



CASTLE PUMPS LTD

Your process delivered.

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

Interchangeable spare parts with other Azcue models to reduce stock holding

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



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

Multistage impeller design enabling very high pressure/suction capabilities

Additional bearing in the pump head to share the strain of operation and increase robustness

Series **MO** Close Coupled Multistage Side Channel Pump

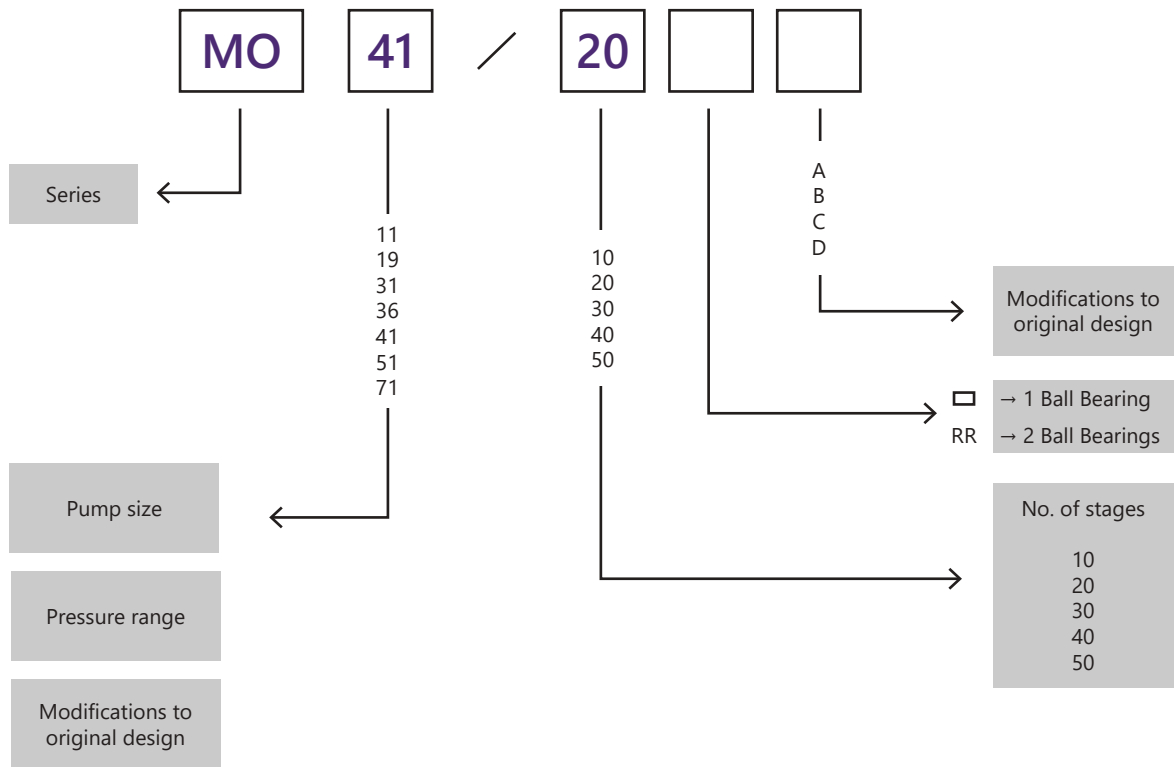
MO Close Coupled Multistage Side Channel Pump



Performance:

Max Flow rate	9 m ³ /h
Max Pressure	225 M
Max Temperature	90°C
Sizes Available	DN1" - 1.5"

Description



Common Applications -

- Aquaculture
- Boiler Feed
- Closed Loop HVAC Circulating
- Condensate Extraction
- Cooling
- Deck Wash
- Lubricant
- Pressure Boosting
- Reverse Osmosis/Desalination
- Sea Water Cooling
- Sea Water Service
- Swimming Pool
- Water Circulating
- Water Supply
- 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
- Multistage design gives it very high pressure/suction 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
- 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

