



บริษัท สยามราช จำกัด (มหาชน)
SIAMRAJ PUBLIC COMPANY LIMITED

บริษัท สยามราช จำกัด (มหาชน) SIAMRAJ PUBLIC COMPANY LIMITED



Engineered Pumps & Systems Specialist

SIAMRAJ PUBLIC COMPANY LIMITED

บริษัท สยามราช จำกัด (มหาชน) (เดิมชื่อบริษัท สยามราชธานี คอร์ปอเรชั่น จำกัด และ บริษัทเอ็นจีเนียริ่ง โปรดักส์ จำกัด) จัดทะเบียนก่อตั้งขึ้นเมื่อวันที่ 20 กุมภาพันธ์ 2527 ในนาม บริษัท เอ็นจีเนียริ่ง โปรดักส์ จำกัด ด้วยทุนจดทะเบียนเริ่มต้น 1,000,000.- บาท มีวัตถุประสงค์เริ่มแรกเพื่อออกแบบและจำหน่ายระบบปั๊มอุตสาหกรรม รวมถึงให้บริการด้านวิศวกรรมเกี่ยวกับระบบปั๊มอุตสาหกรรม (Engineered Pumps and Systems) แก่โรงงานอุตสาหกรรมทั่วไป

ในปี พ.ศ. 2547 บริษัทฯ ได้ขยายธุรกิจเพิ่มอีก 2 กลุ่มธุรกิจ คือ กลุ่มธุรกิจก่อสร้างสถานีวัดและระบบท่อส่งก๊าซธรรมชาติ (Metering and Pipeline Transmission Business Unit) และ กลุ่มธุรกิจก๊าซธรรมชาติสำหรับยานยนต์ (Natural Gas for Vehicles Business Unit)

เมื่อวันที่ 4 กุมภาพันธ์ 2551 บริษัทเอ็นจีเนียริ่ง โปรดักส์ จำกัด ได้เปลี่ยนชื่อบริษัทใหม่เป็น บริษัท สยามราช คอร์ปอเรชั่น จำกัด และเมื่อวันที่ 2 กุมภาพันธ์ 2558 ได้แปรสภาพเป็นบริษัทมหาชน พร้อมเปลี่ยนชื่อบริษัทเป็น บริษัท สยามราช จำกัด (มหาชน) มีทุนจดทะเบียนจำนวน 300,000,000 บาท

เมื่อเดือนตุลาคม 2560 บริษัทฯ ได้เพิ่มทุนจดทะเบียนจาก 300 ล้านบาท เป็น 338.50 ล้านบาท จากการขายหุ้นเพิ่มทุน โดยแบ่งเป็นหุ้นสามัญจำนวน 767,700,000 หุ้น มูลค่าหุ้นที่ตราไว้ หุ้นละ 0.50 บาท (50 สตางค์)

ปัจจุบันกลุ่มธุรกิจก่อสร้างสถานีวัด และระบบท่อส่งก๊าซธรรมชาติ (Metering and Pipeline Transmission Unit) และกลุ่มธุรกิจก๊าซธรรมชาติสำหรับยานยนต์ (Natural Gas for Vehicles Business Unit) และกลุ่มปั๊มอุตสาหกรรม (Engineered Pumps and Systems Business Unit) ยังเป็น 3 กลุ่มธุรกิจหลักที่ดำเนินการมาจนถึงปัจจุบัน

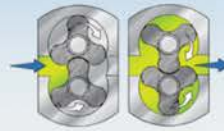
สารบัญ

CONTENT

VIKING (Hygienic Pump)	1
VIKING (Gear Pump)	2-3
SANDPIPER (AODD)	4
COGNITO (EODD)	5
CORKEN	6
LC METER	7
GOULDS PUMPS	8-9
GOULDS WT (XYLEM)	10
POMPETTRAVAINI	11
IMO / IMO AB	12
SEEPEX	13
HOWDEN TURBO	14
ACE TURBO	15
SES INTERNATIONAL	16
KWANGSHIN	17
CANNED MOTOR & LINDEN BUCK	18
OMG / JESCO	19
KANSAI AUTOMATION	20
PIGGING SYSTEM & SERVICE	21

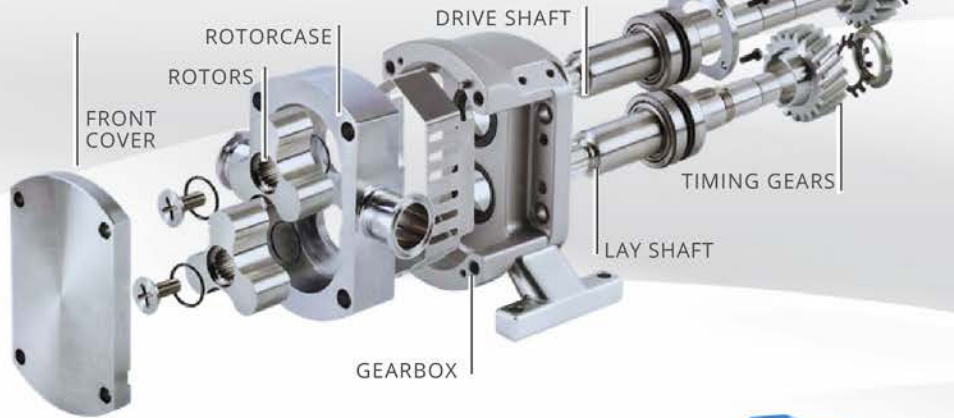
Responsibility *with* QUALITY





ROTARY LOBE PRODUCT LINE
STAINLESS STEEL

KEY PUMPING ELEMENTS



STERILOBE® SERIES



REVOLUTION® SERIES



CLASSIC+/MULTIPUMP® SERIES



RTP® SERIES™

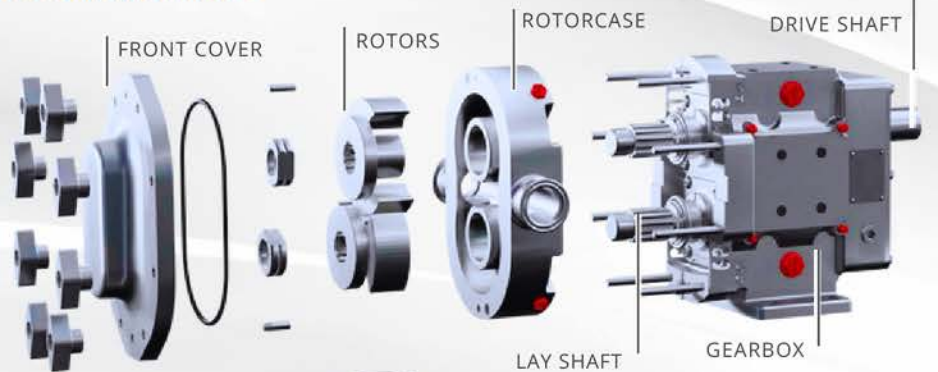


<p>CAPACITY to 832 GPM (189 m³/h)</p>	<p>PRESSURE to 218 PSI (15 BAR)</p>	<p>VISCOSITY to 2,000,000 SSU (440,000 cSt)</p>	<p>TEMPERATURE to +300°F (+150°C)</p>
---	--	--	--



CIRCUMFERENTIAL PISTON PRODUCT LINE
STAINLESS STEEL

KEY PUMPING ELEMENTS



REVOLUTION® SERIES



TRA®20 SERIES™



TRA®10 SERIES™



Parts are interchangeable with Waukesha® U2 & U2 (Universal series)



