



EBARA

IDROGO

5" SUBMERSED CENTRIFUGAL ELECTRIC PUMP

60 Hz



5" SUBMERSED CENTRIFUGAL ELECTRIC PUMPS

in AISI 304



5" submersed multistage centrifugal electric pumps in AISI 304.

APPLICATIONS

- Moving clear water from wells, cisterns and primary collection reservoirs
- Pressure boosting domestic plants
- Small-sale irrigation
- Washing vehicles
- General pressure increases

TECHNICAL DETAILS

- Equipped with twin mechanical seal with interposed oil chamber
- Supplied with 20 m of H05VV-F power cable
- Single phase version with float on request
- Installation: in horizontal and vertical position

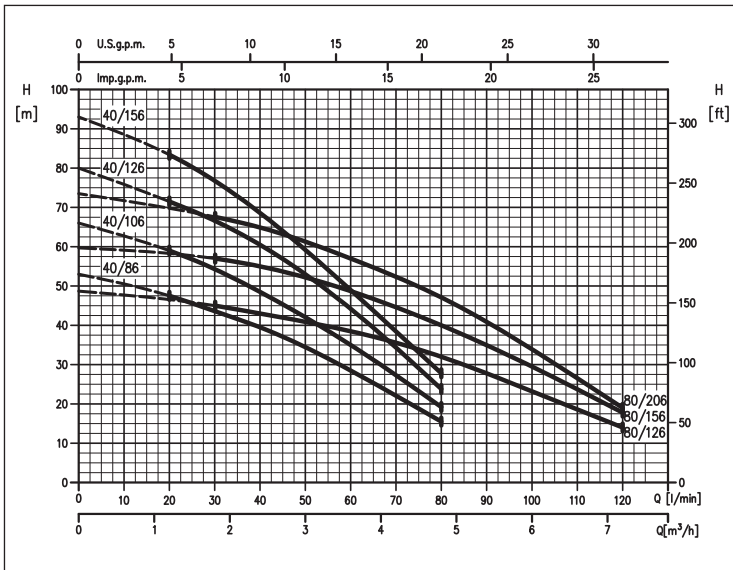
TECHNICAL DATA

- Maximum working pressure: 10 bar
- Maximum temperature of the liquid: 40°C
- Maximum immersion: 20 m, (10 m with float)
- 2 pole self-ventilated asynchronous motor cooled via the moving liquid
- Class of insulation F
- IPX8 Protection rating
- 220-230V ±6%, 60Hz single phase voltage
- 380V -6%+10%, 60Hz three phase voltage
- Permanent capacitor inserted and thermo-ampereometric protection with automatic reset incorporated for the single phase motor
- Protection under user's responsibility for the three phase version
- G 1¼ discharge connection

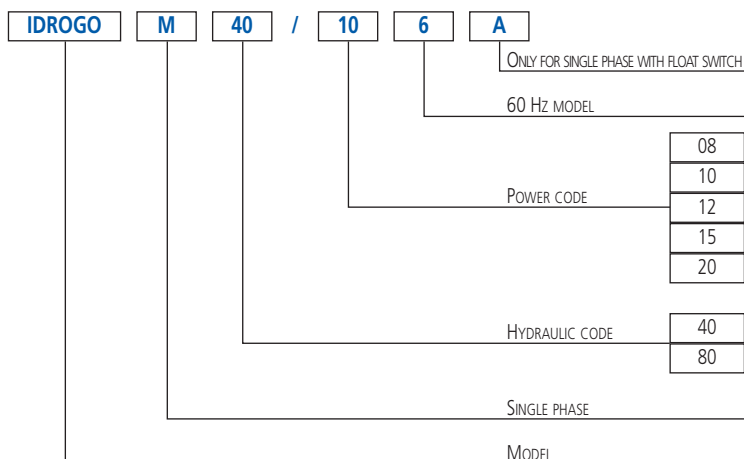
MATERIALS

- External casing, motor cover, seal housing disc, filter and closing ring in AISI 304
- Impeller, nozzle and spacer in PPO reinforced with fibreglass
- Shaft in AISI 431
- Upper mechanical seal (motor side) in Carbon/Ceramic/NBR and lower (pump side) in SiC/Carbon/NBR

