

EBARA

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SPECIFICATION

50Hz

Rev. G

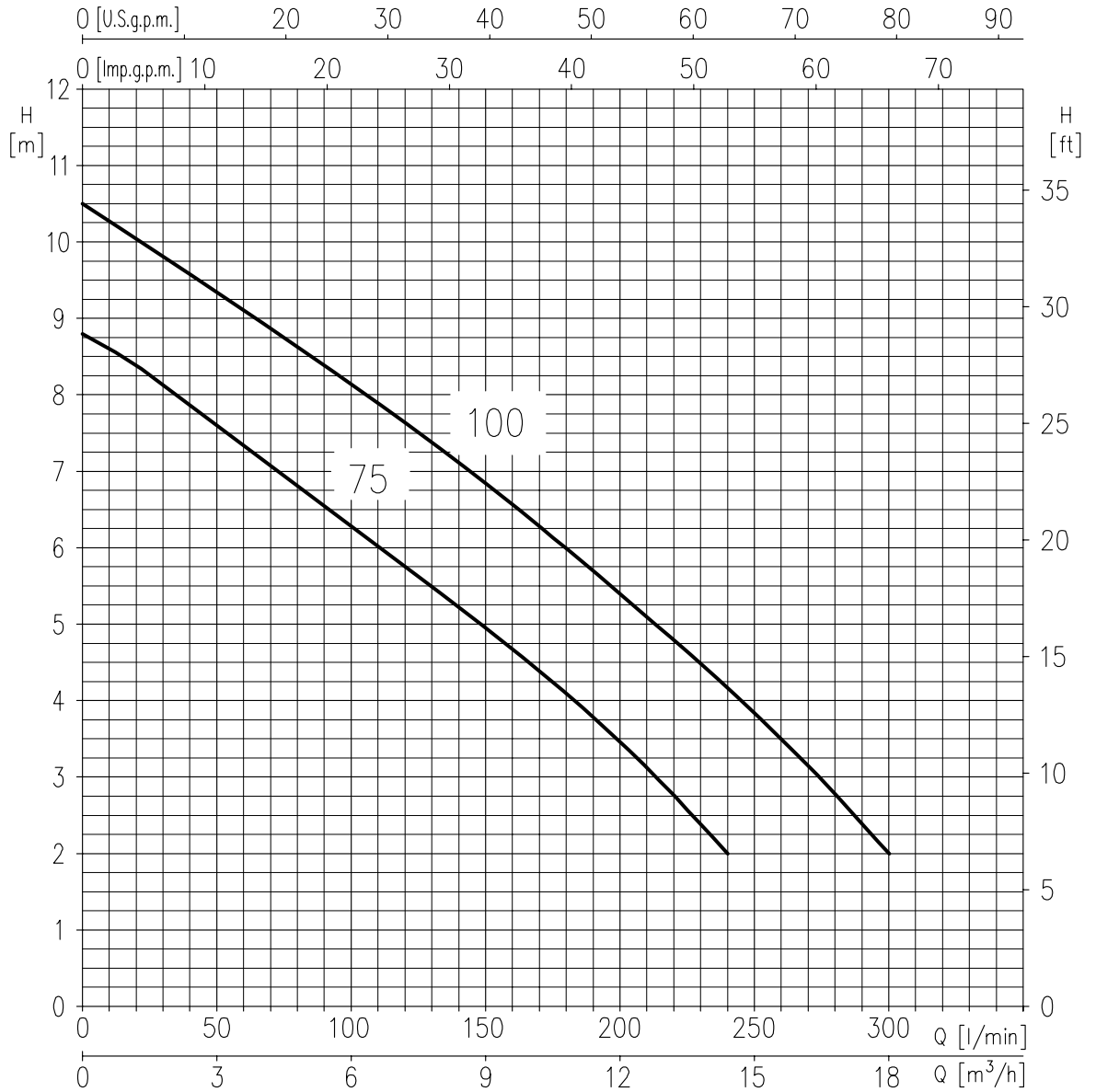
PUMP		
Liquid Handled	Type of liquid	Clean and dirty water
	Max [°C]	50°
	Max solids size [mm]	35 spherical
Maximum immersion [m]		10
Construction	Impeller	Open vortex type
	Shaft seal type	Double mechanical seal
	Bearing	Sealed ball bearing
Pipe Connection	Suction-Flange [mm]	35 open
	Discharge- [inch]	G1½ UNI ISO 228
Material	Casing	AISI 304
	Impeller	AISI 304
	Casing cover	AISI 304
	Shaft seal	Pump side: SiC/SiC/NBR Motor side: Carbon/Ceramic/NBR
	Seal cover	AISI 304
	Shaft	AISI 303 (Wet extension)
	Lubricating liquid	White mineral oil: Esso Marcol 152 (180 cc)
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]	2875		
Insulation Class	F		
Protection degree	IP X8		
kW/HP Rating	[kW]	0.55 ÷ 0.75	
	[HP]	0.75 ÷ 1	
Frequency [Hz]	50		
Voltage [V]	230 ± 10%	400 ± 10%	
Capacitor	Built in	-	
Over load protection	Built in	User to provide	
Float Switch	Optional	N/A	
Float Switch Cable	Material	H07RN-F	
	Size	3G1	
Power cable	length [m]	5 m	
	material	H07RN-F	H07RN-F
	size	3G1	4G1
Dimensions of cable entry	Cable Gland		

