



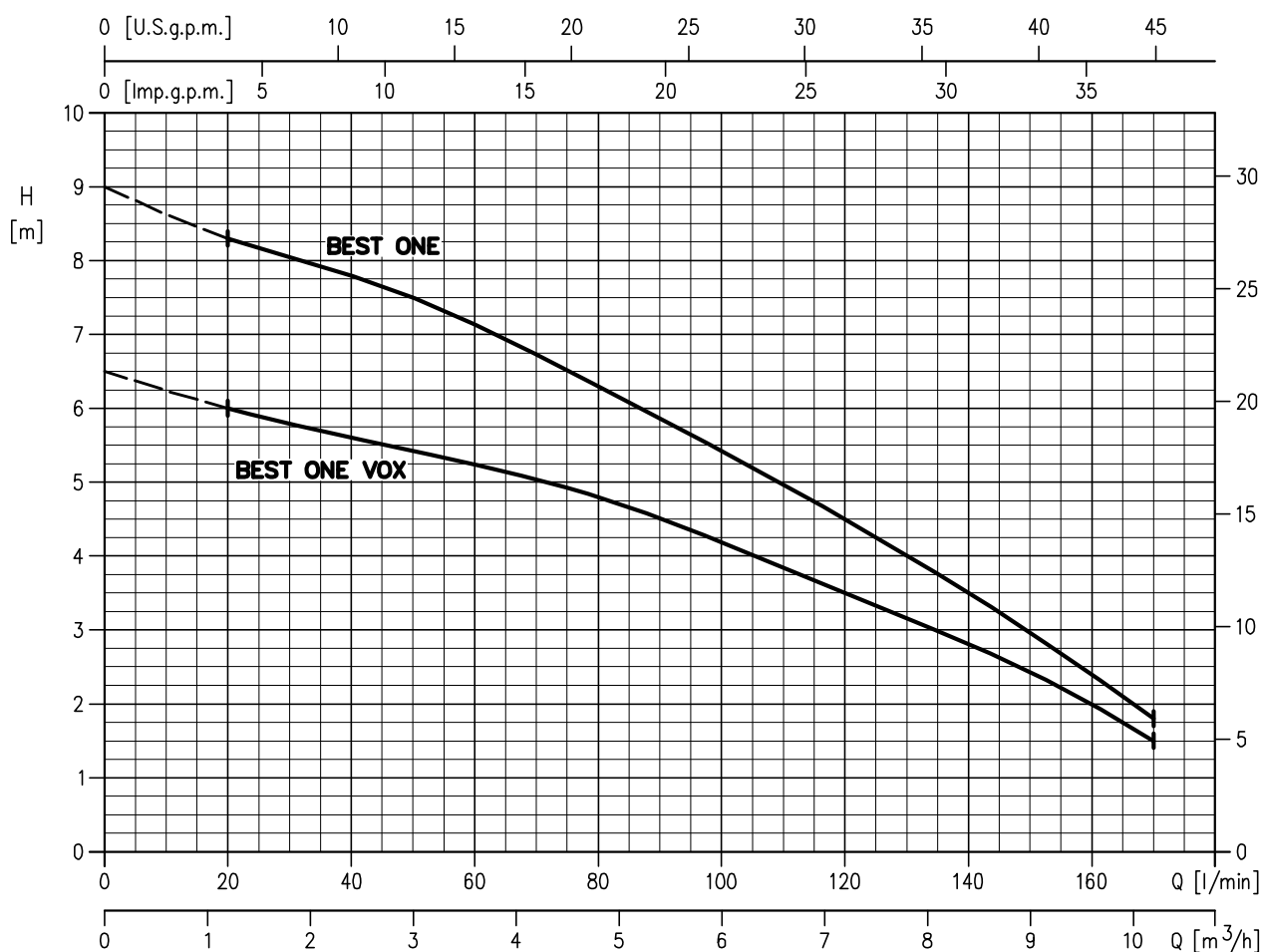
	Page
- SPECIFICATIONS	200
SELECTION CHART	201
TYPE KEY	202
CURVE SPECIFICATIONS	202
PERFORMANCE CURVE BEST ONE	203
PERFORMANCE CURVE BEST ONE VOX	204
- CONSTRUCTIONS	300
SECTIONAL VIEW DRAWING	300
SECTIONAL VIEW TABLE	301
BEARINGS	302
MECHANICAL SEAL	302
- DIMENSIONS AND WEIGHT	400
PUMP	400
PACKING	401
- TECHNICAL DATA	500
MOTOR DATA	500
- INSTALLATION	600
- OPTIONAL	700
MINIMUM SUCTION SYSTEM	700

