English

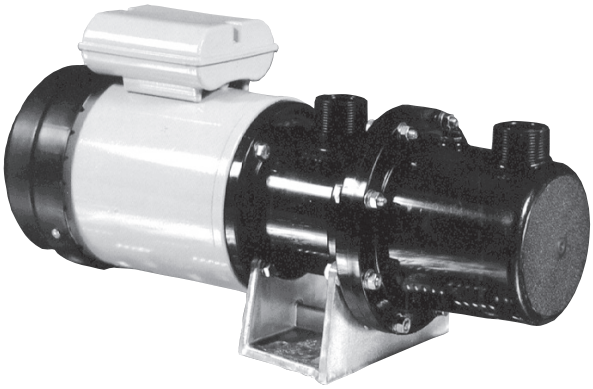
MONO™ Agricultural Products

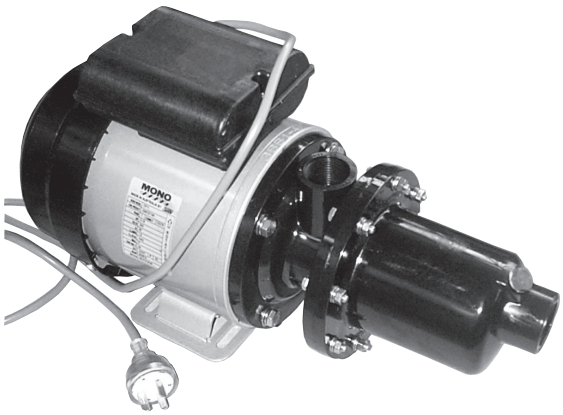
CP - Product Manual

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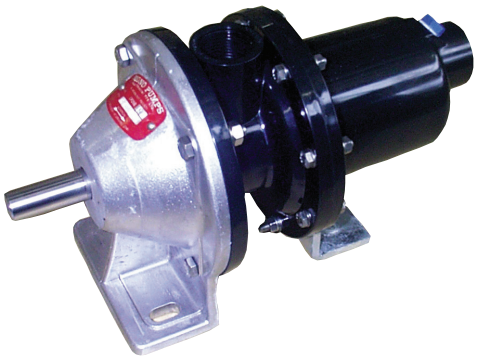
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Motorised





The MONO CP range of pumps are ideal for drawing water from spears, wells, dams, creeks or shallow bores. The materials of construction provide a high resistance to alkalis, organic chemicals, oils, septic effluents and domestic or industrial waste. The gentle pumping action makes the CP range a favourite choice in wineries for wine transfer duties.



FEATURES:

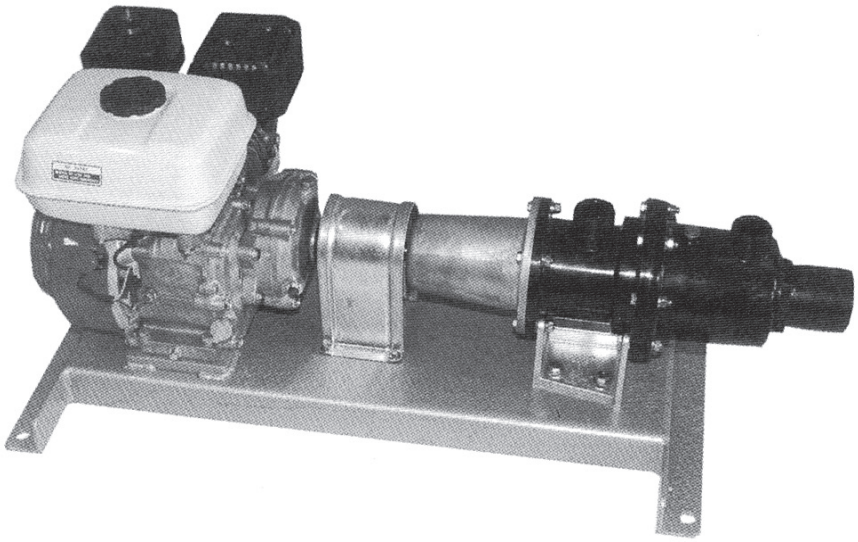
- 4 models with flows to 125 lpm (1650 GPH).
- Discharge heads to 28m (92 ft).
- Close coupled 1450 rpm single or three phase motors.
- Three phase Star/Delta (6 wire) motors standard.
- Bareshaft models available.
- Stainless steel internal rotating parts.
- Pump housings in tough, engineering grade acetal co-polymer plastic.
- Brine injection package available.
- Self priming to 6m (20 ft).
- Suitable for single phase frequency controllers.

BENEFITS:

- Exceptional suction capabilities.
- Rotor stator design is highly tolerant of silty or sandy water.
- Corrosion resistant rotating parts and housings.
- Simple and easy to maintain.

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Molasses Feed Pumping Unit



DESCRIPTION:

FEATURES:

- NOV offers an affordable packaged pump solution to pumping feed supplement molasses on the farm.
- Our helical rotor design operating at low RPM, and our 3" inlet port produce reliable pumping and long life at a budget price.
- The molasses feed pumping units are ideal for pumping from storage tanks to drums and portable enough to be used on site pumping from drums to stock troughs.
- Provision is available for water flushing on all units.

APPLICATIONS:

- Due to the high viscosity of molasses it becomes thinner and flows more readily as temperature increases. Ideally molasses should be no less than 20°C. Due to the variation in molasses consistencies care should be taken to ensure molasses will flow prior to pumping.

