



CASTLE PUMPS LTD

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The UK Agent of...
azcuepumps



Datasheet

Pump **manufactured in Spain** with materials from own foundry

Can handle **liquids** with up to **50% gas/air** content

Separate shafts in pump head and motor - no need to replace entire pump and motor if the shaft wears

Compact design ideal for installations where space saving is an issue

Back pull out design for easy maintenance - allows the internals to be removed without disconnecting the pump from the pipework.



Interchangeable spare parts with other Azcue models to reduce stock holding

Close coupled with **lantern bracket** to separate the pump head and motor should the seal fail - prevents fluid from entering the motor

Marine type approved by all classification societies e.g. Lloyds/ABS

Single impeller design ideal for applications with low flow/pressure capabilities

Series **MA** Close Coupled Side Channel Pump

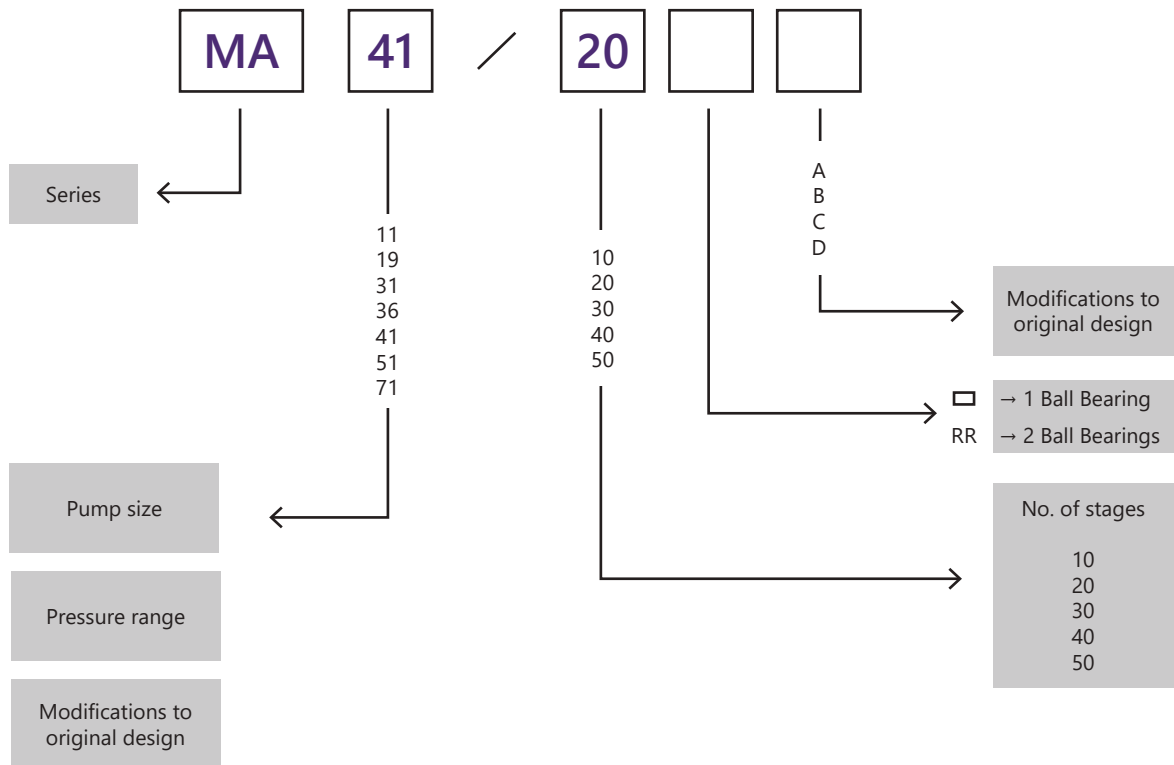
MA Close Coupled Side Channel Pump



Performance:

Max Flow rate	3 m ³ /h
Max Pressure	60 M
Max Temperature	90°C
Sizes Available	DN1"

Description



Common Applications -

- Aquaculture
- Closed Loop HVAC Circulating
- Condensate Extraction
- Cooling
- Deck Wash
- Lubricant
- Reverse Osmosis/Desalination
- Sea Water Cooling
- Sea Water Service
- Swimming Pool
- Water Circulating
- Water Transfer