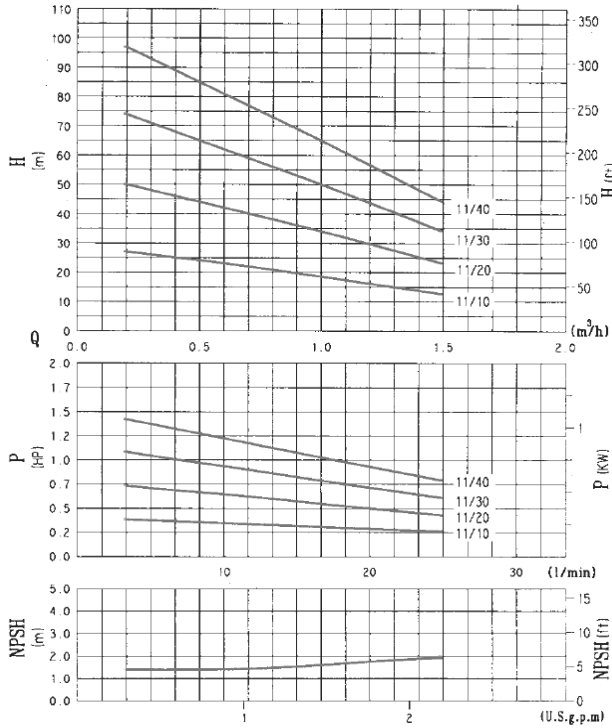
	A	B
Shaft	Stainless Steel (Aisi 316)	Stainless Steel (Aisi 316)
Impeller	Bronze G-CuA110Ni	Bronze G-CuA110Ni
Suction/Discharge casings	GG25	Bronze G-CuSn5ZnPb(Rg5)
Diffuser	GG25	Bronze G-CuSn5ZnPb