Remanufacturing 1

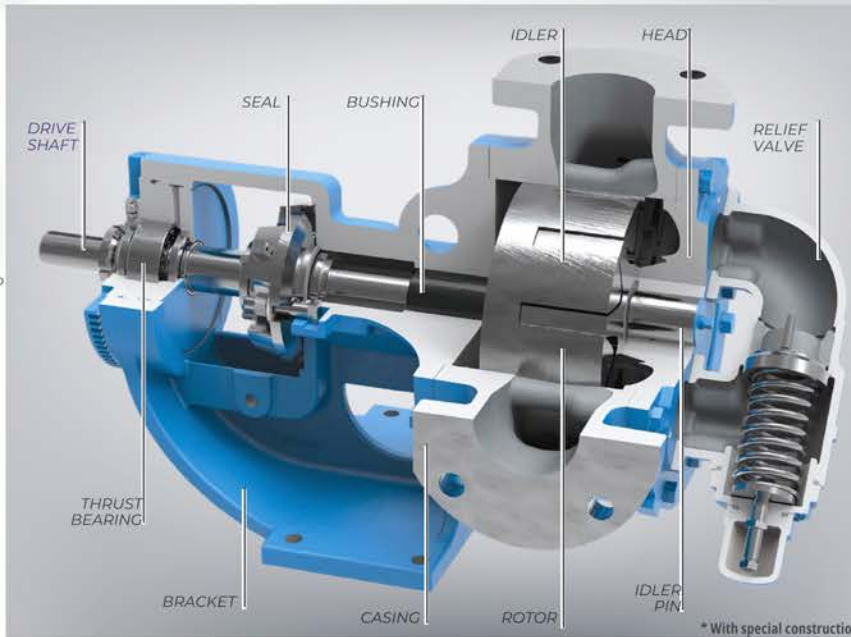
<p>CAPACITY to 450 GPM (102 m³/h)</p>	<p>PRESSURE to 500 PSI (34 BAR)</p>	<p>VISCOSITY to 2,000,000 SSU (440,000 cSt)</p>	<p>TEMPERATURE to +300°F (to +150°C)</p>
---	--	--	---

WE HAVE THE PRODUCTS FOR YOUR INDUSTRY



ROTARY PUMP BENEFITS

- OPERATES AT ANY POINT ON THE CURVE**
 - High efficiency at full range of speeds
 - Flow rate largely independent of changes in pressure
- LONG SEAL & BEARING LIFE**
 - Generally operated at speeds from 10 to 1750 RPM, for increased seal and bearing life
- LOW SHEAR**
 - Documented shear rates enable selection of proper pump and speed to protect shear-sensitive liquids
- LOW NPSHr**
 - Enables suction lifts, handling fluids prone to flashing, and pulling from vacuum vessels
- FLOW PROPORTIONAL TO SPEED**
 - Provides easy control of flow rate with a variable speed drive for excellent metering capabilities
- HANDLES A WIDE RANGE OF VISCOSITIES**
 - Capable of handling up to 2,000,000 SSU (440,000 cSt)
- SIMPLE MAINTENANCE**
 - Seal, head and gear replacement can usually be done in place without removing pump from piping
- SELF-PRIMING**
 - Enables priming if pump is above liquid level
 - Some Viking pumps are capable of suction lifts, up to 20 ft (6 m)
- REVERSIBLE DIRECTION OF FLOW**
 - Use same pump for loading and unloading or line stripping



CAPACITY to 1,600 GPM (363 m ³ /h)	PRESSURE to 250 PSI (17 BAR)	VISCOSITY* to 2,000,000 SSU (440,000 cSt)	TEMPERATURE* -120°F to +800°F (-85°C to +430°C)
--	---	--	--

Replace Packing or Mechanical Seals with O-Pro®



- **O-Pro® Barrier** combines reliable sealing with easy maintenance.
- **O-Pro® Barrier** is standard with FKM elastomers.



- Sealless mag drive eliminates the shaft seal to provide the highest level of liquid and vapor containment
- All liquid and vapor is hermetically sealed in the pump
- Used especially for hazardous and difficult-to-seal liquids



O-PRO™ BARRIER SEAL



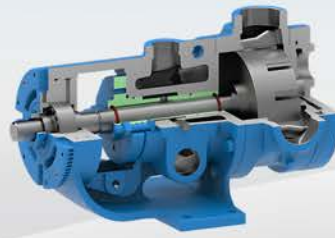
UNIVERSAL PRODUCT LINE |



REPLACES
Packing Gland
Packing
Bracket Bushing



1124A SERIES
(non-jacketed, O-Pro® Barrier seal)



1224A SERIES
(jacketed, O-Pro® Barrier seal)



1324A SERIE
(jacketed, O-Pro® Barrier seal)

MOTOR SPEED PRODUCT LINE |



495 SERIES

(backet mount, behind the rotor seal)



4195 SERIES

(foot mount, behind the rotor seal)



- The most compact gear pump series available to fit tight space constraints.
- High speed operation for the most economical pump option for thin to moderate viscosity.
- Vertical mounting options to further reduce the unit footprint.

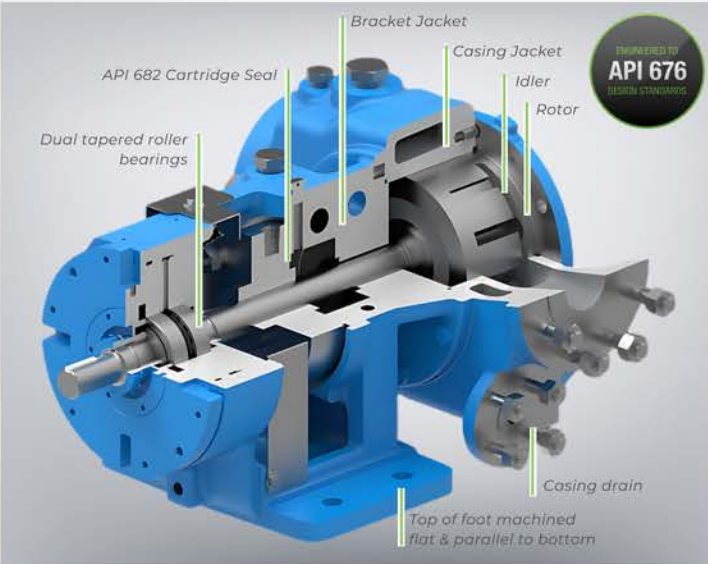


Internal Pressure Relief Valve

LIQUID SPECIFIC PRODUCT LINE |



4223AX SERIES™, 4323AX SERIES™ (API 682 Seal, API 676 Full Compliance)



EMPOWERED TO
API 676
DESIGN STANDARD



The **External Gear Pump with spur gears** offers higher pressures and unique abilities to supply multi-section specialty pumps with one driver.

SG-04, SG-05, SG-07, SG-10 & SG-14 SERIES

- Pipeline Injection
- Pipeline Sampling
- Oil Polishing
- High Pressure Lubrication
- Hydraulics
- Fuels
- Lube Oils



ADDITIONAL
CORROSION
ALLOWANCE



Accept lip seals or labrinth seals



- CAPACITY**
to 1,600 GPM
(363 m3/h)
- PRESSURE**
to 200 PSI
(14 BAR)
- VISCOSITY**
28 to 2,000,000 SSU
(0.1 to 440,000 cSt)
- TEMPERATURE**
-120°F to +800°F
(-85°C to +430°C)

LVP Series™ vane pump



TYPICAL APPLICATIONS

Common vane pump applications include, but are not limited to:

- Acids & alkalis
- Alcohols & solvents
- Aqueous solutions
- Monomers
- Hexane, pentane
- Refined fuels
- Reactor vessel ingredient metering
- Vacuum vessel service
- Suction lift applications
- Long suction or discharge line applications





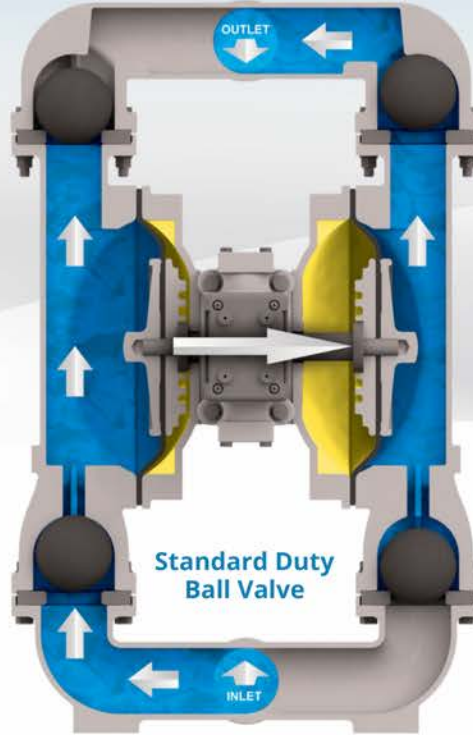
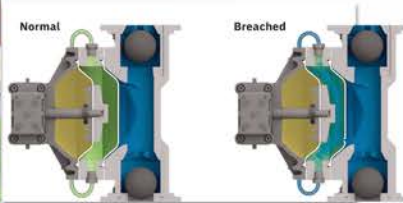
Heavy Duty Flap Valve Pumps
Large solids easily pass through pump