Benefits -

- Manufactured in Spain by manufacturer with over 100 years' experience, using materials from their own foundry for complete control
- Marine type approved by all classification societies e.g. Lloyds/ABS for independent verification the pump meets quality standards
- Close coupled with a lantern bracket to separate the pump head from the motor, so should the seal fail fluid is prevented from entering the motor and causing damage to this part
- Excellent self priming capabilities, making it suited to applications with difficult and long suction conditions
- Single impeller design for applications with low flow/pressure capabilities
- Can handle liquids with up to 50% gas/air content
- Interchangeable spare parts with other Azcue models to reduce stock holding required
- Spares available for a minimum of 15 years after model discontinuation for long term servicing even if the pump is no longer produced
- Compact horizontal design, ideal for installations where space saving is an issue
- Back pull out design for easy maintenance - allows the motor to be removed without disconnecting the pump
- Separate shafts in pump head and motor - no need to replace entire pump and motor if shaft wears, saving costs



Materials

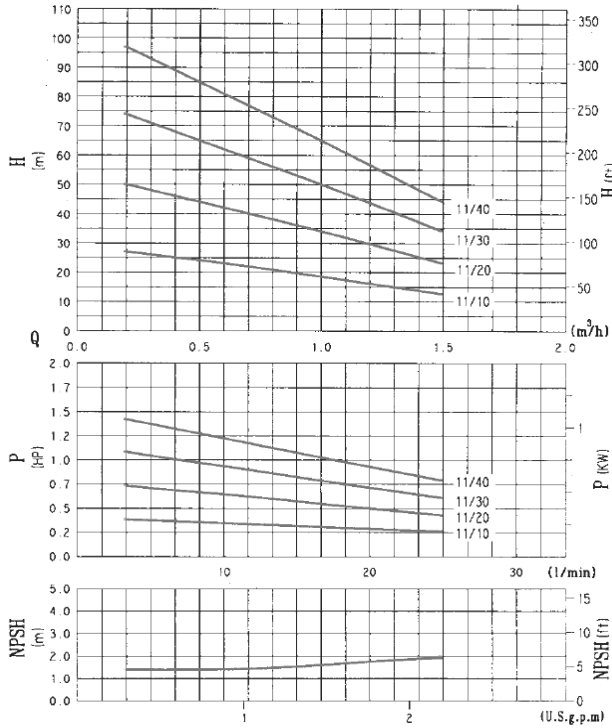
	A	B
Shaft	Stainless Steel (Aisi 316)	Stainless Steel (Aisi 316)
Impeller	Bronze G-CuA110Ni	Bronze G-CuA110Ni
Suction/Discharge casings	GG25	Bronze G-CuSn5ZnPb(Rg5)
Diffuser	GG25	Bronze G-CuSn5ZnPb

Can also be manufactured in different materials as nodular cast iron, stainless etc if required.