SPECIFICATION
50Hz

Rev. N

PUMP		
Liquid Handled	Type of liquid	Clear water (Clean water for MS version)
	Max temperature [°C]	50
	Max solids size [mm]	10 20 (for Vortex version)
Maximum immersion [m]		2 (with power cable length 5 m) 5 (with power cable length 10 m)
Construction	Impeller	Semi-open centrifugal type (BEST ONE) Vortex type (BEST ONE VOX)
	Shaft seal type	Oil lubricated mechanical seal (pump side) + lip seal (motor side)
	Bearing	Sealed ball bearing
Pipe Connection	Suction	Strainer
	Discharge nozzle [inch]	G1¼": UNI ISO 228
Material	Pump casing	AISI 304
	Impeller	AISI 304
	Shaft seal	Mechanical seal: Ceramic/Carbon/NBR Lip seal: NBR
	Casing cover	AISI 304
	Shaft	AISI 303 + AISI 303 ceramic coated shaft sleeve
	Lubricating liquid	White mineral oil: Esso Marcol 152
Applicable standard of test		ISO 9906 – Annex A

MOTOR			
Type		Submersible dry type	
		Single Phase	Three Phase
No. of Poles		2	
Rotation speed [min ⁻¹]		≈2800	
Insulation Class		F	
Protection degree		IP 68	
Power rating	[kW]	0.25	
	[HP]	0.33	
Frequency [Hz]		50	
Voltage [V]		230 ±10%	400 ±10%
Capacitor		Built in	-
Over load protection		Built in	-
Casing material		AISI 304	
Switch	float	MA version (no maintenance required)	-
	magnetic	MS version (maintenance required)	-
Float/magnetic switch cable	material	H07RN-F	-
	size	3G1	-
Power cable	length [m]	5 (only for internal usage); 10	
	material	H05RN-F	H07RN-F
	size	3G0.75	4G1
Cable entry		Cable Gland	