Heavy Duty Ball Valve Pump
Settling solids easily pass through pump



Containment Duty Ball Valve Pump
Contains fluid when diaphragm becomes breached



All Bolted Construction
Superior reliability is defined by our all bolted pump construction that allows for instant part alignment, uniform torquing of seals, and high pressure capabilities



Various Power Sources
SANDPIPER pumps operate at optimum performance using compressed air, but we also have pumps available for running off of your local reserve of natural gas



Tested Quality
SANDPIPER pumps are 100% wet tested after final assembly to ensure proper functionality; Testing includes, but is not limited to, deadheading, priming, and sealing



Superior Performance
For Flap Valve pumps the hinge pads exert positive pressure on the flaps allowing the pump to operate in virtually any position, helping deliver superior suction lift and flow rates



Guaranteed Connecting Rod
Our durable, corrosion resistant 416 (Martensitic) and/or 316 (Austenitic) Stainless Steel diaphragm connecting rod is guaranteed not to yield under tension, compression, or bending



ESADS+Plus Air Valve System
Externally Serviceable Air Distribution System



ROBUST DIAPHRAGM CONNECTING ROD
Guaranteed not to yield under tension, compression, or bending.



5 YEAR LIMITED PRODUCT WARRANTY
5 Year Guarantee for defects in material or workmanship.



ESADS+PLUS AIR DISTRIBUTION SYSTEM
Allows for quick and easy access to the pilot and spool valves.

HEAVY DUTY FLAP
METALLIC AND NON-METALLIC
Recommended for abrasive slurries, non-suspended solids and line-size solids



HDF1 AND HDF25 METALLIC 1"



HDF3 AND HDF4 METALLIC 3" & 4"

HEAVY DUTY BALL
METALLIC
Ideal for thin-to-highly viscous fluids and small solids-laden fluids



HDB40 METALLIC 1 1/2"



HDB3 & HDB4 METALLIC 3" & 4"

STANDARD DUTY BALL
METALLIC AND NON-METALLIC
Best for intermittent / on-demand, portable, moderately abrasive fluids, and suspended solids



SIF METALLIC 1"



S30 METALLIC 3"

CONTAINMENT DUTY
METALLIC AND NON-METALLIC
Optimal for highly corrosive and hazardous chemical fluid applications



SIF NON-METALLIC 1"



ST1-1-2 Containment
ST1 1/2 & ST40 METALLIC 1 1/2"

OTHER SPECIAL



FDA & SANITARY



HIGH PRESSURE



GAS OPERATED



SUBMERSIBLE

ACCESSORIES

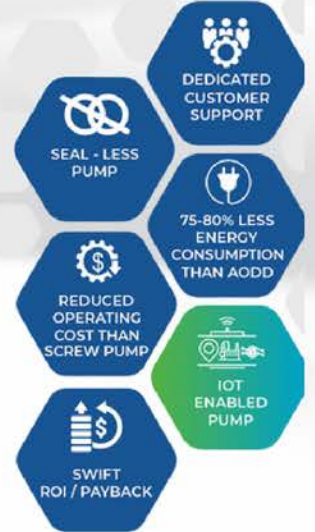
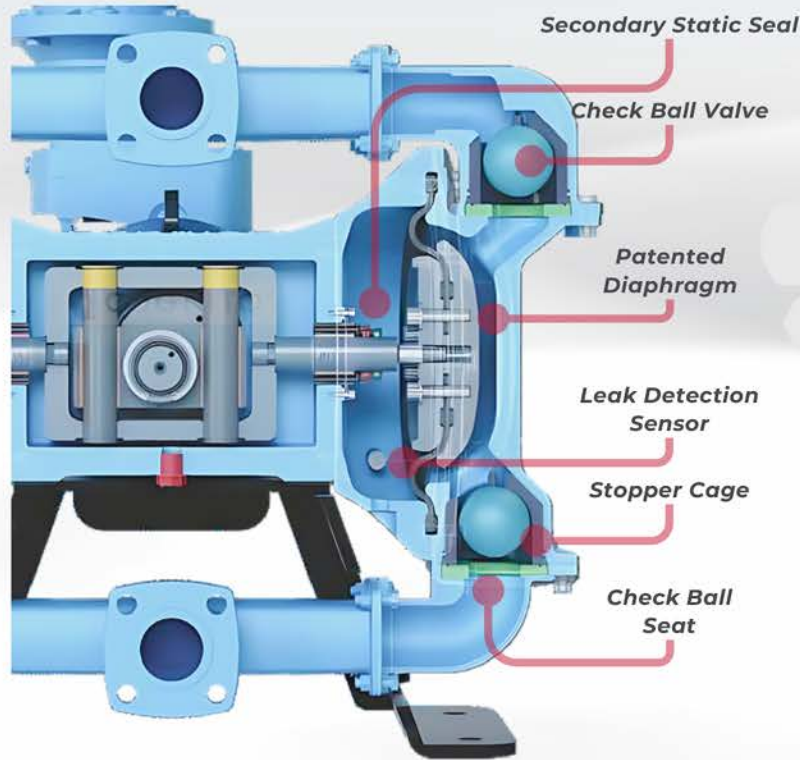


