

Technical Data

Pump Name

BEST ONE M

Customer	Date 2022-10-31	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 mm²/s	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 M	Frequency Hz	50
10	Design	SUBMERSIBLE SUMP PUMPS	Installation type	Without switch (STANDARD)
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 85
12	Speed 1/min	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	87.96	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 1.8
19	Shaft power kW			- (Qmin.) m 8.4
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 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	
32	Number of poles	2	Electric voltage V	230
33	Speed 1/min	2800	Electric current A	2.3
34	Degree of protection	IP 68		
35				

Remarks

Performance Curve

Pump Name

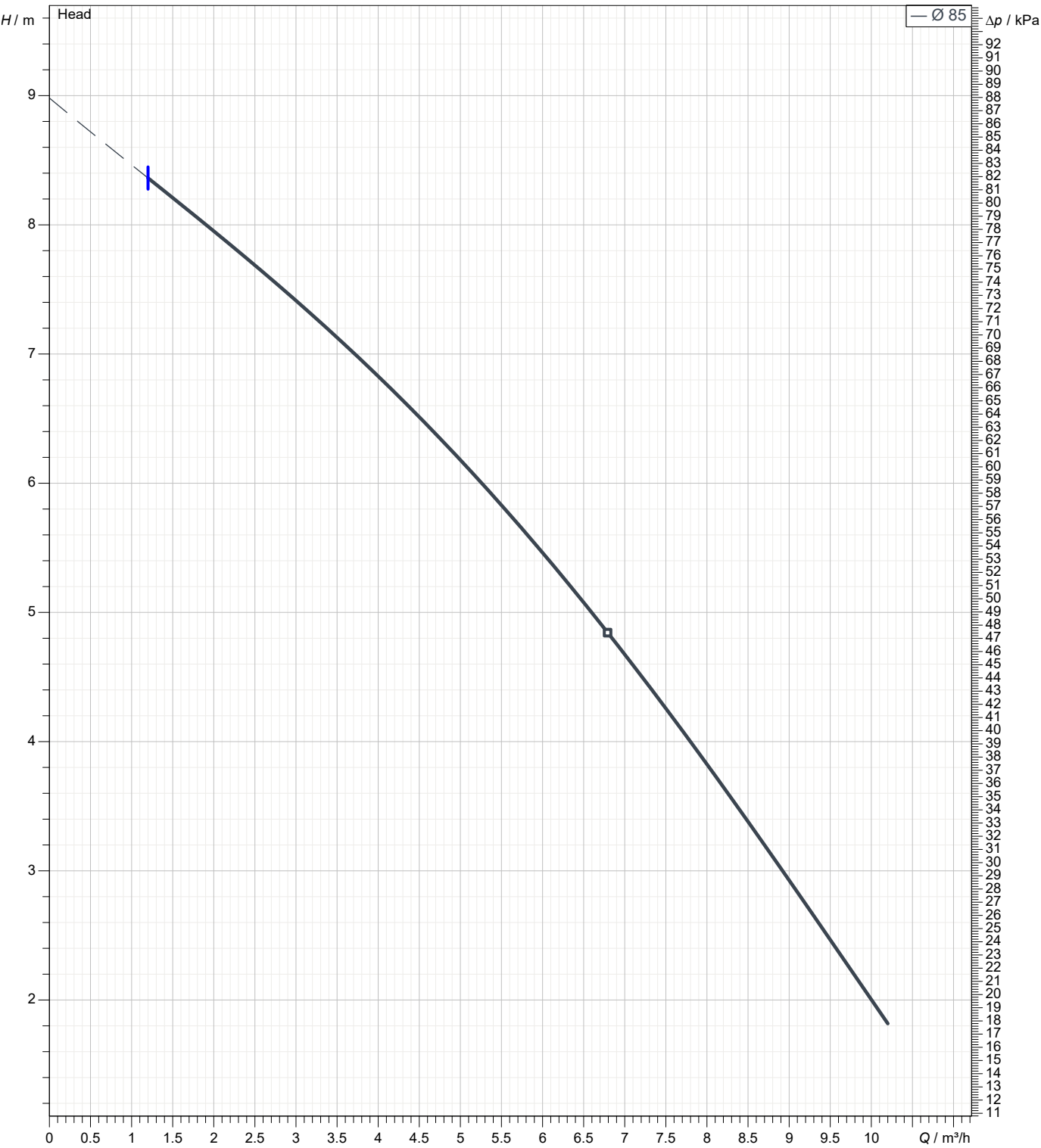
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Requested data			Pump			
1	Flow	m³/h	Operating Flow	m³/h	Frequency	Hz
2	Head	m	Operating Head	m	Number of poles	2
3	Geodetic head	m	Impeller diameter designed	mm	Speed	1/min
				85		2800

