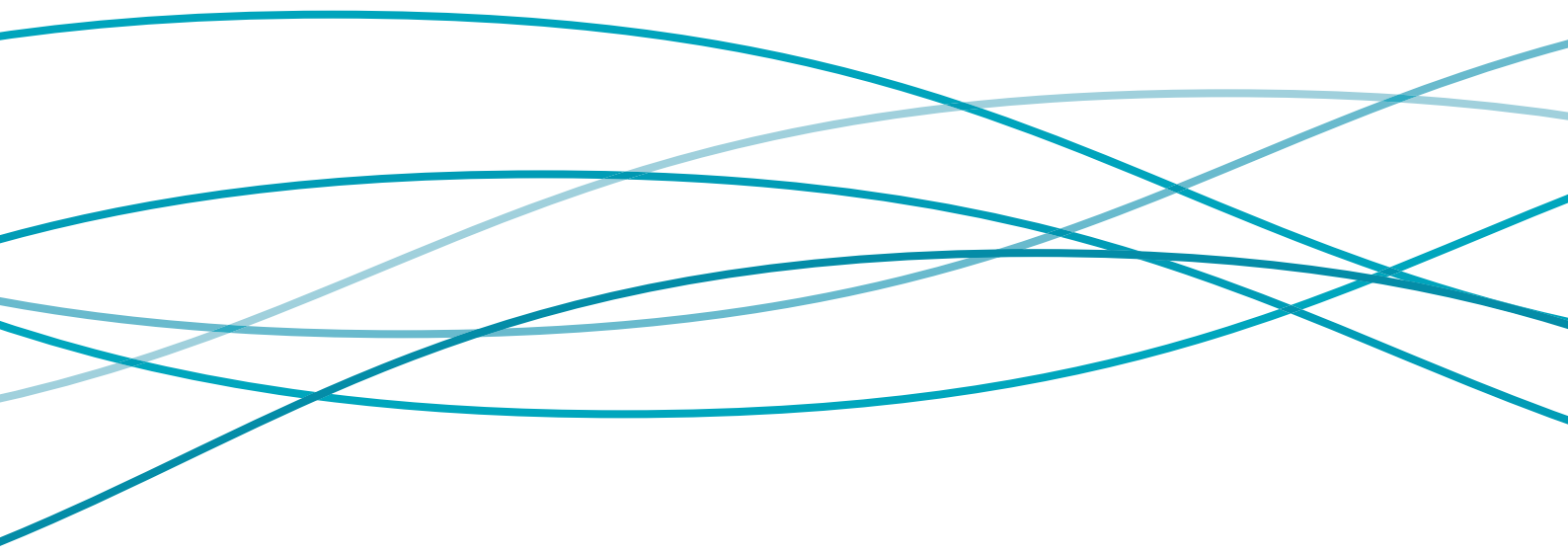


Agricultural Water Pumping Systems



Mono[®] **NOV**

One Company, Unlimited Solutions





CP Pump

- Ideal for drawing water from 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 CP Brine Injection unit for meat curing can be found in nearly every butchers shop in the country.
- The gentle pumping action makes the CP range a favourite in wineries for wine transfer duties.

Features & Benefits

Capacity up to 2.08 lps

Heads up to 28m

Motor Options 240v and 415v

Maximum Speed 1450 rpm

Typical applications include:

- Milk
 - Honey
 - Food colour
 - Fruit juice
 - Wine
 - Detergents
 - Mustard
 - Domestic water supply
 - Septic effluent
 - Brine injection for meat curing
 - Oily water
 - Molasses transfer stock feed
-

Feature	Benefit
Single mechanical seal	Low maintenance
Self priming up to 6m	High suction lifts
Tough engineered grade acetal co-polymer plastic housing	Long lasting, low replacement costs
Stainless steel internal rotating parts	Corrosion free, long life
Close coupled drive arrangement	Compact in size
Simple and easy to maintain	Low maintenance
Integral mounting bracket	Ease of installation
Tropical proof motor as standard	Can be installed outside
BSP threaded port connections	Ease of installation
Stainless steel fasteners	Long Life
Bareshaft options	Optional drive selections