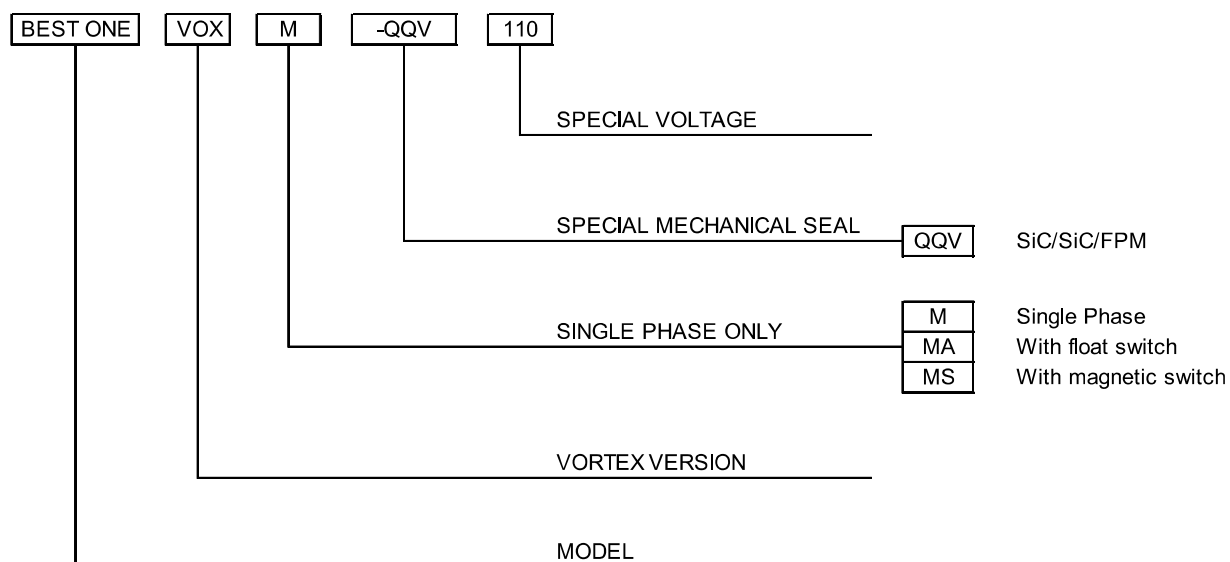


Pump Type		Power		Q=Capacity							
				l/min	0	20	40	80	120	160	170
Single Phase	Three Phase	[kW]	[HP]	m³/h	0	1,2	2,4	4,8	7,2	9,6	10,2
H=Total manometric head in meters											
BEST ONE M	BEST ONE	0,25	0,33	9,0	8,3	7,8	6,3	4,5	2,4	1,8	
BEST ONE VOX M	BEST ONE VOX	0,25	0,33	6,5	6,0	5,6	4,8	3,5	2,0	1,5	