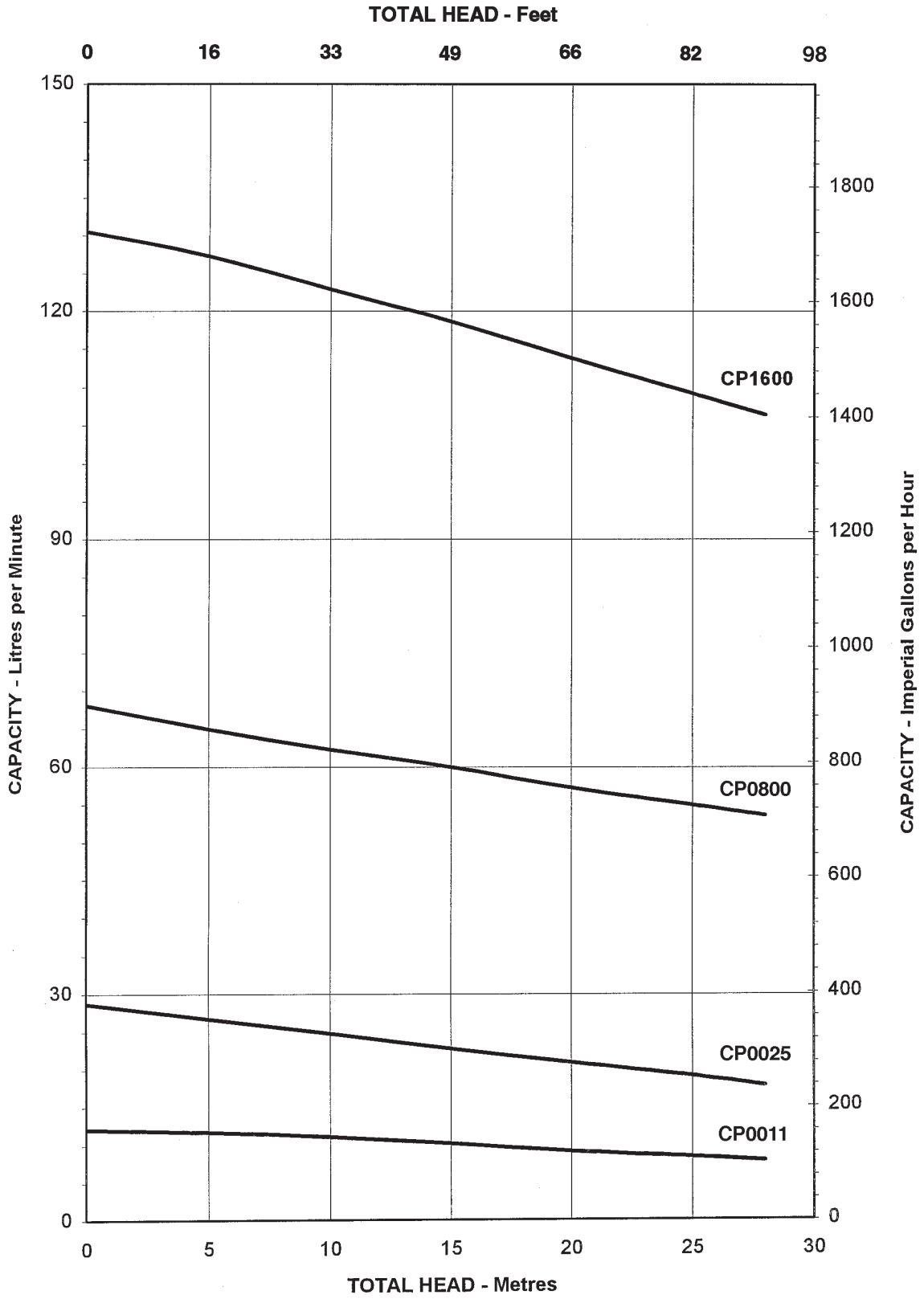
WATER FLUSHING:

- All molasses feed pumps come with an 1 1/2" BSP capped port on the suction chamber. This port can be used for flushing of pump after use, as well as providing water injection into molasses to assist in pumping.

MATERIALS OF CONSTRUCTION:

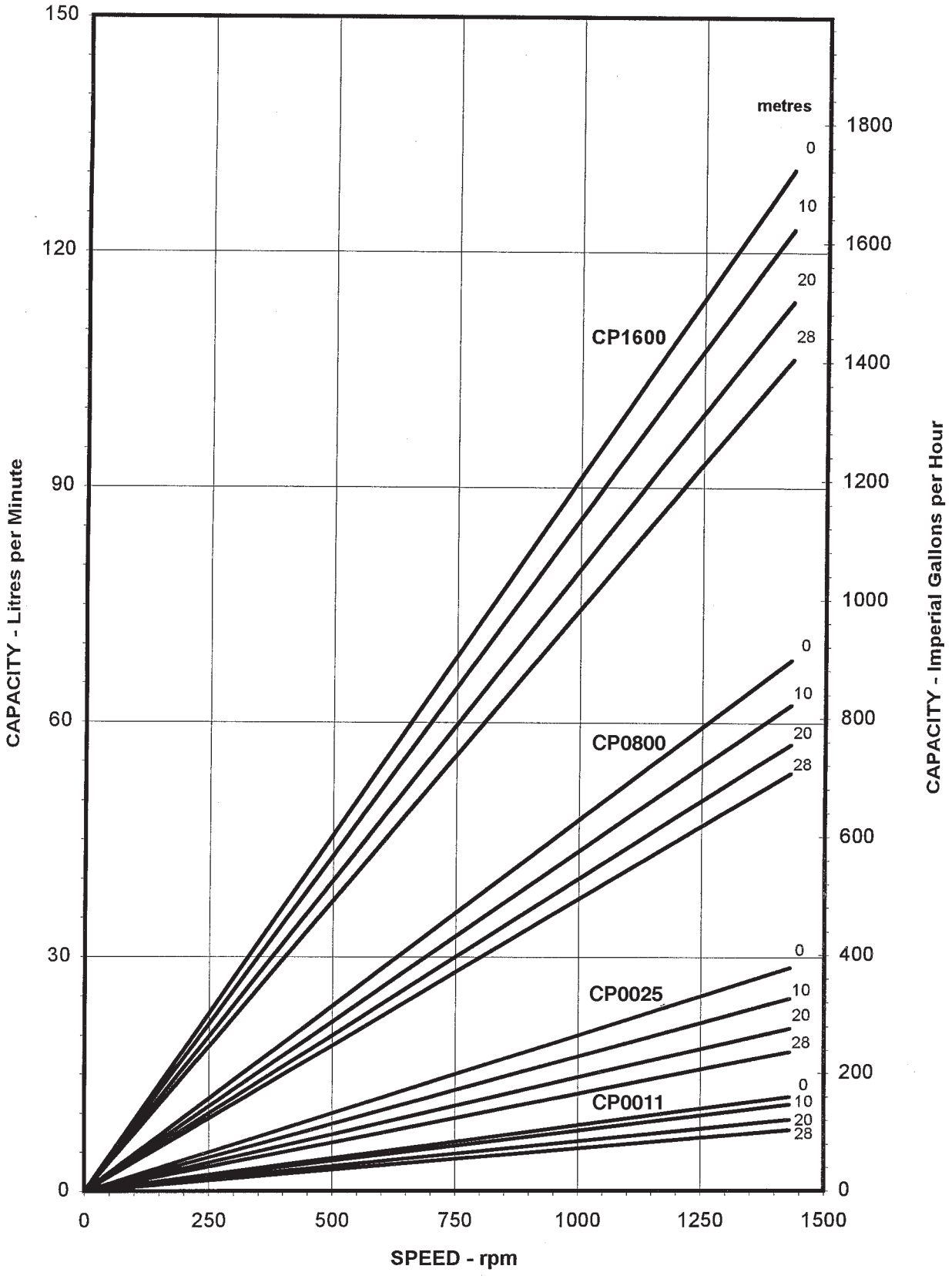
- Co-Polymer wet end.
- Nitrile stator.
- 431 Stainless steel rotor.

