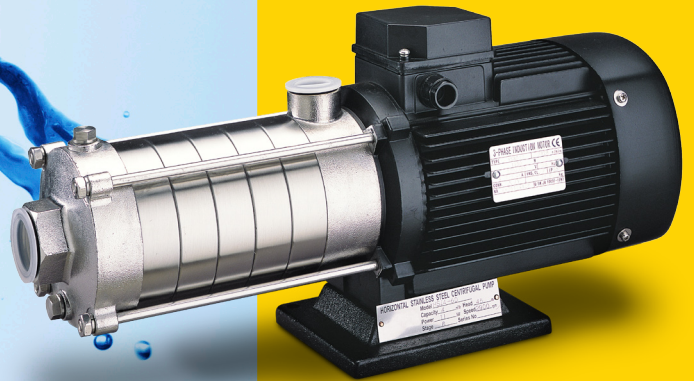
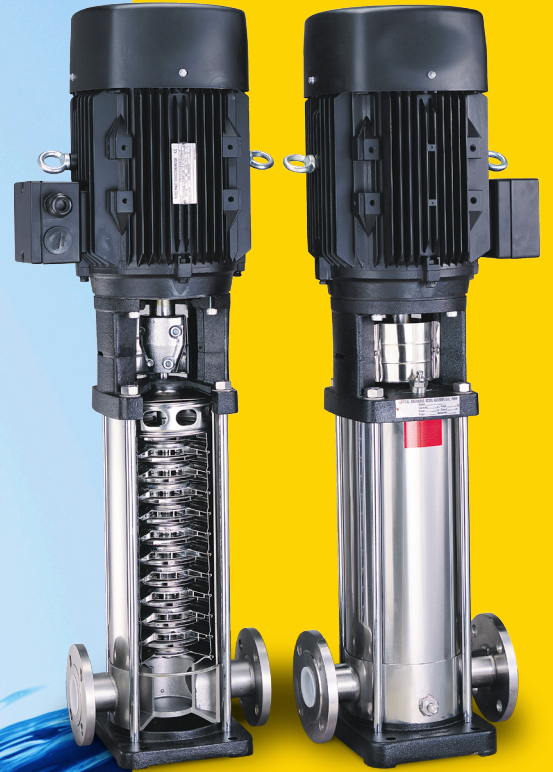




TRUO™



A New Vision
for Quality Pumps

General
Catalog



TRUOTM
2





02KS, 02KY series (BB3 design)

Multistage stainless steel centrifugal pump

Applications

Oilfields and terminals
 Crude oil and oil product pipelines
 Water pipelines
 Water injection
 Fluid injection
 High pressure services
 Boiler feed
 Mining

Performance Range

Capacity:	Q	up to 6000 m ³ /h up to 26,400 gpm
Head:	H	up to 880 m up to 2,930 feet
Temperature:	T	up to 200° C up to 380° F
Speed:	n	2900/1450/980 rpm 3500/1750/1180 rpm

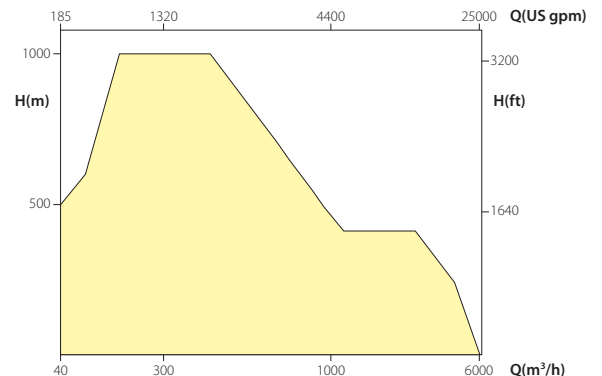
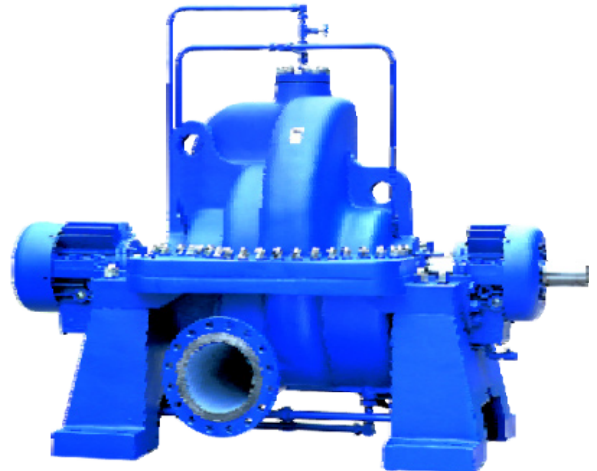
Standard Material

Flanges drilled to ISO, DIN and ANSI standards with pressure rating to 2500 PSI. Available in ductile cast iron, cast steel, CF8M, CF8, Duplex or Super Duplex.

Description

Horizontal axially split casing, double volute multistage design. Impellers arranged in opposed groups, 02KS is a double suction two stage pump for larger capacity. 02KY is a multistage single suction impeller pump for higher head, first stage double suction impeller design for low NPSH required.

