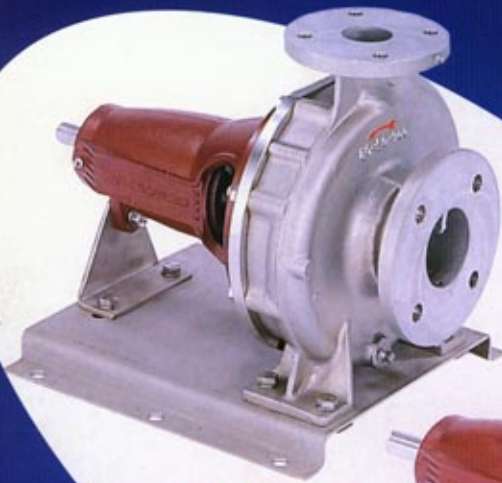


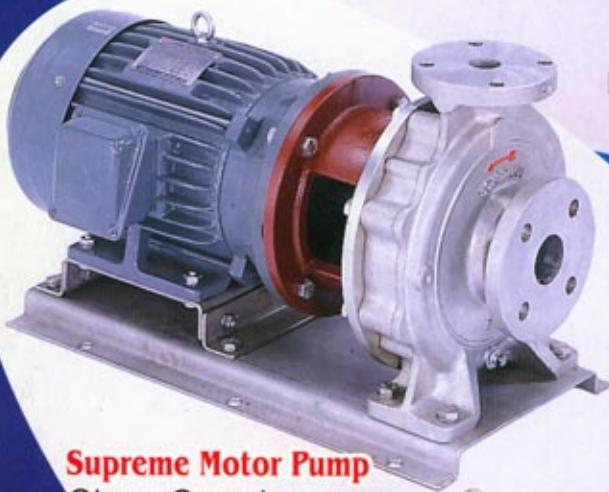


Stainless Steel end suction Centrifugal Pump

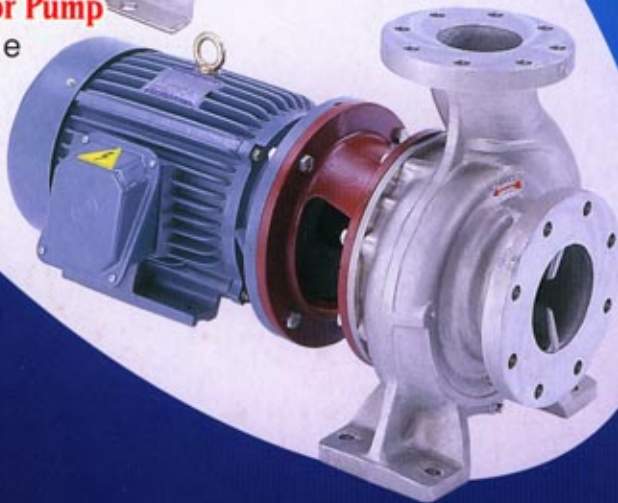
ISO 2858-DIN 24256 Standard



ISO 2858 PUMP
Bare Shaft



Supreme Motor Pump
Close Couple



Outstanding Features

Superior Hydraulic Design
Easy Dismantling
Stainless Steel Wet parts
Acid & Alkali Resisting

Designed for

Liquid Transfer
Water Supply
Building Service
Environment Engineering
Industrial Application
Vessel Seawater Circulation

Limitation

Flow: 150m³/hr
Head: 120m max.
Pumped Liquid: -15°C to +180°C
Operating Pressure: 16 bar max





Stainless Steel Centrifugal Pump

Prostain ISO Pump and Supreme Motor Pump are designed in accordance with ISO 2858- DIN 24256 Standard. All wet parts, including volute casing, shaft, impeller, are made of Stainless Steel for long time endurance, acid-alkali resisting, and rust free liquid transfer.

Applications

Water supply

Water supply & distribution; pressure boosting in waterworks and substations, sprinkler, drip and flood irrigation.