PERFORMANCE CURVES (according to ISO 9906 Attachment A)



IDENTIFICATION CODE

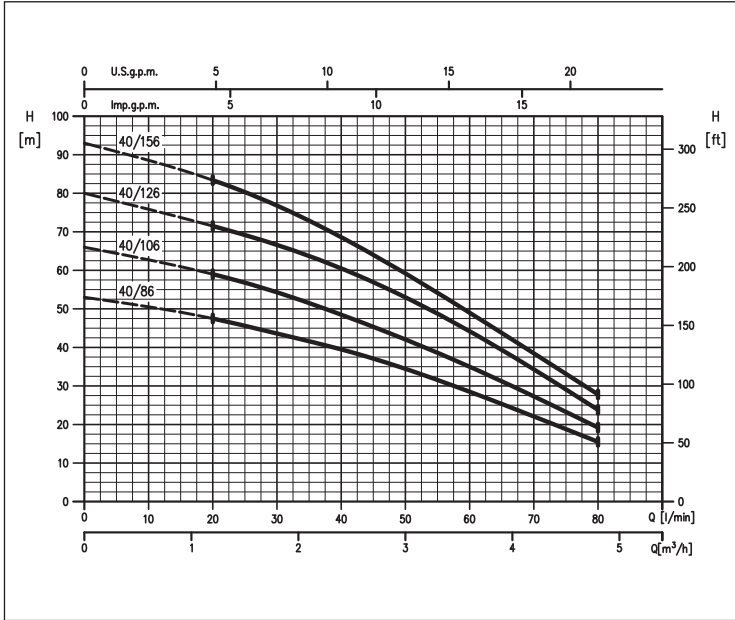


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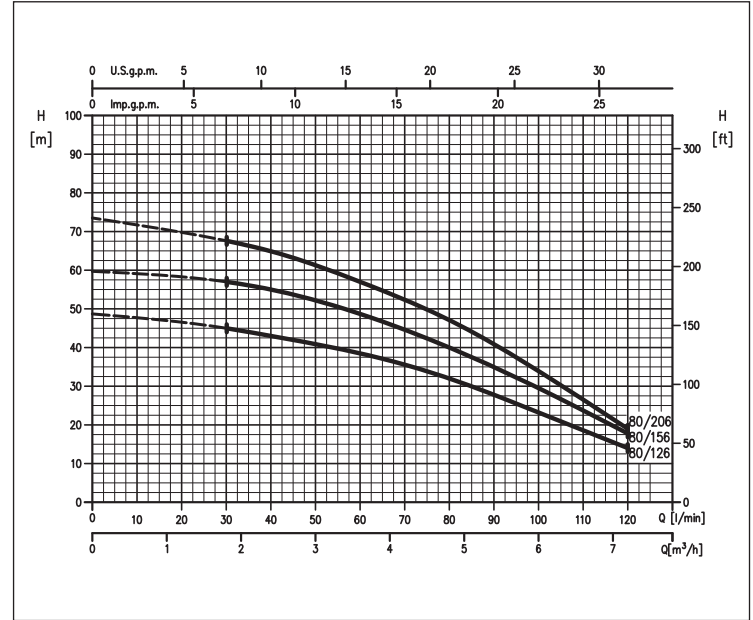
IDROGO 40

(according to ISO 9906 Attachment A)