The Great Little All Rounder



Close Coupled Pump



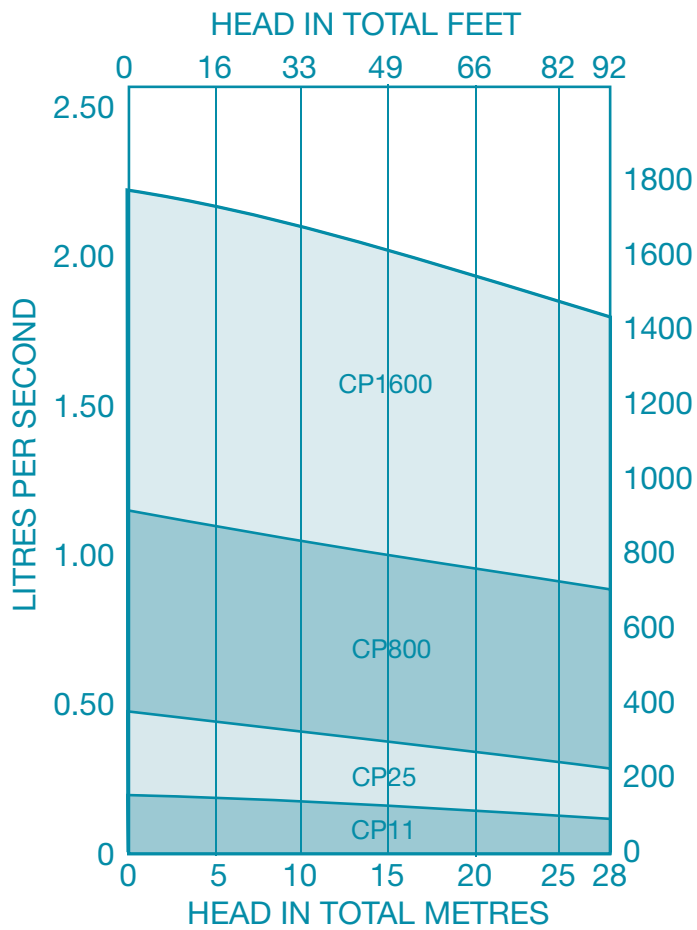
Molasses Feed Pump



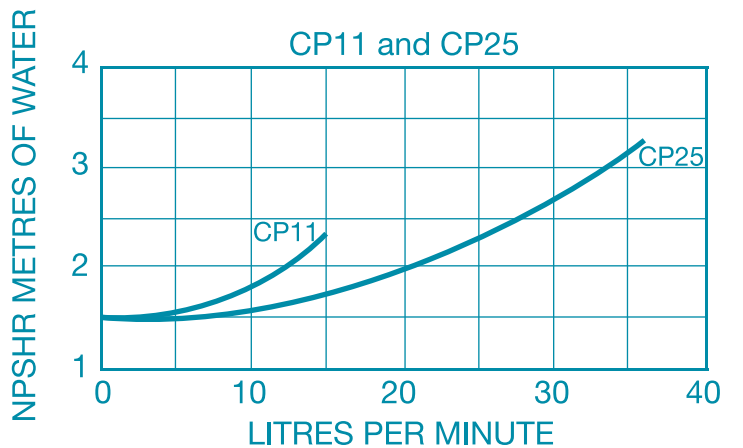
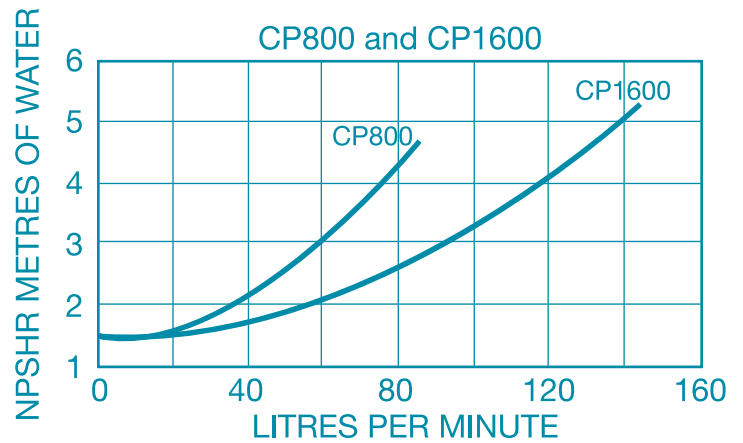
Brine Injection Unit



Shallow Bore



*For pressures above 28 metres contact Mono Pumps Technical.





ASP Range Surface Pump

- Stainless steel wear resistant rotor with hard chrome plating and stainless steel shaft for corrosion-free long life
- Titanium Tuff Flexishaft® for improved strength, corrosion resistance and a shorter pump
- The Mono ASP has excellent self priming and suction capabilities
- Energy saving efficient pump design. The Mono ASP Motorotor® gets the most out of any power bill

Features

- Sand, Silt Tolerant
- Easy Priming
- Long Delivery
- Consistent Flow vs Head
- Shallow Wells

Applications include:

- Tank Filling
- Stock Watering
- Dam Water
- Creek Water
- Shallow Wells

Complete Packaged Systems:

Diesel:

Available with either Yanmar or Kubota diesel motors.

Petrol:

Honda petrol motor.

Electric:

240V / 480V - 1 phase
415V - 3 Phase

Package Includes:

- Pump
- Motor
- Clutch
- Belt & Pulleys
- Galvanised Base
- Safety Guard



Positive Drive Shaft

High quality, robust, keyed drive for positive power transmission.

Bearing Housing

Industrial strength bearings are easy to get at and maintain.

Secure Seals
Simple, single mechanical seal.

Turbulence Stops Here
High capacity discharge chamber for smooth flow.

4-Way delivery
is possible - left, right, up or down to suit your connections.