Industry

Water supply and circulation in cooling and heating systems. Pumping of cooling brine and cooling agents in equipment and mechanical engineering. Paper and sugar industries, iron and steel production, condensate transfer and boiler fill.

Washing and cleaning installations, water-curtain spray-paint bays, emptying and filling of tanks and reservoirs, pumping of seawater and brackish water, moistening in dedusting plants.

Building services

Circulation of liquids, heating and cooling water in central heating, ventilation and air-conditioning systems. Fire fighting service. Water circulation for swimming pools, general mechanical services.

Environment Engineering

Filter installations, water treatment systems, dedusting plants, recooling systems, and installations for soil sanitation and infiltration water treatment.

Vessels

Circulation of cooling system for fish catch, water supply and general mechanical service.

Pump Features

Prostain ISO Pump and Supreme motor pump have superior hydraulic design and incorporate high technology manufacturing methods, which enable significantly higher efficiencies for less power consumption and minimum maintenance. All these features guarantee Prostain pump users continuing economy in all applications.

Prostain ISO Pump and Supreme Pump are single stage, non self-priming, centrifugal volute pumps, conforming to ISO 2858 Standard.

Operating Conditions

| | |
|---------------------|-------------------------|
| Flow: | Max. 150 m ³ |
| Head: | Max. 120 m. |
| Liquid Temperature: | -15°C to +180°C |
| Operating Pressure: | max. 16 bar. |

Designed for non-aggressive, non-explosive thin and clean liquids without solid particles or fibers.

International Standard

Conforming to ISO 2858 Standard means dimensional interchangeability with other makes of pumps, manufactured to the same international standard. Prostain pumps exceed the ISO performance standard because of hydraulic design superiority. Due to the pump design, the backplate and impeller can be easily dismantled from the drive end without removing the volute casing from the pipework. As standard of Prostain ISO Pump, a support foot is fitted to the bearing housing.

Stainless Steel Centrifugal Pump

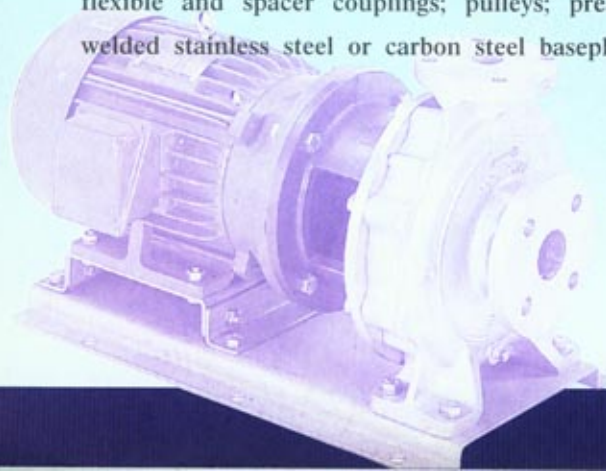


Standard Features

Prostain pumps include taper mounted and keyed impeller for easy removal from shaft during servicing and positive locking during operation; heavy duty shaft with large capacity impeller and bearing for safe operation at high speed. As type 304 stainless steel volute for added safety; reusable O ring body seal; minimum number of parts for full range (only two shaft modules) reduces spare parts stocking; double curvature impeller vanes produce highly efficient suction performance. Type 316 stainless steel shaft; ductile iron shaft clamp; type 304 stainless steel volute with integral suction and discharge flanges and mounting feet; pressure rated to 1200 kPa (120 meter head); SS 304 impeller, backplate, and impeller nut; cast iron housing with sealed for life grease packed bearings; lip type shaft seals to protect bearings; single mechanical seal

Optional Features

Type 316 stainless steel impeller, volute, and backplate; optional mechanical seal; works certified and witnessed tests for guaranteed performance; flexible and spacer couplings; pulleys; pressed/welded stainless steel or carbon steel baseplates.