SELECTION CHART

50Hz

Rev. G

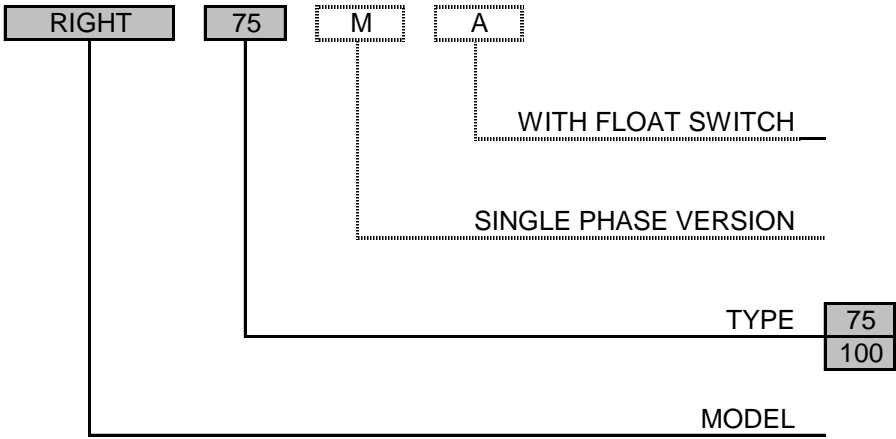


Type pumps		kW	HP	Q=Capacity								
Single Phase 230 V 50 Hz	Three Phase 230/400 V 50 Hz			l/min	0	40	80	120	160	200	240	300
				m³/h	0	2.4	4.8	7.2	9.6	12	14.4	18
				H=Total manometric head in meters								
RIGHT 75 M	RIGHT 75	0.55	0.75	8.8	7.8	6.8	5.7	4.7	3.4	2	-	
RIGHT 100M	RIGHT 100	0.75	1	10.5	9.5	8.6	7.6	6.6	5.4	4.2	2	

TYPE KEY

50Hz

Rev. G



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).