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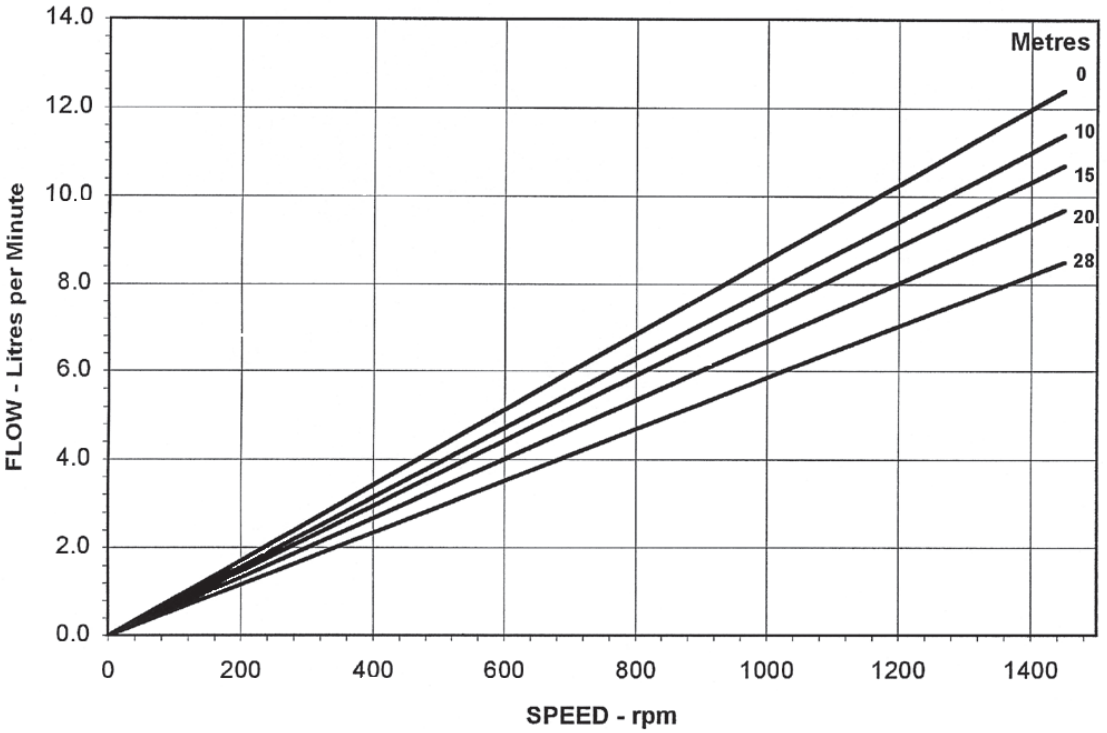


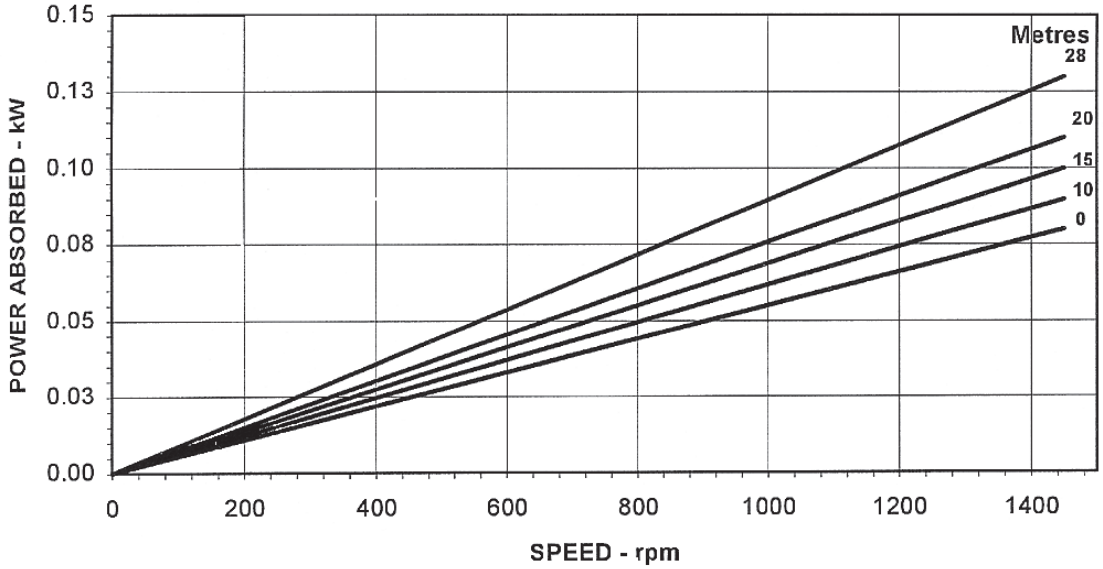
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MONO™ Agricultural Products	SELECTION	Title: CP Section: 6 Page: 6 Date: April 2014
	CP Bareshaft Curve	