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

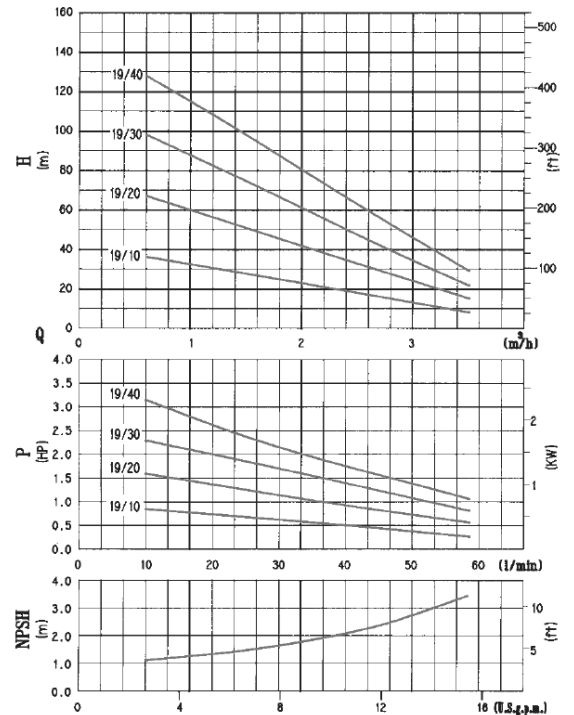
Performance Curves - 50 Hz

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

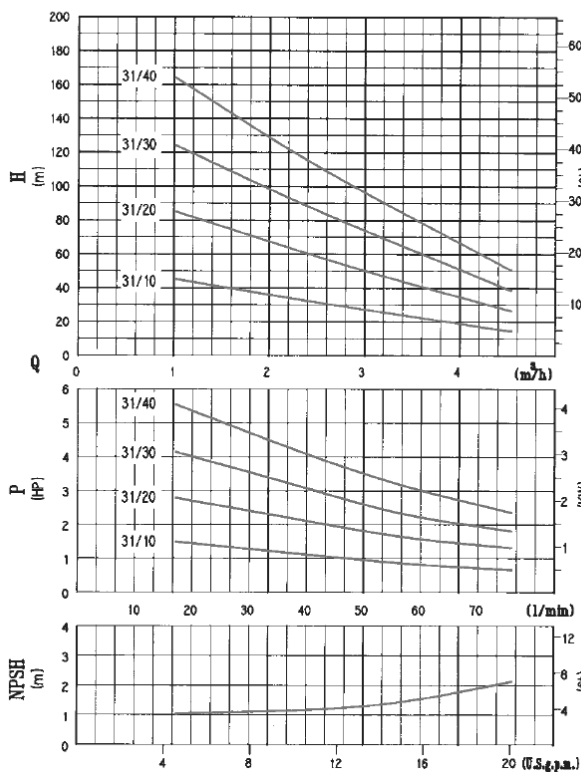
Size 11



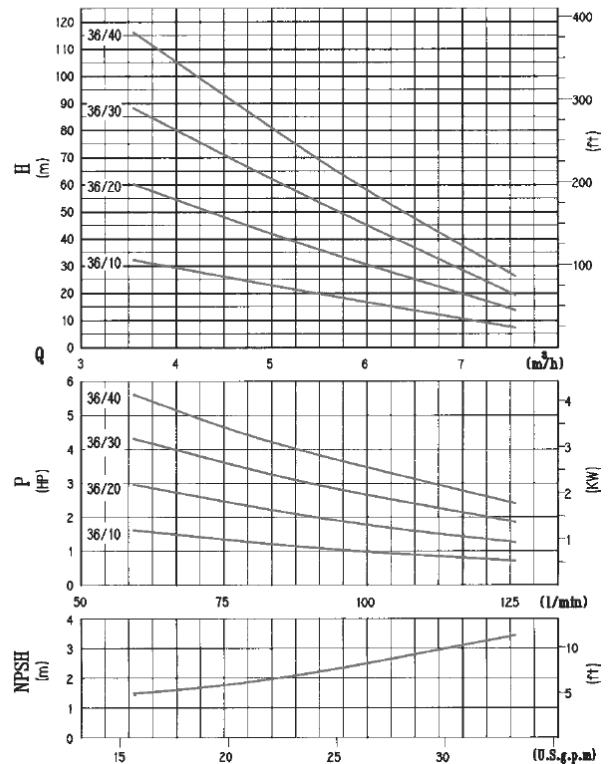
Size 19



Size 31



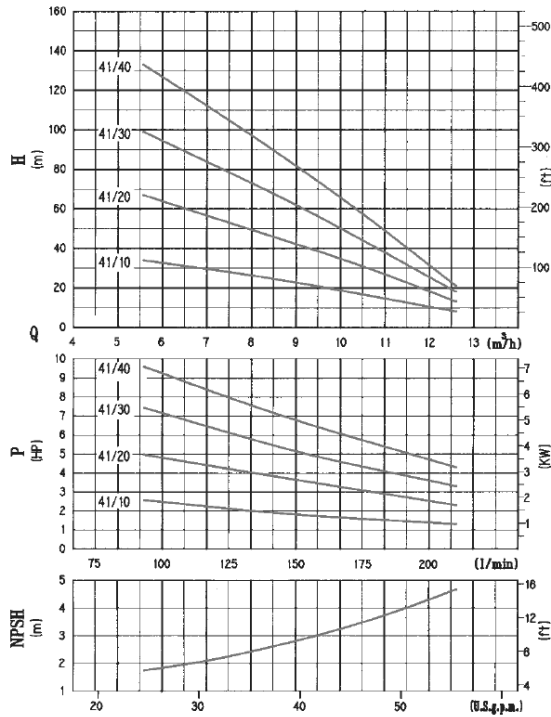
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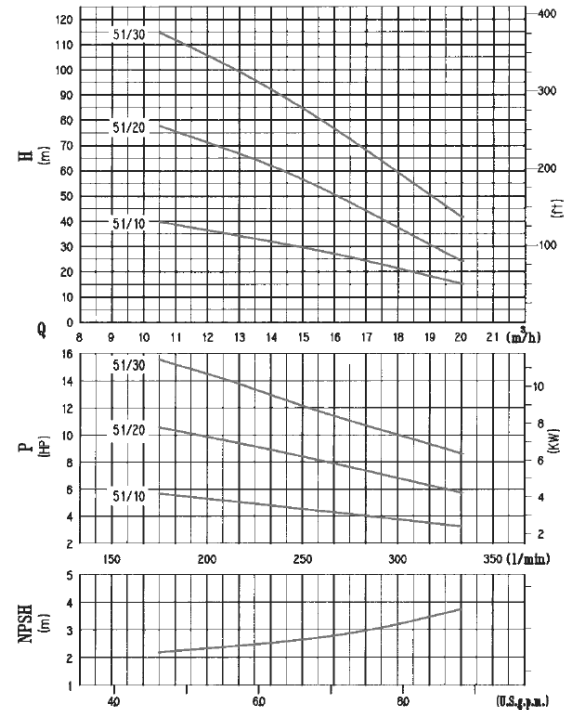
Performance Curves - 50 Hz

