



YOUR SINGLE-SOURCE PUMP SUPPLIER

SINCE 1962



FOR WHERE IT REALLY MATTERS

SyncroFlo, Inc. is a leading manufacturer of centrifugal pumps and pre-engineered packaged systems.

Norcross Georgia based SyncroFlo is an industry leading manufacturer of pumps and packaged system with over 50 years' experience in the pumping industry. In 1962 SyncroFlo was the first company to prepackage domestic water pumping systems for the plumbing industry. Since pioneering the domestic water booster industry, SyncroFlo has maintained the quality and integrity that serve as the foundation for consistently over-delivering to each of our clients.

PROVEN QUALITY

Most pumping applications are invariably demanding – typically operating in hostile, arduous or extreme temperature environments where design integrity and quality matter. Using the most advanced computer technology in the world, SyncroFlo designs, assembles, tests, and ships all pump sets from Norcross, Ga., in an ISO 9001-2008 certified facility.

SyncroFlo uses the most advanced computer simulation in the world to design, evaluate, refine and manufacture the best pump solutions. 'Lean Manufacturing' principles mean the company is entirely focused on continuous improvement to support a 'right the first time' philosophy.

We also offer SyncroFlo University, where courses are designed to cover all applications for pumps and packaged systems. From the classroom to the wet hands-on lab, industry veterans cover it all. Multiple days of training will give you the skills to sell and service our complete line of products.

DEDICATED EXPERTISE

Regarded as the best in the industry, SyncroFlo's strong engineering team has real-world application experience across multiple industry sectors. Their skills have garnered the company numerous accolades.

The SyncroFlo team's knowledge and ability to respond rapidly to demanding customer needs is fueled by dedicated R&D investment from the parent company, Kirloskar Brothers Limited, which is India's largest provider of hydraulic machines and systems.

WHY SYNCROFLO?

Manufacturing excellence is wired in our DNA. Our products are highly rearguard in the industry. We make it our business to only employ the best.

COLLABORATION INNOVATION

Engineers at our manufacturing facilities have exhaustive experience in all aspects of pump and system design, hydraulics, electrical systems and packaging. All of our manufacturing sites are ISO 9001 certified.

LEAN MANUFACTURER

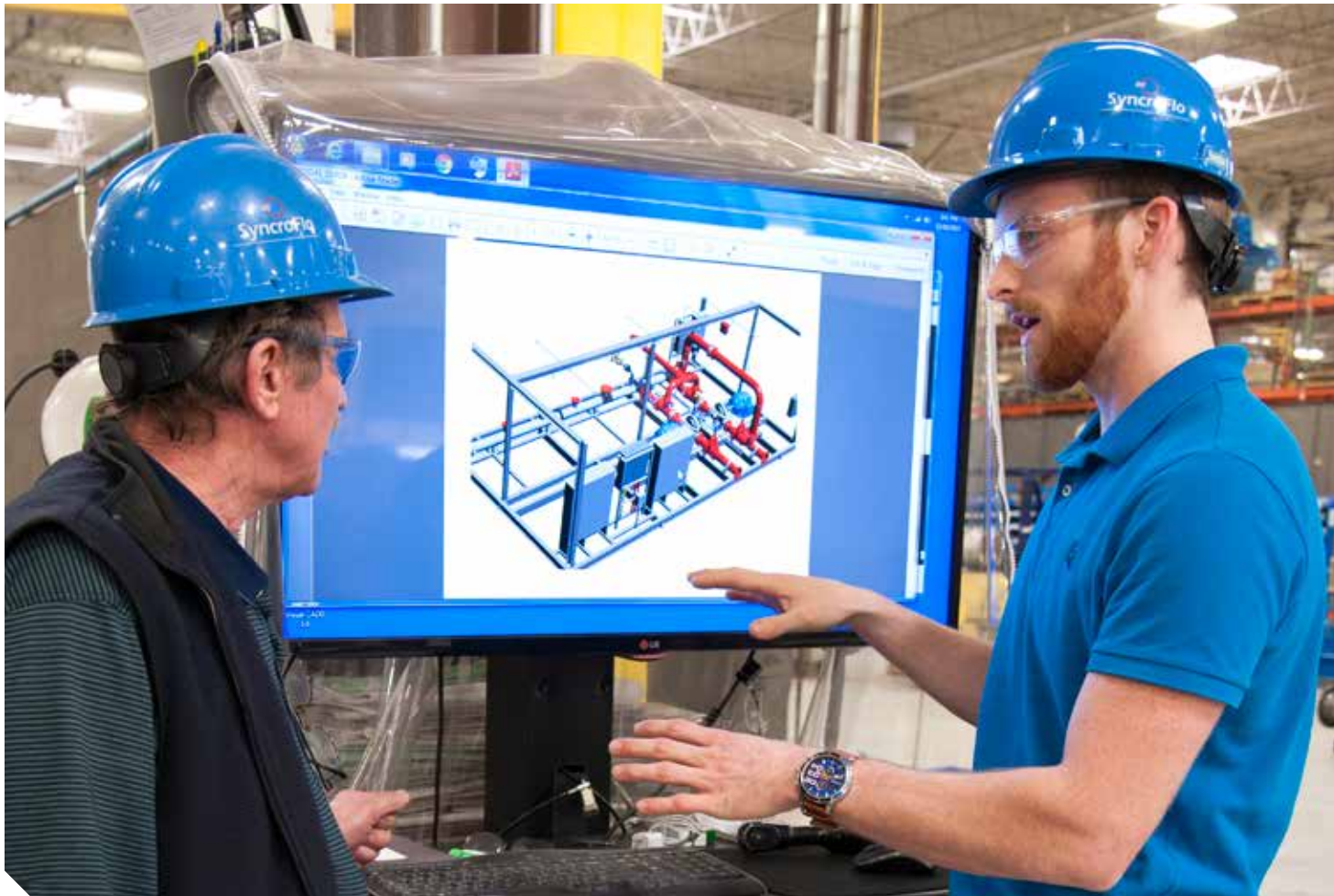
Guided by lean manufacturing principles, SyncroFlo continually refines and improves all products and processes. products and processes. The main manufacturing facility is segregated into different product groups. The SyncroFlo team works hard to ensure that all pumps, parts, engines, motors, and systems are of the highest quality with proven track records in real life applications.