Surge/Pulsation Dampeners



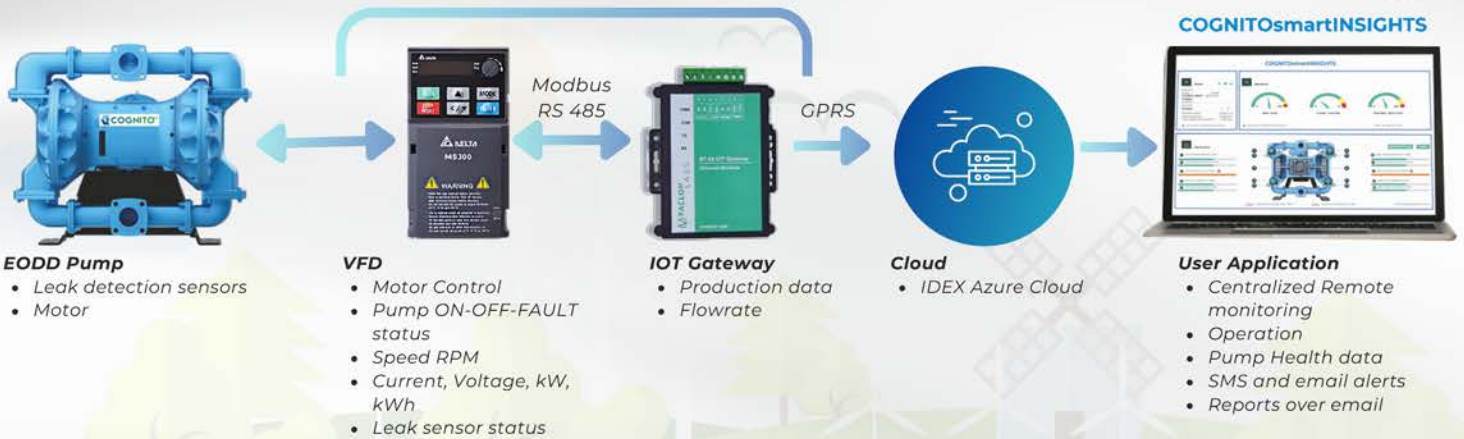
Filter Regulator

ELECTRICALLY OPERATED DOUBLE DIAPHRAGM PUMPS



COGNITOsMARTINSIGHTS

Control Panel



COGNITOsMARTINSIGHTS



24X7 Real-Time Condition Monitoring



Preventive Maintenance Alerts



Remote Health Monitoring



Central Reporting for All Department



Actionable insights



Secured Solution for Data Integrity



Coro-Vane® Industrial Sliding Vane Pumps



Model PT20



Model PT25



Model PT30



Model Z2000



Model Z3200



Model Z4200

PZ-Series

Sliding Vane Petroleum Pumps For Refined Petroleum



Model PZ7

Coro-Flo® Industrial Turbine Pumps



MODEL F14-101

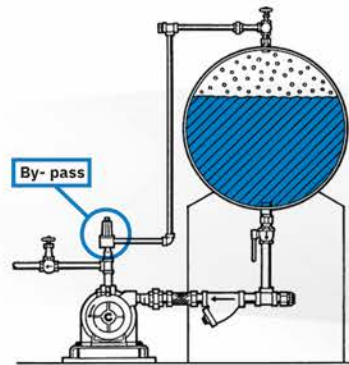
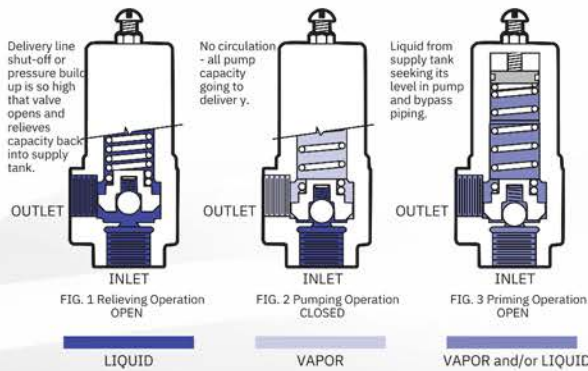


F-MODEL WITH ANSI FLANGES



DS/DL MODEL

Corken B166 Bypass Valve Functions.



Typical Application: On all Corken Coro-Flo pumps as well as bottle pumps of other manufacturers. On propellant feed pumps at aerosol filling plants.

I-Series Industrial Series Compressors

E91 TRIPLE PACKED (OIL-FREE COMPRESSION)

- Triple packing provides the safest and most reliable gas containment for indoor or outdoor use.

DON'T GAMBLE WITH CONVENTIONAL COMPRESSORS

Single Packing

Good for Outdoor Use

Double Packing

Better for Outdoor Use

E91 Compressor System is fully UL Certified for use with plant oil extraction systems

Conventional Compressors may not be fully UL certified for plant oil extraction systems

UL CERTIFIED SAFETY US E518975

VAPOR RECOVERY COMPRESSOR FOR PLANT OIL EXTRACTION



Model FD491 Vertical - Gas Compressors



Model WFD591 Double Packed Reciprocating Compressors



Model WD391

Model HG602 Reciprocating Gas Compressors Tanker and Multiple Railcar Unloading and Recovery Inner oil wiper rings





FUELING AUTOMATION MADE EASY.

LCR.iQ®



MASTERLOADx.iQ™



ATEX Div. 2, Zone 2 rated

ATEX Zone 1 rated



DONE!

Receive Transaction Data by **QR CODE**

(patent pending)



MA-7®

LPG BOBTAIL METER SYSTEMS

M-5®, M-7®, M-10®

REFINED FUELS TRUCK METERS

Liquid Reference Table



THE ORIGINAL TRI-ROTOR METER

LOW PRESSURE DROP
~2.3 PSI
*avg. based on flowrate

WIDE RANGE TEMP
-40° TO 160°
(-40° to 71°C)

FULL FLOW RANGE
6 -1000 GPM
(20 to 3780 LPM)

INDUSTRIAL APPLICATIONS : SUGARS, SYRUPS, WATERS, SOLVENTS, ACIDS, AND HIGH VISCOSITY OILS



CLASS 3

M-7 class 3 meter with mechanical register



CLASS 4

M-5 class 4 meter with register and printer



CLASS 8

M-7 class 8 stainless steel meter with register



CLASS 14

M-30 class 14 meter with POD for LCR.iQ



MSAA-75 class 14 meter with mechanical register



CLASS 1, 2, 10, 14, 16



M-30® with LCR.iQ® electronic register

Relate Product



Batch Controller
Multiload custody transfer

API610 / ISO13709 PROCESS PUMP



3610 API610 (BB1)
Horizontal Split Case,
Double Suction



3620 & 3640 API610 (BB2)
Single & Two-Stage Between
Bearing



3700 & 3710 API610 (OH2)
Single-Stage, Overhung



API 3171 (VS4)



VIC (VS6)



VIT (VS1)



3910 API610 (OH3)
Vertical In-Line with
Bearing Frame



7200CB API610 (BB5)
Barrel Multistage Pumps



3600 API610 (BB3)
Heavy Duty Multistage

i-ALERT® Remote Monitoring Solution

Zero Unplanned Downtime Sensor | App | Gateway | Diagnostics | Ai Platform



Bluetooth Sensors

Monitor tri-axial vibration,
temperature, run-time hours and
pressure

Mobile App

Monitor your machine right
from your phone with the free
mobile app.

Gateway

Add remote monitoring
capabilities by leveraging remote
data collection devices

Ai Platform

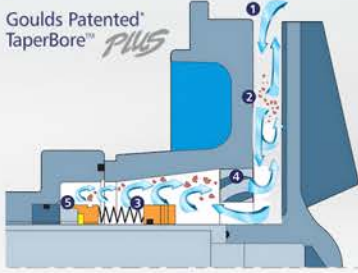
Monitor all of your i-ALERT
sensors and machines from
a simple web interface

ANSI CHEMICAL PROCESS PUMPS

A World-Class pump line built to ANSI Standards



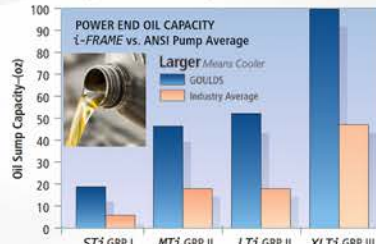
An ITT Brand



U.S. Patent No. 5,336,048



i-ALERT® Remote Monitoring Solution



Our Guarantee
We are so confident that the i-FRAME is the most reliable Power End in the industry, that we are proud to offer a standard 5-year warranty on every i-FRAME ANSI Process Pump.



GOULDS 3196 i-FRAME™



1590 m³/hr, 223 m
Up to 371 oC, 26 bar

Bonus Interchangeability Process Pumps

i-FRAME Power Ends Fit 7 Different Process Pump (Minimize inventory, reduce down time)

Vortex Impeller Solids 49 – 150 mm



CV3196 Non-Clog

(>150 to 372 deg C)



HT3196 High Temp.



LF3196 Low Flow

Fiberglass Reinforced Vinyl-ester Corrosion resistance



NM3196 FRP



3796 Self-Priming



3198 PFA Teflon Lined



3180 / 3185 / 3175 Paper Stock Process Pumps



Open Impeller Solids 22 – 69 mm



Enclose Impeller Solids 22 – 127 mm



3393 Heavy Duty Multi-stage



IC/ICO ISO 2858/5199 Process Pump

Sealless Process Pumps (Mag-Drive) zero leakage



3298 TEFLON Lining Frame Mounted & Close-Coupled



IC, ICM (Metallic) Frame Mounted & Close-Coupled



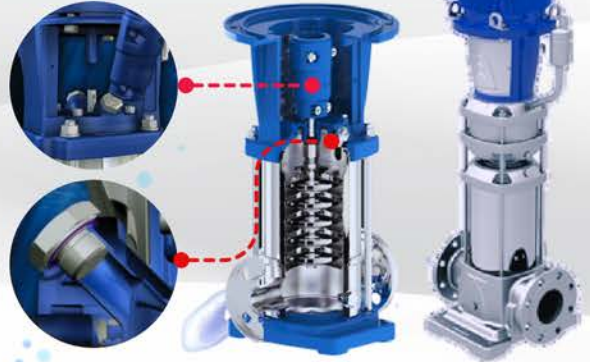
ICP (Center Line) High Temperature ISO Process Pump (up to 280 oC / 25 Bar Max.)



e-SV Vertical Multistage: Special versions available

- Low NPSH
- High Pressure
- High Temperature 150 oC or 180 oC
- Version with Hydrovar
- Reduced footprint <<R>>
- Horizontal installation
- 4-Pole

Replace mech. seal quickly & easily without removing the motor.