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

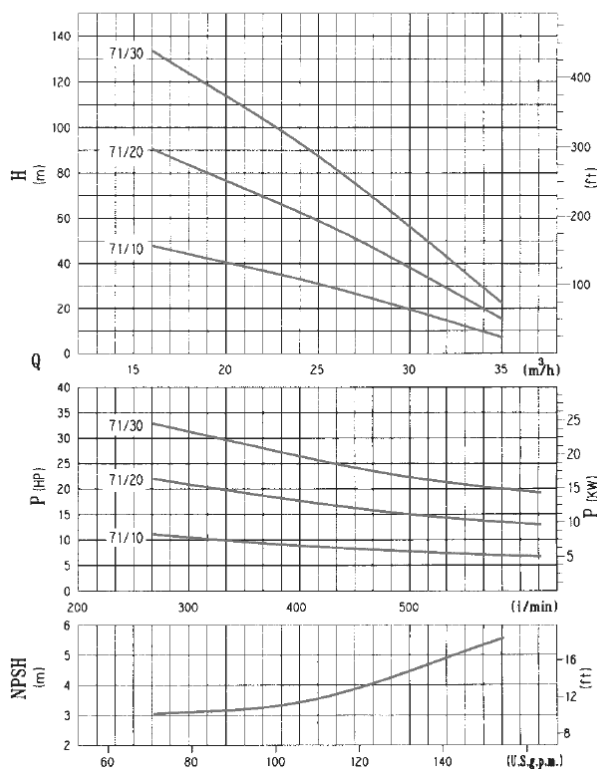
Size 41



Size 51



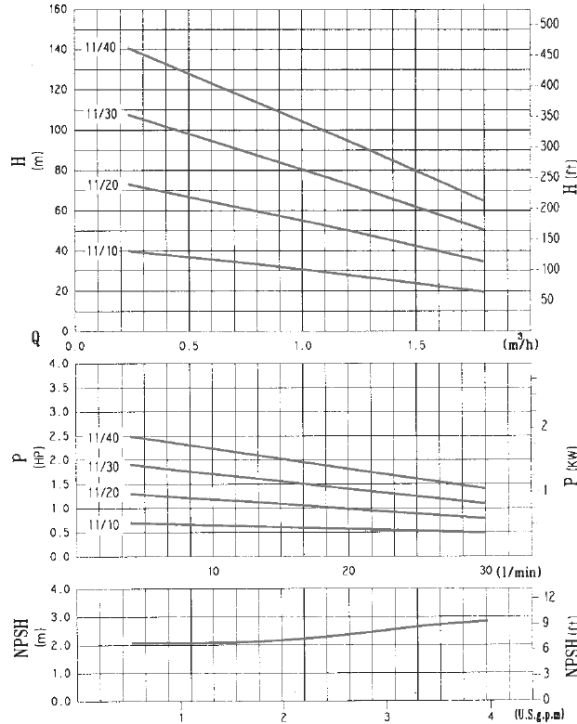
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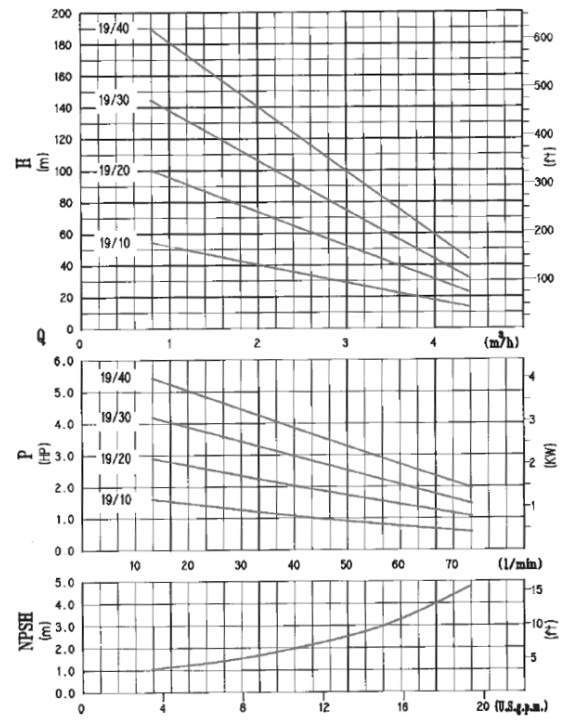
Performance Curves - 60 Hz