PERFORMANCE CURVE

50Hz

Rev. N

TYPE KEY:**PERFORMANCE CURVE SPECIFICATIONS**

The specifications below qualify the curves shown on the following pages.

Tolerances according to ISO 9906 Annex A

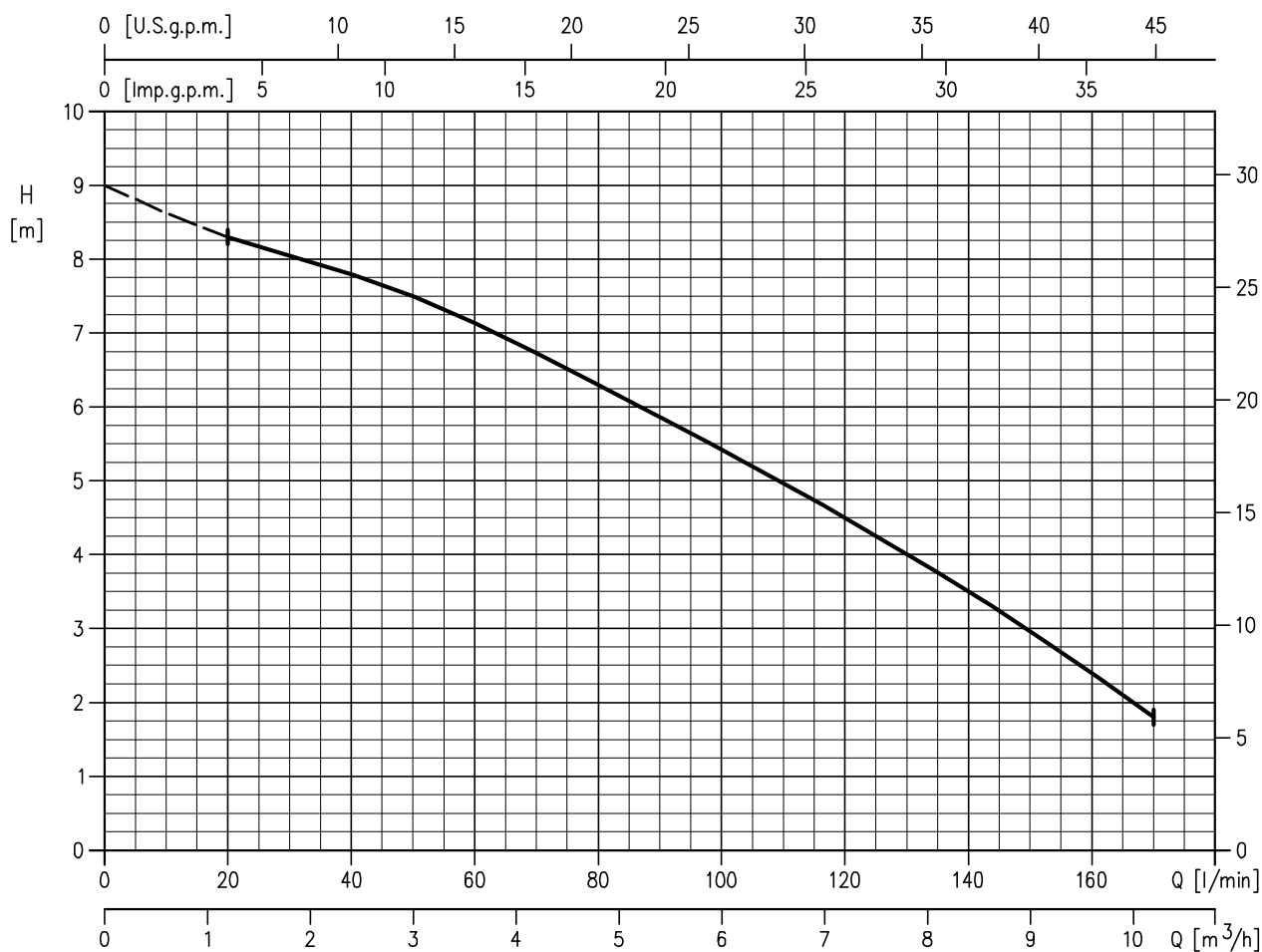
The curves refer to effective speed of asynchronous motors at 50 Hz