Proven quality. Dedicated expertise. World-class performance. For where it really matters, insist on SyncroFlo pumps and packaged systems.

ENGINEERING INTELLIGENCE. PERFECTION WITH PRECISION.

WATER PUMPING

Often operating 24/7/365 water pumping applications are highly energy intensive. In fact, pump capital purchase typically only represents 5% of total cost of ownership. With our complete line of general water pumps or the highly efficient LOWEST LIFECYCLE COST (LLC) pumps we have the pump that's right for your application. Customers can enjoy operating savings up to 5% per machine per year depending on the pump that's selected.



END SUCTION



UNISTREAM

WATER FIRE STANDARD
INDUSTRY

CONFIGURATION

Horizontal electric motor
or engine driven

DISCHARGE & PERFORMANCE

- 1.25 in mm to 6 in
- Outputs up to 2220 gpm
- Heads up to 345 ft

FEATURES

- Horizontal DIN 24255 Electric Motor
- 41 models
- Wide choice of materials
- Centreline discharge
- Back pull-out rotating element can be removed without disturbing pipe work
- Impellers cut to duty
- High interchangeability – just three shaft modules cover the entire range
- Suitable for baseplate mounting with coupling
- Approved to LPCB, FM and/or UL Standards
- In compliance with NFPA 20
- Used in pump as turbine applications



EUROSTREAM

WATER FIRE STANDARD

CONFIGURATION

Horizontal close coupled electric
motor driven

DISCHARGE & PERFORMANCE

- 1.25 in to 4 in
- Outputs up to 1585 gpm
- Heads up to 345 ft

FEATURES

- Close coupled pump set. Choice of 190 motor/pump combinations
- Space saving
- Most cost effective solution
- Incorporates mechanical seal to DIN 24960
- Impellers cut to duty
- High interchangeability
- TEFC IE2 motors fitted as standard
Other motor options available
- Unique SPP Pumps design taper locking system simplifies fitting stub shafts to standard motors
- Uses standard metric TEFV or Drip Proof motors
- Stub shafts fit directly onto standard motor shaft – no drilling or priming required
- Back pull-out
- Rotating element can be removed without disturbing pipe work



INSTREAM

WATER FIRE STANDARD
INDUSTRY

CONFIGURATION

Vertical close coupled electric
motor driven

DISCHARGE & PERFORMANCE

- 1.5 in to 4 in
- Outputs up to 950 gpm
- Heads up to 213 ft

FEATURES

- Close coupled in-line design
- Simple installation and easy service back pull-out design
- Cost-effective solution
- TEFC IE2 motors fitted as standard
- High interchangeability – rotating element will interchange with Eurostream
- Mechanical seal as standard
- Impellers cut to duty

