



Japanese Technology since 1912

RIGHT

Data Book 50Hz



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SPECIFICATION

50Hz

Rev. K

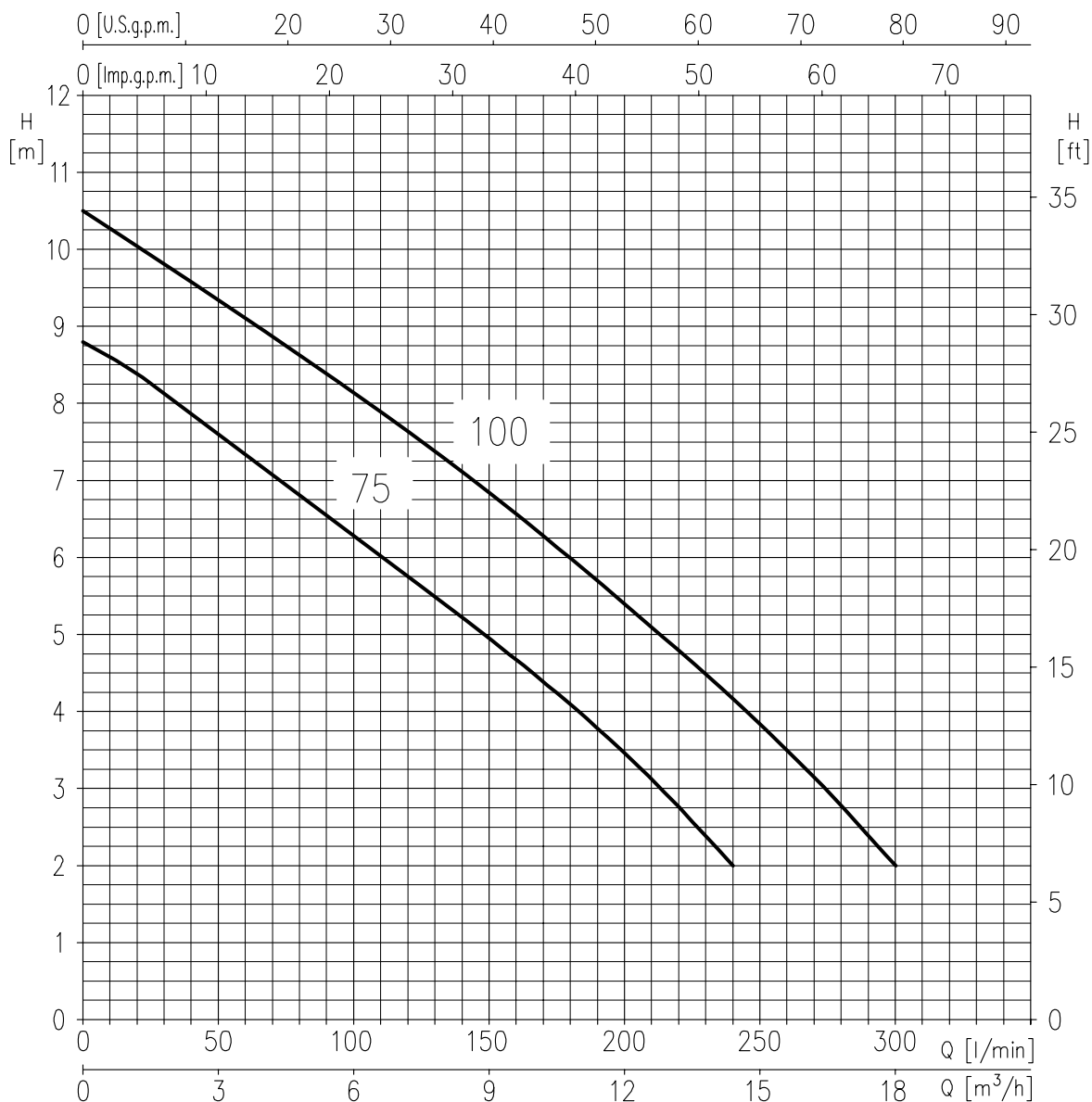
PUMP		
Liquid Handled	Type of liquid	Clean and dirty water
	Max [°C]	50°
	Max solids size [mm]	35 spherical
Maximum immersion [m]		2 (with power cable length 5 m) 7 (with power cable length 10 m)
Construction	Impeller	Open vortex type
	Shaft seal type	Double mechanical seal
	Bearing	Sealed ball bearing
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	N/A
	Size	3G1	N/A
Power cable	length [m]	5 (only for internal usage); 10	
	material	H07RN-F	H07RN-F
	size	3G1	4G1
Dimensions of cable entry		Cable Gland	