Motor

The Prostain standard motor is a totally enclosed, fan-cooled squirrel-cage motor that dimensionally complies with IEC and DIN. The motor pump uses standard off the shelf foot mounted and flange electric motors which require no modification and are therefore no more difficulty to purchase than motors used on long coupled units. Foot mounted on the motor and on the pump body combine to provide exceptionally rigid mounting for the complete unit.

Enclosure Class: IP 54

Insulation Class: class F from 15 kw; Class B

Ambient Temperature: According to IEC

50 HZ Voltages: 3x220-240/380-415V

60 HZ Voltages: 3x200-230/380-460V

Optional Base Assembly

Baseplate Kit

A baseplate kit is available to allow on-site basing up of pump and motor, sizes to suit all models and motors.

The kit includes baseplate, flexile or spacer coupling, coupling guard, all fasteners and shims required for on-site alignment.

Couplings

Flexible and spacer coupling:

A coupling with spacer enables dismantling of the complete discharge cover including shaft seal and impeller without removing the motor or pump body from the baseplate.

Maximum Operating Temperature

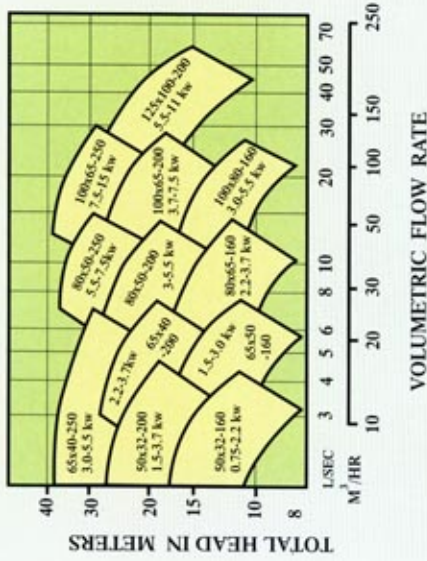
Maximum pumped liquid temperature for the standard ISO Line pump is 80°C using standard seals. Liquids up to 180°C can be handled using special seals.