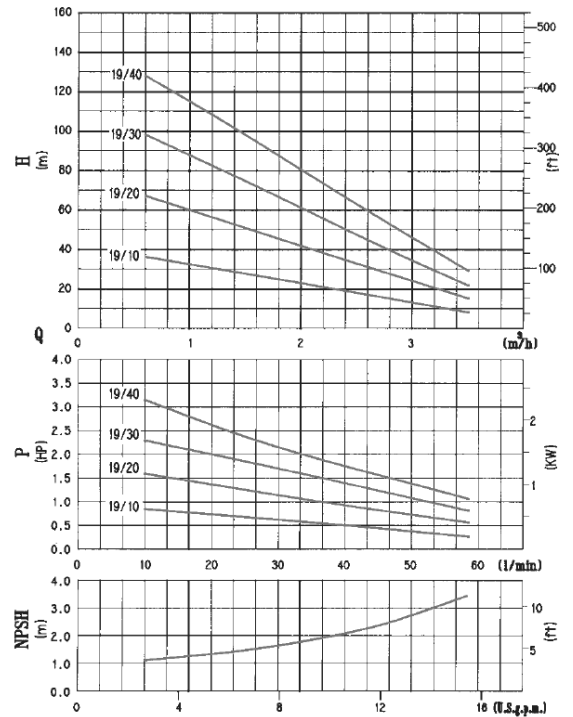
Performance Curves - 50 Hz

1.450 r.p.m^{t/min}

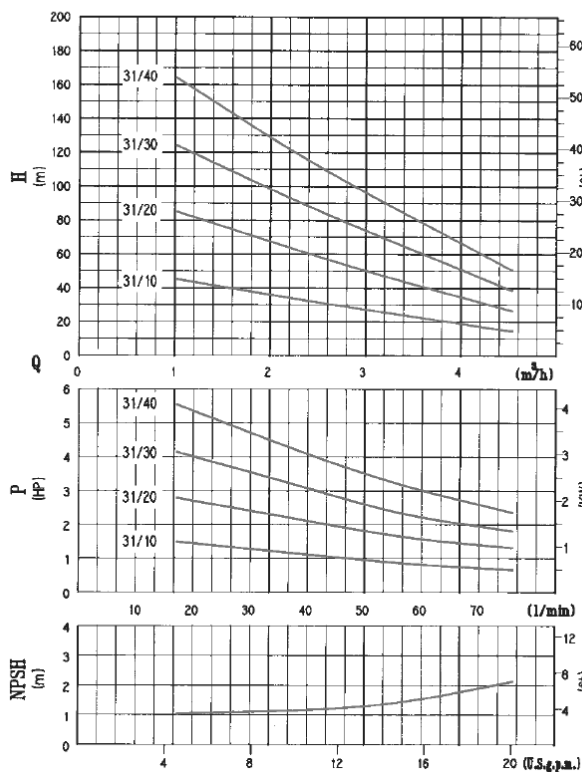
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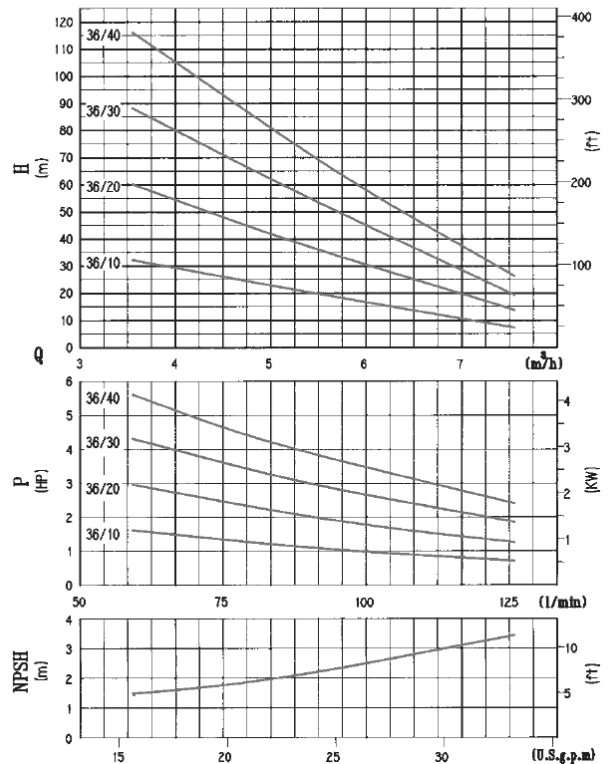
Size 19



