

monoflo

With more than 40 years' history in the pump industry, Monoflo's application experience has been most varied. From the late 1950's, Monoflo Pumps were used extensively in agriculture installations. Over the years, it has found its way into building services, industrial processes and fire protection services. This can only be realised with continual product development to meet industry needs. Today, the industry's confidence in Monoflo's quality and reliability has cumulated in having Monoflo Pumps installed in modern buildings and industrial processes for various applications. From ensured uninterrupted water supplies to climate control systems, drinking water systems, recreation facilities and many others, making Monoflo a part of our daily lives.

Monoflo's growth started out in the 1960's in the Australian and New Zealand agricultural markets. With the growth of the Asian market in the 1970s, more opportunities were presented with potentials for new product developments and businesses. Capitalising on the growths in the industry, Monoflo began to build a strong footing in the Asia Pacific region. It was during this period that the 'Monoflo' brand was entrenched into the minds of pump users in the region.

With a mindset of constant product and market development, Monoflo has an outreach program to tap on potential markets and growth sectors; sharing our wealth of experience in supplying state-of-the-art systems to landmark buildings in the region.

A long term objective to develop a world class brand, necessitates continual product and market development to stay abreast of world trends in pumps. Along with continual review of engineering considerations, Monoflo will strive to touch lives, through the integration of our pumps in various aspects of daily living experiences, maintaining stable and comfortable living conditions, hence...

Monoflo Pumps...'engineering flow in our lives'.



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engineering flow in our lives.

As MONOFLO Pumps is constantly improved, we reserve the right to make specification changes without prior notice and without incurring liability.

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MONOFLO PUMPS PTY LTD

For inquiries, services & spare parts

cat-general/revB/16

Siera | S R



Type & Construction

This horizontal multistage close-coupled centrifugal pump has its entire hydraulic wet-ends constructed in AISI-304 pressed stainless steel. Adopting a unique stamping process, the end product is one of superior quality and efficiency to meet today's sophisticated application requirements in the building services and the general industries.

Applications

- General water transfer & pressure boosting applications.
- Industrial process circulation & machine cooling.
- Small scale irrigation, landscaping & water features.
- Washing.

Technical Data

- Capacity |
Max. 360 lit/min
- Head |
Max. 50 m
- Liquid temp. |
-15°C to 80°C
- Operating pressure |
Max. 8 bar

Sprint | S P



Type & Construction

'Sprint' is a new generation range of single-stage, close-coupled centrifugal type pump. Its entire hydraulic wet-ends manufactured are from stainless steel - AISI-304 or AISI-316. Adopting a unique stamping process, the end product is one of superior quality and efficiency to meet today's sophisticated application requirements in the building services and the general industries.

Applications

- General water transfer & pressure boosting applications.
- Industrial process circulation & machine cooling.
- Small scale irrigation in gardens & lawns.
- Landscaping & water features.

Technical Data

- Capacity |
Max 260 lit/min
- Head |
Max. 60 m
- Liquid temp. |
-15°C to 80°C
- Operating pressure |
Max. 8 bar

Gen-X | G X



Type & Construction

Conformed to DIN24255, 'Gen-X' is designed with two versions - Model GX which motor is close-coupled to the pump hydraulics, with the impeller mounted on the extended shaft of the motor. In Model GXF, the standard IEC motor is coupled to the hydraulics via a stub-shaft and an intermediate adaptor.

The hydraulics are entirely manufactured from AISI 304 or AISI 316.

Applications

- General water transfer & pressure boosting applications.
- Industrial process circulation & machine cooling.
- Small scale irrigation, landscaping & water features.
- Cooling tower water circulation.