Measurements were carried out with clean water at 20°C of temperature and with a kinematic viscosity of $\nu = 1 \text{ mm}^2/\text{s}$ (1 cSt)

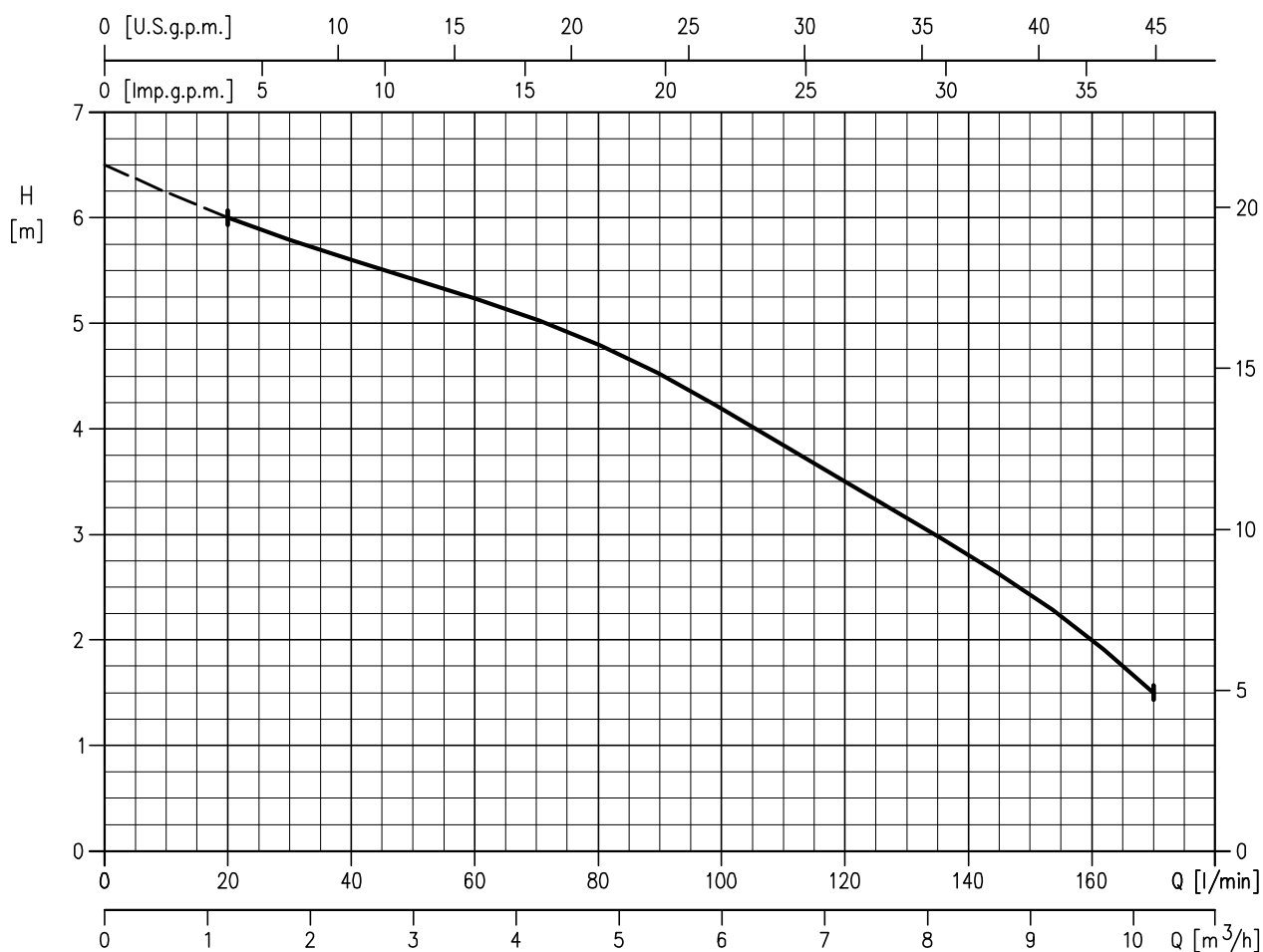
In order to avoid the risk of over-heating, the pumps should not be used at a flow rate below 10% of best efficiency point.

Symbols explanation:

Q = volume flow rate
H = total head

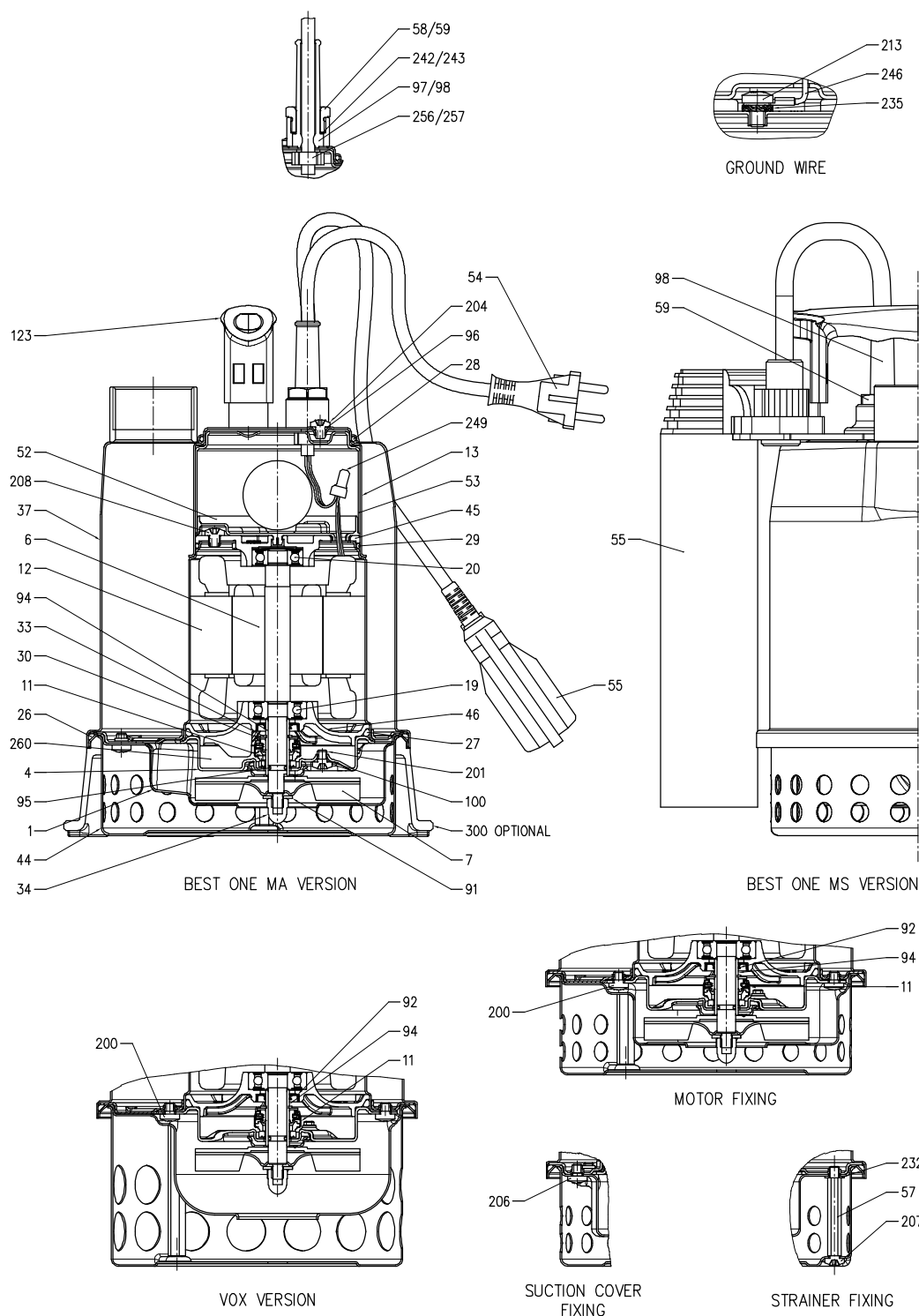
BEST ONE (0.25 kW) – impeller diameter = 85 mm

Rotation speed $\approx 2800 \text{ min}^{-1}$
Test standard: ISO 9906 – Annex A

BEST ONE VOX (0.25 kW) – impeller diameter = 85 mm

Rotation speed $\approx 2800 \text{ min}^{-1}$
Test standard: ISO 9906 – Annex A

SECTIONAL VIEW DRAWING



SECTIONAL VIEW TABLE

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)	12x2x1	-	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
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 pag. 302

[2] Only for single phase

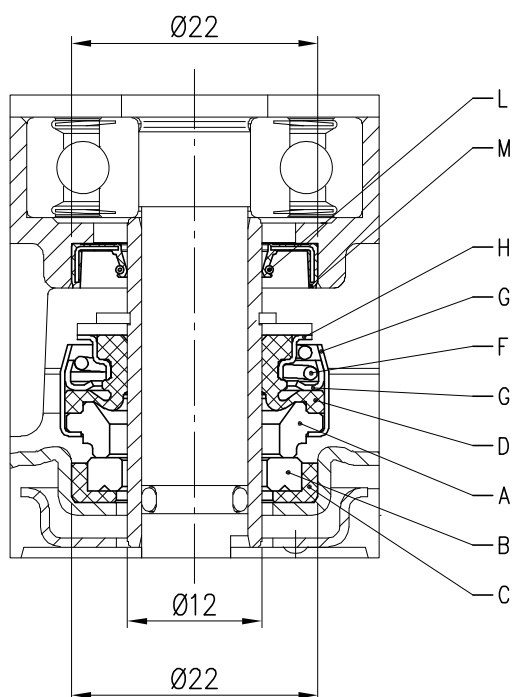
[3] Only for automatic version

[4] It could be floating or magnetic type

[5] OPTIONAL See pag.700

BEARINGS

Type pumps		Ball Bearing	
Single Phase	Three Phase	Lower side	Upper side
BEST ONE M	BEST ONE	6200 ZZ C3	6000 ZZ C3