Removable wear rings protect the casing and impeller. The impellers are statically and dynamically balanced. The pumps comply with the latest API 610 specifications in all technical details. Special anti-friction bearings on both sides or sleeve bearings with ring or forced-feed lubrication (axial bearing as segmental thrust bearing).



OBB1 series (BB1 design)

Single stage double suction split case pump



Applications

Cooling water
 Water supply and distribution
 Fire protection
 Metal manufacturing
 Irrigation
 General industrial services
 Water treatment
 Wastewater treatment
 Mining

Performance Range

Capacity:	Q	up to 20000 m ³ /h up to 88,000 gpm
Head:	H	up to 200 m up to 600 feet
Temperature:	T	up to 105° C up to 200° F
Speed:	n	2900/1450/980/740/580 rpm 3500/1750/1180/890/710 rpm

Standard Material

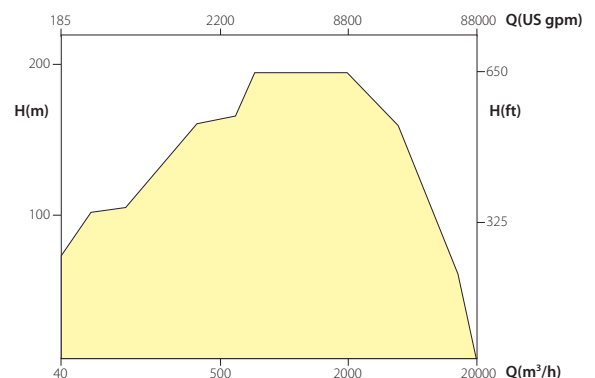
Casing:	Cast iron	Impeller:	Cast iron
	Ductile cast iron		Bronze
	Cast steel		Brass
	Stainless steel		Stainless Steel
Shaft:	C-Steel	Wear ring:	Cast iron
			Brass
Optional materials:	CF8M, Duplex, Super Duplex		
Flanges drilled to ISO, DIN and ANSI standards.			
Maximum 600 LB flanges.			

Description

The casing is axially split, which permits removal of the complete rotor without moving either piping or motor. Pumps generating high heads have double volutes to reduce radial forces. Replaceable wear rings protect the casing at the impeller running clearances. Flange drilled to ISO, DIN, BS or ANSI.

The close double suction impeller gives practically zero axial forces. Each impeller is statically and dynamically balanced according to ISO 1940.

Vertical or horizontal, soft packing or mechanical seal, grease or oil lubrication bearing on request.



O2D, O2DG series

Multistage stainless steel centrifugal pump

Applications

Water plant
Pressure boosting
Fire fighting
Sprinkling and irrigation
General industrial services
Mines
Boiler feed
Water injection
Steel services

Performance Range

Capacity:	Q	up to 800 m ³ /h up to 3,000 gpm
Head:	H	up to 600 m up to 1,800 feet
Temperature:	T	up to 120° C up to 230° F
Speed:	n	2900/1450 rpm 3500/1750 rpm

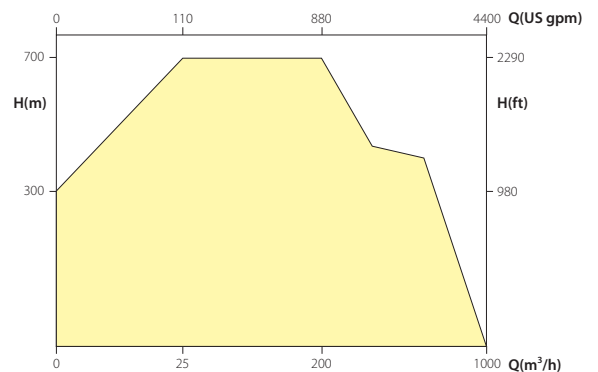
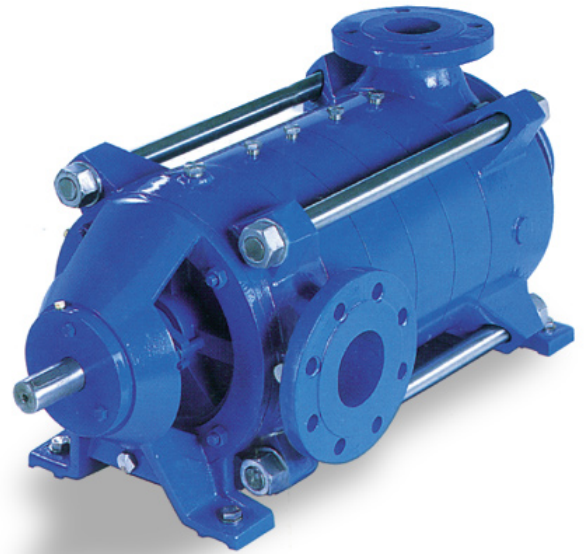
Standard Material

Diffuser: Cast iron
Cast steel
Stainless steel
Shaft: Stainless steel
Impeller: Cast iron
Bronze
Stainless steel
Wear ring: Cast iron
Bronze
Stainless steel

Optional materials: CF8M, Duplex, Super Duplex
Flanges available in ISO, DIN, and ANSI.
Up to 600 LB flanges available.

Description

Horizontal multistage between bearing segmental ring, a balance device to compensate for axial thrust, grease lubrication bearings are standard. Mechanical seal or soft packing. O2D series for liquid temperature lower the 80° C, O2DG series for liquid temperatures higher than 80° C.