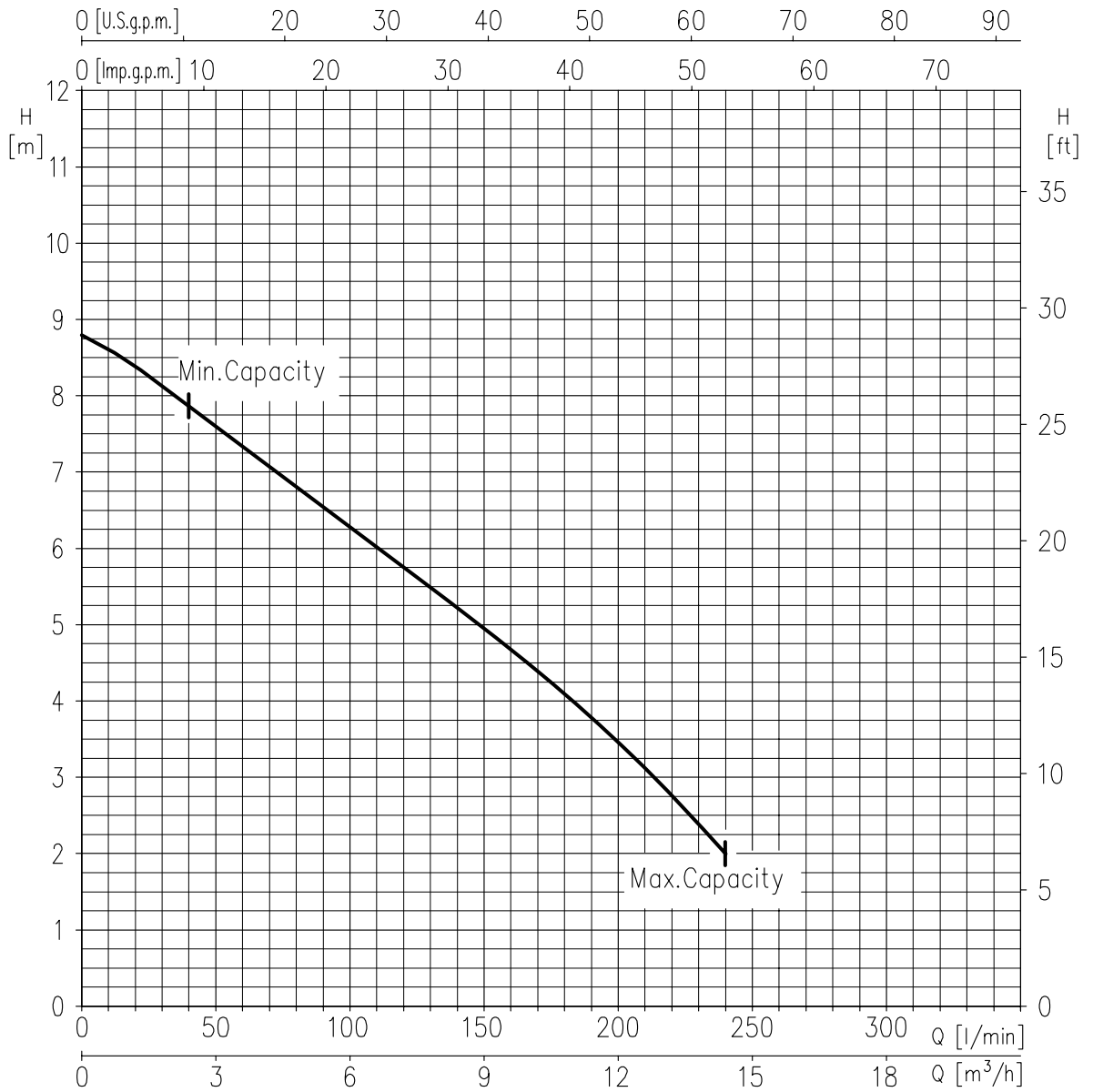
In order to avoid the risk of over-heating, the pumps should not be used at a flow rate below 10% of best efficiency point.

Symbols explanation:

Q = volume flow rate

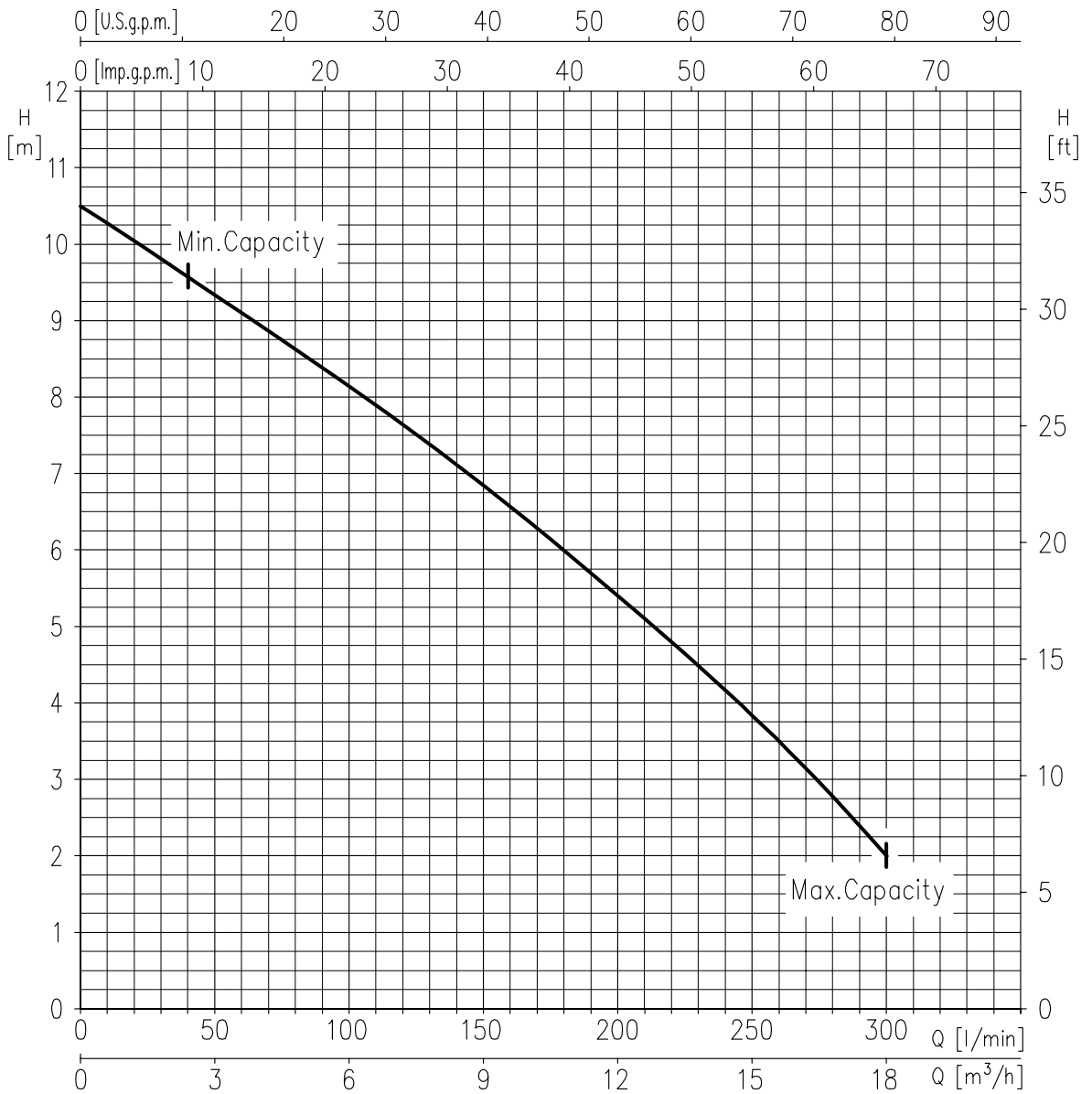
H = total head

RIGHT 75 (0.55 kW)



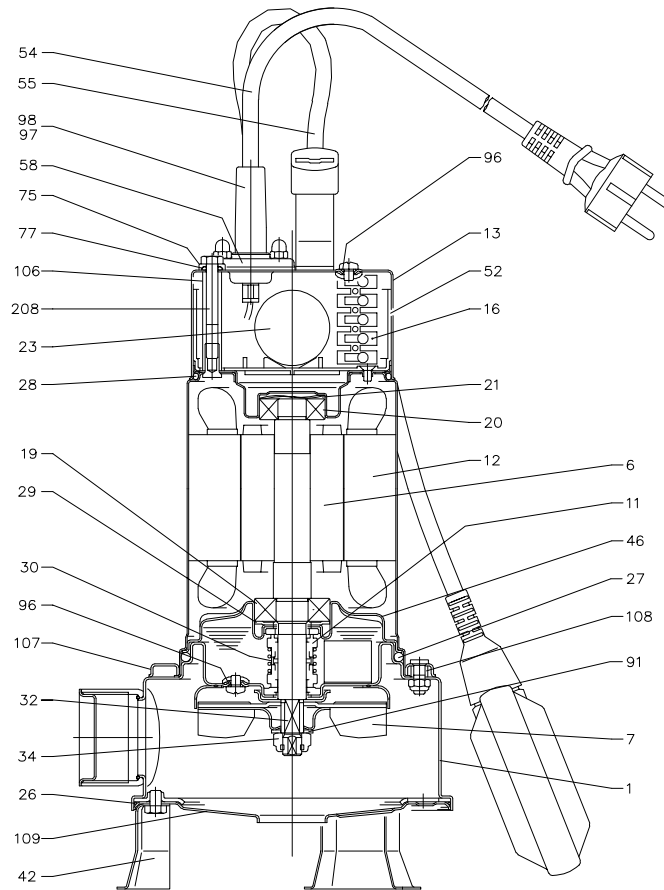
Impeller = Ø100 mm
 Test standard: ISO 9906 – Annex A