SPLIT CASE



LLC

| | | |
|-----------|------|----------|
| WATER | FIRE | INDUSTRY |
| OIL & GAS | | |

CONFIGURATION

Horizontal, vertical open shaft, vertical direct mounted electric motor or horizontal engine driven

DISCHARGE & PERFORMANCE

- 5 in to 24 in
- Outputs to 39625 gpm
- Heads up to 985 ft

FEATURES

- Axially split casing – rotating element can be removed without disturbing pipework
- Exceptional hydraulic efficiencies
- Double and single entry back to back impellers reduce end thrust, increase efficiency and bearing life
- Modular design for maximum interchangeability. Multiple impeller selections
- Stainless steel impellers and shaft as standard
- Internal high efficiency coating as standard
- Cartridge mechanical seals as standard
- Double row thrust bearing
- Wide operating range and extended bearing life
- Reduced efficiency degradation
- Approved to FM and/or UL standards
- In compliance with NFPA 20
- Used in pump as turbine applications



HYDROSTREAM

| | | |
|-----------|------|----------|
| WATER | FIRE | INDUSTRY |
| OIL & GAS | | |

CONFIGURATION

Horizontal, vertical open shaft, vertical direct mounted electric motor or horizontal engine driven

DISCHARGE & PERFORMANCE

- 1 in to 24 in
- Outputs to 39625 gpm
- Heads up to 902 ft

FEATURES

- Axially split casing – rotating element can be removed without disturbing pipework
- High hydraulic efficiencies
- Double and single entry back to back impellers reduce end thrust, increase efficiency and bearing life. Shaft sleeves are standard
- 62 models. Module design for maximum interchangeability. Multiple impeller selections
- Wide choice of materials
- Grease or oil lubrication
- Soft packing or mechanical seals
- API options available for off site applications
- Approved to FM and/or UL standards
- In compliance with NFPA 20



THRUSTREAM

| | | |
|----------|-----------|----------|
| WATER | FIRE | STANDARD |
| INDUSTRY | OIL & GAS | |

CONFIGURATION

Horizontal, vertical open shaft, vertical direct mounted electric motor or horizontal electric motor or engine driven

DISCHARGE & PERFORMANCE

- 2.5 in to 12 in
- Outputs up to 15410 gpm
- Heads up to 984 ft

FEATURES

- Axially split casing – rotating element can be removed without disturbing pipework
- High hydraulic efficiencies
- Double entry impellers reduce end thrust, increase efficiency and bearing life
- Shaft sleeves fitted as standard for soft packed pumps and as an alternative for mechanical seals. Stainless steel shafts fitted as standard for mechanical seals
- 40 models. Module design for maximum interchangeability
- Grease lubrication
- Soft packing or mechanical seals
- Suitable for baseplate mounting with coupling
- Approved to LPCB, FM and/or UL standards
- In compliance with NFPA 20



LLC VTP

WATER INDUSTRY OIL & GAS

CONFIGURATION

Vertical lineshaft, vertical electric motor or engine driven, dry or wet well

DISCHARGE & PERFORMANCE

- 8 in to 24 in
- Outputs up to 17435 gpm
- Heads up to 557 ft
- Pumping length up to 197 ft

FEATURES

- Cartridge mechanical seal
- Spacer couplings minimise seal change downtime
- High grade materials – stainless steel impellers & shafts
- Muff couplings aid assembly / disassembly
- Flanged riser pipework
- Modular design
- Extended thrust bearing life
- Stiff shaft construction
- Dry and wet well installations



VERTICAL TURBINE. AXIAL FLOW/MIXED FLOW & PROPELLER

WATER FIRE INDUSTRY
OIL & GAS

CONFIGURATION

Vertical lineshaft, vertical electro submersible, vertical electric motor or engine driven, dry or wet well

DISCHARGE & PERFORMANCE

- 4 in to 86 in
- Outputs up to 176115 gpm
- Heads up to 656 ft

FEATURES

- Space saving
- Low maintenance costs
- High hydraulic efficiency
- Priming problems eliminated. Pump end submerged in liquid
- 60 models, with bowls, heads and columns optimised for performance and cost
- Wide choice of materials
- Diffuser bowls ensure balanced axial loading
- Soft packing or mechanical seals
- API construction
- Approved to FM and UL standards, all of which are compliant to NFPA 20
- Nuclear certification
- Dry and wet well installations