Technical Data

- Capacity |
Max. 2,200 lit/min
- Head |
Max. 55 m
- Liquid temp. |
-20 to 80°C [Standard]
-20 to 110°C [Option]
- Operating pressure |
Max. 10 bar

Linear | L N



Type & Construction

Excellent design features place Monoflo 'Linear' stainless steel vertical multistage in-line pump at a high level of quality and optimum performance. Its vertical design with small foot-prints, makes it ideal for installations where floor space is a premium.

Linear comprises an extensive range of models with various number of stages to meet specific flowrates and pressure heads.

Applications

- General water transfer & pressure boosting applications.
- Industrial process circulation & machine cooling.
- Boiler feed.
- High pressure cleaning.
- Irrigations.

Technical Data

- Capacity |
Max. 3,000 lit/min
- Head |
Max. 290 m
- Liquid temp. |
-15 to 70°C [Standard]
up to 120°C [Option]
- Operating pressure |
Up to Max. 30 bar
[Dependence on fluid temperature and number of impeller stages of the pump]

DIN-Master
DMT



Type & Construction

DIN24255-conformed, horizontal, single stage, end suction, 'back pullout', centrifugal type. Suitable for direct coupling to a 2 or 4-pole electric motor or engine, by means of a flexible or spacer coupling, mounted on a common skid.

'DIN-Master' is available in various material executions, and shaft seals may be gland packed or fitted with mechanical seals.

Upgraded 'pump end' design with re-greasable angular contact bearings. 'Safe guards' are installed to prevent rotating shaft from human reach while in operation.

Applications

- General purpose water transfer & pumping applications
- Pressure boosting & water supply
- Chilled & condenser water circulation in central air-conditioning systems
- Landscaping water features & pool applications
- Industrial applications including circulation for machine cooling; and in general manufacturing processes
- Irrigation

Technical Data

- Capacity | **Max. 300 litres/sec**
- Head | **Max. 100m**
- Liquid temp. | **0°C to 80°C~105°C** (Dependent on type of shaft seal)
- Operating pressure | **Max. 10 bar** [Standard]

Working pressure up to **16 bar**, is available as an option with variance in the material of construction of the pump.

ISO-Magna
ISM



Type & Construction

Horizontal, single-stage, end suction, 'back pullout', centrifugal type, conforming to **ISO2858**. Suitable for direct coupling to a 2 or 4-pole electric motor or engine, by means of a flexible or spacer coupling, mounted on a common skid.

'ISO-Magna' is designed with a robust shaft and fitted with design-rated 'heavy-duty' bearings, which ensure exceptionally long and trouble-free operating life, often desired in the process industry.

Pumps are available in various material executions, and shaft seals may be gland packed or fitted with mechanical seals.

Applications

- Water transfer & pumping applications in the process industry
- Pressure boosting & water supply
- Chilled & condenser water circulation in central air-conditioning systems
- Landscaping water features & pool applications
- Industrial applications including circulation for machine cooling; and in general manufacturing processes
- Irrigation

Technical Data

- Capacity | **Max. 250 litres/sec**
- Head | **Max. 160m**
- Liquid temp. | **0°C to 80°C~105°C** (Dependent on type of shaft seal)
- Operating pressure | **Max. up to 16 bar** [Standard]

Vector
VT



Type & Construction

Designed in accordance to **ISO2858** performance standard, 'Vector' is a range of vertical, single-stage, in-line, 'top-pullout' centrifugal pumps, with in-line flanged suction and discharge ports, driven by an electric motor. Vector is characterised by the compact build of the pump, ease in installation; and servicing & maintenance when required.

The vertical in-line construction allows direct mounting into pipework to realise the savings in installation cost and space, when compared to horizontal base-mounted pumpsets. Where space is limited and piping configuration and accessibility for maintenance are important, Vector is the ideal option.