SELECTION CHART

50Hz

Rev. K



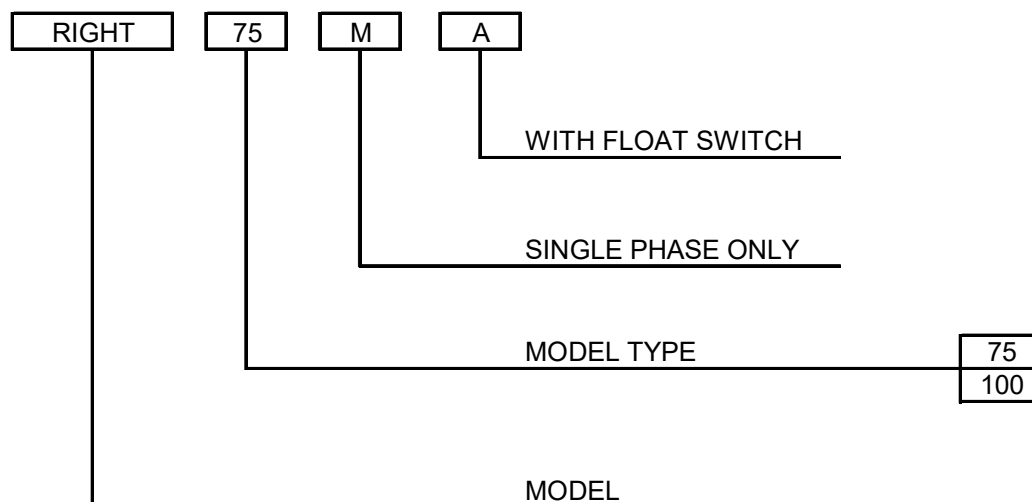
Pump Type		Power		Q=Capacity								
				l/min	0	40	80	120	160	200	240	300
Single Phase	Three Phase	[kW]	[HP]	m³/h	0	2,4	4,8	7,2	9,6	12	14,4	18
				H=Total manometric head in meters								
RIGHT 75 M	RIGHT 75	0,55	0,75		8,8	7,8	6,8	5,7	4,7	3,4	2	-
RIGHT 100M	RIGHT 100	0,75	1		10,5	9,5	8,6	7,6	6,6	5,4	4,2	2

PERFORMANCE CURVE

50Hz

Rev. K

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)