RIGHT 100 (0.75 kW)



Impeller = Ø100 mm
 Test standard: ISO 9906 – Annex A

SECTIONAL VIEW

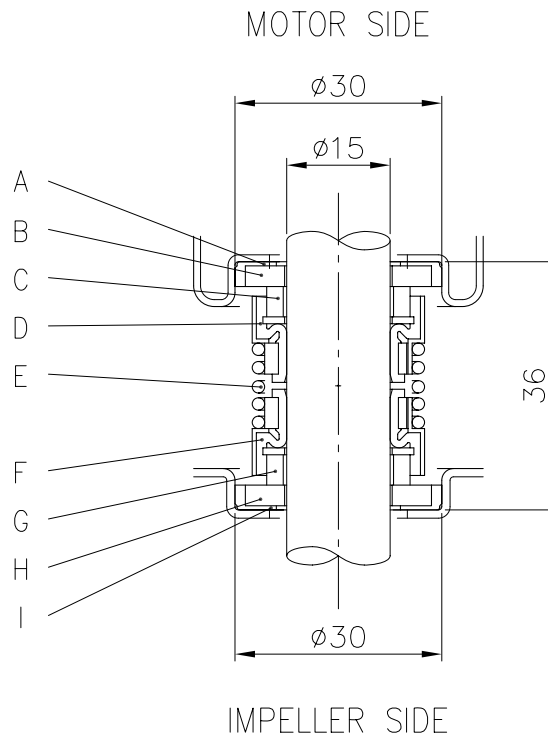


N°	PART NAME	MATERIAL	Q.TY	N°	PART NAME	MATERIAL	Q.TY
1	Casing	AISI 304	1	42	Foot	AISI 304	3
6	Shaft with rotor	AISI 303	1	46	Lower bearing bracket	AISI 304	1
7	Impeller	AISI 304	1	52	Capacitor box	PA66 glass fibre reinforced	1
11	Mechanical seal	Ceramic/Carbon/NBR	1	54	Submersible power cable	-	1
12	Motor frame with stator	-	1	55	Float switch [1]	-	1
13	Cover	AISI 304	1	58	Cable gland	AISI 304	1
16	Terminal	-	1	75	Washer	AISI 303	1
19	Lower ball bearing	-	1	77	"O" Ring	NBR	1
20	Upper ball bearing	-	1	91	Washer	AISI 304	1
21	Adjusting washer	AISI 304	1	96	"O" Ring	NBR	1
23	Capacitor [2]	-	1	97	Cable connector	NBR	1
26	"O" Ring	NBR	1	98	Cable connector [1]	NBR	1
27	"O" Ring	NBR	1	106	Spacer	AISI 304	1
28	"O" Ring	NBR	1	107	Stopper ring	AISI 304	1
29	Washer	AISI 304	1	108	Gasket	NBR	1
30	Mechanical seal spacer	Brass	1	109	Suction cover	AISI 304	1
32	Key	AISI 304	1	208	Screw	AISI 304	1
34	Nut	AISI 303	1	-	-	-	-

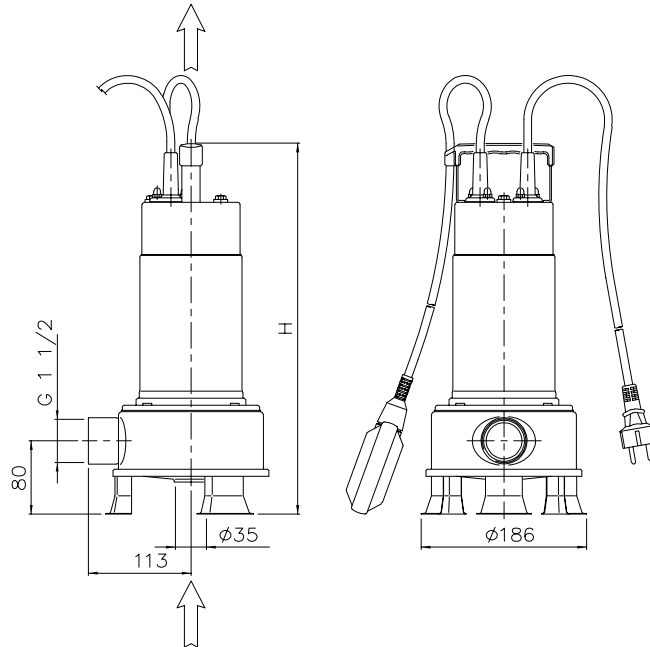
[1] Only for single phase version with float switch