Top Tilt plugs with air vents available for all models



- e-MPV**
- compact vertical footprint
 - four nozzle positions (90°, 180°, 270°, 360°)

e-MP Multistage Pumps

- MPAE, MPDE, MPRE** : 1450 psi (100 bar) pumps
- MPAT, MPDT, MPRT** : Temperature range of 284°F - 320°F
- MPAM, MPDM, MPRM** : Multi-outlet pumps
- MPVH** : Designation for pumps with Hydrovar



- e-MPA**
- highest suction capability (the lowest NPSH)
 - axial inlet flow
 - reduced wear due to fewer parts
 - small horizontal footprint



- e-MPR**
- higher suction nozzle flexibility
 - reduced wear due to fewer parts
 - small horizontal footprint



- e-MPD (Heavy Duty)**
- higher possible inlet pressure (up to 580 psi)
 - **double bearings**
 - higher suction nozzle flexibility
 - optional drive on the suction side
 - horizontal footprint



Submersible Pump



Single Stage, Double Suction
(12,960 m³/hr x 266 m)

Xylem - Heat Transfer



Engineered Shell & Tube Exchangers



Standard Shell & Tube



U-Tube Exchangers

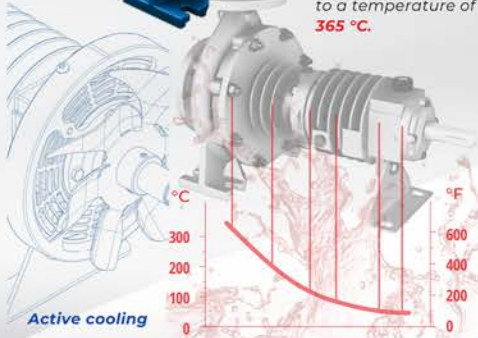
TCD / ISO 2858
Closed impeller



- TCD pump series are specifically designed to handle thermal fluids up to 320 °C without special cooling systems.
- In the active cooling version "XT" it is possible to pump diathermic fluids up to a temperature of 365 °C.



TCH	MCU-CH	TCH GR.5	TCT
500 m ³ /h 16 bar	1200 m ³ /h 6 bar	2500 m ³ /h 7 bar	2500 m ³ /h 7 bar
Single-stage centrifugal pumps with closed impeller, ISO 2858 & 5199	Single-stage centrifugal pumps with radial type impeller with overhanging mounting, ISO 2858	Single-stage centrifugal pumps with closed impeller, ISO 2858 & 5199	Single-stage centrifugal pumps with open vortex impeller, ISO 2858



BLOWERS & EXHAUSTERS



BOOSTER HV

Liquid Ring Vacuum Pumps



TRS
Single-stage, medium vacuum
Capacity: 10 - 3500 m³/hr
vacuum: 200 - 900 mbar



Travaini TRH & TRS Vacuum Pumps
Flowserve SiHi® Sterling® Compatible
Compatibility between Flowserve SiHi Sterling® and Travaini Vacuum Pumps



TRH
Double-stage, high vacuum
Capacity: 3 - 3500 m³/hr
vacuum: 33 - 200 mbar

Multi-Stage Centrifugal Pump



TMA



Multistage centrifugal pumps with closed impellers



TBH



Multistage self-priming centrifugal pumps with open "star" type impeller



TBA



Multistage self-priming centrifugal pumps with low NPSH



TBK



Magnetic drive multistage self-priming centrifugal pumps



TBAK



Magnetic drive multistage self-priming centrifugal pumps with low NPSH



AC Exhauster package composed of baseframe, AC Exhauster, motor with belt drive, inlet silencer with filter, AC manifold with silencer, output silencer.



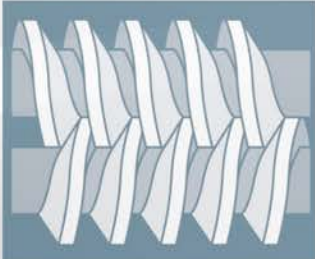
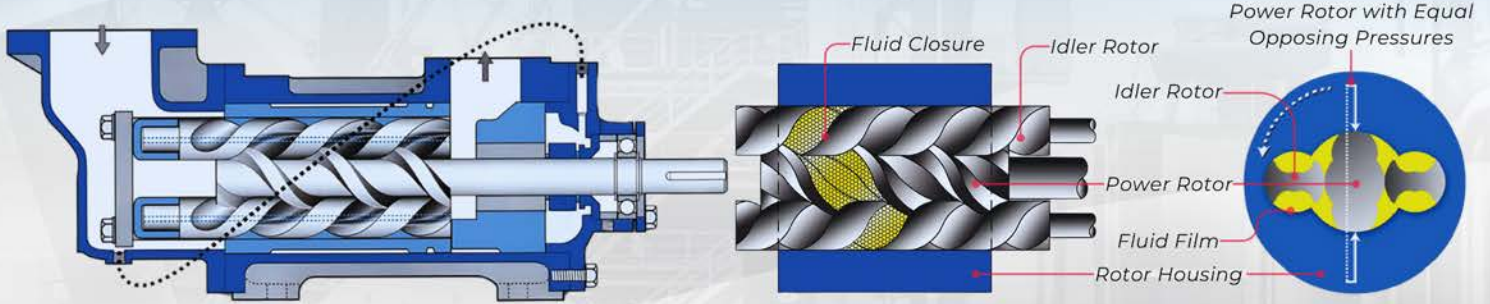
HYDROTWIN
Package vacuum units with total liquid recirculation



HYDROSYS
Vacuum systems with total or partial water recirculation



OILSYS
Vacuum systems with total oil recirculation



BENEFITS & Advantages of Twin-Screw Pump Technology

DRY RUNNING CAPABILITY	HIGH RELIABILITY & LONG SERVICE LIFE	FLEXIBILITY OF USE WIDE RANGE OF LIQUID & VISCOSITIES	EXCELLENT SUCTION CAPABILITY	EXCELLENT FLOW CONTROL	LOW NPSH REQUIREMENTS



Twin-Screw Pumps / Houttuin

Houttuin Lube Oil Series
For pumping clean, lubricating fluids and lube oil applications. The HTN LO pumps provide compact, reliable solutions for high flow requirements in transport and lubrication applications.

Max. Capacity [m³/h]:	1,000
Max. Differential Pressure [bar]:	16
Max. Fluid Temperature [°C]:	80
Viscosity Range [cSt]:	10-760

Twin-Screw Pumps / Houttuin

Houttuin Transfer Series
Optimized for dry running, stripping and self-priming to ensure low NPSH requirements. In addition, low, medium and high pressure versions are available and the pumps are available for CIP.

Max. Capacity [m³/h]:	5,000
Max. Differential Pressure [bar]:	60
Max. Fluid Temperature [°C]:	400
Viscosity Range [cSt]:	0,5-100,000

Twin-Screw Pumps / Warren

WARREN JAGUAR
Flexible, durable and efficient; a heavy-duty pump built to perform and handle differential pressures up to 800 psi. Its adaptability makes it a perfect fit for a wide range of applications including chemical processing, petroleum refining, power generation, food handling or barge unloading.

Max. Capacity [m³/h]:	1,000
Max. Differential Pressure [bar]:	4,800
Max. Fluid Temperature [°C]:	100,000
Viscosity Range [cSt]:	750

Twin-Screw Pumps / Warren

WARREN FSXA SERIES
Highly efficient and built to last, these heavy-duty, high pressure pumps deliver efficient performance year after year and are perfectly suited for a wide range of applications in the oil and gas industry.