Size 31



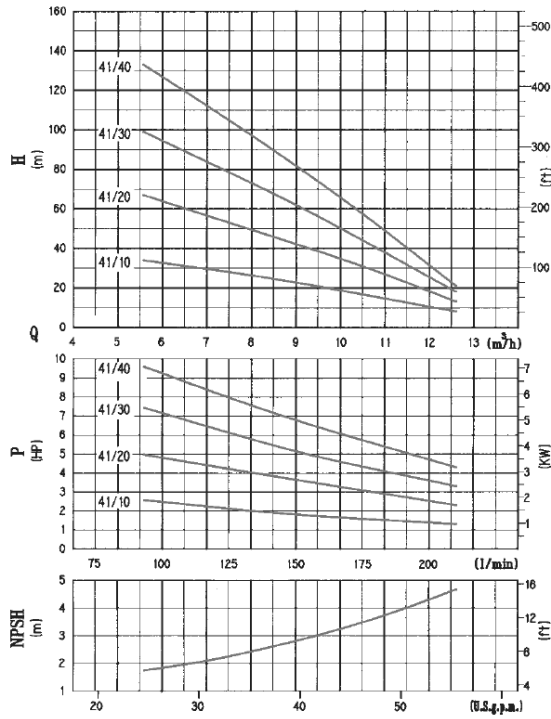
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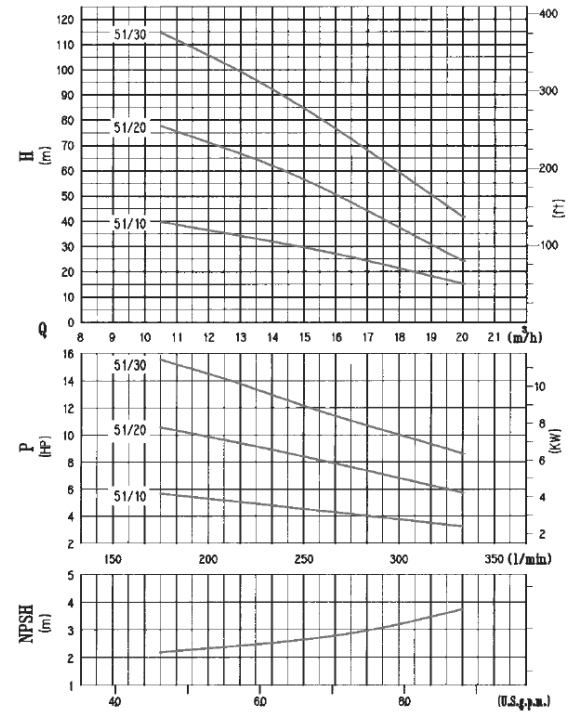
Performance Curves - 50 Hz

1.450 r.p.m^{t/min}

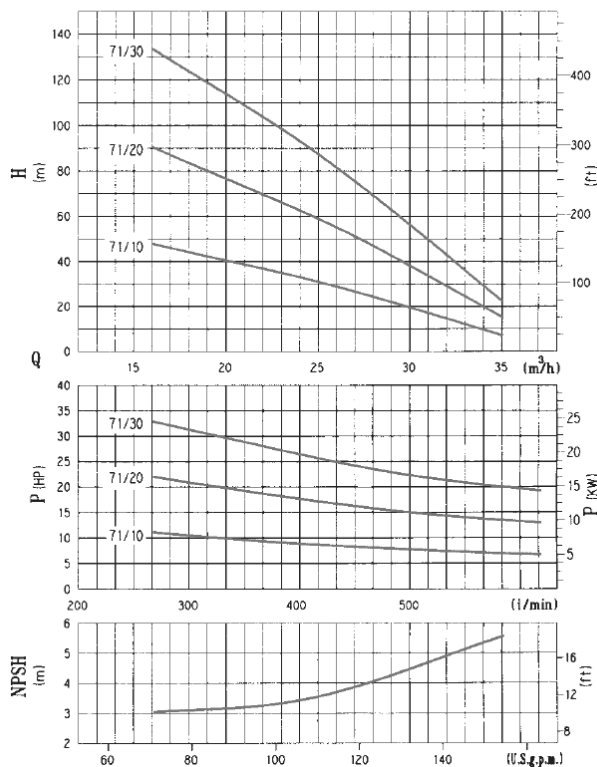
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Size 51