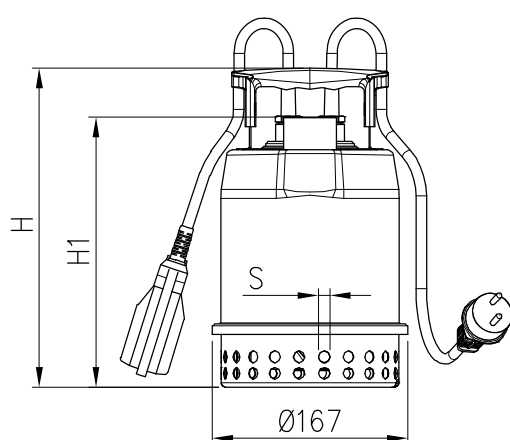
MECHANICAL SEAL

REF	PART NAME	MATERIAL product standard	MATERIAL optional
A	Rotary seal ring	Carbon graphite	SiC
B	Stationary seal ring	Ceramic	SiC - Q6 (*)
C	Gasket	NBR	FPM
D	Bellows	NBR	FPM
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	

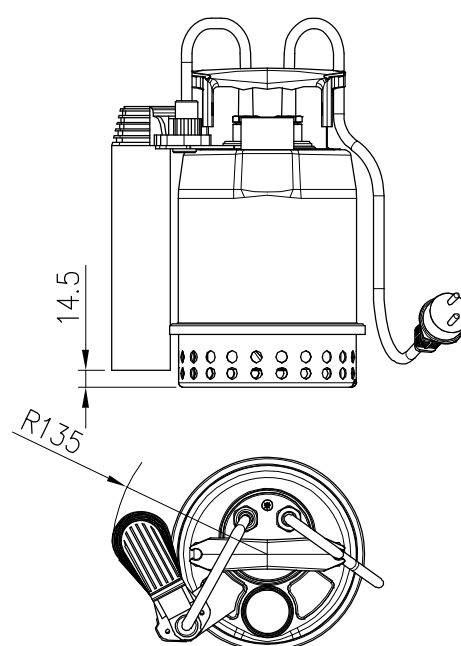
(*) Special grade of SiC with microporosities filled with graphite

PUMP

BEST ONE MA
BEST ONE VOX MA

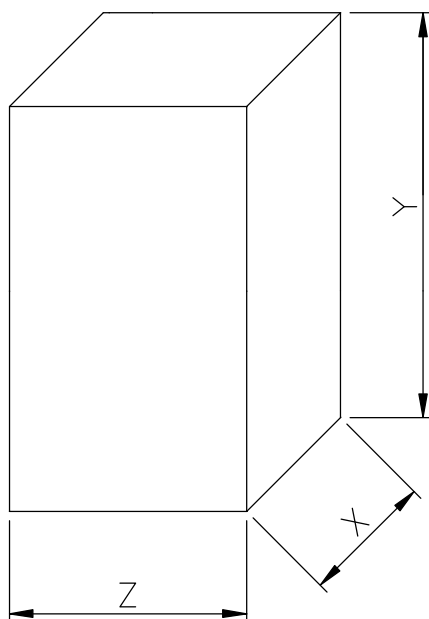


BEST ONE MS



Pump Type	Dimensions [mm]			Weight [kgf]
	H	H1	S	
BEST ONE	273	231	10	4,3
BEST ONE M				4,4
BEST ONE MA				4,6
BEST ONE MS				4,8
BEST ONE VOX	304	262	20	4,4
BEST ONE VOX M				4,5
BEST ONE VOX MA				4,7