Max. Capacity [m³/h]:	1,400
Max. Differential Pressure [bar]:	4,500
Max. Fluid Temperature [°C]:	100,000
Viscosity Range [cSt]:	225



SMART CONVEYING TECHNOLOGY
IMPROVED PRODUCTIVITY

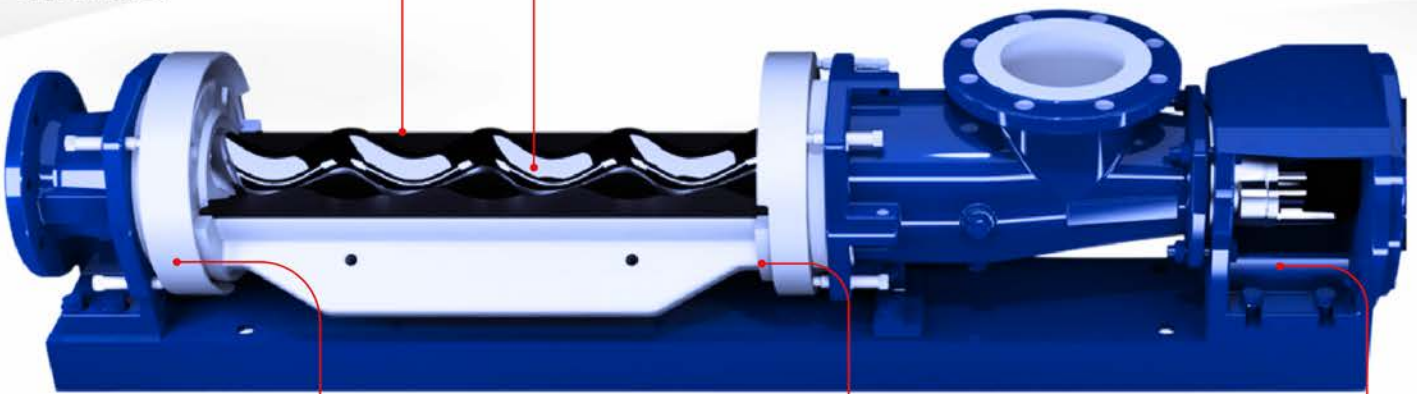


SMART STATOR

Two, comparatively light, stator halves.

SMART ROTOR

With detachable rotor head connection for fast assembly / disassembly, while leaving the universal joint intact.



KINETIC RING

For positioning and axially sealing the stator halves, adjusting the stator clamping and retensioning the stator halves.

SEGMENT RETAINER RINGS

For positioning and radially sealing the stator halves and locating the adjusting segments.

SMART SEAL HOUSING (SSH)

Sectioned seal housing for quick replacement of the mechanical seal and access to the drive-side joint.



BN - PUMP WITH BLOCK DESIGN
Compact model with direct flange-mounted drive unit



BNA - API676 STANDARD PUMP
Designed for the oil and gas industry



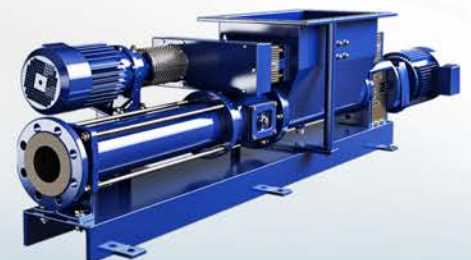
BT - STANDARD HOPPER PUMP
The allrounder with conveying screw and large hopper cross section



CS - FOOD AND HYGINIC PUMPS
Food and hygienic pumps fulfill even the strictest hygiene requirements in the food, pharmaceutical, cosmetics and chemical.



MD - METERING PUMP FOR PRECISE METERING AND DOSING
Designed with threaded connections for general metering applications.



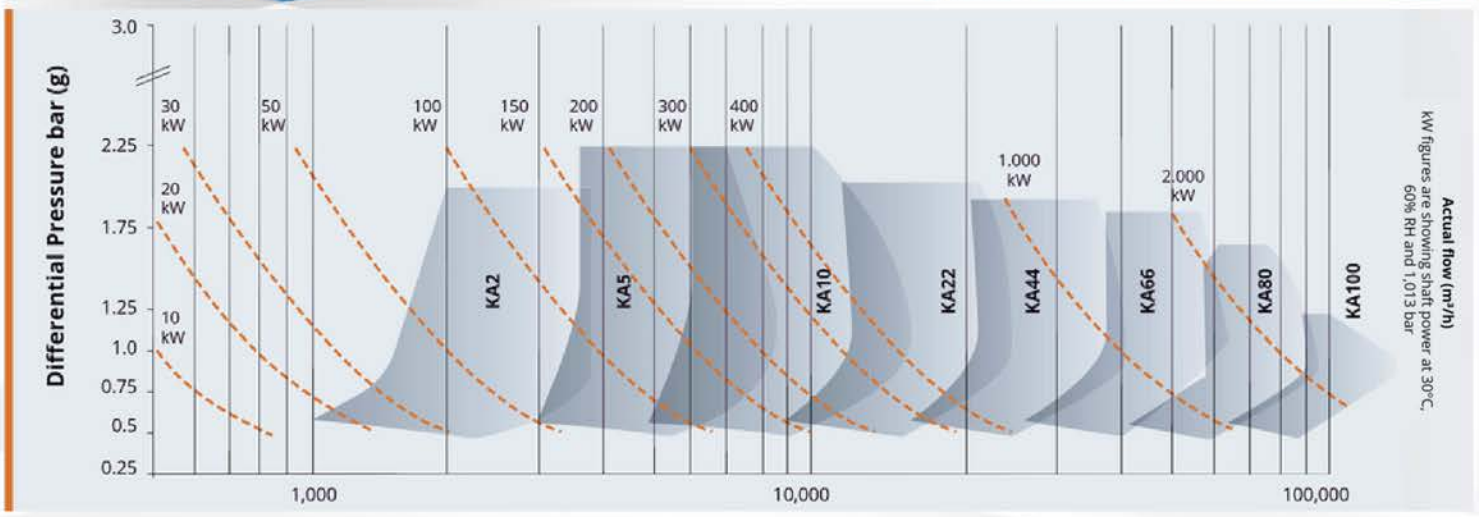
BTI - WITH INTEGRATED BRIDGE BREAKER
Two counter-running paddle shafts with their own drive mix highly viscous media

Large sized compressor unit

Inlet flow from 40,000-80,000 Nm³/hour and differential pressure from 0.4-1.5 bar.

- Waste Water Plant
- Waste Water Aeration
- Fermentation process

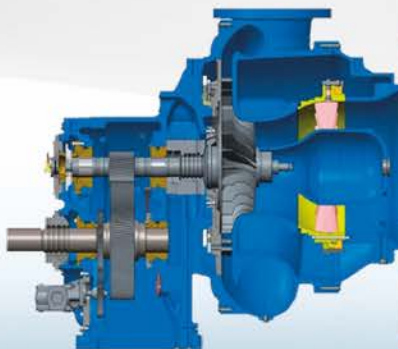
Pre-Designed Turbocompressors



Inlet guide vane



Impeller with leaning blades

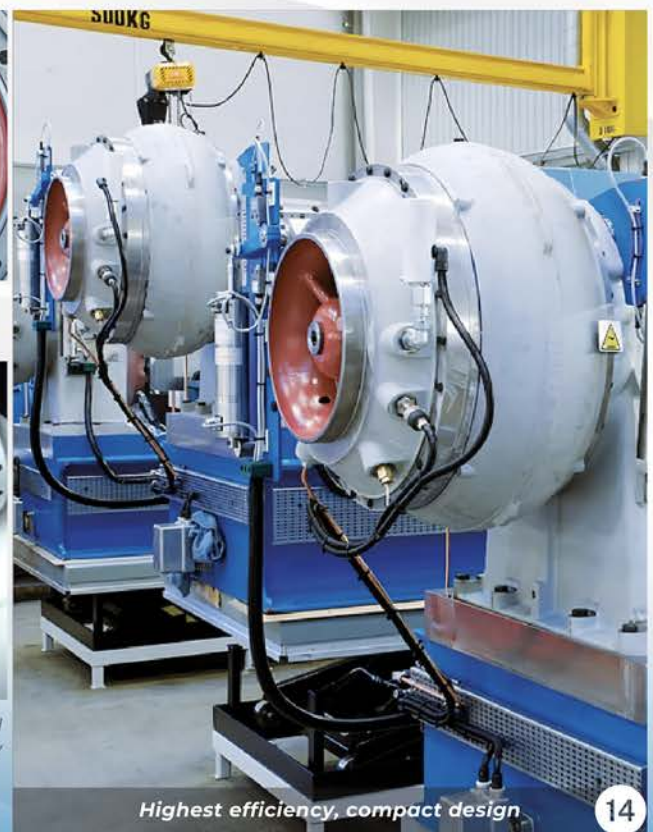


GL-gear type series

The bearings are hydrodynamic multi-pad bearings with forced oil lubrication. The designed bearing lifetime is 100,000 operational hours.