Test standard: ISO 9906:2012 - Grade3B

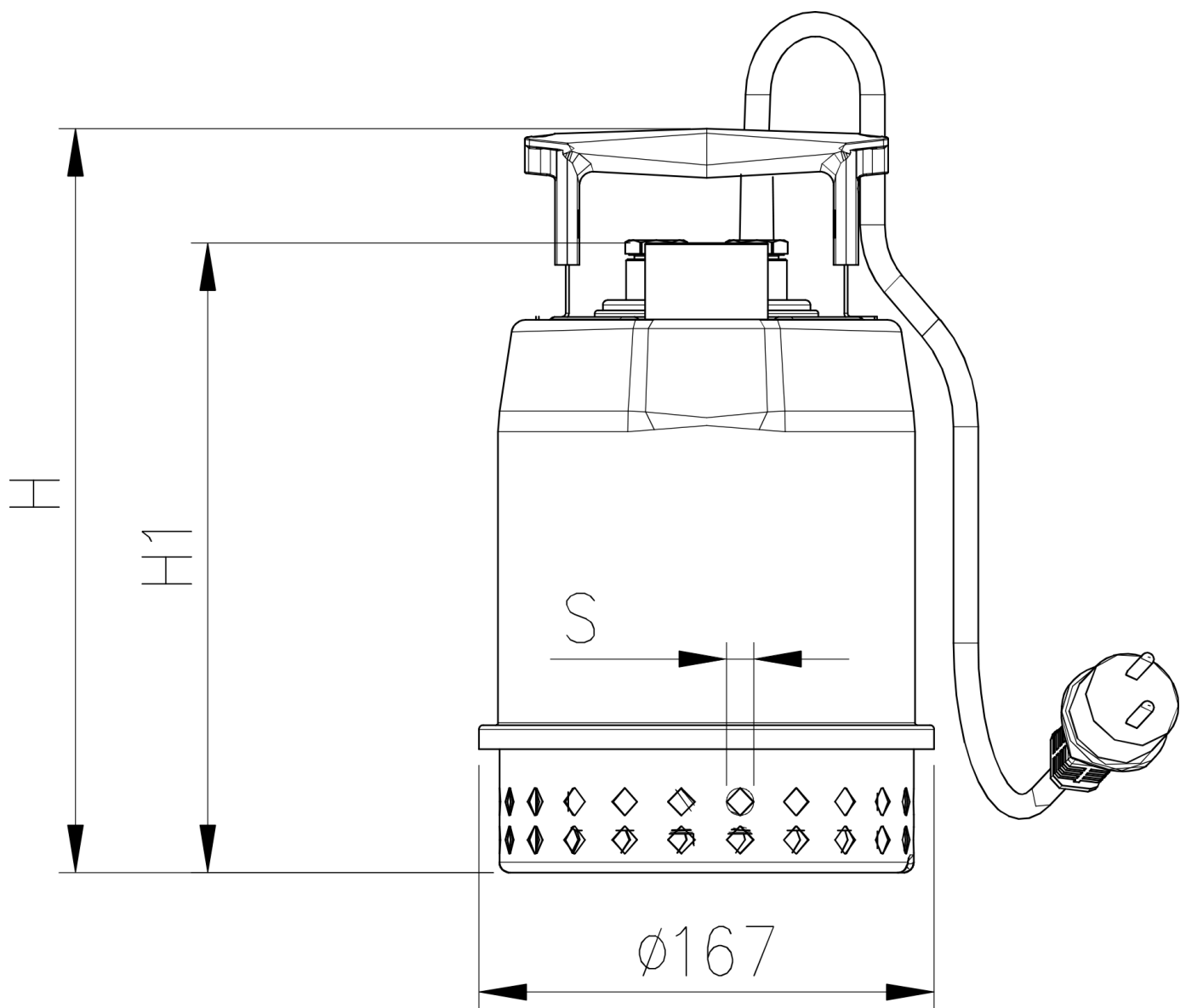
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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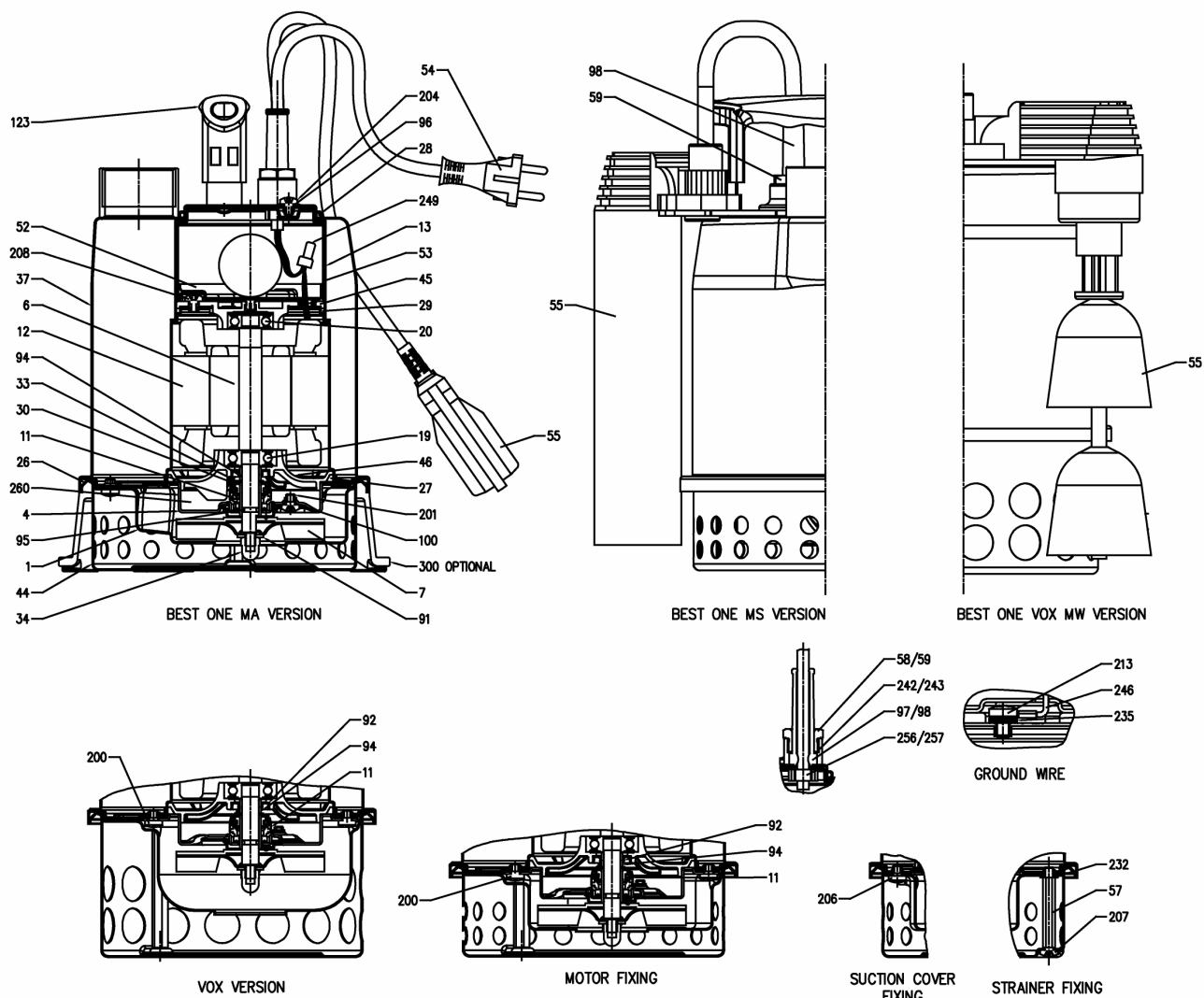