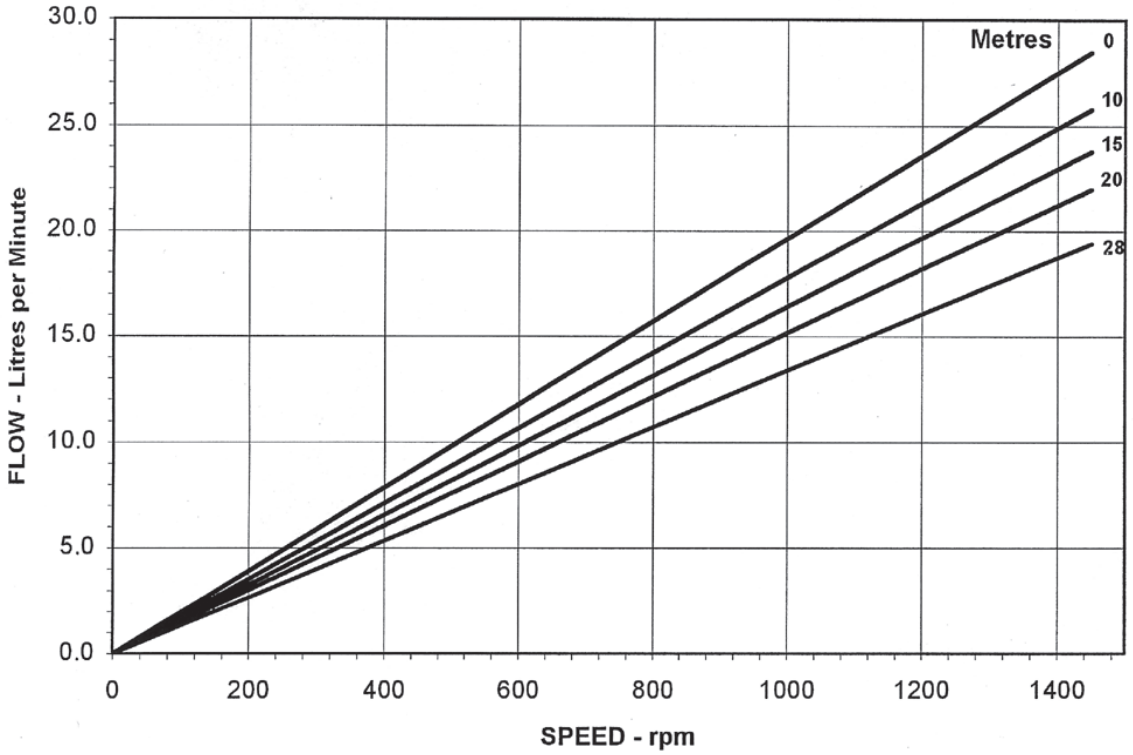


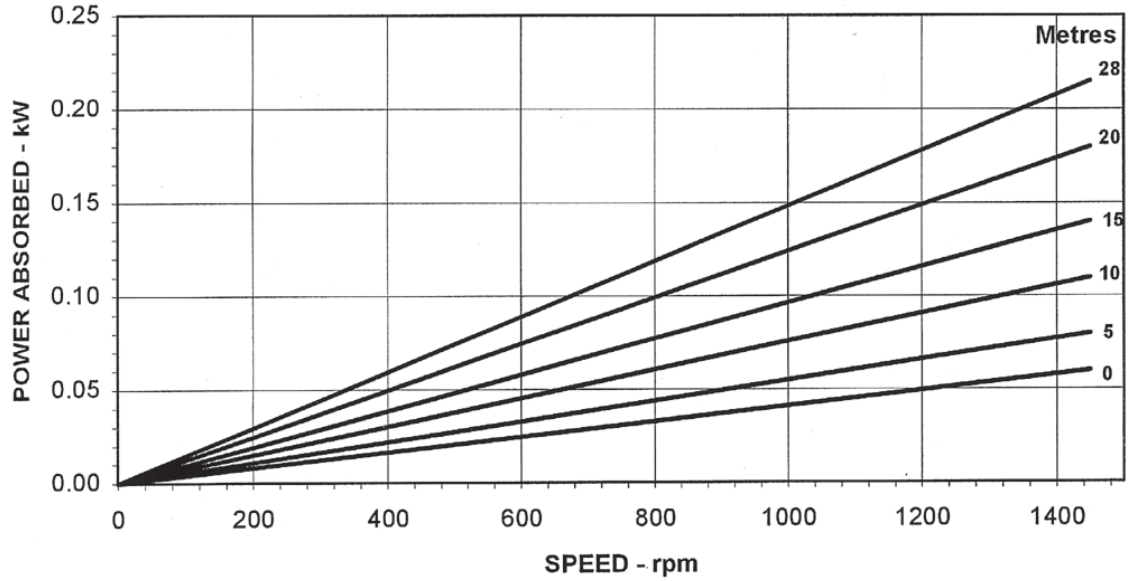
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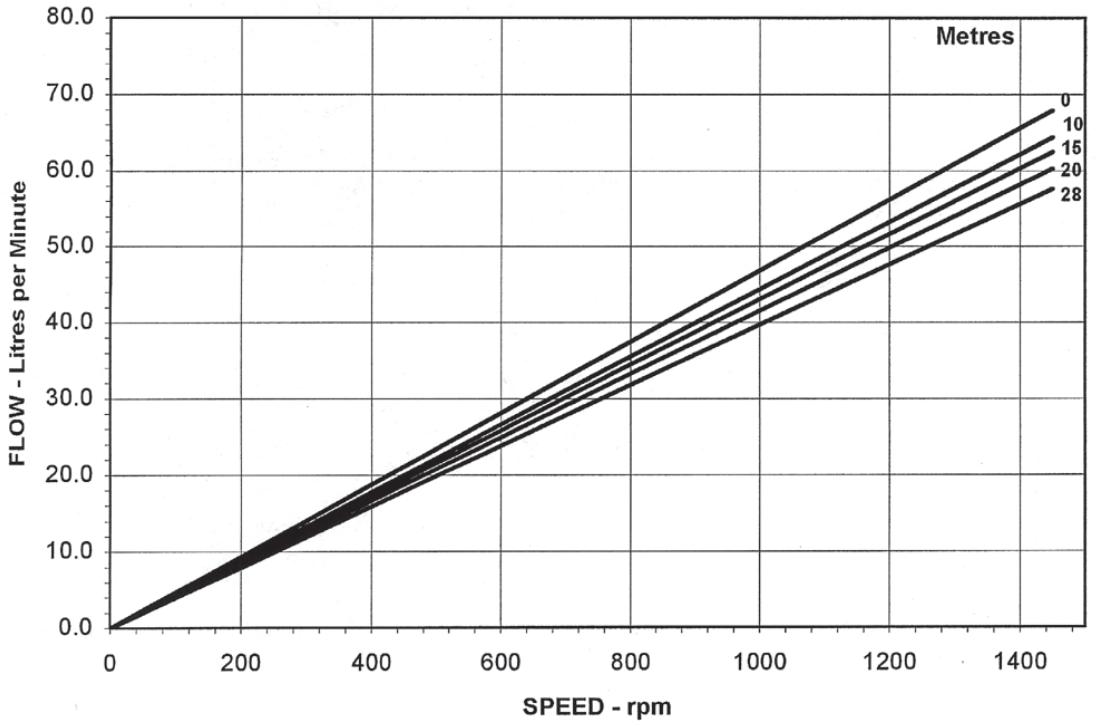