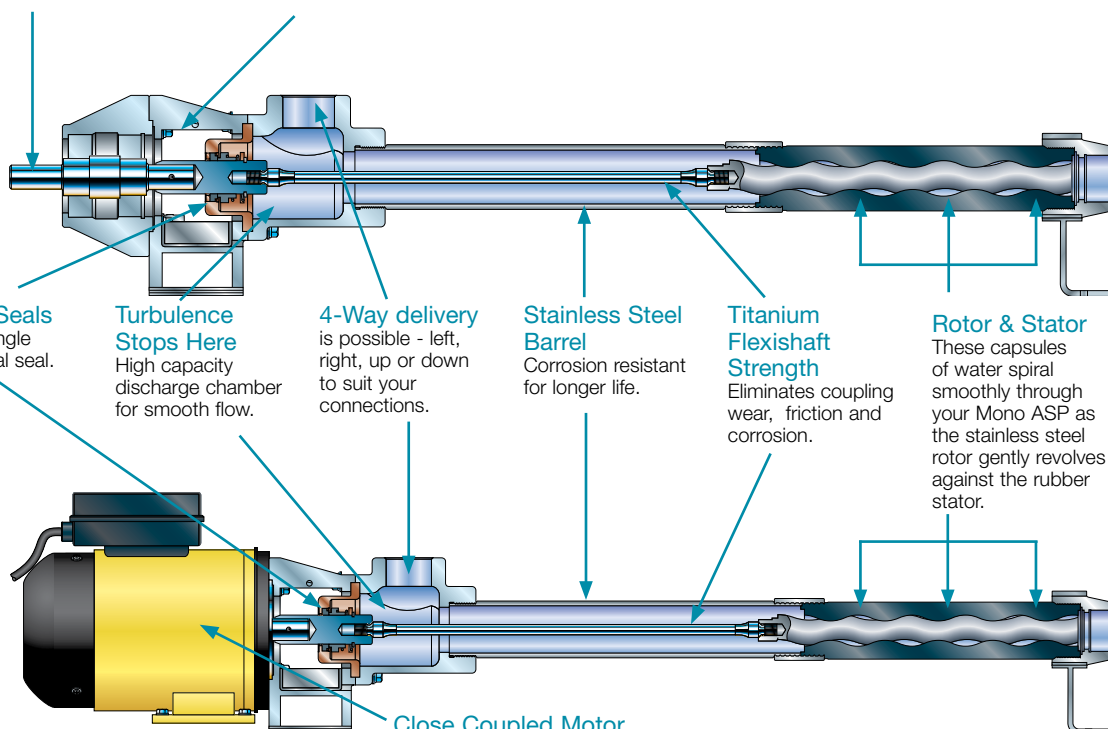
Stainless Steel Barrel
Corrosion resistant for longer life.

Titanium Flexishaft Strength
Eliminates coupling wear, friction and corrosion.

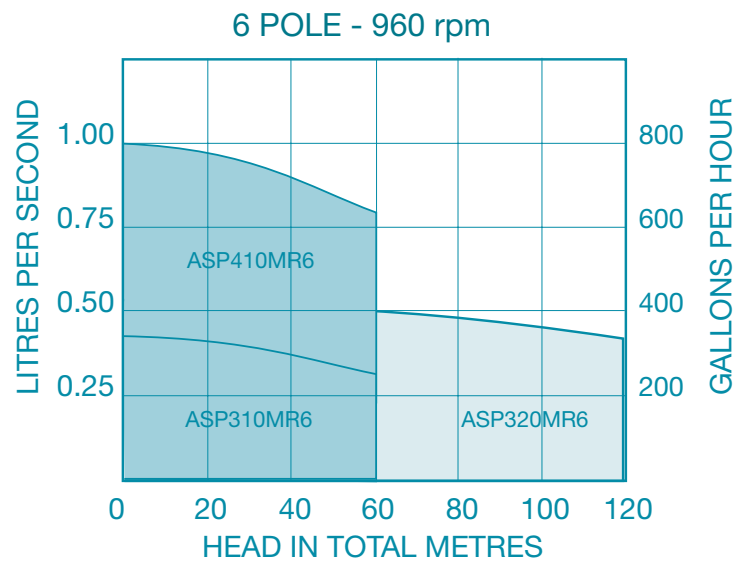
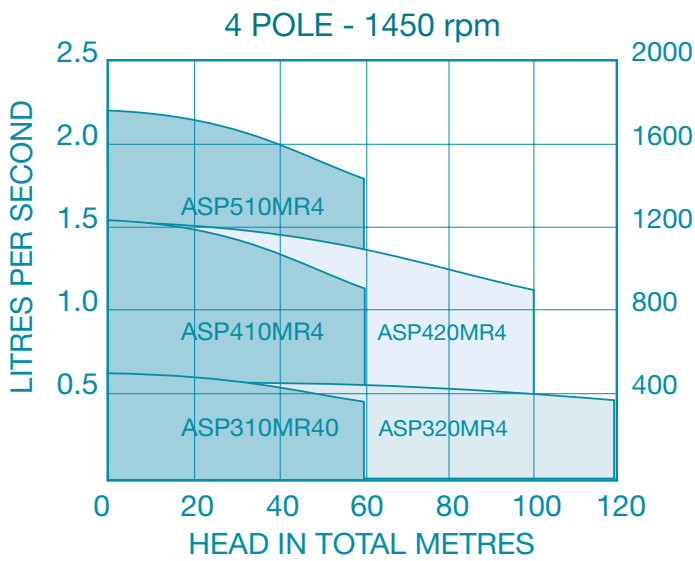
Rotor & Stator
These capsules of water spiral smoothly through your Mono ASP as the stainless steel rotor gently revolves against the rubber stator.

