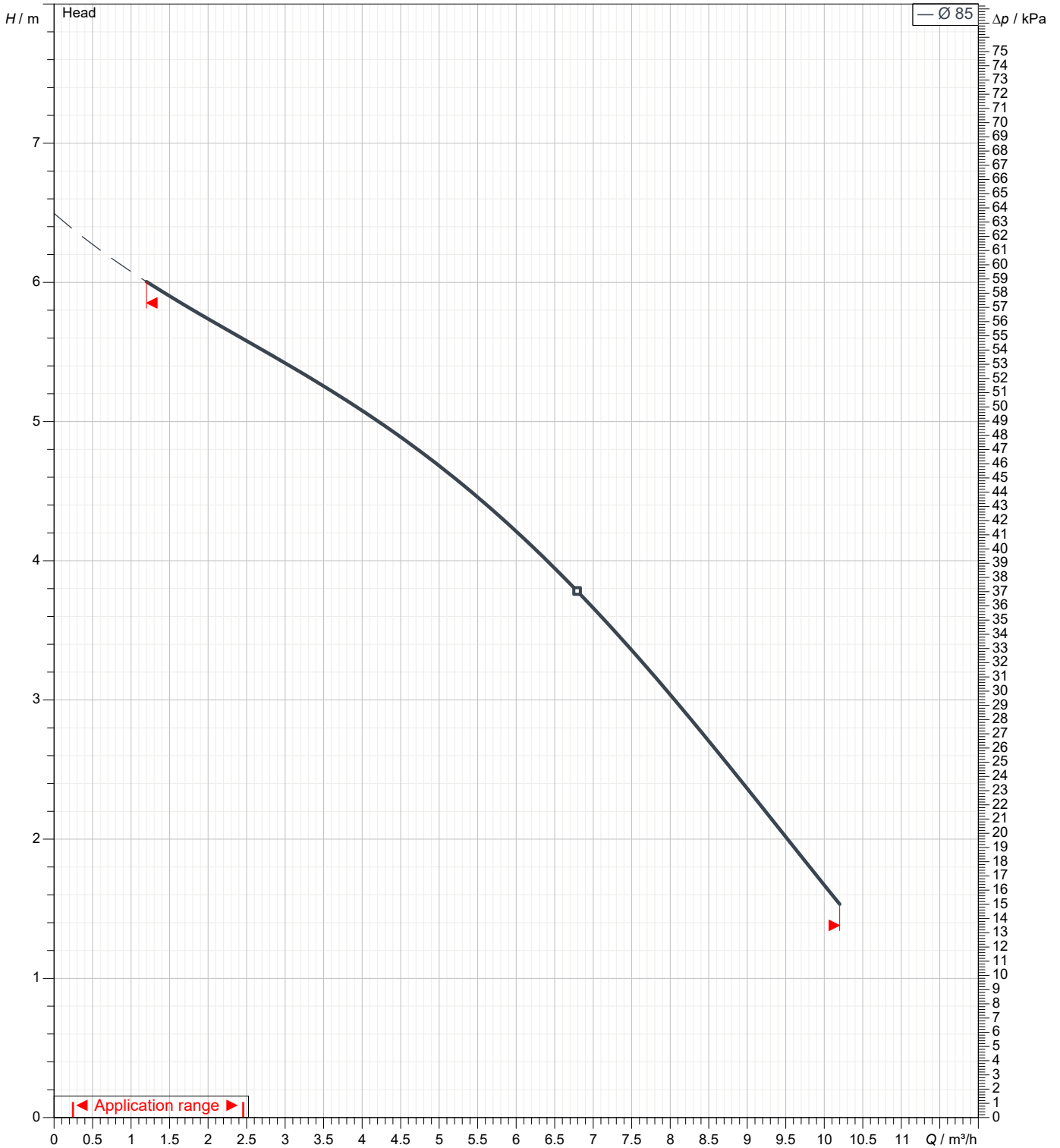
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