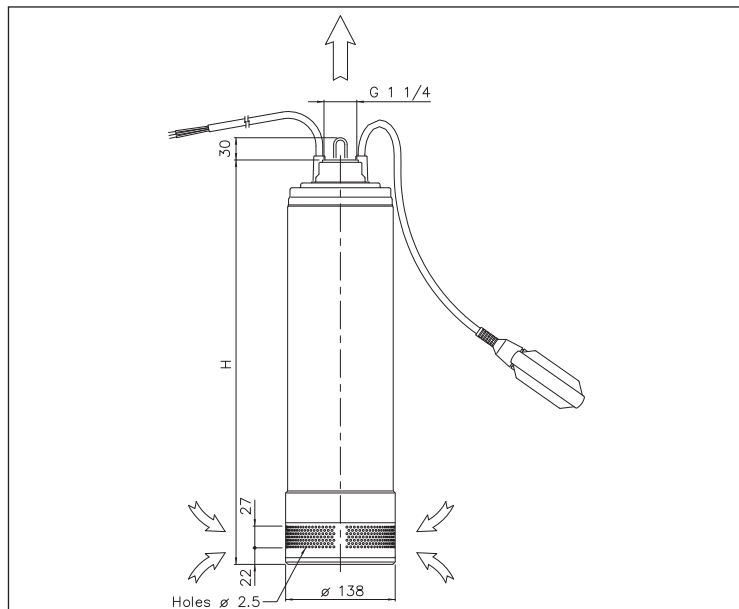


IDROGO 80

(according to ISO 9906 Attachment A)



220-230V	380V	P ₂		Q=							
		[HP]	[kW]	l/min m³/h	20 1,2	30 1,8	40 2,4	60 3,6	80 4,8	100 6	120 7,2
IDROGO M 40/86	IDROGO 40/86	0,8	0,6	47,5	43,5	39,5	28,5	15,5	-	-	-
IDROGO M 40/106	IDROGO 40/106	1	0,75	59,0	54,5	48,5	35,0	19,2	-	-	-
IDROGO M 40/126	IDROGO 40/126	1,2	0,9	71,5	66,5	60,5	44,0	23,8	-	-	-
IDROGO M 40/156	IDROGO 40/156	1,5	1,1	83,5	76,5	68,5	49,0	27,8	-	-	-
IDROGO M 80/126	IDROGO 80/126	1,2	0,9	-	45,0	43,0	38,5	32,0	23,2	14,0	-
IDROGO M 80/156	IDROGO 80/156	1,5	1,1	-	57,0	55,0	48,5	40,0	29,5	17,8	-
-	IDROGO 80/206	2	1,5	-	67,5	65,0	57,0	47,0	33,9	19,0	-



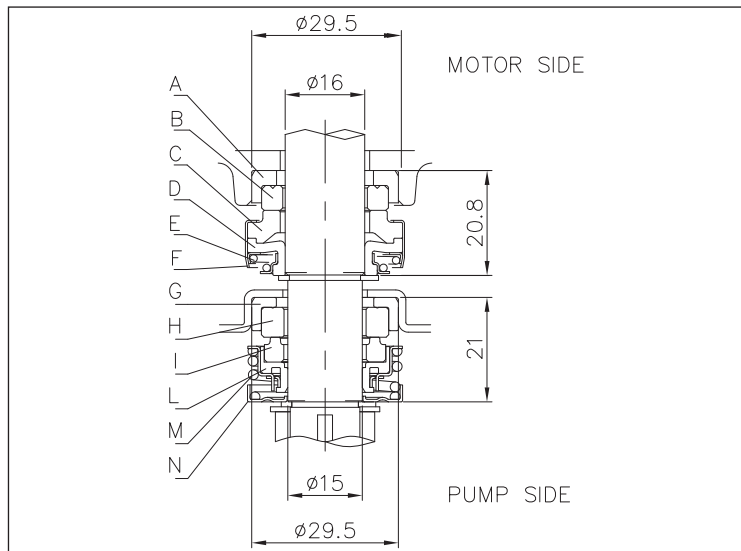
	H	[mm]	H1	[2]	[kg]	[1]
IDROGO 40/86	513	250	14,5	14,0	-	-
IDROGO 40/106	539	275	15,5	15,0	-	-
IDROGO 40/126	590	300	17,0	16,5	-	-
IDROGO 40/156	616	325	18,0	17,2	-	-
IDROGO 80/126	540	250	15,8	15,2	-	-
IDROGO 80/156	564	275	17,0	16,5	-	-
IDROGO 80/206	590	300	-	17,5	-	-