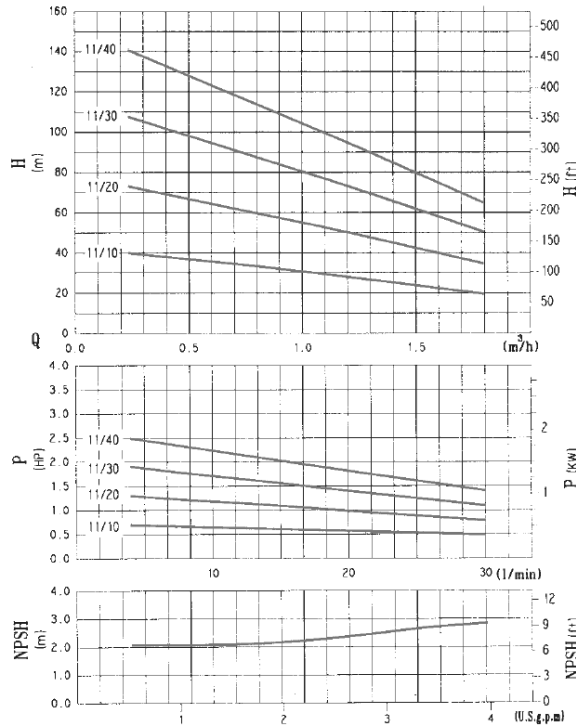
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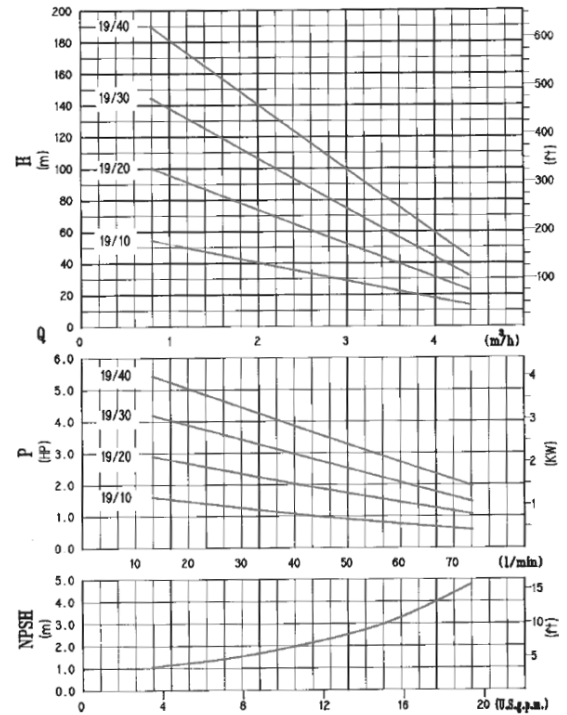
Performance Curves - 60 Hz