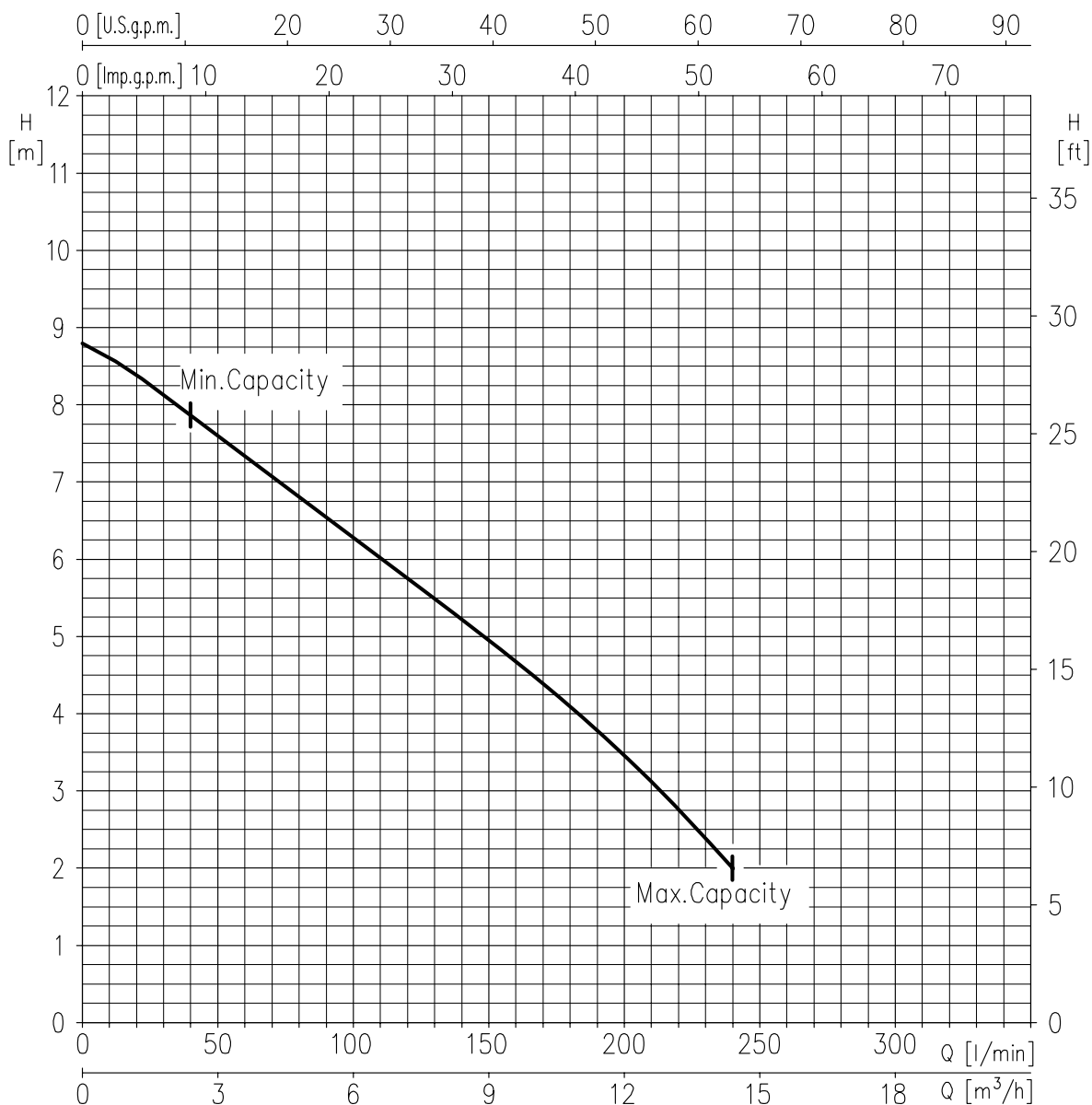
In order to avoid the risk of over-heating, the pumps should not be used at a flow rate below 10% of best efficiency point.

Symbols explanation:

Q = volume flow rate

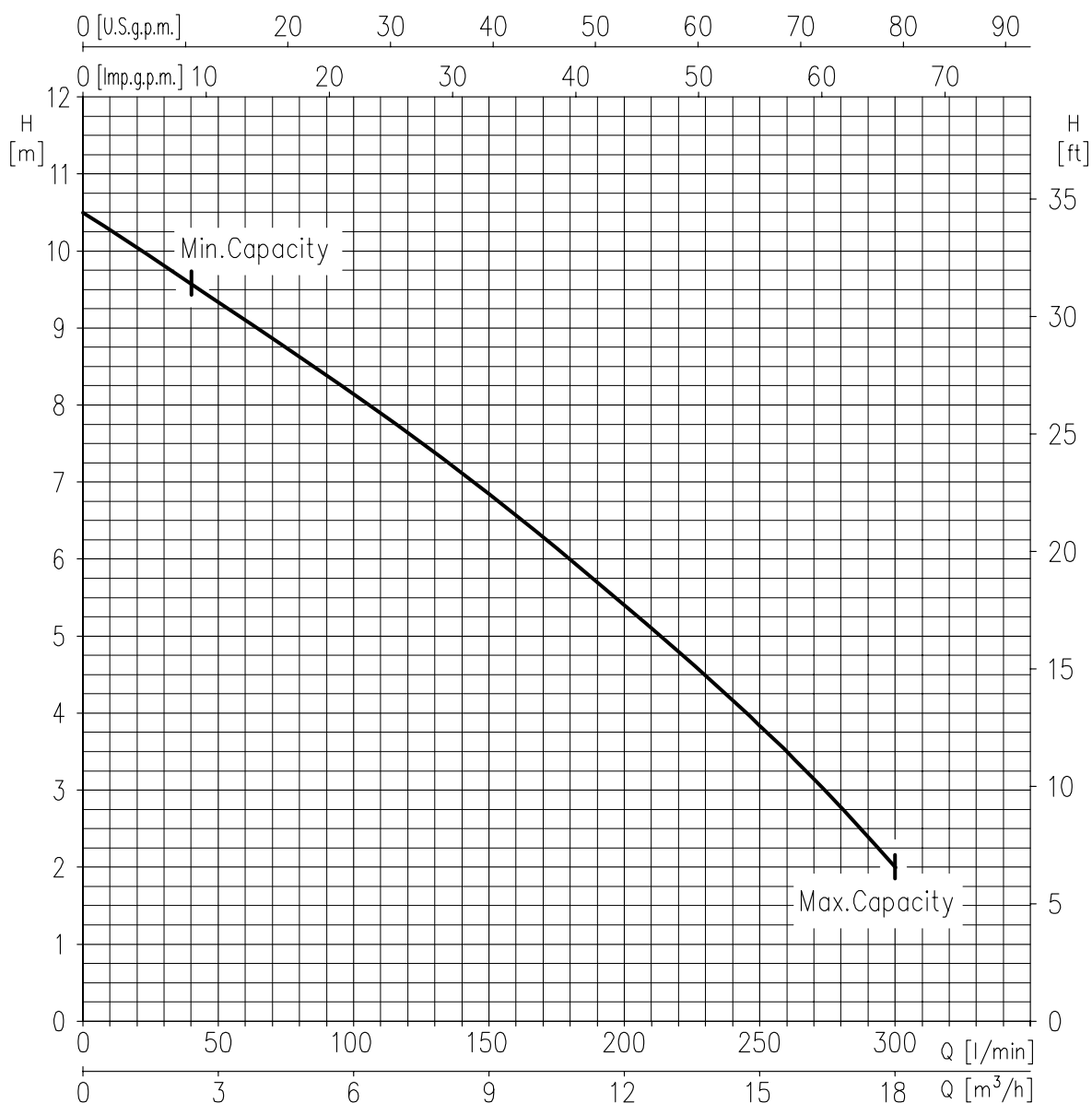
H = total head

RIGHT 75 (0.55 kW) – impeller diameter = 100 mm



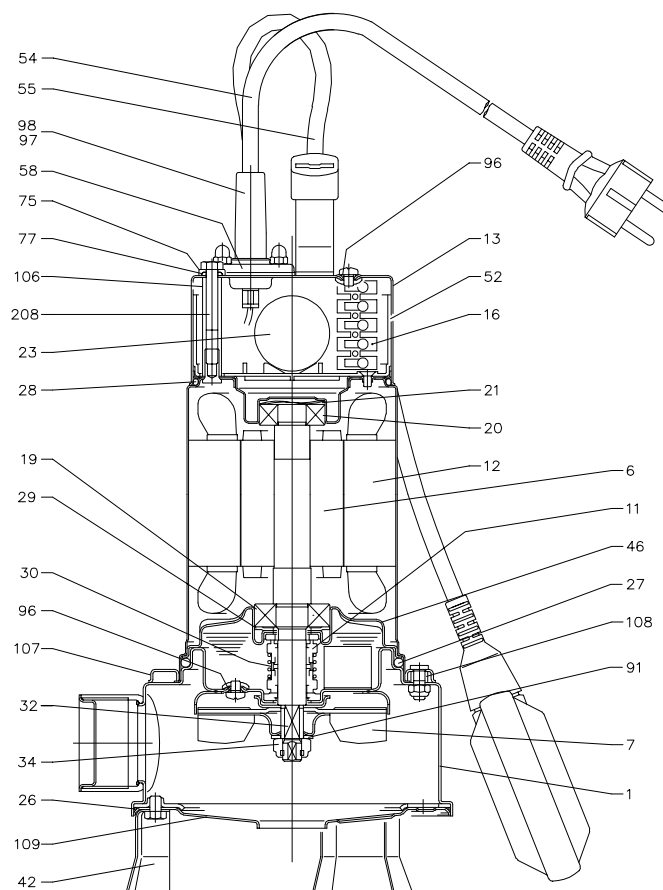
Rotation speed $\approx 2875 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

RIGHT 100 (0.75 kW) – impeller diameter = 100 mm



Rotation speed $\approx 2875 \text{ min}^{-1}$
 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 class V-0	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 303	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	-	-	-	-