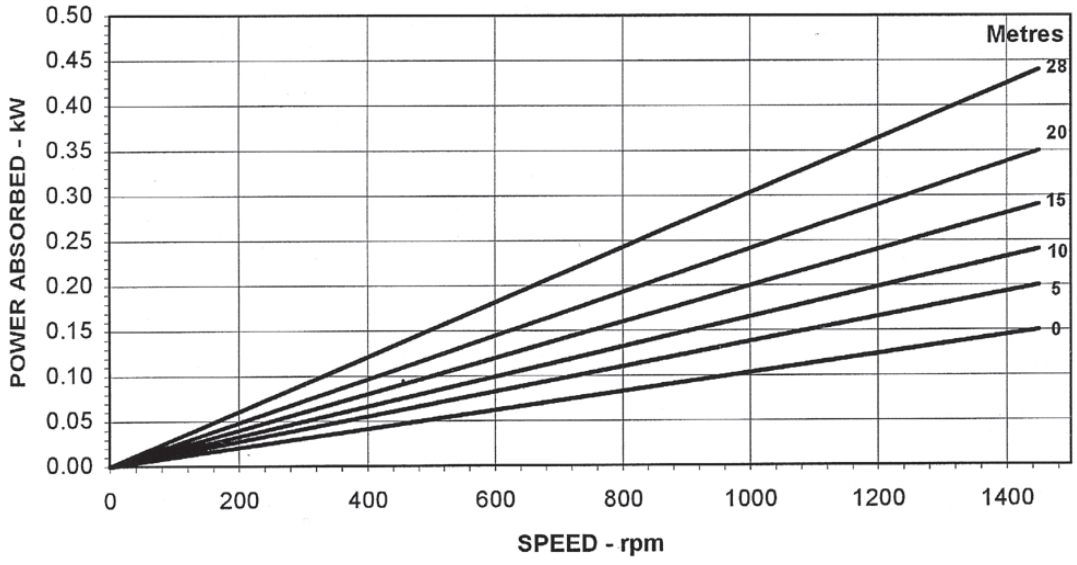
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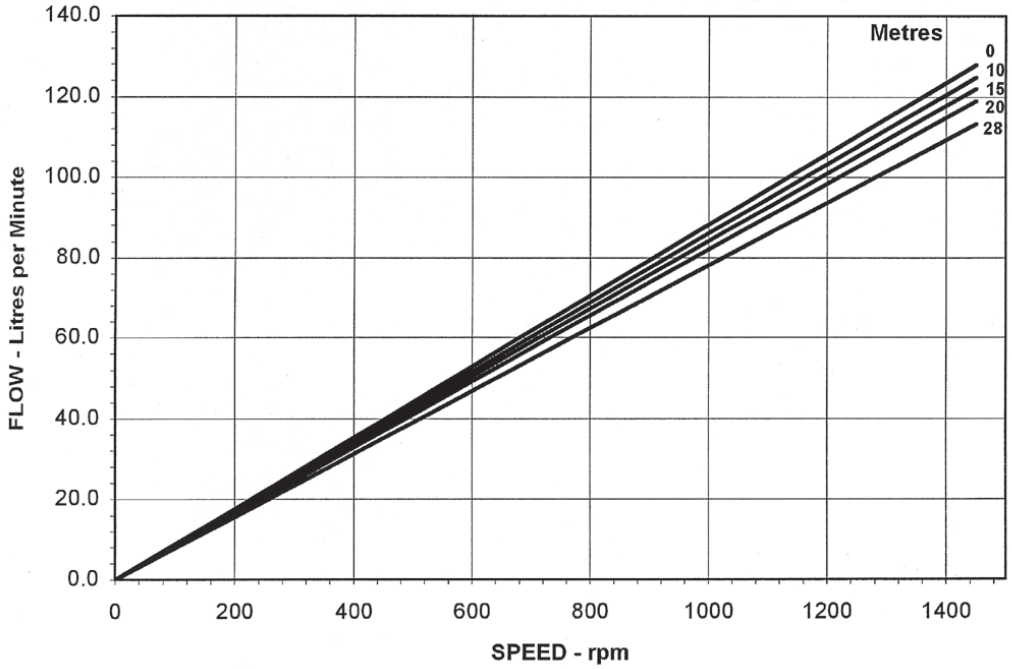


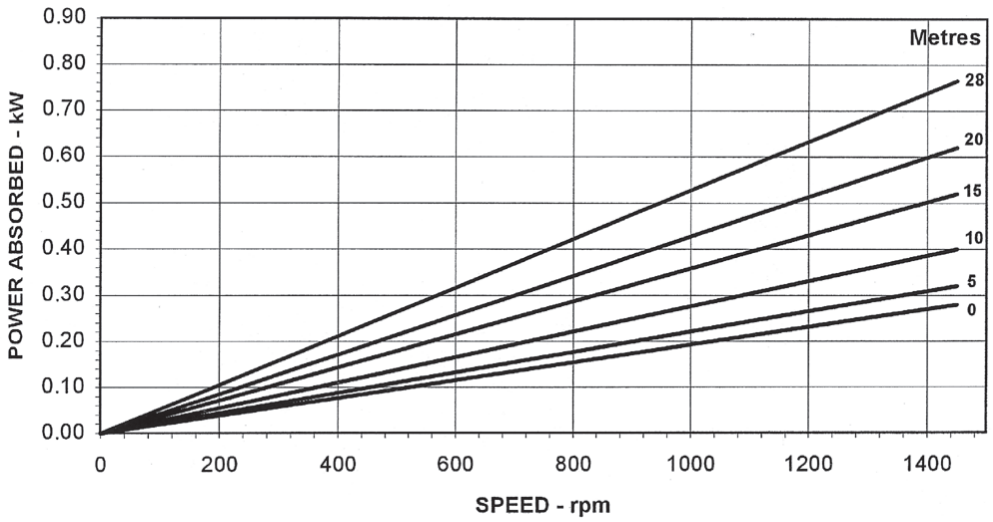
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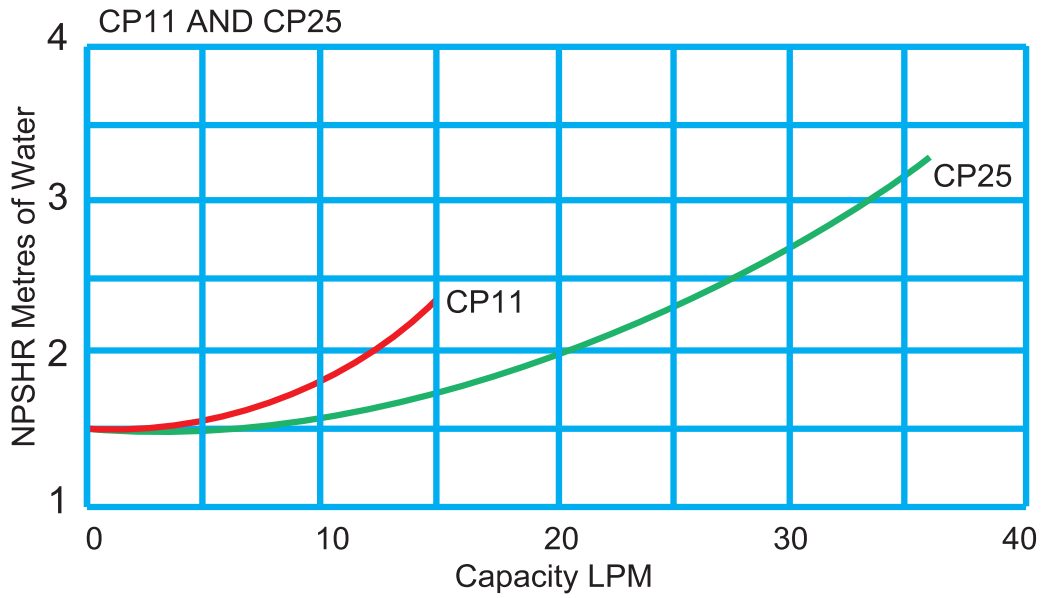