02PA series

Single stage end suction centrifugal pump

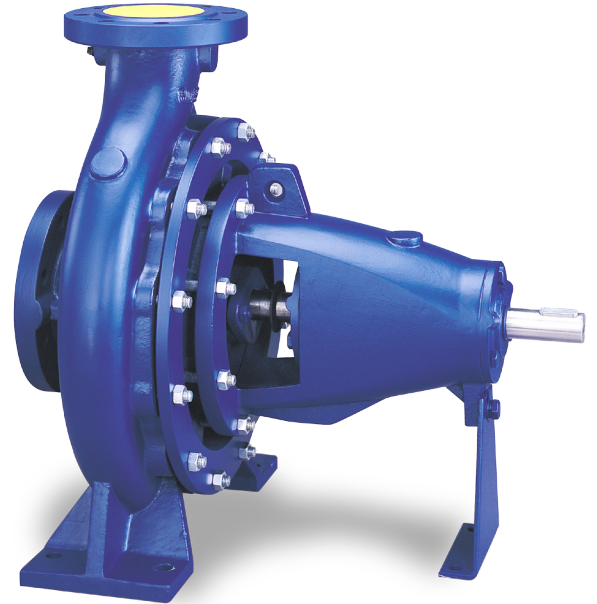


Applications

Cooling water
Water supply and distribution
Fire protection
Drainage
Irrigation
General industrial services
Pulp and paper
Textile
Steel services
Pharmaceutical
Chemical

Performance Range

Capacity:	Q	up to 900 m ³ /h up to 4,000 gpm
Head:	H	up to 140 m up to 460 feet
Temperature:	T	up to 105° C up to 200° F
Speed:	n	2900/1450 rpm 3500/1750 rpm



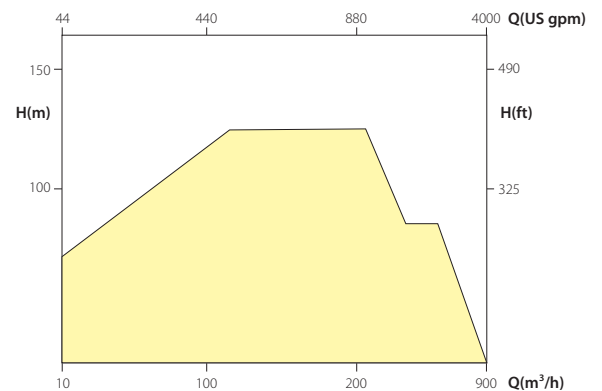
Standard Material

Casing:	Cast iron	Impeller:	Cast iron
	Ductile cast iron		Bronze
	Cast steel		Brass
	Stainless steel		Stainless steel
Shaft:	Stainless steel	Wear ring:	Cast iron
			Stainless steel

Description

Pump designed to DIN 24255 specifications. Heavy duty casing designed for 16bar operating pressure, suction with inlet vane to reduce NPSH.

Back pull-out design for fast and easy maintenance. Replaceable wear ring to assure optimum efficiency. Removeable and adjustable support foot provides added rigidity and ease of maintenance. Stainless steel shaft sleeve prevents shaft damage and reduces maintenance cost. Mechanical seal or soft packing on request.



02AZ series

Close coupled end suction centrifugal pump

Applications

Cooling water
Water supply and distribution
Fire protection
Drainage
Irrigation
General industrial services
Water and waste water treatment
Mining

Performance Range

Capacity:	Q	up to 300 m ³ /h up to 1,200 gpm
Head:	H	up to 100 m up to 330 feet
Temperature:	T	up to 105° C up to 200° F
Speed:	n	2900/1450 rpm 3500/1750 rpm
Power:	P	up to 37 kw up to 50 HP

Standard Material

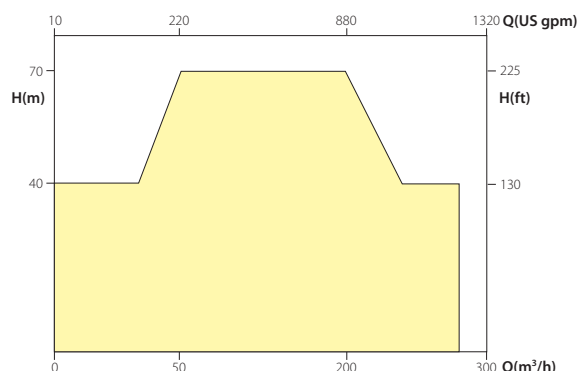
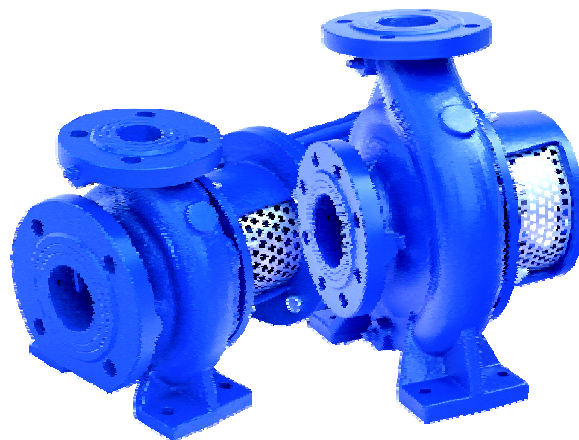
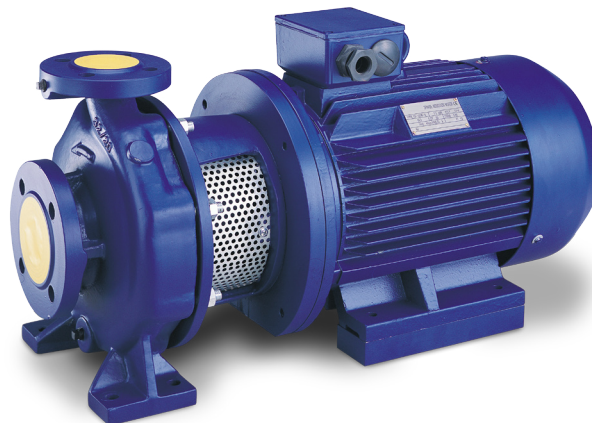
Casing:	Cast iron Ductile cast iron Cast steel Stainless steel
Shaft:	Stainless steel
Impeller:	Cast iron Bronze Brass Stainless steel
Wear ring:	Cast iron