1.750 r.p.m^{t/min}

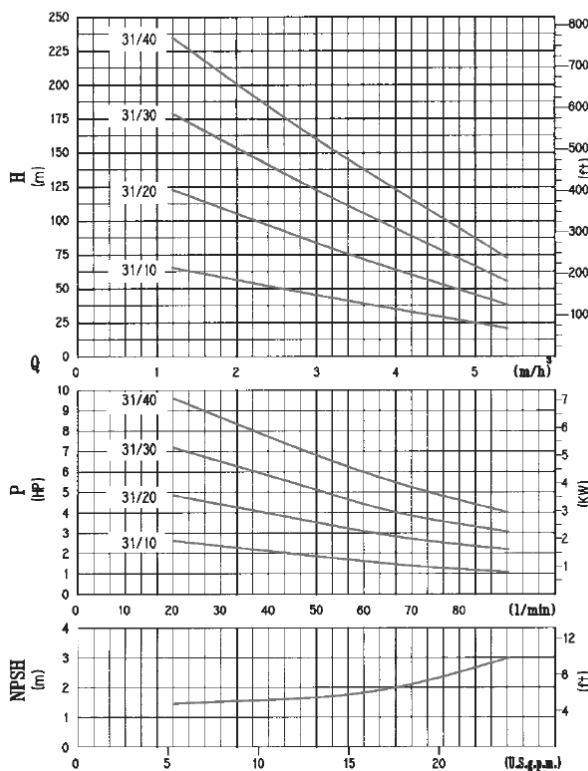
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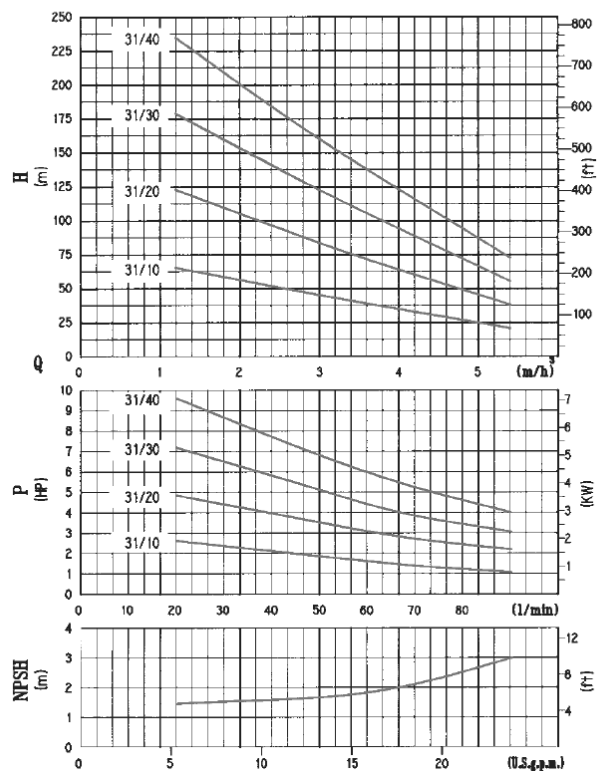
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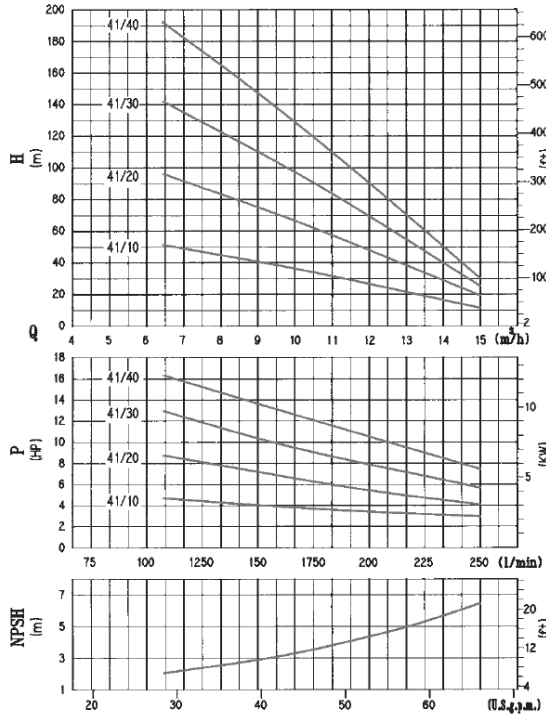
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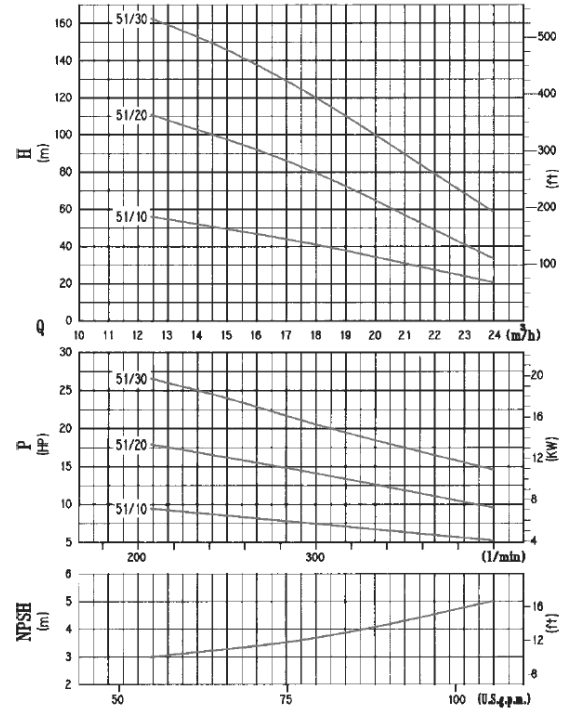
Performance Curves - 60 Hz