[1]= Three phase only
[2]= Single phase only

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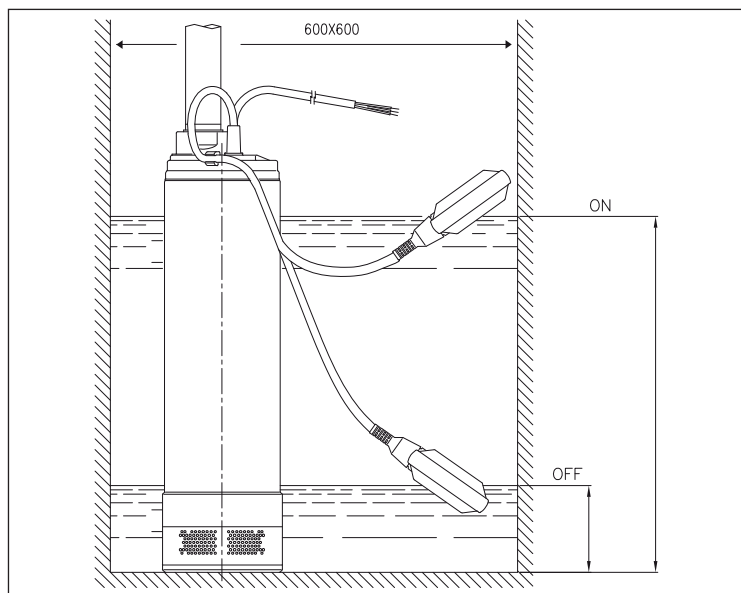
MECHANICAL SEAL



MATERIALS TABLE

Ref.	Name	Material
A	Fixed gasket	NBR
B	Fixed sealing ring	Ceramic
C	Rotating sealing ring	Carbon
D	Rotating gasket	NBR
E	Spring	AISI 304
F	Structure/frame	AISI 304
G	Fixed gasket	NBR
H	Fixed sealing ring	SiC
I	Rotating sealing ring	Carbon
L	Rotating gasket	NBR
M	Spring	AISI 304
N	Structure/frame	AISI 304

INSTALLATION



INSTALLATION TABLE

Model	Dimensions [mm]	
	ON	OFF
IDROGO 40/86	560	180
IDROGO 40/106	590	190
IDROGO 40/126	660	220
IDROGO 40/156	730	240
IDROGO 80/126	590	190
IDROGO 80/156	640	210
IDROGO 80/206	660	220

ELECTRIC DATA TABLE

Model		P ₂		Capacitor		P ₁		Absorbed Current [A]	
Single phase 220-230V	Three phase 380V	[HP]	[kW]	μF	V _c	Single phase [kW]	Three phase [kW]	Single phase 220-230V	Three phase 380V
IDROGO M 40/86	IDROGO 40/86	0,8	0,6	16	450	1,03	0,93	5,0	1,7
IDROGO M 40/106	IDROGO 40/106	1	0,75	16	450	1,2	1,09	5,9	2
IDROGO M 40/126	IDROGO 40/126	1,2	0,9	20	450	1,45	1,28	7,1	2,3
IDROGO M 40/156	IDROGO 40/156	1,5	1,1	25	450	1,68	1,47	8,1	2,7
IDROGO M 80/126	IDROGO 80/126	1,2	0,9	20	450	1,3	1,1	6,4	2,1
IDROGO M 80/156	IDROGO 80/156	1,5	1,1	25	450	1,48	1,3	7,2	2,5
-	IDROGO 80/206	2	1,5	-	-	-	1,53	-	2,7

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