## Pump

Operating Flow	m³/h	Frequency	Hz	50
Operating Head	m	Number of poles	2	
Impeller Diameter Designed	mm	Speed	rpm	2800

Test standard: ISO 9906:2012 - Grade3B

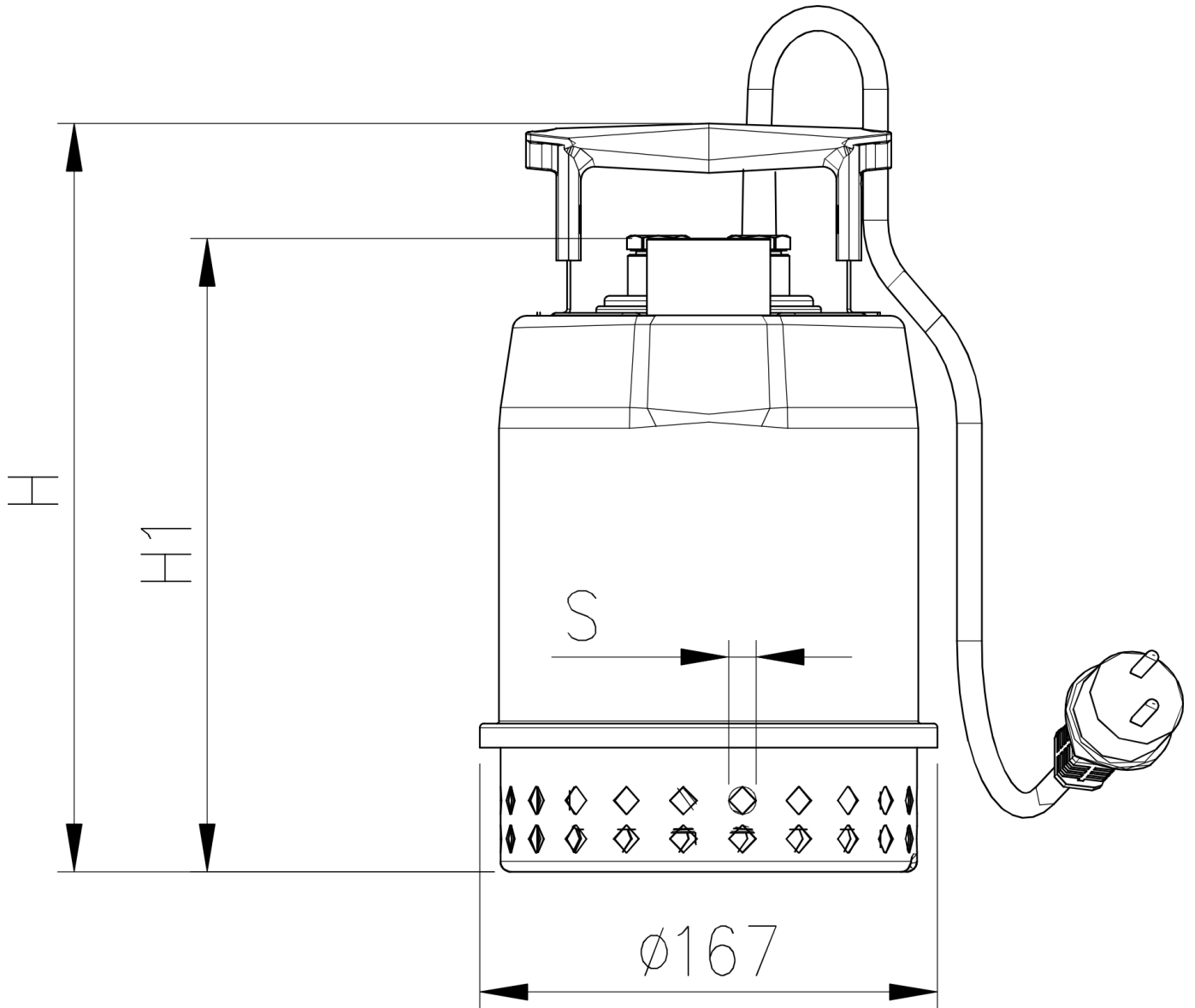
Water; 20°C; 998.3kg/m³; 1cSt



# Dimensions

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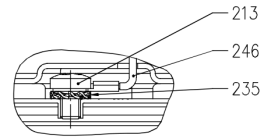