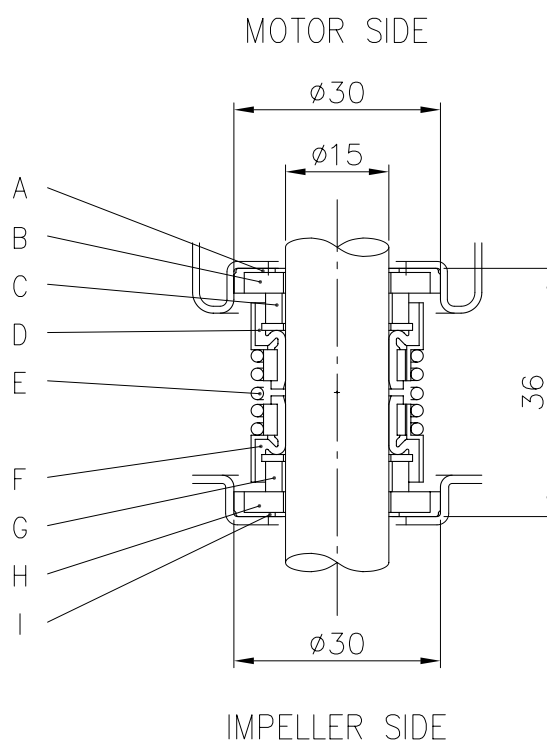
[1] Only for single phase version with float switch

[2] Only for single phase version

BEARINGS

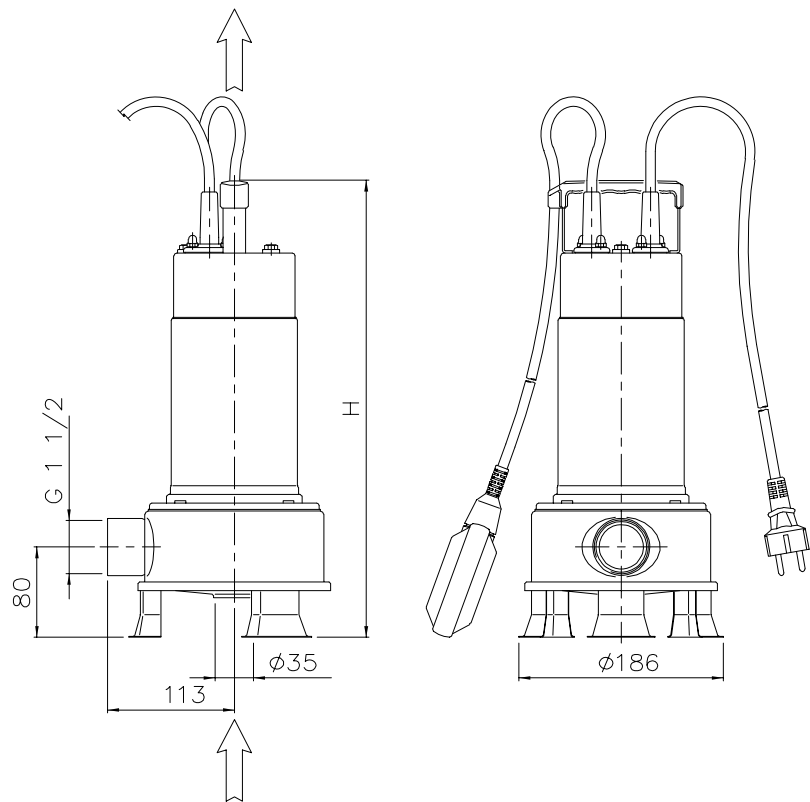
Type pumps		Ball Bearing	
Single Phase	Three Phase	Pump side	Fan side
RIGHT 75 M	RIGHT 75	6203 ZZ	6202 ZZ
RIGHT 100 M	RIGHT 100	6203 ZZ	6202 ZZ

MECHANICAL SEAL



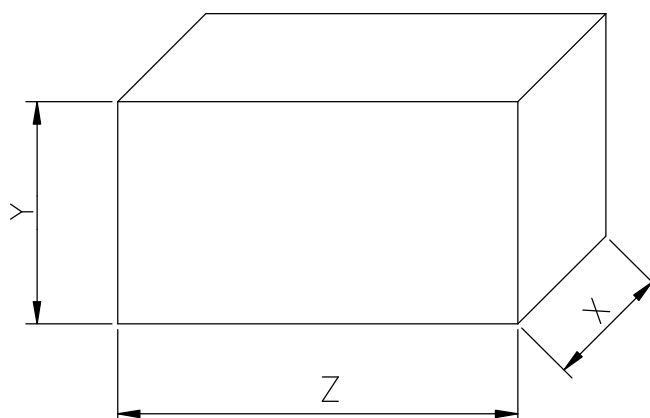
REF	PART NAME	MATERIAL
A	Rubber cup	NBR
B	Seat	Ceramic
C	Seal face	Carbon
D	Bellow	NBR
E	Spring	AISI 304
F	Bellow	NBR
G	Seal face	Silicon carbide
H	Seat	Silicon carbide
I	Rubber cup	NBR