Ball bearing unit with helical gear and diffuser vanes for optimal efficiency



Highest efficiency, compact design

Fully integrated blow off valve

- Integrated in each package for both start-up and blower surge protection.
- Valve – cast iron butterfly type.
- Actuator – electrically operated.

Filters /silencer

- Suction filter (grade EU4 or equivalent) installed on enclosure wall.

Impeller

- Single high efficiency impeller mounted directly onto motor shaft.



Motor

- Active magnetic bearing technology.
- Oil free and zero friction.
- Integrated catcher bearing.

Diffuser vanes

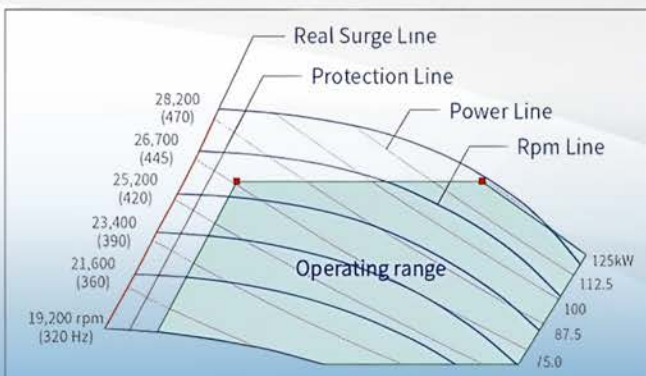
- Volume and pressure control.
- Controlled by a linear actuator.
- Provides Dual Point Control in conjunction with integrated variable speed.



AIRFOIL TURBO BLOWER



WIDE OPERATING RANGE



ABOUT SES SERVICE

- Gas compressor systems.
- Gas compressor chiller systems.
- Gas reliquifaction/Boil off systems.
- Pump systems (Power generation etc).
- Lube oil systems API 614.
- Water re-injection systems.
- Water booster systems.