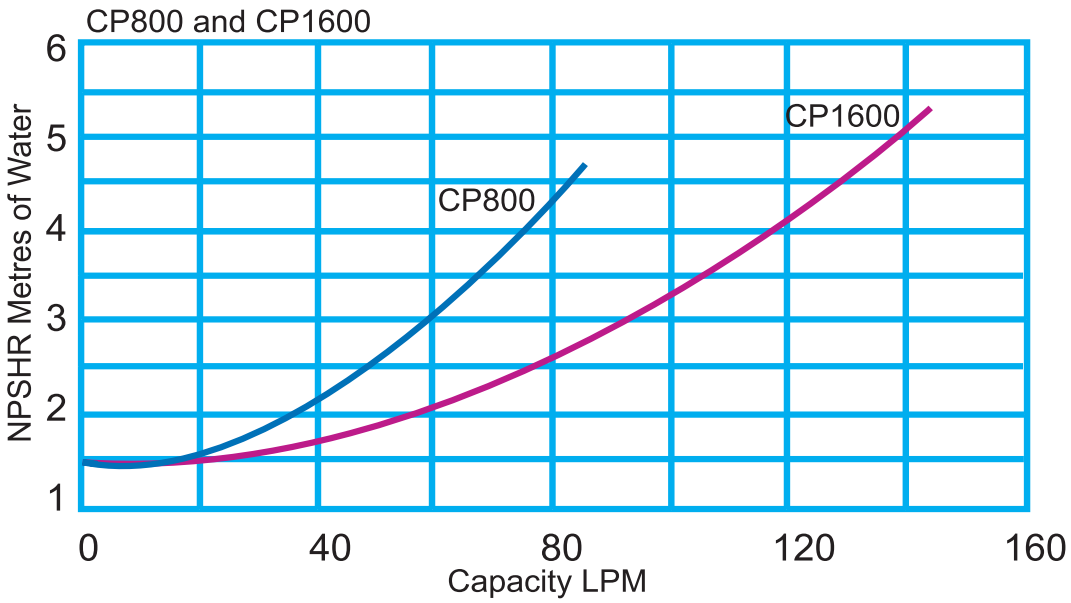
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Metres
0
10
15
20
28
FLOW - Litres per Minute
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
0
200
400
600
800
1000
1200
1400
SPEED - rpm


Metres
28
20
15
10
5
0
POWER ABSORBED - kW
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
200
400
600
800
1000
1200
1400
SPEED - rpm

PUMP SUCTION:





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PUMPING HOT LIQUIDS:

Chart shows maximum pressure (kpa) at temperature indicated					
Temperature:	0°C	40°C	60°C	80°C	Max.°C
Pump/Stator Material					
CP0011/0025/Natural	280kpa	280kpa	250kpa		70
CP0800/1600/Natural	250kpa	220kpa	200kpa		70
CP0011/0025/Nitrile	280kpa	280kpa	250kpa	200kpa	100
CP0800/1600/Nitrile	50kpa	220kpa	200kpa	170kpa	100
CP0011/0025 High Nitrile	270kpa	240kpa	200kpa	150kpa	100
CP0800/1600/H.Nitrile	200kpa	170kpa	150kpa	120kpa	100
CP0011/0025/Hypalon	280kpa	280kpa	250kpa	200kpa	100
CP0011/0025/Viton	220kpa	200kpa	170kpa	150kpa	100+*

*Consult the technical Manager as body temperature and limitations apply.

STANDARD STATOR OPTIONS:

- Natural
- Nitrile
- Hypalon
- High nitrile
- Viton

Note: The CP is unsuitable for acidic applications.

For salt water the CP0011 and CP0025 is supplied with 316 SS rotating parts. This option is not available as standard on the CP0800 or CP1600.