PUMP



Type pumps		Dimension H [mm]	Weight [kg]	
Single Phase	Three Phase		Single Phase	Three Phase
RIGHT 75 M	RIGHT 75	405	10	10
RIGHT 100 M	RIGHT 100	430	11,5	11,5

PACKING

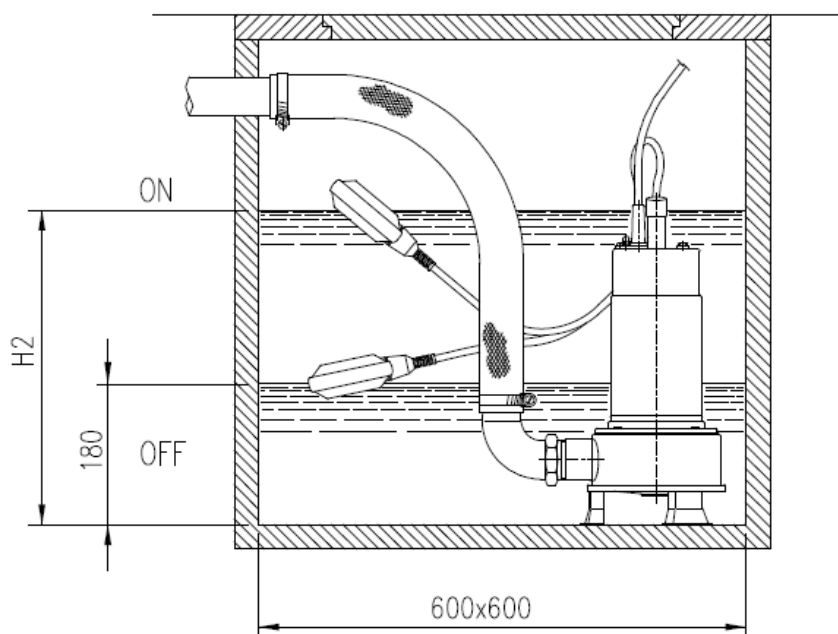


Type pumps		Packing [mm]			Weight [kg]	
Single Phase	Three Phase	Z	X	Y	Single Phase	Three Phase
RIGHT 75 M	RIGHT 75	450	195	245	10,7	10,7
RIGHT 100 M	RIGHT 100	450	195	245	12,2	12,2

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
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

INSTALLATION



Pump type	Dimensions [mm]
	H2
RIGHT 75	410
RIGHT 100	430



EBARA Pumps Europe S.p.A.
Via Torri di Confine 2/1 int. C
36053 Gambellara (Vicenza), Italy
Phone +39 0444 706811
ebarapumps.epe@ebaracom
www.ebaraeurope.com

EBARA Pumps Europe S.p.A. GERMANY
Elisabeth-Selbert-Straße 2
63110 Rodgau, Germany
Phone +49 (0) 6106-660 99-0
info.epde@ebaracom

EBARA Pumps South Africa (PTY) LTD
26 Kyalami Boulevard,
Kyalami Business Park, 1684, Midrand,
Gauteng, South Africa
Phone +27 11 466 1844
ebarae psa@ebaracom

EBARA Pumps Europe S.p.A. UK
Unit A, Park 34
Collett Way - Didcot
Oxfordshire - OX11 7WB, United Kingdom
Phone +44 1895 439027
marketing.epuk@ebaracom

EBARA Pumps Europe S.p.A. FRANCE
122, Rue Pasteur
69780 Toussieu, France
Phone: +33 04 72 76 94 82
mktg.epr@ebaracom

EBARA Pumps East Africa
Delta Corner Tower 2, 13th Floor, Office 1308,
Chiromo Road, Westlands
P.O. Box 13796-00800, Nairobi
Phone: +254(0)722913119
info.epea@ebaracom

EBARA POMPY POLSKA Sp. z o.o.
ul. Działkowa 115 A
02-234 Warszawa, Poland
Phone +48 22 3909920
marketing.epl@ebaracom

EBARA Pumps RUS Ltd.
Prospekt Andropov 18, building 7, floor 11
115432 Moscow
Phone +7 499 6830133
mktg.epr@ebaracom