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

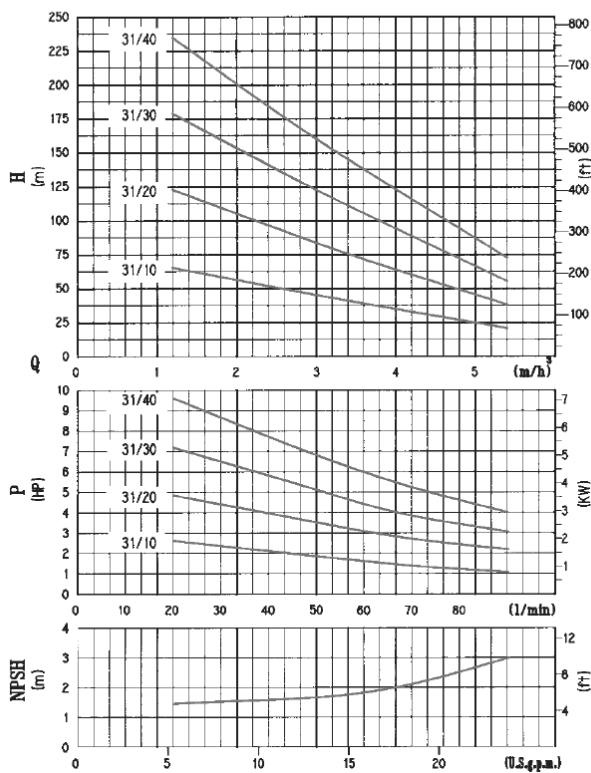
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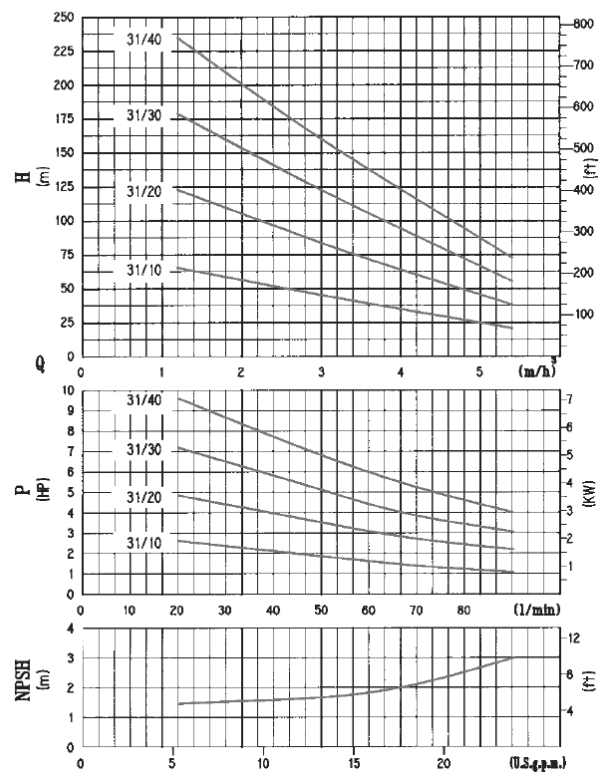
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Size 31