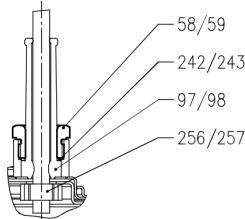
Dimensions in		mm						
1	H	304						
2	H1	262						
3	S	20						
4	Weight PUMP	4.4 kg						
5								
6								
7								
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15								

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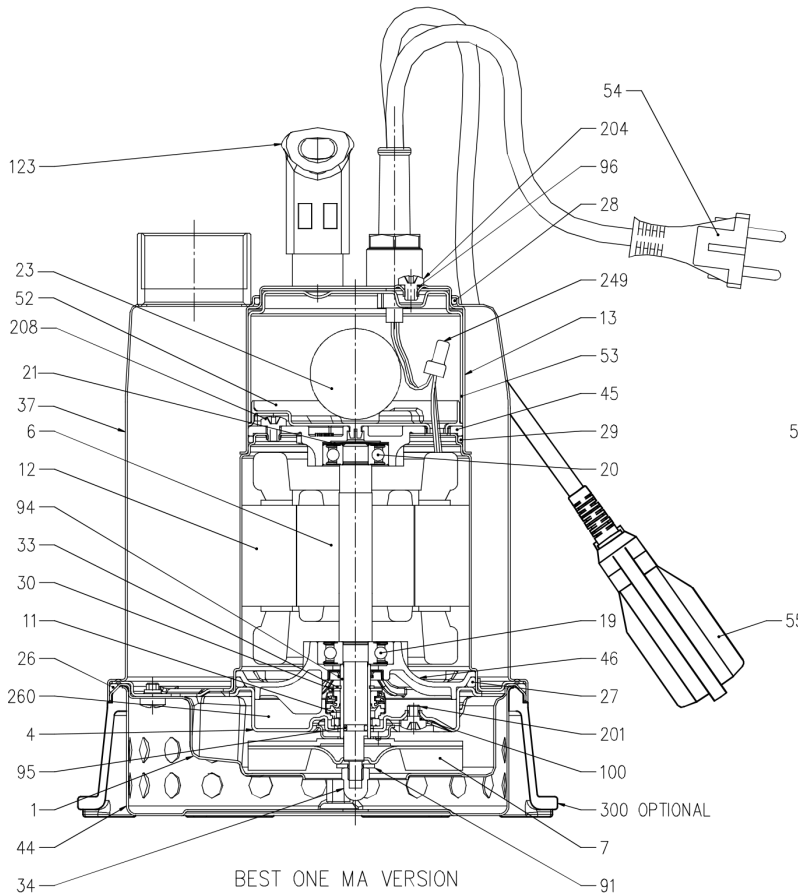
# Construction