Applications

- General purpose water transfer, circulation & pressure boosting
- Chilled & condenser water circulation in central air-conditioning systems
- Industrial applications including circulation for machine cooling, heat exchanger & general manufacturing processes.
- Marine & shipbuilding
- Landscaping & water features
- Horticultural irrigation & sprinkler systems

Technical Data

- Capacity | **Max. 110 litres/sec**
- Head | **Max. 160m**
- Liquid temp. | **0°C to 80°C~105°C** (Dependent on type of shaft seal)
- Operating pressure | **Max. up to 16 bar** [Standard]

Quantum
QT



Type & Construction

The 'Quantum' series features a line of superior performance double suction horizontal split case centrifugal pumps, of robust design to meet today's demands in the industrial, municipal, agriculture and commercial applications.

Incorporating advances in computer-aided technology, Quantum offers high efficiency performance, reliable & long life service resulting in energy-saving, less downtime & low maintenance cost.

Design allows upper half of casing to be removed for easy inspection & maintenance of the hydraulic assembly, without disturbance to pipework.

Applications

- General purpose water transfer & pumping applications
- Pressure boosting & water supply
- Chilled & condenser water circulation in central air-conditioning systems
- Fire fighting
- Water intake & municipal waterworks
- Irrigation
- Power plants

Technical Data

- Capacity | **Max. 6,900 litres/sec**
- Head | **Max. 230m**
- Liquid temp. | **0°C to 80°C~105°C** (Dependent on type of shaft seal)
- Operating pressure | **Max. up to 30 bar** [To consult your Monoflo distributor for specific models]

HydraPlus
HD



Type & Construction

Horizontal, radially split, multistage centrifugal type, suitable for direct coupling to a 2-pole or 4-pole electric motor or an engine, all integrally mounted on a common skid.

This 'through-bolt' construction, holds together the suction & discharge casing, the intermediate casings (stages) and diffusers. The impellers are single suction, enclosed type and of radial flow design for optimum hydraulic performance and efficiencies.

Hydra+ features a variety of material combinations, and (shaft) seal types, to meet various operating conditions. The bearings are of 'ball' and 'roller' type.

Applications

- General water transfer, supply & distribution
- High head water transfer in high rise buildings
- Pressure booster systems
- Fire fighting & sprinkler systems
- Water intake & municipal waterworks
- Irrigation
- Mining

Technical Data

- Capacity | **Max. 350 m³/hr**
- Head | **Max. 39 bar**
- Liquid temp. | **0°C to 105~140°C** (w/ standard shaft seal & optional cooling)
- Operating pressure | **From 27 to 34 bar**

Marinz
MRZ



Type & Construction

'Marinz' is a range of side channel pumps developed for various needs of liquid handling. They are horizontal, segmental multistage type construction, with open vane wheel ('star') type impeller. It is designed for relatively low flow, high head, thin liquid and liquefied gas transfer.

The unique features of Marinz characterised by its self-priming capability; and capability to handle gas-entrained liquid (that does not contain any solid matters or abrasives admixtures); hence eliminating possible air or vapor locked that can occur in other pump design. In addition, it has the ability to handle liquids near to boiling point.

Applications

- Hot & cold water circulation
- Pumping condensate
- Boiler feed
- Industrial applications including circulation for machine cooling; and in general manufacturing processes
- General water supply and pressure boosting.
- Horticultural irrigation & sprinkler system; watering & drainage.

Technical Data

- Capacity | **Max. 330 litres/min**
- Head | **Max. 11.5 bar**
- Liquid temp. | **0°C to 100°C**
- Operating pressure | **Max. up to 12 bar**

RedLine
RLS



Type & Construction

The comprehensive range of 'RedLine' end suction pumps, Model RLS, performs in accordance to AS2941. It is designed to meet a range of flowrates required in the various hazard group classification - the Ordinary Hazard Class for fire sprinkler systems, from OH Group 1, 2 & 3, to OH Group Special Class and Extra High Hazard.

'Redline' can be supplied in a factory-assembled package fire unit comprising the pump, its driver and a controller, mounted on a common frame as an integral system. The package shall also include pressure gauges.