Description

Pump design according to DIN 24255. Heavy duty casing is designed for 16bar operating pressure, suction with inlet vane to reduce the NPSH.

Back pull-out design allows for fast and easy maintenance. Replaceable wear ring to assure optimum efficiency. Mechanical seal according to DIN 24960 standard.

Standard TEFC IEC B35 motor driven, single phase up to 2.2 kw.



Applications

Cooling water system
 Municipal water supply and distribution
 Fire protection
 Domestic water supply
 Irrigation and dewatering
 General industrial services
 Washing plants
 Boiler feed and condensate system

Performance Range

Capacity:	Q	up to 100 m ³ /h up to 480 gpm
Head:	H	up to 300 m up to 900 feet
Temperature:	T	up to 120° C up to 230° F
Speed:	n	2900 rpm or 3500 rpm
Power:	P	up to 45 kw up to 60 HP

Standard Material

All parts coming in contact with liquid made of 304 stainless steel, 316 stainless steel on request. Suction and discharge flange can be made of cast iron on request. Flanges available in ISO, DIN and ANSI.

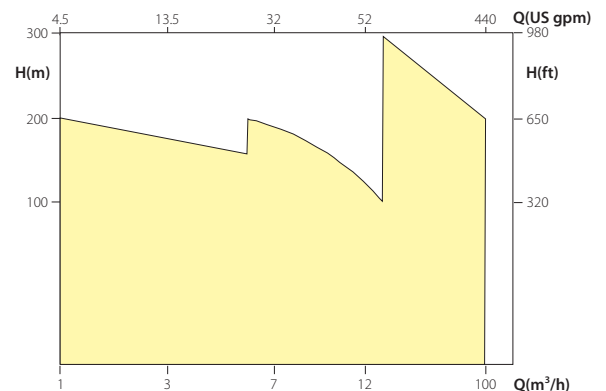
Description

Close coupled vertical multistage pump with all stainless steel parts which can be driven by a standard TEFC motor, discharge and suction in the same line.

Aluminum casing motor up to 7.5 kw, single phase motor up to 2.2 kw. Class F and IP55 are standard supply.

Standard supply for liquid temperature up to 90° C, high temperature pump available on request.

Mechanical seal is Tungsten Carbide/Graphite.



02HM, 02HS, 02SI series

Horizontal multistage stainless steel centrifugal pump

Applications

Cooling water system
Agriculture
Domestic water supply
Pesticide dosing system
General industrial services
Washing
Environmental protection

Performance Range

Capacity:	Q	up to 20 m ³ /h up to 80 gpm
Head:	H	up to 50 m up to 150 feet
Temperature:	T	up to 120° C up to 230° F
Speed:	n	2900 rpm or 3500 rpm
Power:	P	up to 3 kw up to 4 HP

Standard Material

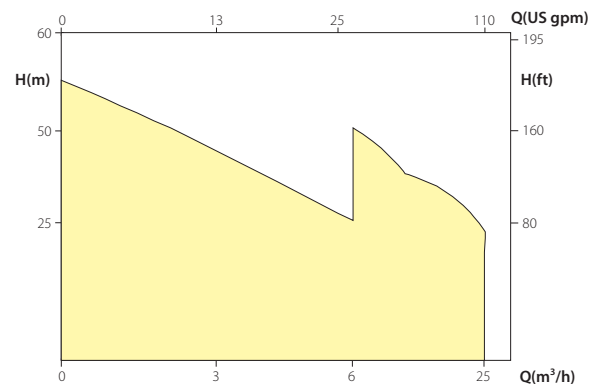
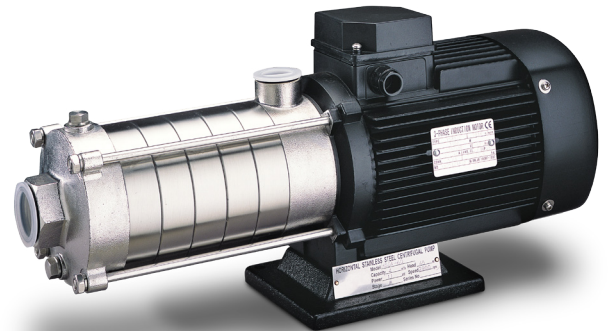
All parts coming in contact with liquid made of 304 stainless steel, 316 stainless steel on request. Suction and discharge flange can be made of cast iron on request.