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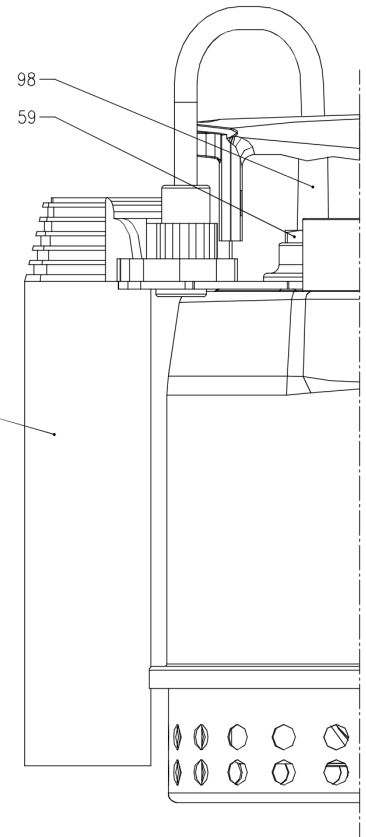
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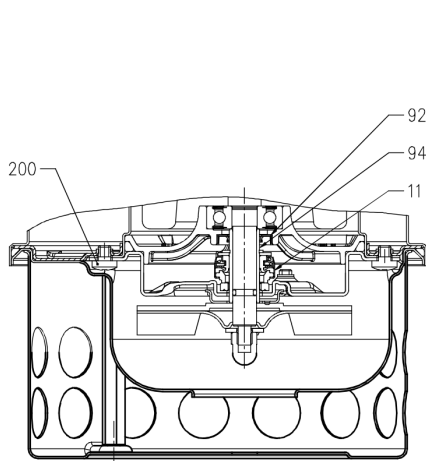
GROUND WIRE



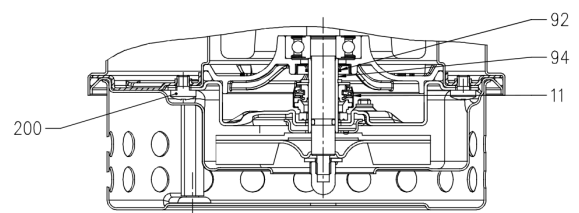
BEST ONE MA VERSION



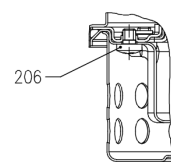
BEST ONE MS VERSION



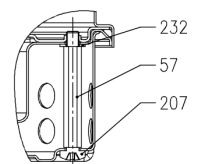
VOX VERSION



MOTOR FIXING



SUCTION COVER FIXING



STRAINER FIXING

**(2/4)****Construction****Pump name BEST ONE VOX**

Customer	Date	2021-05-13	Company
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N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
1	Suction cover	EN 14301(AISI 304)	-	-	1
4	Casing cover	EN 14301(AISI 304)	-	-	1
6	Shaft with rotor	EN 14305 (AISI 303)	-	-	1
7	Impeller	EN 14301(AISI 304)	-	-	1
11	Mechanical seal [1]	[1]	[1]	-	1
12	Motor frame with stator	EN 14301(AISI 304)	-	-	1
13	Motor cover	EN 14301(AISI 304)	-	-	1
19	Lower ball bearing	-	-	-	1
20	Upper ball bearing	-	-	-	1
21	Adjusting ring	-	-	-	1
23	Capacitor [2]	-	-	-	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 14301(AISI 304)	12x21x1	-	1
33	Seeger ring	Carbon steel TC80	12	UNI 7435	1
34	Impeller nut	A2 - 70 UNI 7323	M 6	UNI 5721	1
37	Pump casing	EN 14301(AISI 304)	-	-	1
44	Strainer	EN 14301(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	PA 6 class V-0	-	-	1
53	Terminal insulating box	PA 6 class V-0	-	-	1
54	Power cable	-	-	-	1
55	Switch [3] [4]	-	-	-	1
57	Spacer	EN 14301(AISI 304)	-	-	2
58	Power cable connector	OT 58 UNI 5705-65 Nickel-plated Brass	-	-	1
59	Switch cable connector [3]	OT 58 UNI 5705-65 Nickel-plated Brass	-	-	1
91	Washer	EN 14301(AISI 304)	-	-	1
92	Lip seal	NBR	22x12x4	-	1
94	Shaft sleeve	EN 14305 (AISI 303) ceramic coated	-	-	1
95	O-ring	NBR	6.07x1.78	-	1
96	O-ring	NBR	4.48x1.78	-	1
97	Power cable connector	NBR	-	-	1
98	Switch cable connector [3]	NBR	-	-	1
100	O-ring	NBR	4.48x1.78	-	1
123	Handle	PP	-	-	1
200	Screw	A2 - 70 UNI 7323	M 5x6	UNI 7687	4
201	Screw	A2 - 70 UNI 7323	M 5x6	UNI 7687	1
204	Screw	A2 - 70 UNI 7323	M 5x6	UNI 7687	1
206	Screw	A2 - 70 UNI 7323	M 5x6	UNI 7687	3
207	Screw	A2 - 70 UNI 7323	M 5x6	UNI 7687	2
208	Screw	A2 - 70 UNI 7323	M 5x6	UNI 7687	3
213	Screw	A2 - 70 UNI 7323	M 4x6	UNI 7687	1
232	Washer	PA 6	5.5x10x1	-	1
235	Washer	Zinked Steel	4	UNI 8842	1
242	Washer	EN 14301(AISI 304)	13.4x15.9x1	-	1
243	Washer [3]	EN 14301(AISI 304)	13.4x15.9x1	-	1
246	Ground wire	-	-	-	1
249	Cap terminal	-	-	-	4
256	Strain relief	-	-	-	1
257	Strain relief [3]	-	-	-	1
260	Oil	Esso Marco 152	-	-	40 cc
300	Minimum suction system [5]	Thermo plastic elastomer vulcanizate	-	-	-