Close Coupled Motor

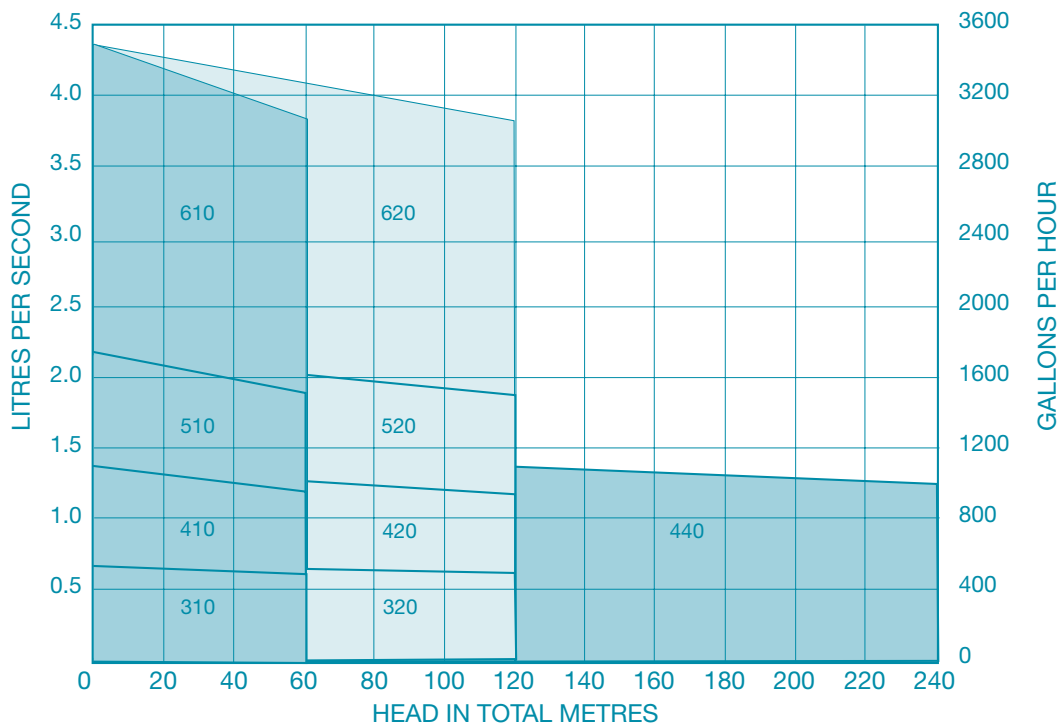
Effectively one moving part from motor to rotor for maximum energy efficiency, strength and simplicity.



Performance Data



BARESHAF T PUMP



TITANIUM TUFF





AGM Range Longhaul Surface Pumps

- Rugged, high capacity pumps with heavy duty bearing housings
- Stainless steel wear resistant rotor with hard chrome plating and stainless steel shaft for corrosion-free long life
- The Longhaul's high efficiency means low running costs
- Simple construction works within a forgiving range of tolerances, maintaining reliability, performance and efficiency
- Strength to withstand high heads and long pumping hours decade after decade
- Control the flow and speed of your pump by simply changing the pulley size

Choose your drive:

Diesel:

The low-revs pumping capacity of the Longhaul will deliver maximum water for least fuel

Petrol:

Throttle out for more water. Throttle in for lower speed and lower volume. It is that simple

Bareshaft:

The straightforward pulley drive lets you attach to whatever drive you have available

Electric:

Value out of your power bill. Longhaul will push water even when turning slowly - an advantage for those with fluctuating power supply

Features & Benefits

Capacity 0.33 to 14 lps

Heads up to 300 m

Typical applications include:

- Tank filling
 - Stock watering
 - Sprinklers
 - Long distance water transfer
-



Positive Drive Shaft

High quality, robust, keyed drive for positive power transmission.

Easy Bearing Maintenance

Industrial strength bearings are easy to get at and maintain.

Stainless Steel Flexishaft

Forms one moving part with the rotor to eliminate coupling wear, friction and corrosion.

Gland Packing

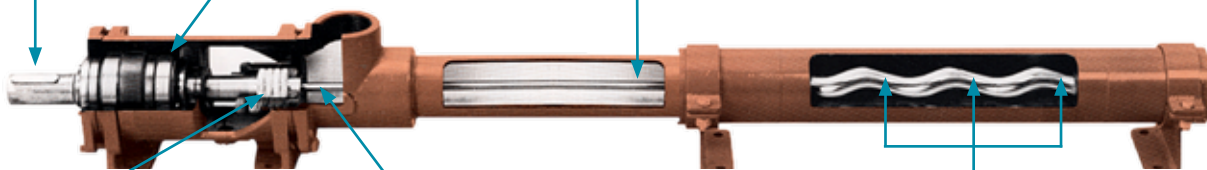
AGM models have robust gland packing rings.