[2] Only for single phase version

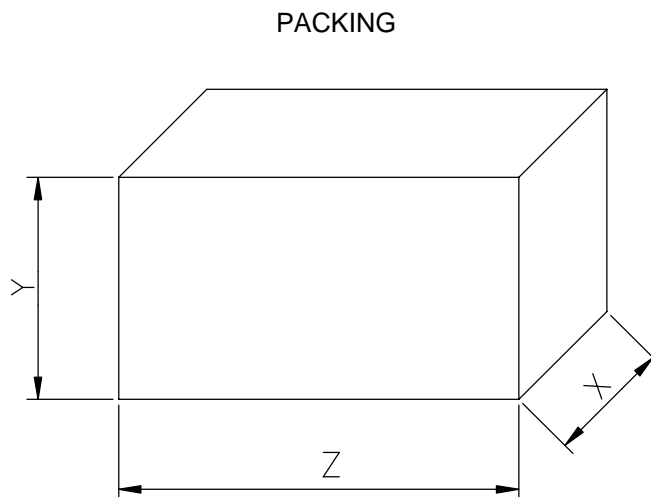
MECHANICAL SEAL



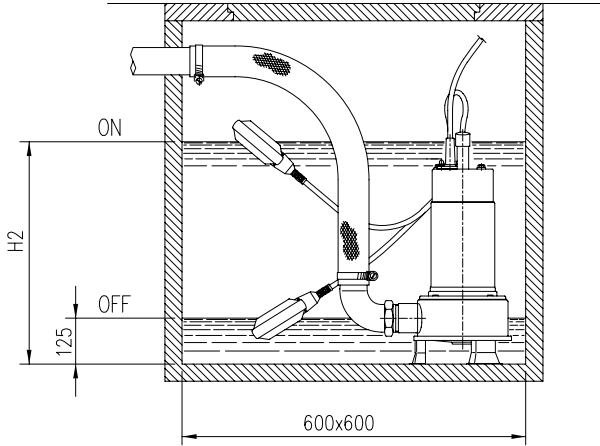
REF	PART NAME	MATERIAL
A	Rubber cup	NBR
B	Seat	Ceramic
C	Seal face	Carbon
D	Bellow	NBR
E	Spring	AISI 304
F	Bellow	NBR
G	Seal face	Silicon carbide
H	Seat	Silicon carbide
I	Rubber cup	NBR



Type pumps		Dimension [mm]	Weight [kg]	
Single Phase	Three Phase		Single Phase	Three Phase
RIGHT 75 M	RIGHT 75	H	10	10
RIGHT 100 M	RIGHT 100	H	11.5	11.5



Type pumps		PACKING [mm]			Weight [kg]	
Single Phase	Three Phase	Z	X	Y	Single Phase	Three Phase
RIGHT 75 M	RIGHT 75	450	195	245	10.7	10.7
RIGHT 100 M	RIGHT 100	450	195	245	12.2	12.2



Pump type	Dimensions mm
	H2
RIGHT 75	410
RIGHT 100	430

Type pumps		kW	HP	Capacitor		Input [kW]		Full load current [A]		Locked rotor current	
Single Phase 230 V 50 Hz	Three Phase 400 V 50 Hz			Single Phase μF	Vc	Single Phase	Three Phase	Single Phase	Three Phase	Single Phase 230 V 50 Hz	Three Phase 400 V 50 Hz
RIGHT 75 M	RIGHT 75	0.55	0.75	20	450	1.0	0.95	4.8	2.1	19.5	12
RIGHT 100 M	RIGHT 100	0.75	1	31.5	450	1.20	1.2	5.7	2.6	24.5	16

Type pumps		Ball Bearing	
Single Phase	Three Phase	Pump side	Fan side
RIGHT 75 M	RIGHT 75	6203 ZZ	6202 ZZ
RIGHT 100 M	RIGHT 100	6203 ZZ	6202 ZZ