Description

Horizontal multistage monobloc design with stainless steel stamping welding impeller and diffuser, choice of three different types available.

Single phase motor up to 2.2 kw. Aluminum casing motor Class F and IP55 are standard supply.

Standard supply for liquid temperature up to 90° C, high temperature pump available on request.



Applications

Cooling water system
Water supply and distribution
Fire protection
Drainage
Medical industry
General industrial services

Performance Range

Capacity: Q	up to 60 m ³ /h up to 250 gpm
Head: H	up to 60 m up to 180 feet
Temperature: T	up to 80° C up to 150° F
Speed: n	2900/1450 rpm 3500/1750 rpm
Power: P	up to 15 kw up to 20 HP

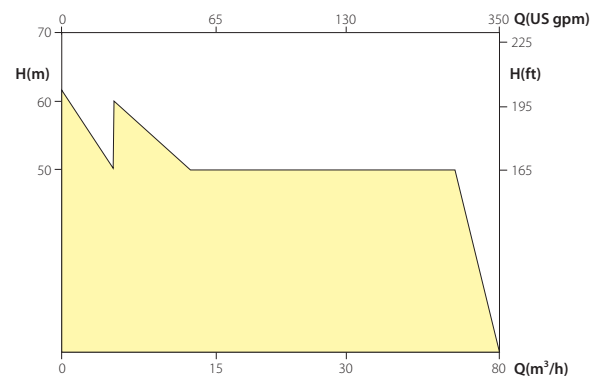
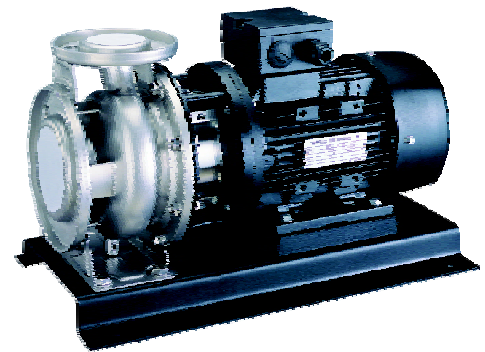


Standard Material

All parts coming in contact with liquid made of 304 stainless steel, 316 stainless steel on request.
Mechanical seal is standard supply. Flanges available in ISO, DIN and ANSI.

Description

Pump designed according to DIN 24255. Watted parts made of stainless steel for high efficiency.
Back pull-out design allows for fast and easy maintenance.
Standard TEFC IEC B35 motor driven, single phase up to 2.2 kw.
Mechanical seal according to DIN 24960 standard.
Maximum working pressure 10bar.



02MS series

Horizontal single stage monobloc centrifugal pump

Applications

Cooling water system
Domestic water supply
Sprinkler systems
Agriculture
Boosting and circulation systems
Water treatment

Performance Range

Flow rate: up to 28 m³/h
up to 123 gpm
Head: up to 40 m
up to 131 feet
Max operating pressure: 81 m, 267 feet
Max suction pressure: 41 m, 133 feet
Water temperature: -100 °C to 85 °C
(110 °C on request)
-148 ° F to 185 ° F
(230 ° F on request)
Max ambient temperature: 50 °C, 122 ° F

Standard Material

All parts coming in contact with liquid made of 304 stainless steel, 316 stainless steel on request. Mechanical seal is standard supply.

Description

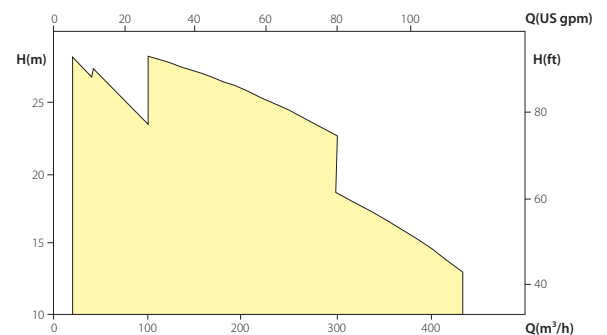
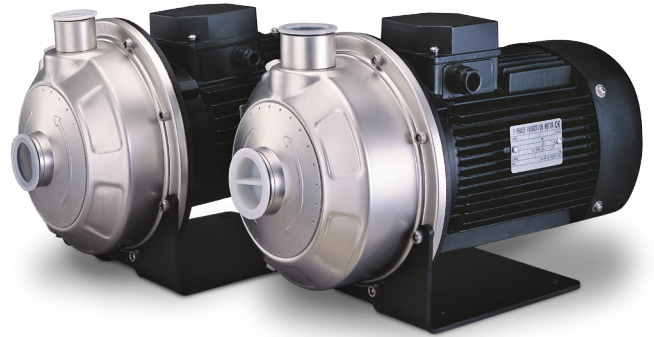
Hydraulic parts

All stainless steel horizontal single stage monobloc non self-priming pump with axial suction. Vertical discharge threaded connections (NPT on request).