4-Way delivery

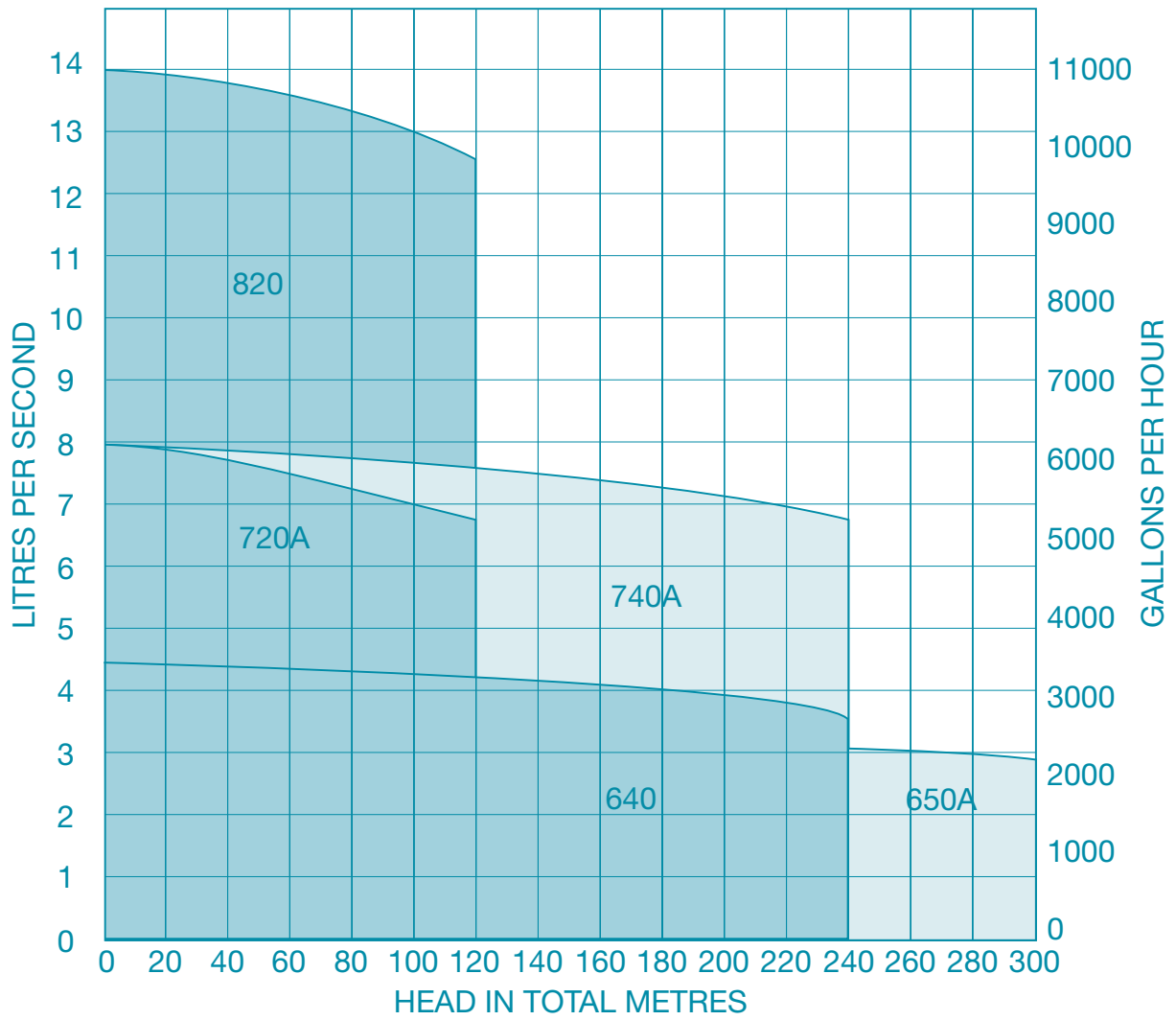
Is possible - left, right, up or down to suit your connections.

Rotor & Stator

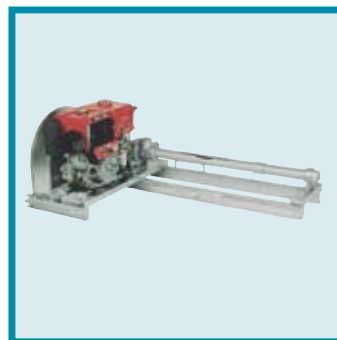
These capsules of water spiral smoothly through your Mono Longhaul as the stainless steel rotor gently revolves against the rubber stator.



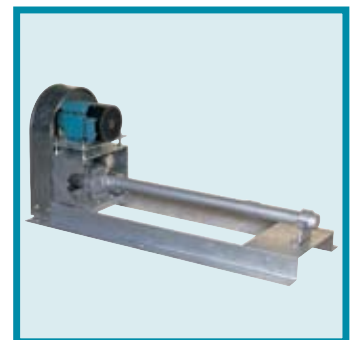
Performance Data



Petrol



Diesel



Electric

Subrotor® Submersible Pump

- Ideal for pumping from bores containing iron oxides
- Cheaper to run
- High head ... Less horsepower
- Stainless steel
- Abrasion resistance
- Simple construction
- Just one moving part does all the pumping
- Easy to repair
- Rotor / stator self cleaning and ensures no algae or oxide deposits ... No clogged pump impellers
- More pump for your money

More Flow at Higher Heads

The Mono system doesn't just spin water along. It pushes encapsulated water with positive force, so that ample volume is maintained at high heads.

More Water, Lower Energy Bills

Mono Subrotor pumps waste the least possible energy on internal friction, especially compared to multi-stage and jet pumps.