PACKING



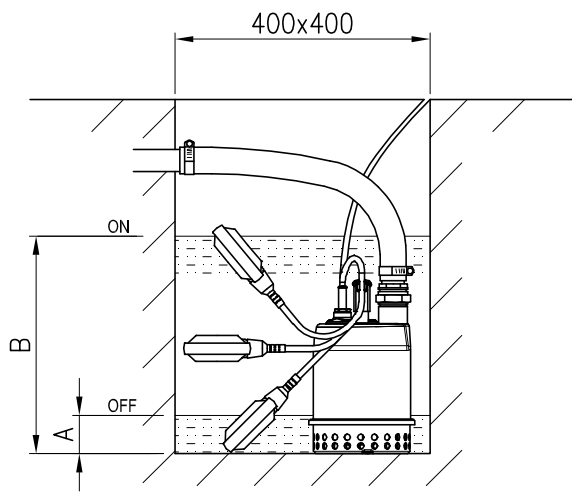
Pump Type	Dimensions [mm]			Weight [kgf]
	X	Y	Z	
BEST ONE	180	330	220	4,8
BEST ONE M				4,9
BEST ONE MA				5,1
BEST ONE MS				5,3
BEST ONE VOX				4,9
BEST ONE VOX M				5,0
BEST ONE VOX MA				5,2

MOTOR DATA

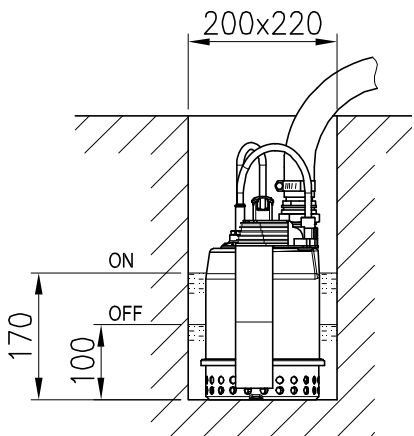
Pump Type		Power		Capacitor Single Phase		Input [kW]		Full load current [A]		Locked rotor current [A]	
Single Phase	Three Phase	[kW]	[HP]	µF	[Vc]	Single Phase	Three Phase	Single Phase	Three Phase	Single Phase	Three Phase
BEST ONE M	BEST ONE	0,25	0,33	8	450	0,51	0,47	2,3	0,8	5,8	2,7
BEST ONE VOX M	BEST ONE VOX	0,25	0,33	8	450	0,50	0,44	2,2	0,8	5,6	2,7

INSTALLATION

BEST ONE MA
BEST ONE VOX MA

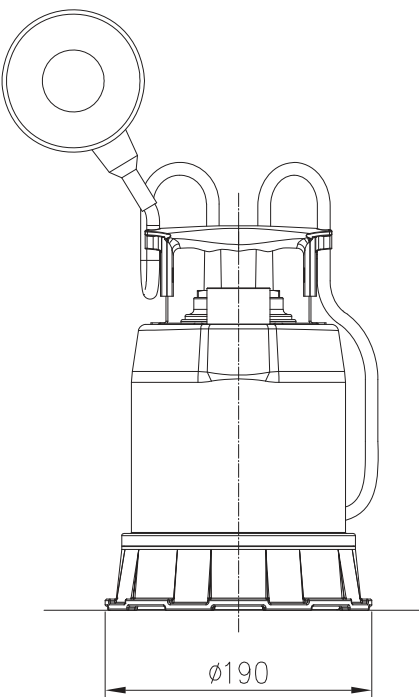


BEST ONE MS



Pump Type	A	B
BEST ONE MA	110	305
BEST ONE VOX MA		330

MINIMUM SUCTION SYSTEM



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	☐	☐	☐	☐