[1] See **CONSTRUCTION 4**

[2] Only for Single Phase

[3] Only for switch version

[4] It could be floating or magnetic type

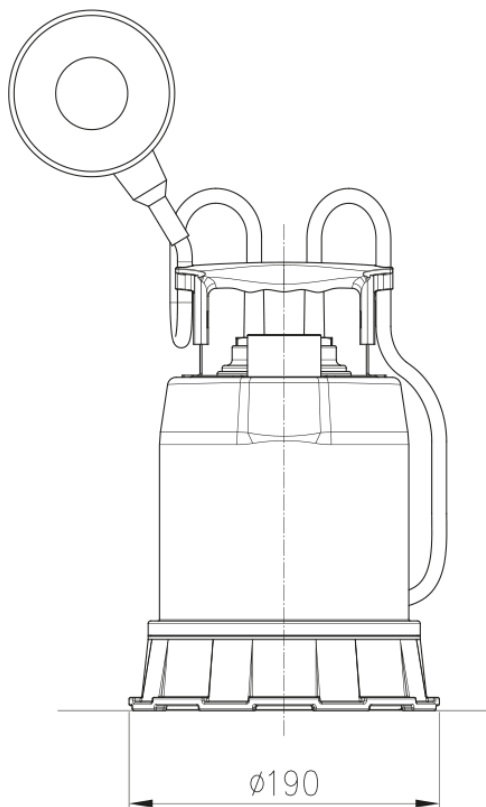
[5] See **CONSTRUCTION 3 (OPTIONAL)**

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

COMPATIBILITY				
Type pumps	Version			
	1~			3~
	M	MA	MS	
BEST ONE	✓	✓	✗	✓
BEST ONE VOX	✗	✗	-	✗

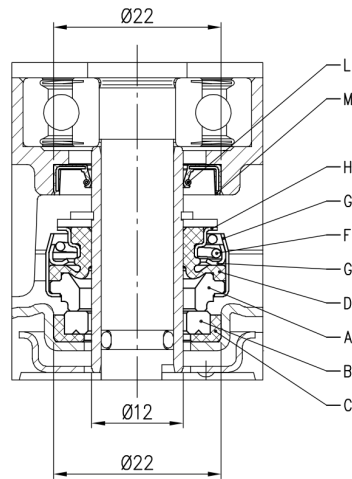
- ✓ Compatible
- ✗ Not compatible
- This model don't exist

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REF	PART NAME	MATERIAL
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