Easy Maintenance

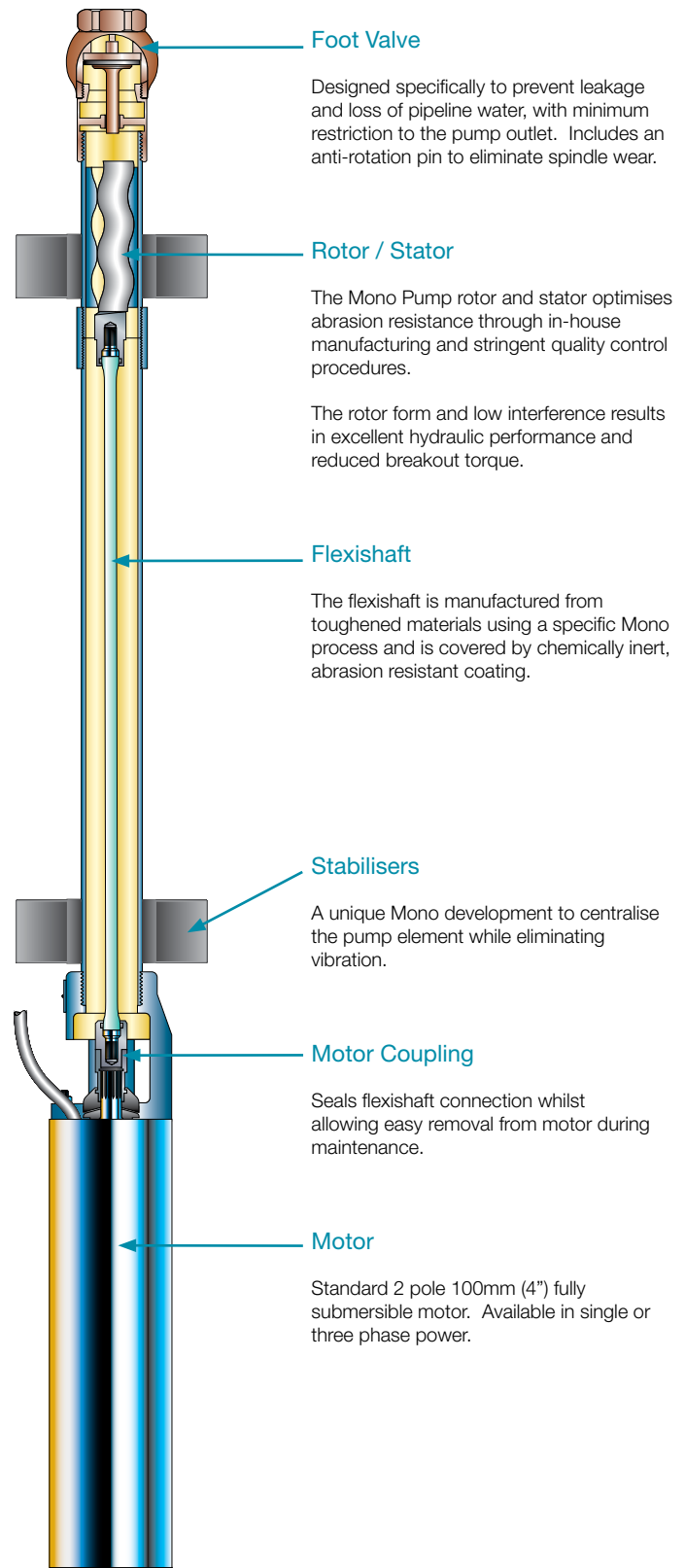
Unlike centrifugal pumps, the Subrotor has only one moving pump part - the rotor. Its companion, the rubber stator is also very resistant to wear and can easily be replaced with just a wrench.

Self Cleaning

The rotor sweeps the full surface of the rubber stator every turn. It is impossible for growth or iron oxide deposits etc. to develop on the surface. "No clogged pump impellers".

Chrome Plated Rotor

Mono chrome plated, stainless rotors are up to 4 times harder than the stainless you find in centrifugal pumps.



The Mono® Subrotor pump offers the first real alternative to multi-stage centrifugal borehole pumps.

Unlike the conventional borehole pump which uses centrifugal force as the energy to move the water, the Mono Subrotor uses the progressing cavity rotor/stator principle to draw water up through it.

When the hard chrome plated rotor fits inside the rubber stator the two components touch and form a seal bead, behind which a sealed capsule is formed, which moves from the suction side to the discharge of the pump as the rotor rotates inside the stator. The liquid within the capsule is delivered so positively that the pump is capable of very high pressure.

The Mono pumping principle was invented in the 1930's, and has continued to be developed and refined to meet the increasing needs of the world's pumping industries.

The progressing cavity principle is one of the most efficient and reliable methods of pumping water ever. The design principle ensures that the pumps are also extremely reliable, particularly on borehole water with a silt or iron oxide content.



Subrotor Pumping System Controller

Diagnostic indicator lights:

- Power
- Running
- Timer
- Cool down
- Low voltage
- Float switch

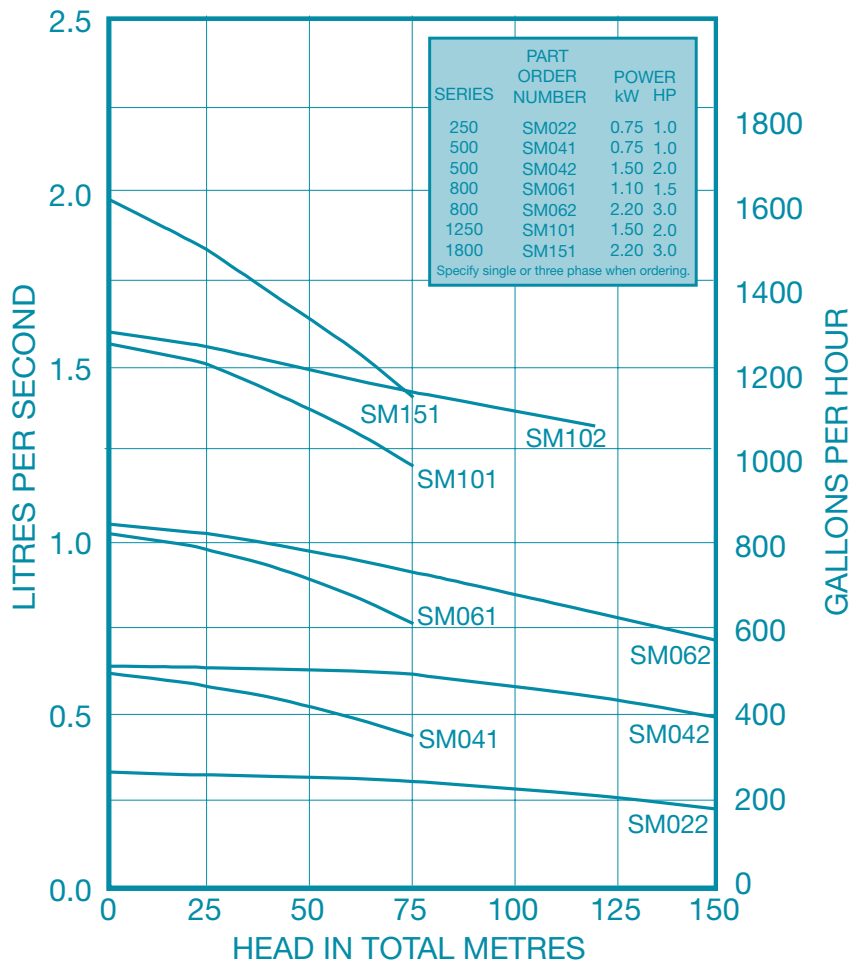
Increased protection:

- Under voltage
- Over current
- IP66 enclosure

Increased functionality:

- Float switch input - bore probe
- Run timer
- Count down timer

SUBROTOR PRESELECTION CURVE





Lineshaft Borehole Pump

The Mono Borehole pump is the essence of simplicity in design.

The simple positive displacement, Mono designed rotor and stator are immersed below draw-down level in the bore or well. The motor and drive head are located at ground level for easy inspection, maintenance and installation.

- Suitable for all types of underground waters - whether sand or silt, brackish or corrosive
- Stainless steel shafting and column is available for brackish applications
- Special purpose corrosive water pumps are available for special applications.
- Available with a quarter twist drive head or where space is an issue, right angle drive head

Features & Benefits

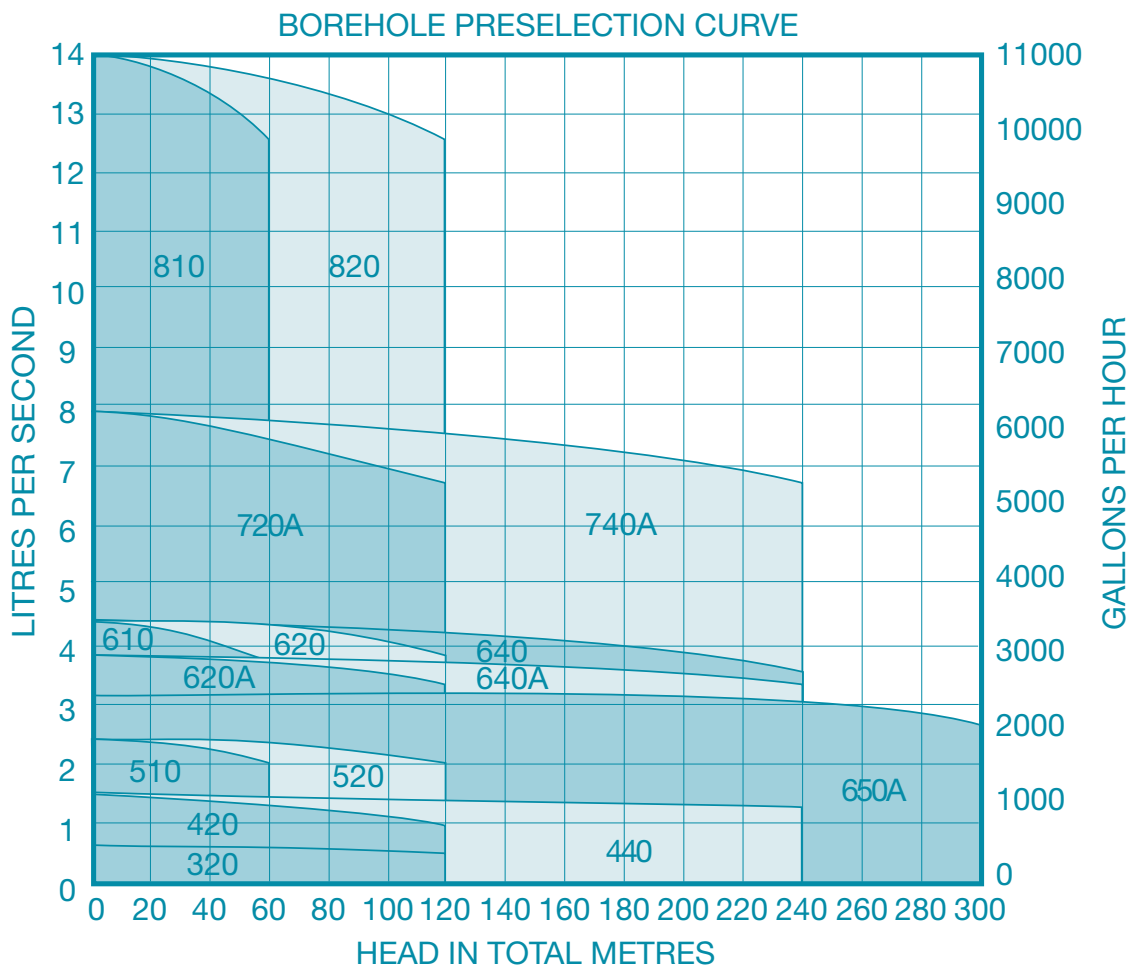
Capacity 14 Ips

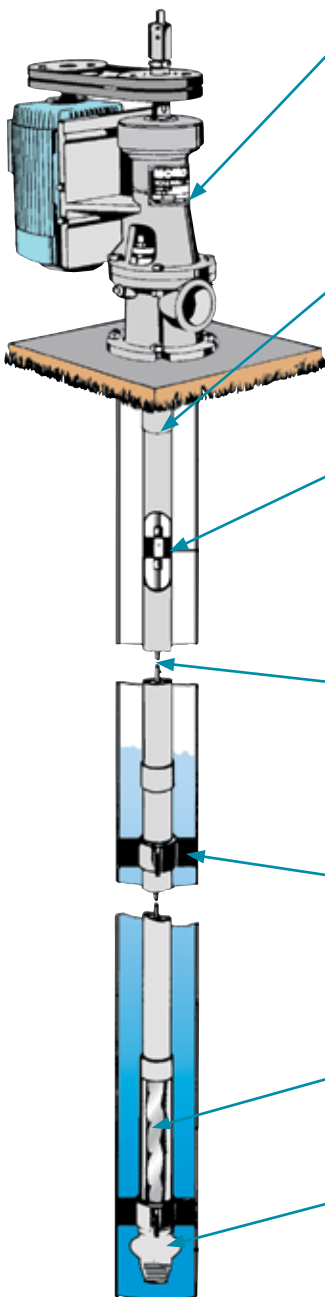
Heads up to 300 m

Motor Options Petrol, Diesel, Electric or PTO

Typical applications include:

- Stock watering
 - Village water supply
 - Irrigation
 - Tank / Dam filling
-





Combined Discharge & Drive Head

Discharge heads are compact, robust and weatherproof. All feature grease lubricated pre-packed or sealed bearings. Two designs are available - Vertical shaft models for electric or quarter twist diesel drive and right angle for PTO or compact side mount diesel.

Column

Columns are available in 3 metre lengths manufactured from heavy duty galvanised pipe. Connection is by Mono's exclusive precision parallel threads producing a strong watertight joint.

Patented Bobbin or Spider Bearings

Simple, efficient and above all, long wearing, even under abrasive conditions. Short bobbin bearing shafts made of stainless steel run in bobbins to totally eliminate wear on the main drive shaft.

Drive Shaft

Drive shaft is supplied in equivalent lengths with rolled threads for maximum torque transmission. You have the option of carbon steel or stainless steel shafting depending on the quality of water.

Column Stabilizers

A unique Mono development. Supplied to support the discharge column in relation to the bore casing, thus eliminating vibration and ensuring the discharge column is always accurately centered.

Rotor / Stator Pumping Element

Perfected after many years of Mono worldwide development and research.

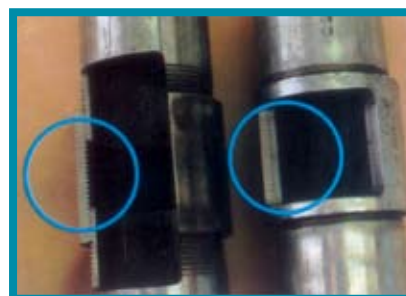
Strainer with Foot Valve