Electric motor

Pump is coupled with a totally enclosed, fan-cooled squirrel-cage aluminum casing motor with built-in thermal overload units.

Enclosure class: IP55
Speed: 2900 or 3500 rpm
Insulation class: F
Standard voltage: 1x220-240V, 50hz or 60hz
3x220-240/380-415V, 50hz or 60hz
Sound level: <-65dB(A)
NEMA motor on request



02IL series (OH3 design)

Close coupled vertical in-line centrifugal pump



Applications

Cooling water system
 Water supply and distribution
 Fire protection
 Drainage
 Irrigation
 General industrial services
 Boosting

Performance Range

Capacity:	Q	up to 200 m ³ /h up to 960 gpm
Head:	H	up to 80 m up to 250 feet
Temperature:	T	up to 120° C up to 230° F
Speed:	n	2900/1450 rpm 3500/1750 rpm
Power:	P	up to 30 kw up to 40 HP

Standard Material

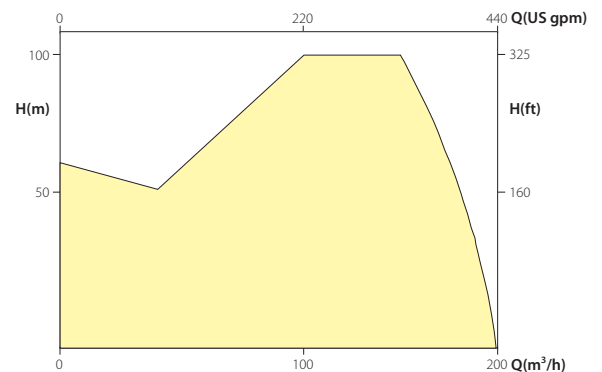
Casing: Cast iron
 Stainless steel
 Shaft: Stainless steel
 Impeller: Bronze
 Stainless steel
 Wear ring: Bronze
 Flanges available in ISO, DIN and ANSI.

Description

Single stage close-coupled in-line type, driven by a TEFC standard motor according to IEC & DIN standards, top pull-out design allows for fast and easy maintenance.

Mechanical seal according to DIN 24960, self-lubricating, unbalance type, Carbon/Silicon Carbide is standard supply. Cast iron parts receive an electrophoresis painting treatment.

Flange according to ISO 7005-2/DIN 250 1 PN 16.



02SB series

Stainless steel submersible borehole pump

Applications

Water supply
Irrigation
Mine dewatering
Sprinkling and irrigation

Performance Range

Capacity:	Q	up to 50 m ³ /h up to 250 gpm
Head:	H	up to 300 m up to 1000 feet
Temperature:	T	up to 40° C up to 80° F
Speed:	n	2900 rpm 3500 rpm

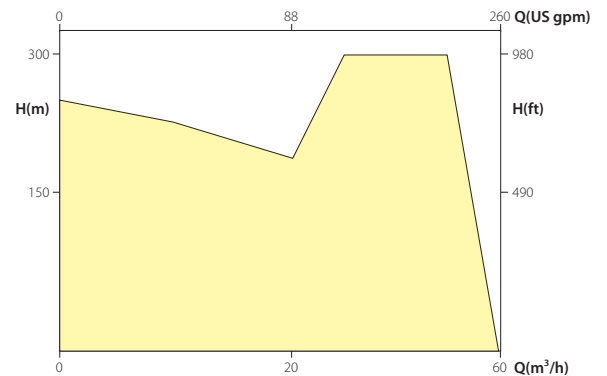
Standard Material

All parts made of stainless steel.

Description

Vertical multistage pump with water-filled or oil-filled NEMA standard rewinding type submersible motor for 4" and 6" deep well. Non-return valve with each pump, star-delta motor on request. Centrifugal/mixed flow design for optimum hydraulic selection.

Dry running protection system on request. Impeller and diffuser made of stamped and welded 304 stainless steel.



Applications

Water supply
Irrigation
Mine dewatering
Sprinkling and irrigation
Sea water pumping

Performance Range

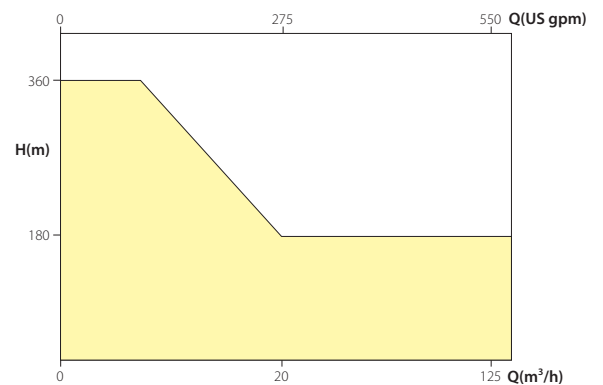
Capacity:	Q	up to 125 m ³ /h up to 625 gpm
Head:	H	up to 300 m up to 1000 feet
Temperature:	T	up to 40° C up to 80° F
Speed:	n	2900 rpm 3500 rpm

Standard Material

All wet parts made of precision casted 304 or 316 stainless steel.