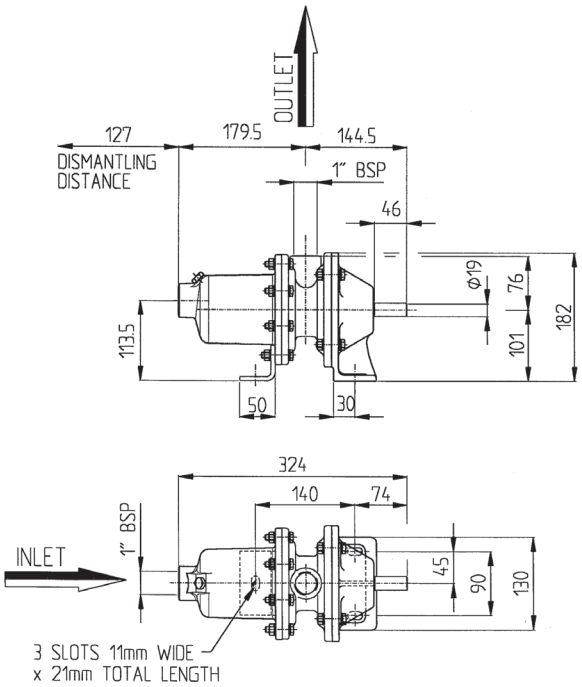
APPLICATIONS GUIDE:

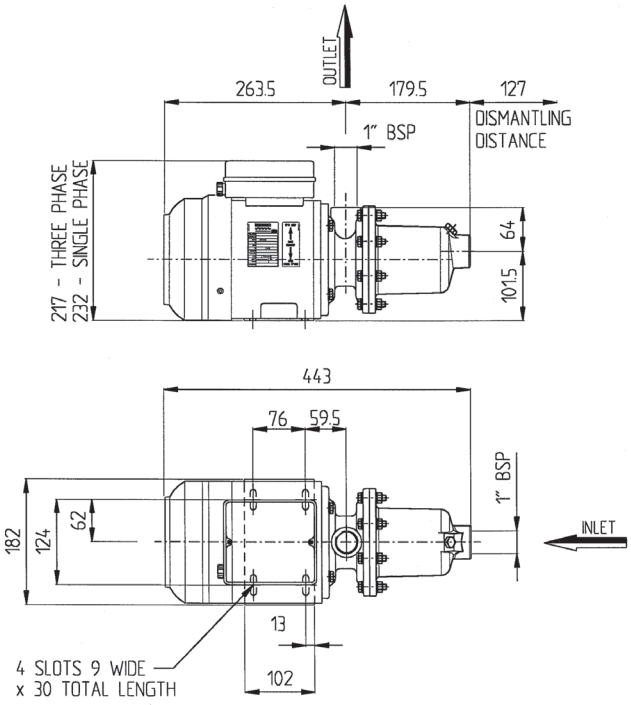
With standard Nitrile stators the CP range can be used to pump a variety of liquids such as septic effluent, soap solutions, ammonium hydroxide, beer, water, glycerine, wines etc. With special stators the pump can be applied to handle diesel oils, kerosene, mineral oil, copper sulphate (to 40%), etholene glycol, mineral turpentine, dichlorobenzene etc.

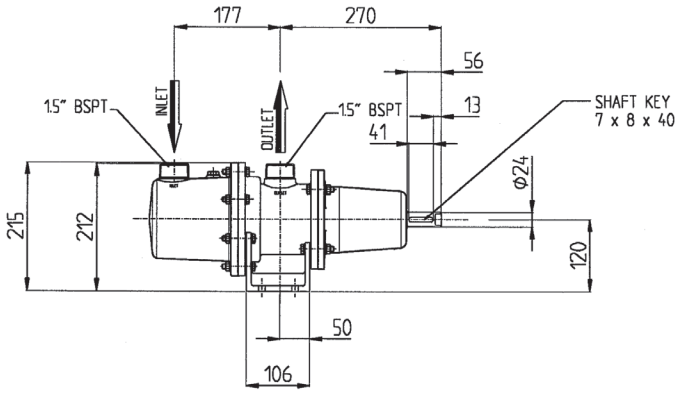
The MONO CP is unsuitable for acids below PH6 due to the limitation of the engineering plastic used to manufacture the pump body. NOV have a range of materials from which we make pumps of smaller or greater capacity than the CP. We would be pleased to recommend suitable pumps for specific applications.

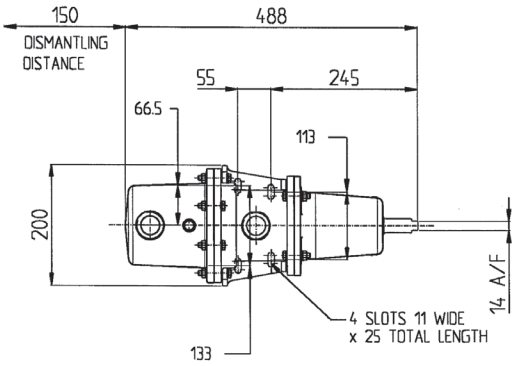
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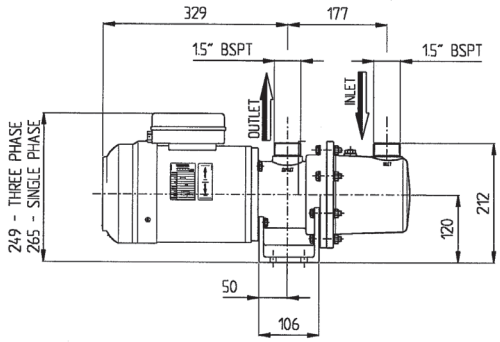
MODEL	DESCRIPTION	MAX RPM	MAX HEAD	FLOW
CP0800M1100	Bareshaft Unit	400	30m	15 lpm
CP0800MA1S	Vee Drive 1.1kW 1PH Assembly	400	30m	15 lpm
CP0800M-PETROL	Petrol Drive Assembly	400	30m	15 lpm
CP1600M1100	Bareshaft Unit	400	30m	30 lpm
CP1600MA1S	Vee Drive 1.1kW 1PH Assembly	400	30m	30 lpm
CP1600M-PETROL	Petrol Drive Assembly	400	30m	30 lpm
SUCT-KIT	Suction Kit to 3" BSP Male	-	-	-

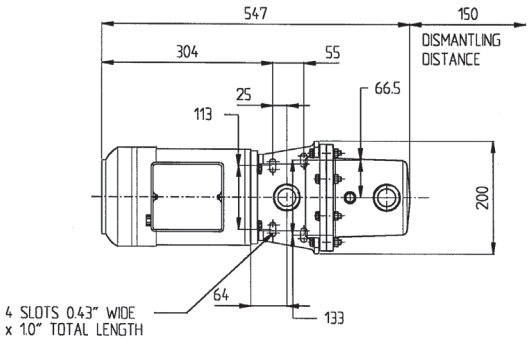

OUTLET
127
DISMANTLING DISTANCE
179.5
144.5
1" BSP
46
Ø19
76
182
101
113.5
50
30
324
140
74
INLET
1" BSP
45
90
130
3 SLOTS 11mm WIDE
x 21mm TOTAL LENGTH