1.750 r.p.m^{t/min}

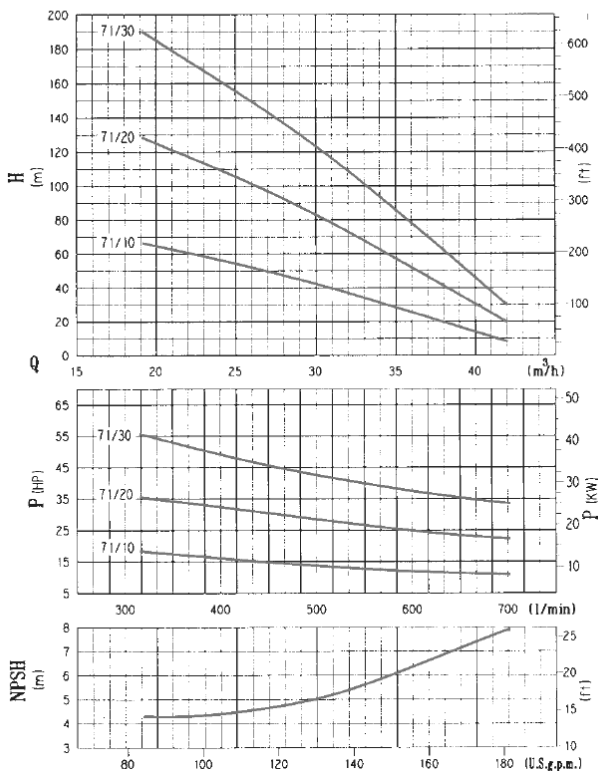
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Size 51

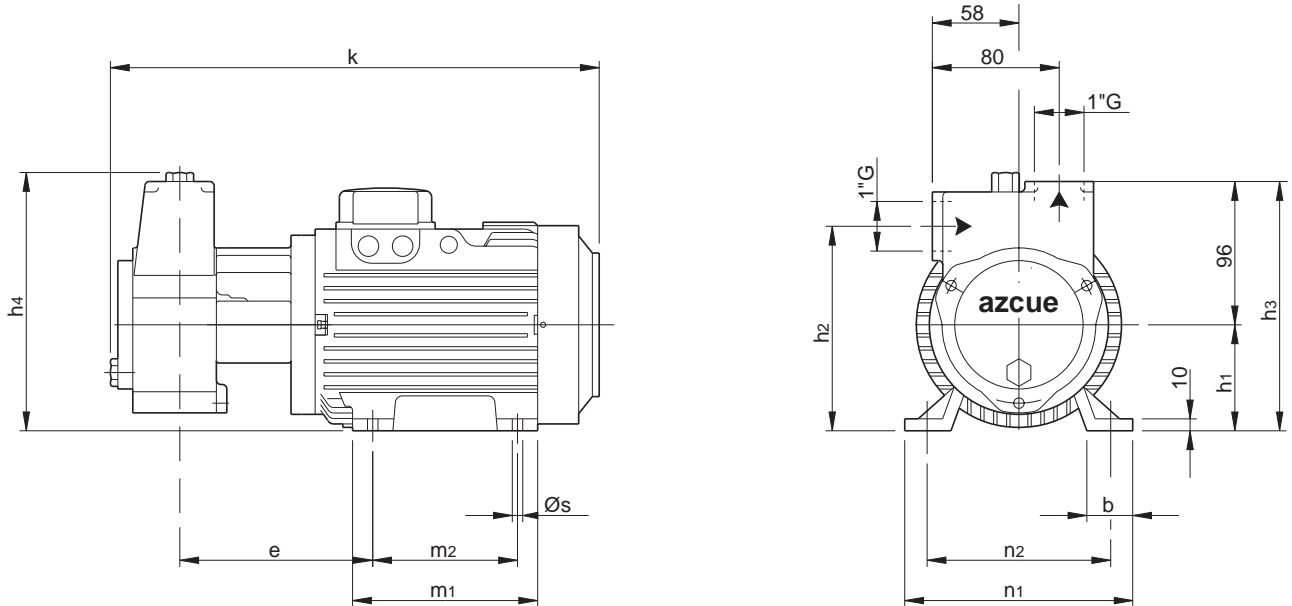


Size 71



Dimensions

MA 80 (2850/3450 r.p.m)



Motor	h1	h2	h3	h4	m1	m2	n1	n2	b	s	e	k	kg
0.55 KW	71	137	167	173	112	90	135	112	20	7	126	340	13
0.9 KW	80	146	176	182	127	100	154	125	30	9	132	365	15