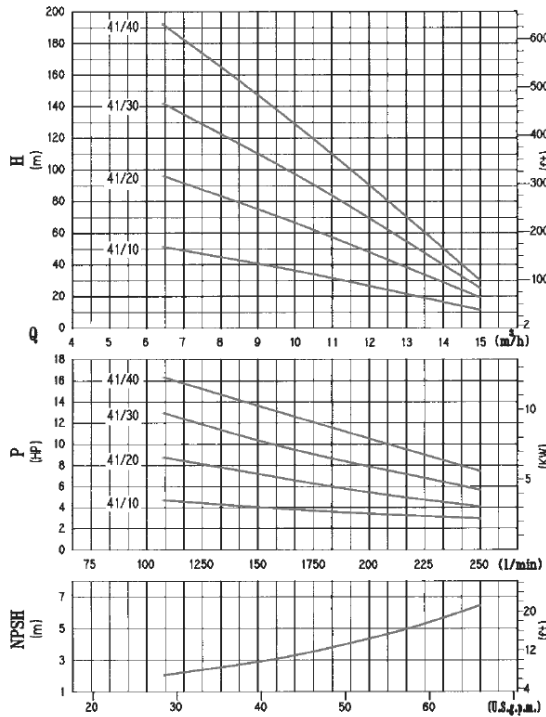
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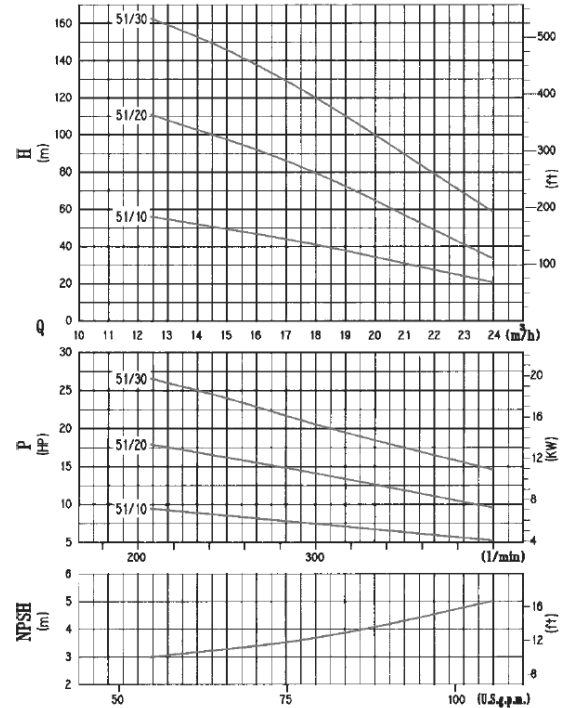
Performance Curves - 60 Hz