MULTISTREAM CD / RKB

WATER FIRE INDUSTRY

CONFIGURATION

Consists of a number of ring section diffuser casings bolted suction and delivery casing

DISCHARGE & PERFORMANCE

- CD Delivery 4 in to 5 in
- CD Outputs up to 2200 gpm
- CD Heads up to 870 psi (Fire applications)
- RKB Delivery 1.25 in to 1 in
- RKB Outputs up to 3742 gpm
- RKB Heads up to 2788 ft

FEATURES

- CD for fire applications
- RKB for industrial applications
- Mechanical seal or gland packed
- Suction flange oriented left or right
- Vertical mounting
- Low NPSH
- Available as a canned or vertical turbine type arrangements
- Approved to LPCB, FM and/or UL standards, all of which are compliant to NFPA 20



SUCTION DIFFUSER

WATER INDUSTRY OIL & GAS

GENERAL DESCRIPTION

Suction Diffusers take turbulent water, passing it through a straining screen and a reduced-port orifice, to produce a more laminar flow pattern. This in turn increases a pump's performance and life expectancy. In addition to improving performance, the straining screen also acts as a filter, removing particulate that may appear in your system.

FEATURES

- No separate strainers and 90° Elbow required.
- Variable inlet and outlet sizes to suit pipe fitting.
- Removable SS-304 fine mesh serves as a filtering element.
- Baffles straightens flow, reduce turbulence and guides flow to pumping unit.
- Product engineered using CFD technique to reduce pressure drop.
- Less room space as it can be directly bolted to the suction side of the pumping unit.
- Designed with reduced delivery diameter, separate reducers are eliminated.
- Drain arrangement for online maintenance as well as bosses for pressure gauges at the inlet and outlet flanges
- Adjustable support and easy maintenance



TRIPLE DUTY VALVE

WATER FIRE INDUSTRY
OIL & GAS

GENERAL DESCRIPTION

In addition to its ability to act as the system's isolation valve and backflow prevention through its check feature, the SyncroFlo Triple Duty Valve also acts as a balancing valve. This ensures a uniform flowrate throughout the system. Due to the split design, this valve can be constructed in both inline and 90° configurations. This allows for greater variance to meet the user's needs.

FEATURES

- Performs as spring-loaded non-slam check, balancing, shut-off, priming through bypass and throttling valve
- Soft seated externally guided disc ensures a leak tight seal
- Mating threaded parts are dissimilar non-galling materials
- Product engineered using CFD technique to reduce pressure drop
- Re-positional inlet body viz. two types of mounting arrangement I-type (180° angle) and L-type (90° angle)
- NPT drain plug at the inlet and outlet body.
- Lesser room space compared to conventional pumping system
- Contains a built-in bypass valve allowing for drainage of water upstream of the check valve. (The bypass valve MUST BE CLOSED at all times in normal operation and should ONLY be used by authorized personnel to drain water from the piping above)



CHILLED WATER HEATING WATER HEAT TRANSFER

WATER FIRE INDUSTRY

PUMP TYPES

Closed Coupled End Suction, Flex Coupled End Suction, Vertical Inline & Horizontal Split Case

PERFORMANCE

- 2" - 24" Discharges
- Flows to 10,000 GPM
- Heads to 250 PSI

FEATURES

- Horizontal and Vertical Configurations
- 48 Standard Designs
- Custom Designs
- UL QCZJ Listed
- UL 508 Control Panels
- Carbon Steel Piping
- Variable or Constant Speed Designs
- Hydronic Accessories
- Web-Based Communication
- High Pressure Systems
- Vibration Isolation Skids
- Water Treatment Systems
- Environmental Enclosures
- On Skid Dhillers



NSF / ANSI 61
AS CERTIFIED
BY IAPMO



2905 Pacific Drive
Norcross, GA 30071
Tel: (770) 447-4443
www.syncroflo.com

TOTAL COMMITMENT

Since 1962, our commitment to excellence has enabled SyncroFlo to become the world's leading manufacturer of pumping stations. The SyncroFlo name has become synonymous with quality-built, cost-effective pumping systems. We pioneered pre-assembled pumping systems decades ago. Today, our installed base includes some of the largest pumping systems ever built.



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