50 Hz

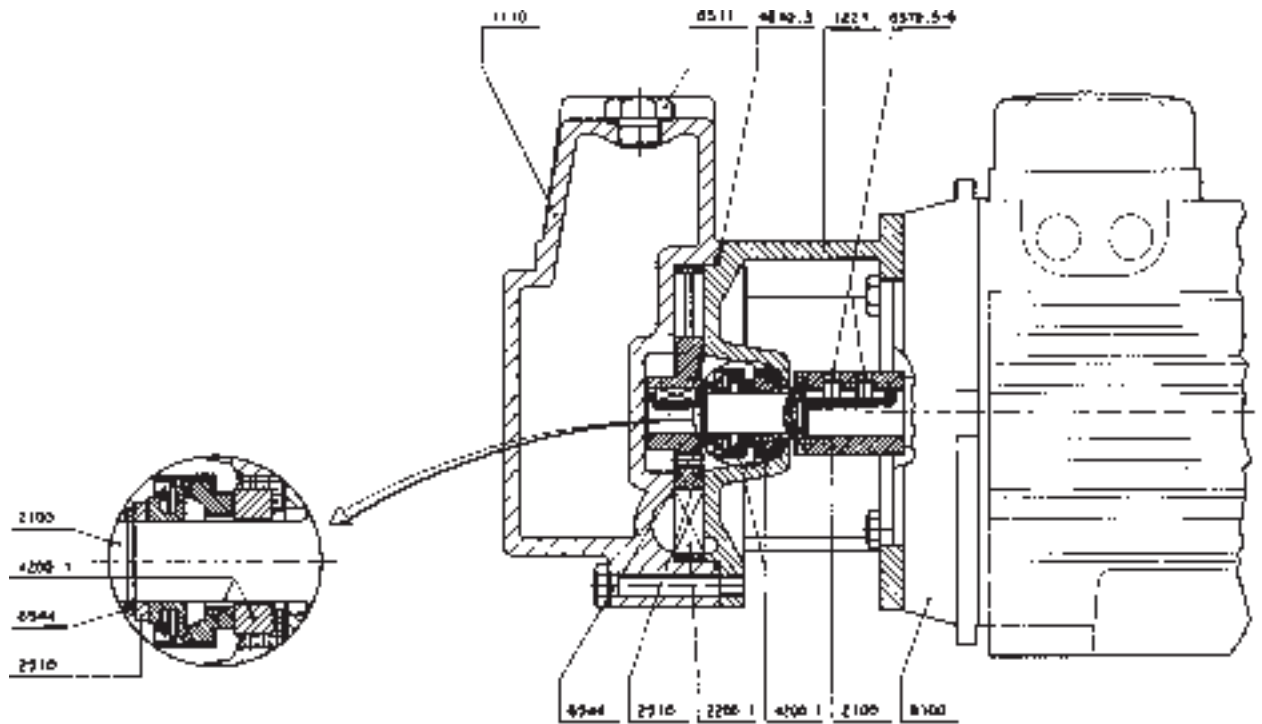
Q (m ³ /h)								
0,3	0,6	0,9	1,2	1,5	1,8	2,1	2,4	3
H (m)								
46	42	38	34	30	26	22	18	10
0,55 KW 2850 rpm.								

60 Hz

Q (m ³ /h)				
1	1,4	1,9	2,6	3,3
H (m)				
60	50	40	30	20
0,9 KW 3450 rpm.				

Subject to alterations

Sectional Drawing



Sectional Drawing

DESCRIPTION	Ref
Pump casing	1110
Suction casing	1130
Delivery casing	1140
Suction diffuser	1160.1-3
Discharge diffuser	1190.1-2
Diffuser last stage	1191
Casing	1221
Shaft	2100
Impeller	2200.1-3
Spacer ring	2510
Thrower	2540.1-2
Radial ball bearing	3011.1-2
Bearing housing	3200.1-2
Bearing cover	3260
Bearing end cover	3266
Bearing bush	3300
Grease nipple	3853.1-2
Mechanical seal	4200.1
Mechanical seal	4200.2
Seal cover	4212.1-2
Spring plate	4263.1-2
Gasket	4590.1-4
O-ring	4610.1-2
O-ring	4610.3
Priming plug	6511
Circlip	6544
Stud	6572.1-4
Socket head cap screw	6579.1-4
Socket head cap screw	6579.5-6
Nut	6580.1-8
Coupling half	7200.1
Coupling half	7200.2
Coupling bush	7414
Coupling guard	7450
Motor	8100
Stuffing box	
Stuffing box gland	4120
Gland packing	4130
Packing seating ring	4133
Lantern ring	4134