Applications

- Fire sprinkler systems; hydrant & wet riser systems; and deluge system in...
- Commercial buildings including offices, condominiums, schools institutions, subway stations, hospitals, entertainment & sport complexes.
- Industrial facilities including warehouses, mills, shipyards, chemical storage facilities and factories.

Technical Data

- Capacity | **Max. 300 litres/min**
- Head | **Max. 150m**
- Liquid temp. | **0°C to 80°C**
- Operating pressure | **Up to Max. 10 bar** [Standard] (For 'high' head models, max. working pressure up to 16 bar)

RedLine
RLD



Type & Construction

Where higher flows are required, 'RedLine' offers Horizontal Split Case Fire Pumpset (Model RLD) with options to be electric motor or diesel engine driven. They feature capacities up to 20,000 USGPM (75,500 lit/min) covering a wide range of pressures.

With its split case design, the pump is serviceable without disturbing the piping, simplifying inspection and disassembly. The impeller is a hydraulically-balanced, double-suction, minimum vibration, low pulsation, low NPSH-required and optimum flow. With this 'balanced' construction, the thrust load is reduced, hence prolonging the life of the bearings

Applications

- Fire sprinkler systems; hydrant & wet riser systems; and deluge system in...
- Commercial buildings including offices, condominiums, schools institutions, subway stations, hospitals, entertainment & sport complexes.
- Industrial facilities including warehouses, mills, shipyards, chemical storage facilities and factories.

Technical Data

- Capacity | **Max. 20,000 USGPM (75,500 lit/min)**
- Head | **Max. 150m**
- Liquid temp. | **0°C to 80°C**
- Operating pressure | **Up to Max. 16 bar** [Standard] (For 'high' head models, working pressure varies. Please consult your Monoflo distributors)

Astro
AT



Type & Construction

The 'Astro' is a range of dewatering submersible pump designed for effective handling of water and wastewater. It is robust, compact and reliable, and is suitable in a wide range of sump pump and drainage applications in both commercial and industrial installations. The hydraulics with the semi-open vortex type impeller and a stainless steel strainer, allows for pumping soft solids in suspension and less susceptible to blockage.

The Astro pumps are designed for permanent submerged installation, e.g. by means of an auto coupling or guide rail system; or for free-standing installation on a ring stand with a flexible pipe connection.

Applications

- Draining of water or rainwater in residential cellars or carpark basement and garages.
- Small scale irrigation and flood control.
- Pumping of waste water in buildings including hotels, hospitals, schools, restaurants, commercial buildings, etc.
- General dewatering application from sump pits, tanks and ponds.
- Water features

Technical Data

- Capacity | **Max. 1,200 litres/min**
- Head | **Max. 29m**
- Liquid temp. | **from 0°C to 40°C**
- Submersion depth | **30m**

Draco
DC



Type & Construction

The 'Draco' features a range of robust, compact and reliable submersible pumps, particularly suitable for effective handling of sewage and wastewater containing fecal or fibrous matter in a wide range of applications in both commercial buildings and industrial plants. The hydraulics with the various impeller options, ensures a blockage-free operation.

Draco, available in both 2 or 4-pole motor, covers a wide range of flowrates and heads.

The Draco pumps are designed for permanent submerged installation, e.g. by means of an auto coupling or guide rail system; or for free-standing installation on a ring stand with a flexible pipe connection.

Applications

- Drainage of waste water from attenuation, purifying and sewage tanks in a water treatment plant.
- Drainage of waste water containing fibrous additives from leather factories, dyeing and food processing factories.
- Pumping of sewage and waste water in buildings including hotels, hospitals, schools, restaurants, commercial buildings, etc.
- Application in livestock farms and agriculture.

Technical Data

- Capacity | **Max. 8,000 litres/min**
- Head | **Max. 30m**
- Liquid temp. | **from 0°C to 40°C**
- Submersion depth | **30m**

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