CHILLER & REFRIGERATION UNIT



VAPOR RECOVERY UNIT



GAS RELIQUFACTION & DEHYDRATION UNIT



KwangShin

Dependable Compressors

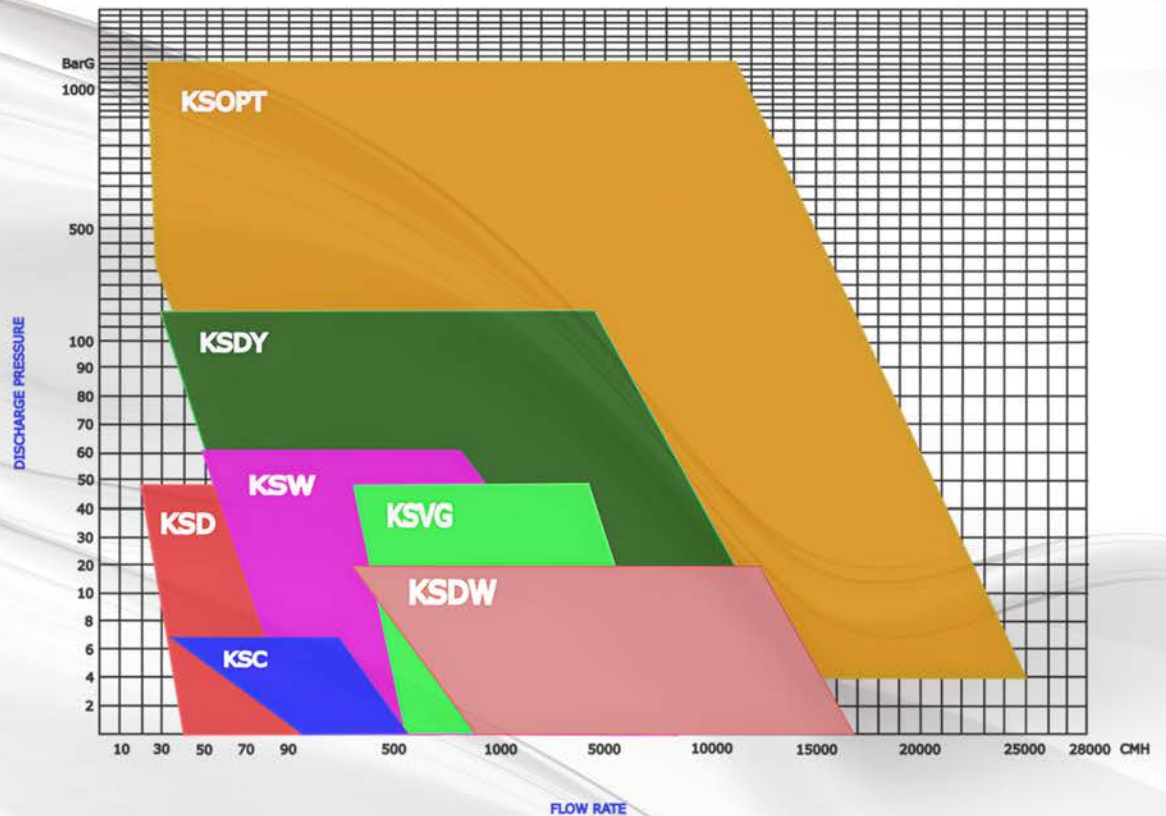


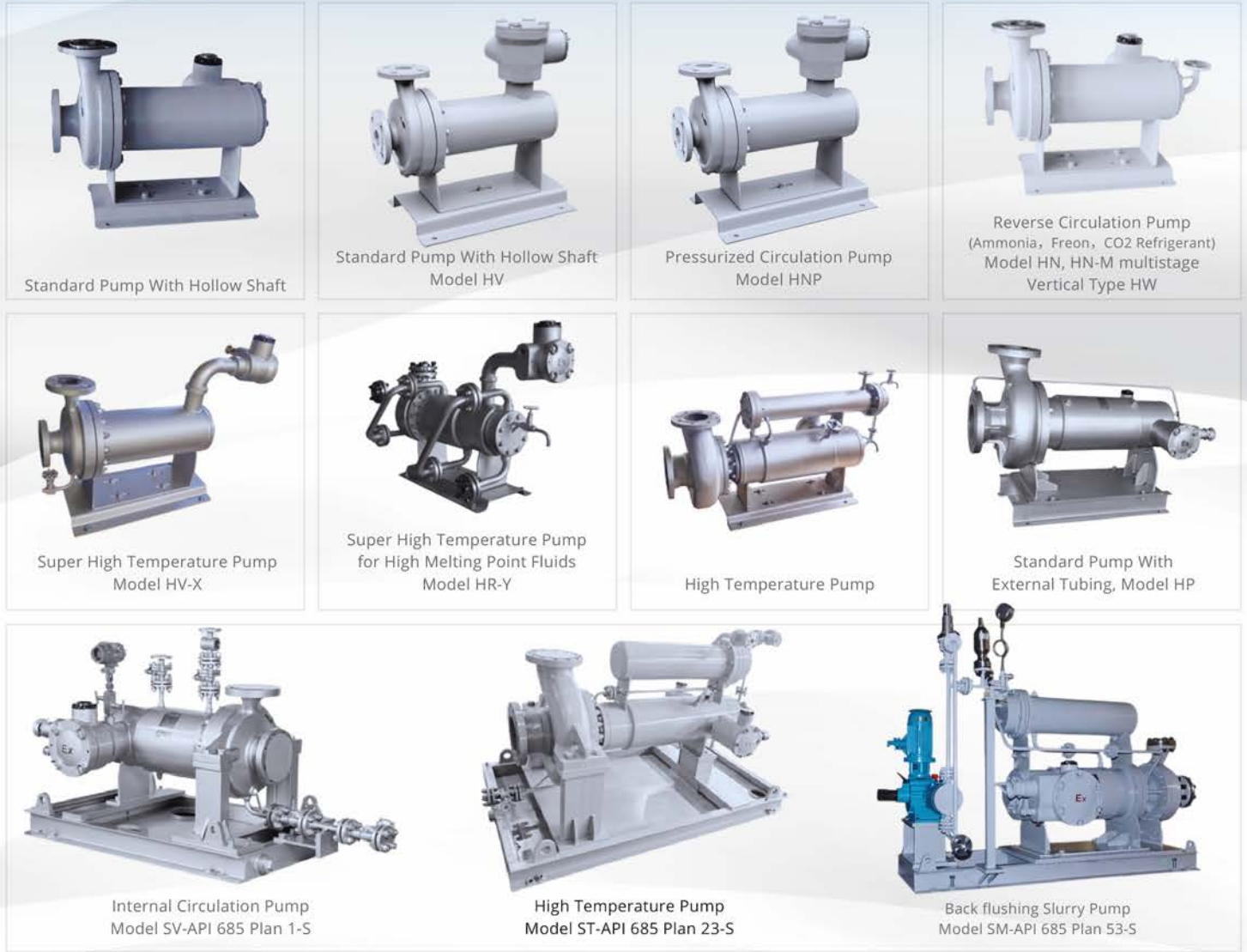
명문장수기업
Time-honored Business



ABOUT KWANGSHIN

Kwangshin Compressors have been designed Kwangshin Standard and in conformity with API STANDARD 618, the latest edition, recommendations. They also comply with many guidelines and international construction codes and customer requirements in force. Kwangshin produces diverse types of compressor to satisfy pressure and use in any ranges require by customers.



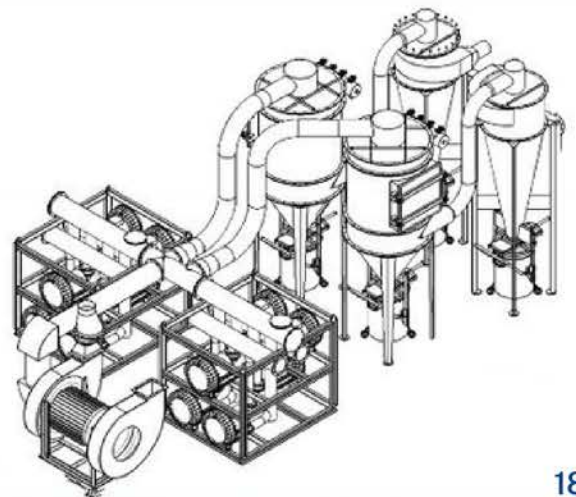


LB **Linden Bucks Sdn. Bhd.**
central vacuum systems specialist company no. 199701005156

Centralized Vacuum Systems



KEVO VACUUM MODULES
INDUSTRIAL VACUUM SYSTEMS





OFFICINE MECCANICHE GALLARATESI

ECODOX: API675 PLUNGER, METERING PUMPS



Simplex pump



Duplex pump



Pump with automatic pneumatic capacity control



Triplex pump with manual, pneumatic, electric stroke adjustment



Pump with integral inverter



Pump with electric capacity control



Quadruplex pump



Triplex pump

DOXA: API675 PLUNGER & DOUBLE DIAPHRAGM PUMPS

Metering accuracy > 1% within the normal operating range of 10÷100% of capacity

DOXA.L, max. allowable thrust: 2000N (design 2500N)
DOXA.M, max. allowable thrust: 7000N (design 9000N)



DOXA.L pump - DD type



duplex DOXA.L pump - DS type with electric actuator



DOXA.M pump - plunger type with electric actuator



DOXA.L pump - DS type, with pneumatic positioner



DOXA.L pump - MM type



DOXA.M pump - plunger type with integral heating jacket

DOXE API675 & API 674 PLUNGER & DOUBLE DIAPHRAGM PUMP

Reciprocating plunger and diaphragm process pumps, designed to solve with the highest reliability and precision any problem associated with metering applications:-
single acting for all models
double acting for piston type pumping heads only.



Piston pump with heating jacket



Triplex group



Multi-heads plunger pumps

Motor-driven Piston Dosing Pumps
The Strong series (0.2 – 8200 l/h up to 400 bar)



Dosing Pumps and Skids



Motor piston diaphragm dosing pumps
6 – 1536 l/h, up to 25 bar



Sensing technology meeting varied needs of all industries

Level Switch - For Powder



Rotary Paddle Type Level Switch



Reversible Paddle Type Level Switch



Small Rotary Paddle Type Level Switch



Swing Type Level Switch



Microwave Type Level Switch

Level Switch - For Powder & Liquid



Compact Vibration Type Level Switch



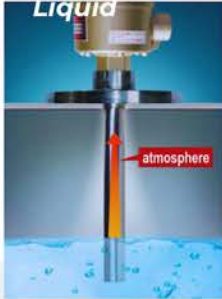
Vibration Type Level Switch



Capacitance Type Level Switch



Level Switch - For Liquid



Diaphragm Type Level Switch

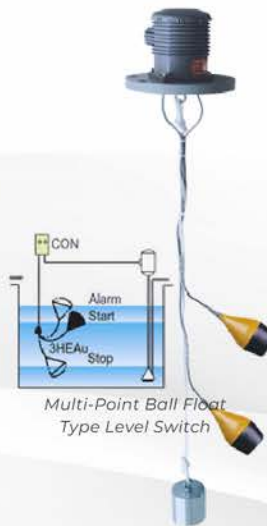


Withstand-pressure
Explosion-proof Structure
d2G4

Horizontal Float Type Level Switch



Vertical Float Type Level Switch



Multi-Point Ball Float Type Level Switch



Electrode Type Level Switch



Level Indicator - Contact



Capacitance Type Level Meter



Sounding Bob Type Level Meter



Float Type Level Indicator



Intrinsically Safe
Exia II CT5



Magnetostrictive type continuous level meter



Flow Sensor



Microwave Type Flow Sensor



Particle Type Flow Sensor

Conveyor Peripherals



Emergency Pull-wire Switch



Flow Switch



Pig Stop



Pig Launcher/Receiver



3-Way Distribution Pigging Valve



T-Valve Pigging System



Middle Station

General data of the piping system

- Ball Valve and Piping line is integrated, Material: 304SS
- Electric supply: 240VDC
- Protection: IP65
- Design Temp.: -30oC ~ 120oC
- Pip Speed: 1.0-1.5 m/s (Average)
- Air supply Pre.: 5-8 bar
- Accessories in actuator: Air control valve, Pre.reducer, Pre.Gauge, Check valve

Main Features

- VP Pigging system has automatic/Manual function.
- The pigging station status is monitored by PLC.
- Product valve on/off
- Air line valves status.
- Pig location monitor



Pig Catcher



Demister

A Demister is designed to capture any liquid mist that escaped from the system pigging air into the atmosphere. This avoids air pollution in the facility.



Pigging/DDU/Manifold Test Area
VP Pigging Demo (Site Show)



SIAMRAJ SALES & SERVICE

Commissioning • Training at Site • Preventive Maintenance
• Pumps and Systems Analysis • Service

Engineered Pumps & Systems



“WE ARE
PUMP
SPECIALIST”



บริษัท สยามราช จำกัด (มหาชน)
SIAMRAJ PUBLIC COMPANY LIMITED

LET US BE A PART ... OF YOUR SUCCESS

บริษัท สยามราช จำกัด (มหาชน)

289/9 หมู่ 10 ถ.รางสายเก่า ต.สำโรง อ.พระประแดง
จ.สมุทรปราการ 10130 ประเทศไทย
โทรศัพท์ (662) 7435010-25
โทรสาร (662) 743 5007-8

SIAMRAJ PUBLIC COMPANY LIMITED

289/9 MOO 10, OLD RAILWAY ROAD,
SAMRONG, PHRAPRADAENG, SAMUTPRAKARN
10130, THAILAND
TEL : (662) 743 5010-25 FAX : (662) 743 5007-8