Description

Vertical multistage pump with oil-filled or water-filled NEMA standard motor. Non-return valve with each pump. The strength and toughness of stainless steel casting provides excellent wear and tear resistance against sand.



02QJ series

Submersible borehole pump

Applications

Water supply
Irrigation
Mine dewatering
Sprinkling and irrigation

Performance Range

Capacity:	Q	up to 1000 m ³ /h up to 5000 gpm
Head:	H	up to 400 m up to 1200 feet
Temperature:	T	up to 40° C up to 80° F
Speed:	n	2900/1450 rpm 3500/1750 rpm

Standard Material

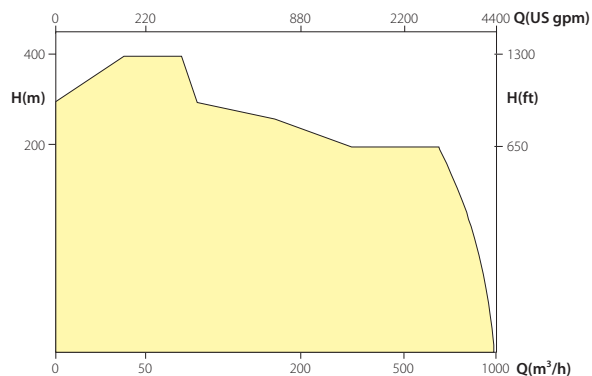
Diffuser:	Cast iron Stainless steel Plastic
Shaft:	Stainless steel
Impeller:	Cast iron Bronze Stainless steel Plastic
Wear ring:	Cast iron Bronze Stainless steel

Description

Vertical multistage pump with water-filled or oil-filled NEMA standard submersible rewinding motor for 4" to 20" deep well. Non-return valve with each pump, star-delta motor on request. Centrifugal/mixed/axial flow design for optimum hydraulic selection.

Dry running protection system on request. 4" pump made of plastic impeller and diffuser with oil-filled motor, 6" and above motor are water-filled design.

6" to 20" casing stainless steel pumps are available on request.



Applications

Water supply
 Deep well irrigation
 Mine dewatering
 Sprinkling and irrigation
 Industrial wet-pit sumps
 River/sea water circulation
 Fire-fighting
 Water treatment
 Waste water treatment

Performance Range

Capacity:	Q	up to 40000 m ³ /h up to 176000 gpm
Head:	H	up to 200 m up to 600 feet
Temperature:	T	up to 40° C up to 80° F
Speed:	n	2900/1450/980 rpm 3500/1750/1180 rpm

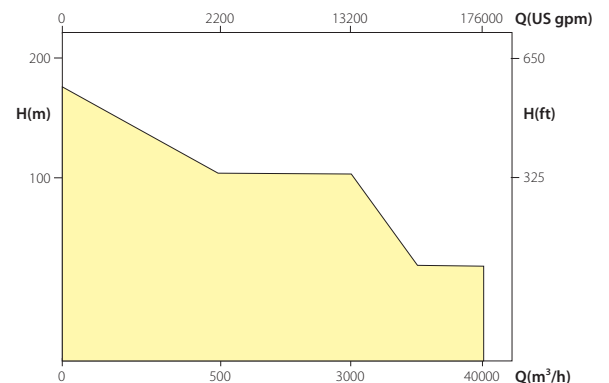
Standard Material

Bowl:	Cast iron Stainless steel
Shaft:	Stainless steel
Impeller:	Cast iron Bronze Stainless steel
Discharge head:	Cast iron Carbon steel

Flanges available in ISO, DIN and ANSI.

Description

Vertical single stage or multistage pump with mixed or axial flow impeller design, broad hydraulic coverage provides best selection to meet specific operating conditions. Fabricated or cast iron, surface or underground discharge head, shaft and bearing combinations promote long life with options of open or enclosed line shaft construction. Options for VHS or NEMA standard motor drive. VSS motor or diesel engine through right angle gear box.



OTCA, OTCE, OTCF series (OH2 design)

Heavy duty petrochemical process pumps

Applications

Refineries
Coal processing
Petrochemical industry
Paper and pulp industry
Sea water
Air conditioning
Offshore industry
Sugar industry

Performance Range

Size: 25mm to 500mm
1" to 20"

Capacity: up to 3600 m³/h
up to 15,500 gpm

Head: up to 250m
up to 820 feet

Working pressure: up to 7.5MPa

Operating temperature: -80°C up to +425°C
-112°F up to +797°F

Standard Material

Ductile iron, cast steel, CF8, CF8M, Duplex, Super Duplex
Flanges available in ISO, DIN and ANSI.
600 LB flanges available.

Description

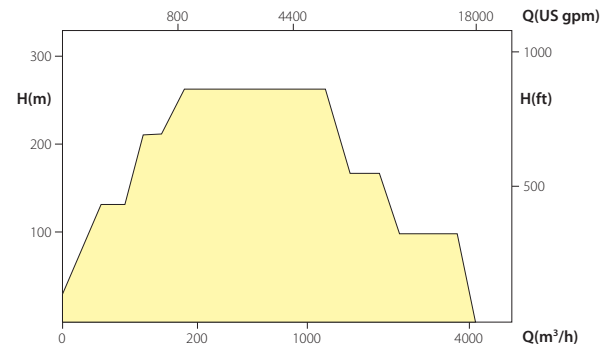
Single stage, horizontal radially split volute casing pump with feet below and single radial impeller, end suction type. Heavy duty fan cooled bearing housing, heavy duty and non-grout baseplates for PAU and offshore applications. Shaft sealing by packing or mechanical seals of any design (single or double working), connections for cooling, flushing or sealing liquid.