Designed specifically to ensure efficient lubrication of the column to prevent leakage and loss of pipeline water with minimum restriction to the pump inlet.



NOTE: Safety guards have been removed for display purposes. Mono Pumps supply and recommend safety guards be used on all vee-belt drive arrangements.

Mono Heavy Duty Column



Mono Heavy

Mono Heavy Duty Column is thick enough for parallel threads. We carefully machine the ends for a face to face connection. When you screw these faces together, you keep water out and many more threads working for you.



Medium Wall

Ordinary column in medium weights pipe required taper threads. These may seal well when new, but vibration can cause water and corrosion to enter. If these few turns of thread give way, what happens to your pump?

Europe

Mono Pumps Ltd, Martin Street, Audenshaw
Manchester, M34 5JA, England
T. +44 (0)161 339 9000
E. info@mono-pumps.com

D.M.I EST, 56, rue du Pont
88300 Rebeuville, France
T. +33 (0)3 29 94 26 88
E. dmi-est@dmi-est.fr

Americas

Monoflo Inc., 10529 Fisher Road
Houston, Texas 77041, USA
T. +1 713 980 8400
E. inquire@monoflo.com

Monoflo S.A., Ing Huergo 2239
(1842) Monte Grande
Pcia. de Buenos Aires, Argentina
T. +54 11 4290 9940/50
E. info@monoflo.com.ar

Asia

Mono Pumps Ltd, No. 500 YaGang Road
Lujia Village, Malu, Jiading District
Shanghai 201801, P.R. China
T. +86 (0)21 5915 7168
E. monoshanghai@nov.com

Australasia

Mono Pumps (Australia) Pty Ltd
Mono House, 338-348 Lower Dandenong Road
Mordialloc, Victoria 3195, Australia
T. 1800 333 138
E. ozsales@mono-pumps.com

Mono Pumps (New Zealand) Pty Ltd
PO Box 71-021, Fremlin Place, Avondale
Auckland 7, New Zealand
T. +64 (0)9 829 0333
E. info@mono-pumps.co.nz

Sydney	T. 02 8536 0900	F. 02 9542 3649
Brisbane	T. 07 3350 4582	F. 07 3350 3750
Adelaide	T. 08 8447 8333	F. 08 8447 8373
Perth	T. 08 9479 0444	F. 08 9479 0400
Darwin	T. 08 8931 3300	F. 08 8931 3200
Kalgoorlie	T. 08 9022 4880	F. 08 9022 3660
Dunedin NZ	T. +64 3476 7264	F. +64 3476 2154

www.mono-pumps.com



© Mono Pumps Limited August 2008 Literature reference: **ART04/11**

Published information other than that marked CERTIFIED does not extend any warranty or representation, expressed or implied, regarding these products. Any such warranties or other terms and conditions of sales and products shall be in accordance with Mono Pumps Limited standard terms and conditions of sale, available on request.

Mono® is a registered trademark of Mono Pumps Ltd.
Registered in England No 300721

Mono® 

One Company, Unlimited Solutions