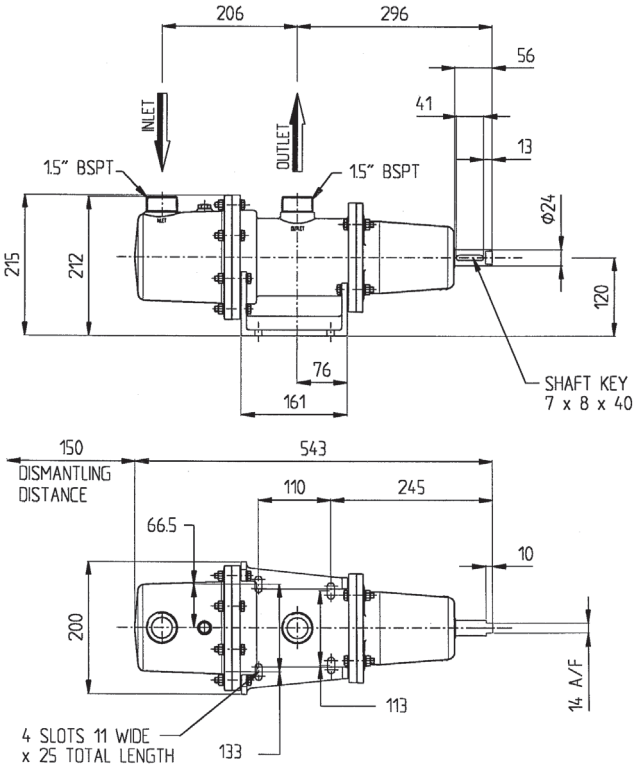

OUTLET
263.5
179.5
127
DISMANTLING DISTANCE
1" BSP
217 - THREE PHASE
232 - SINGLE PHASE
64
101.5
443
76
59.5
1" BSP
182
124
62
INLET
13
4 SLOTS 9 WIDE
x 30 TOTAL LENGTH
102

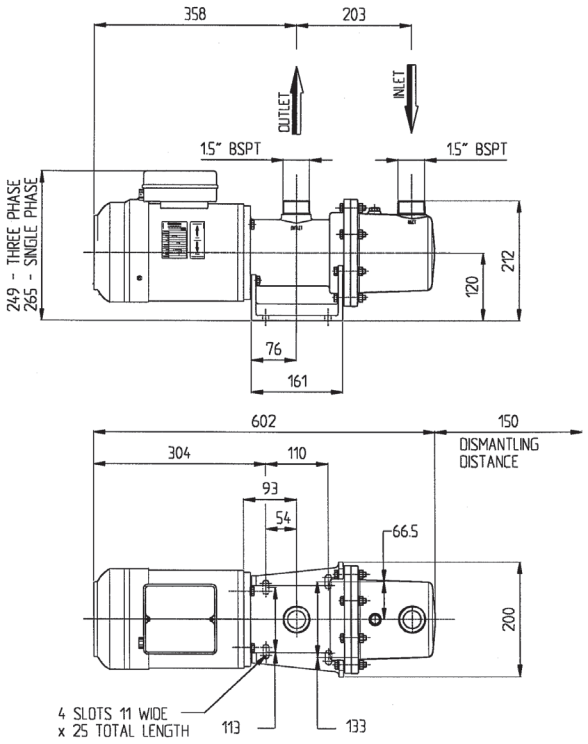

177
270
56
1.5" BSPT
INLET
OUTLET
1.5" BSPT
13
41
SHAFT KEY
7 x 8 x 40
Ø24
215
212
120
50
106

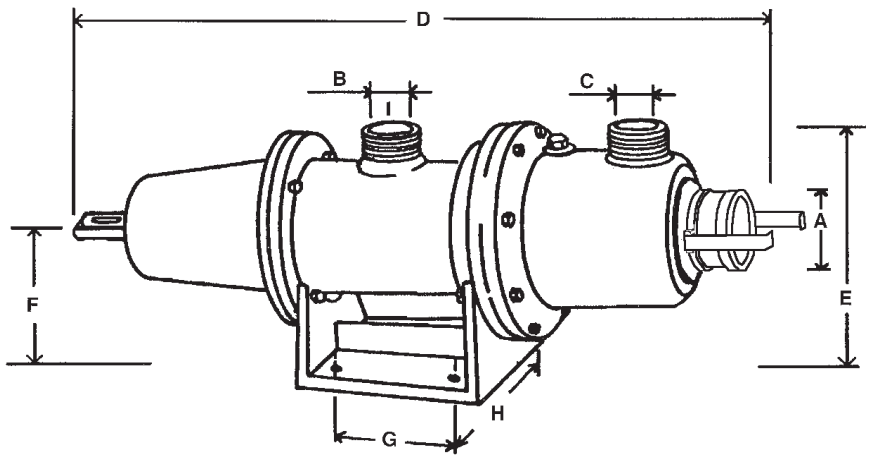

150
DISMANTLING
DISTANCE
488
55
245
66.5
113
200
14 A/F
4 SLOTS 11 WIDE
x 25 TOTAL LENGTH
133


329
177
1.5" BSPT
1.5" BSPT
OUTLET
INLET
249 - THREE PHASE
265 - SINGLE PHASE
120
212
50
106


547
150
DISMANTLING
DISTANCE
304
55
25
66.5
113
200
64
133
4 SLOTS 0.43" WIDE
x 1.0" TOTAL LENGTH


206
296
56
41
13
INLET
OUTLET
1.5" BSPT
1.5" BSPT
Φ24
215
212
120
76
161
SHAFT KEY
7 x 8 x 40
150
DISMANTLING
DISTANCE
543
110
245
66.5
10
200
14 A/F
113
4 SLOTS 11 WIDE
x 25 TOTAL LENGTH
133


358
203
OUTLET
INLET
1.5" BSPT
1.5" BSPT
249 - THREE PHASE
265 - SINGLE PHASE
212
120
76
161
602
150
DISMANTLING
DISTANCE
304
110
93
54
66.5
200
4 SLOTS 11 WIDE
x 25 TOTAL LENGTH
113
133



		CP0800M	CP1600M
A.	Suction Port Diameter	3"	3"
B.	Discharge Port	1 1/2" BSP	1 1/2" BSP
C.	Water Flush Port	1 1/2" BSP	1 1/2" BSP
D.	Overall Length	588	641
E.	Overall Height	212	212
F.	Centre Height	120	120
G.	Mount Centres	55	110
H.	Mount Centres	135	135
Shaft Diameter		24mm	
Key Detail		8 x 7mm	
Rotation		Clockwise viewed from shaft end	

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