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

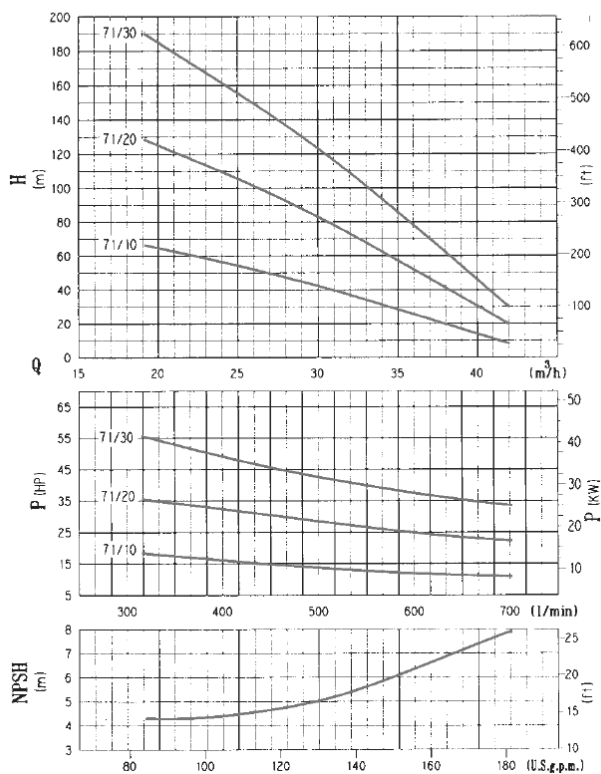
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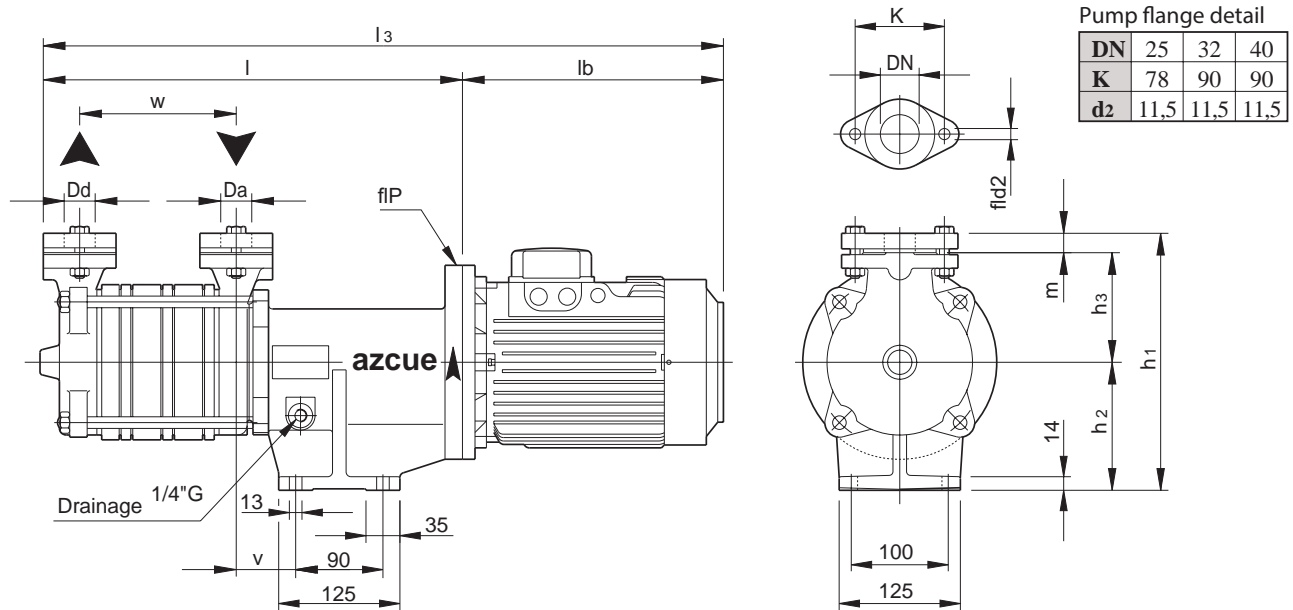


Size 71



Dimensions

MO (1450/1750 r.p.m)