Standard pipework according to API 682 plans. Cooling system for high temperature pumping. Flanges according to DIN or ANSI.

OTCA working pressure up to 2.5MPa, can be supplied with open impeller, (Code OH1).

OTCE working pressure up to 5.0MPa, can be supplied with open impeller, (Code OH2).

OTCF working pressure up to 7.5MPa, (Code OH2).



02VI series (OH3 design)

Vertical in-line centrifugal pump



Applications

Cooling water
Water supply and distribution
Fire protection
Drainage
Irrigation
General industrial services
Boosting
Oil and chemical industry

Performance Range

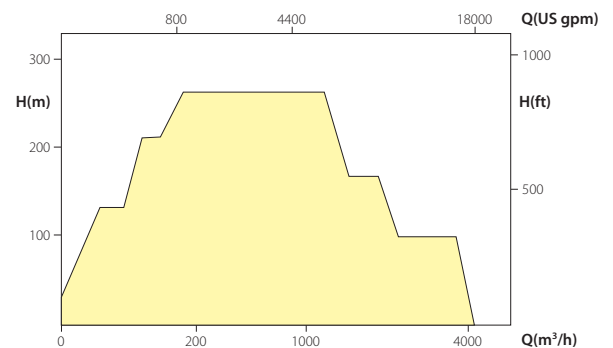
Size: 25mm up to 500mm
1" to 20"
Capacity: up to 3600 m³/h
up to 15,500 gpm
Head: up to 250m
up to 820 feet
Working pressure: up to 7.5MPa
Operating temperature: 0°C up to 150°C
32°F up to 302°F

Standard Material

Ductile iron, cast steel, CF8, CF8M, Duplex, Super Duplex
Flanges available in ISO, DIN and ANSI.

Description

Single stage close coupled in-line type, driven by a TEFC standard motor according to IEC and DIN standards. Top pull-out design for fast and easy maintenance. Mechanical seal according to API 610 standards. Flush system API 682.



TRU20 Hydro 400 series

Variable speed booster pump system

Applications

Residential building Social facilities
Commercial building Industrial water supply

Performance Range

Capacity:	Q	up to 500 m ³ /h up to 2500 gpm
Head:	H	up to 200 m up to 1000 feet
Temperature:	T	up to 40° C up to 80° F
Speed:	n	2900 rpm 3500 rpm

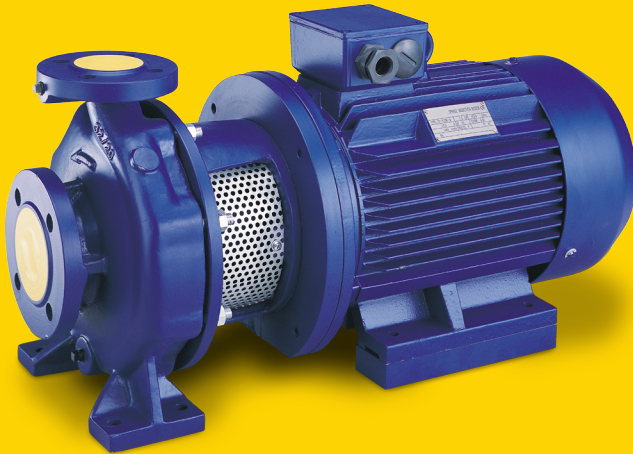
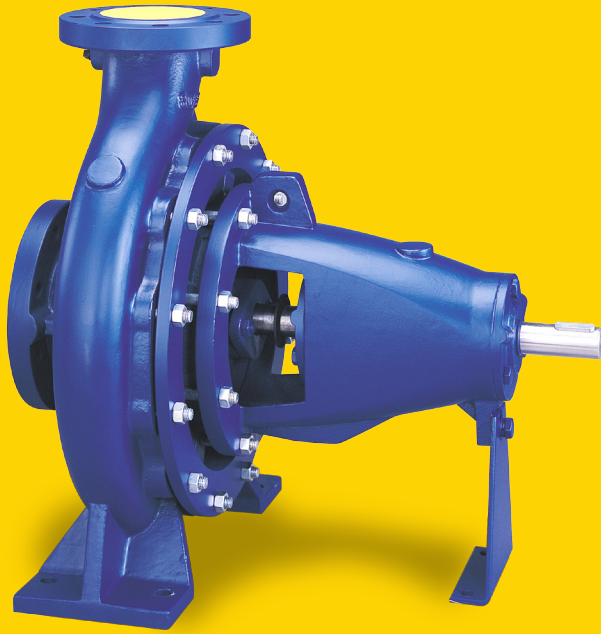
Standard Material

All wet parts are made of 304 or 316 stainless steel.

Description

The system includes pumps (2 to 5 pumps), booster control panel with variable speed PID controller, pressure gauge, valve, pipe, water tank and base.





TRUO™

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