Dimensions in mm								
1	H	273						
2	H1	231						
3	S	10						
4	Weight PUMP	4,3 kg						
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

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Construction

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Construction

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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]	Thermoplastic elastomer vulcanizate	-	-	-

[1] See **CONSTRUCTION 4**

[2] Only for Single Phase

[3] Only for switch version

[4] It could be floating or magnetic type

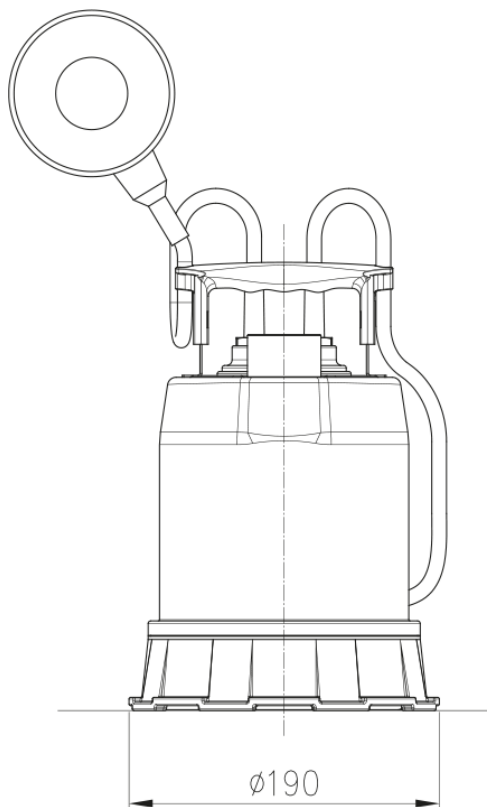
[5] See **CONSTRUCTION 3 (OPTIONAL)**

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

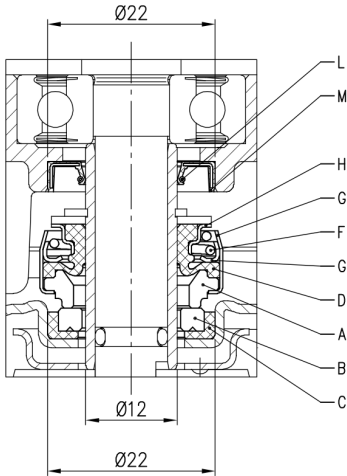
COMPATIBILITY				
Type pumps	Version			3~
	M	MA	MS	
BEST ONE	✓	✓	✗	✓
BEST ONE VOX	✗	✗	-	✗

- ✓ 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