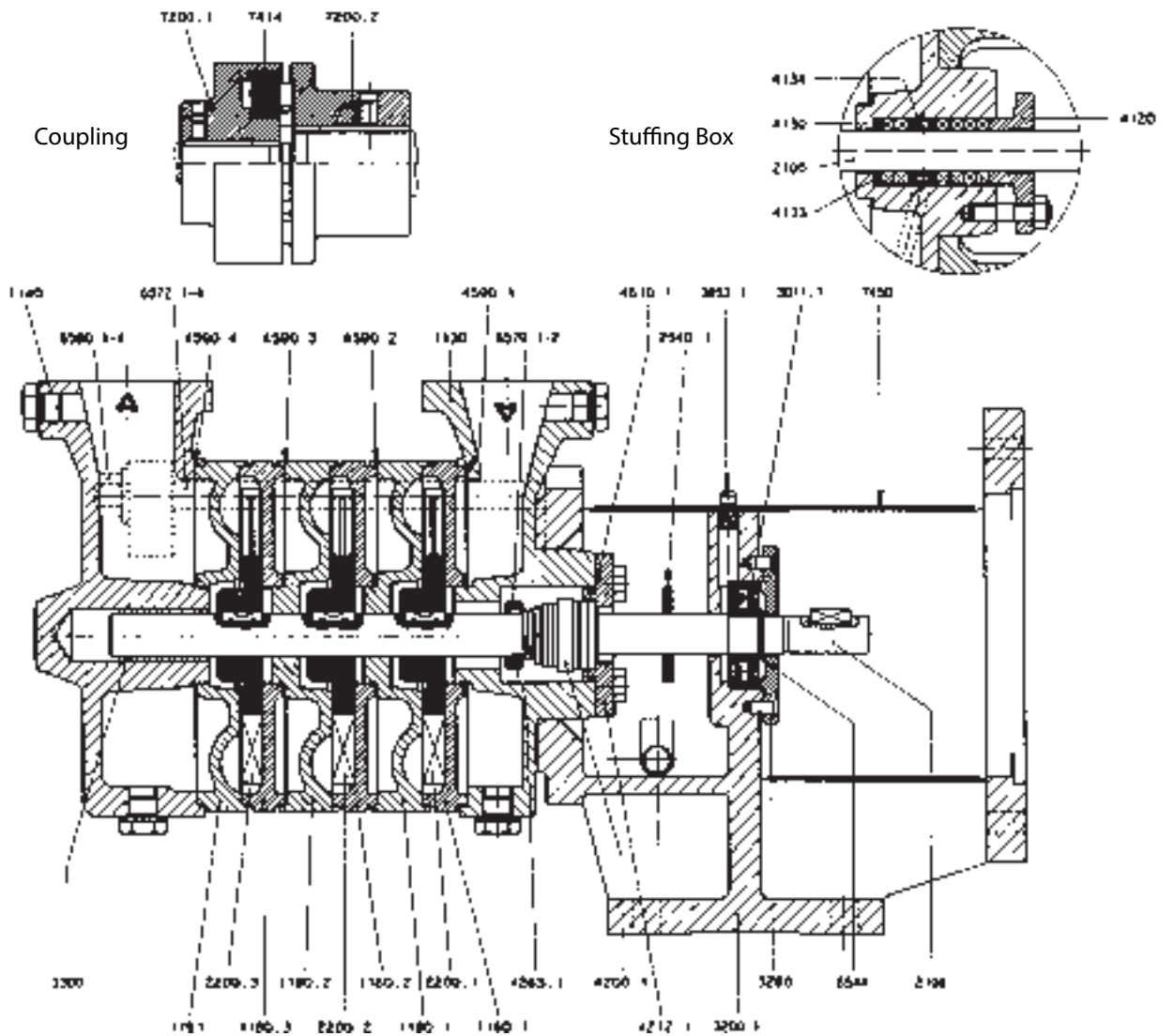


Type MO	Motor			Da	Dd	DN	h1	h2	h3	v	m	p	w	l	lb	l3	Kg									
	KW	HP	Typo																							
11/10 12/10	0.5	0.75	80-a	1" G	1" G	25	222	112	90	63	20	200	76	336	235	571	31									
	0.75	1	80-b												235	571	32									
11/20 12/20	0.5	0.75	80-a												235	605	33									
	0.75	1	80-b												235	605	34									
11/30 12/30	1.1	1.5	90-S												270	640	37									
	0.75	1	80-b												270	639	36									
	1.1	1.5	90-S										270	674	39											
11/40 12/40	1.5	2	90-L										270	674	42											
	1.1	1.5	90-S										270	708	41											
	1.5	2	90-L										270	708	44											
19/10	0.75	1	80-b										1 1/4" G	1 1/4" G	32	257	132	105	61	20	200	80	355	235	590	38
	1.1	1.5	90-S																					270	625	41
19/20	1.1	1.5	90-S	270	661	44																				
	1.5	2	90-L	270	661	47																				
19/30	2.2	3	100-L	310	701	52																				
	1.5	2	90-L	270	697	50																				
	2.2	3	100-L	310	737	55																				
19/40	3	4	100-L	310	737	58																				
	2.2	3	100-L	310	773	58																				
	3	4	100-L	310	773	61																				
31/10 36/10	4	5.5	112-M	310	773	64																				
	0.75	1	80-b	1 1/2" G	1 1/2" G	40	265	132	113	60	20	250										87	362	235	597	39
31/20 36/20	1.1	1.5	90-S										270	632	42											
	1.5	2	90-L										270	632	45											
31/30 36/30	2.2	3	100-L										310	712	53											
	1.5	2	90-L										270	672	48											
	2.2	3	100-L										310	712	56											
31/40 36/40	3	4	100-L										310	752	56											
	3	4	100-L										310	752	59											
	4	5.5	112-M										310	752	62											
31/40 36/40	2.2	3	100-L										310	792	59											
	3	4	100-L										310	792	62											
31/40 36/40	4	5.5	112-M										310	792	65											

Subject to alterations

*Optional

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