ISO 2858-DIN 24256 Standard

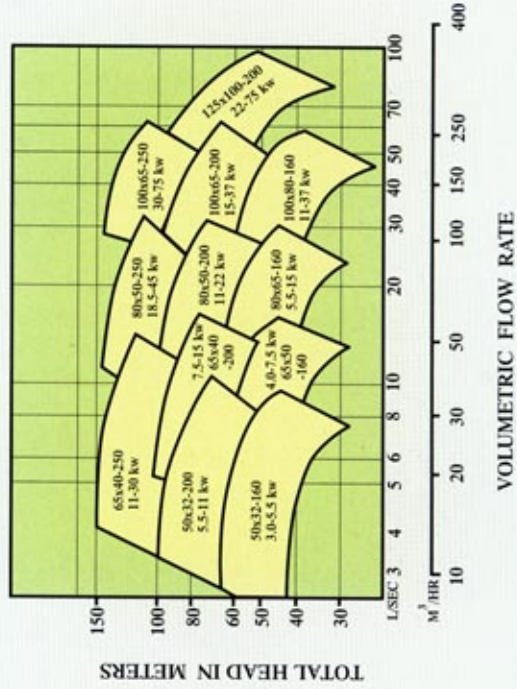
Pump Selection Chart

60Hz 2/4 Poles Motor

1750 R.P.M (Nominal Speed)

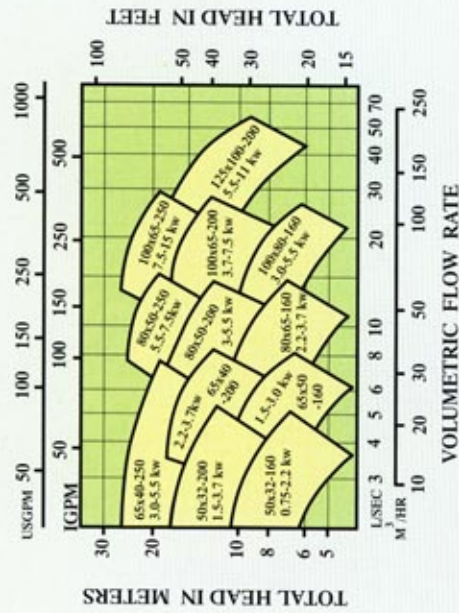


3500 R.P.M (Nominal Speed)

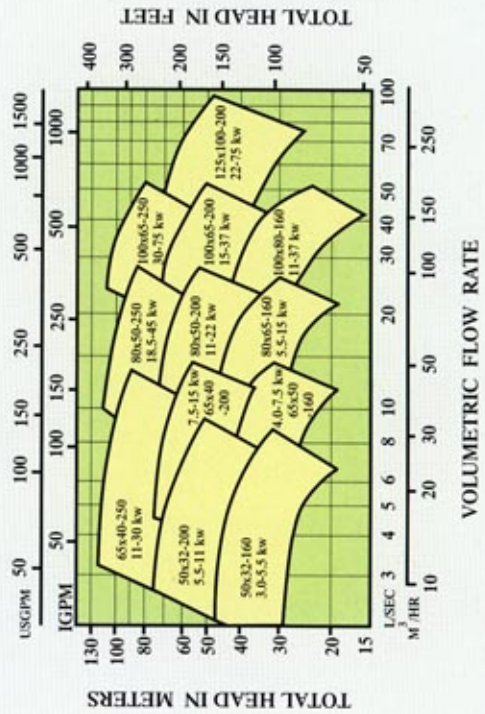


50Hz 2/4 Poles Motor

1450 R.P.M (Nominal Speed)



2900 R.P.M (Nominal Speed)



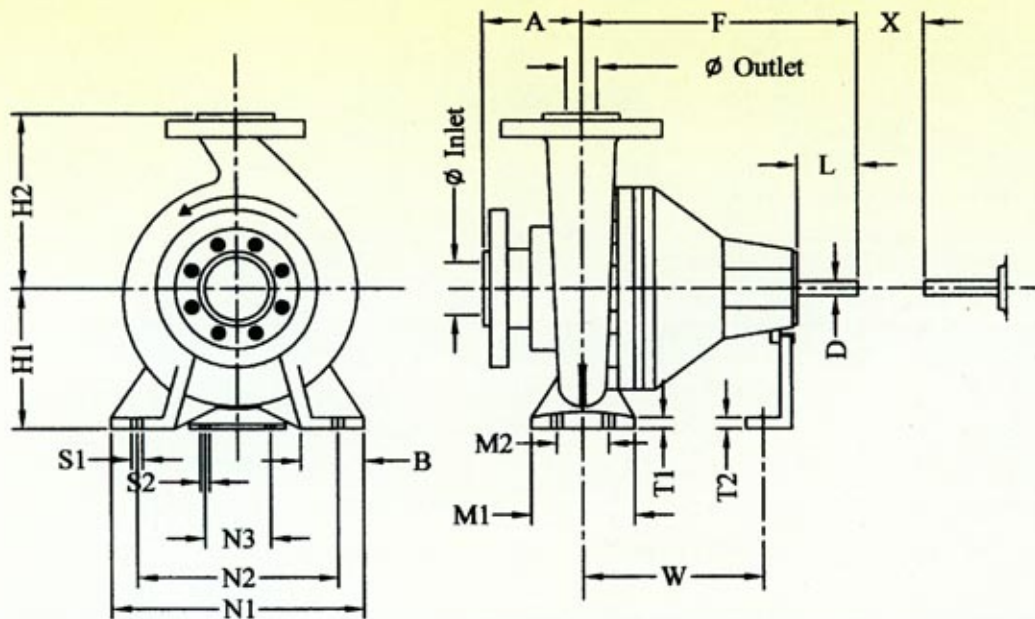
Data for clean, cold water only.

Data for clean, cold water only.

Stainless Steel Centrifugal Pump



ISO 2858 Standard Pump (Bare-Shaft)



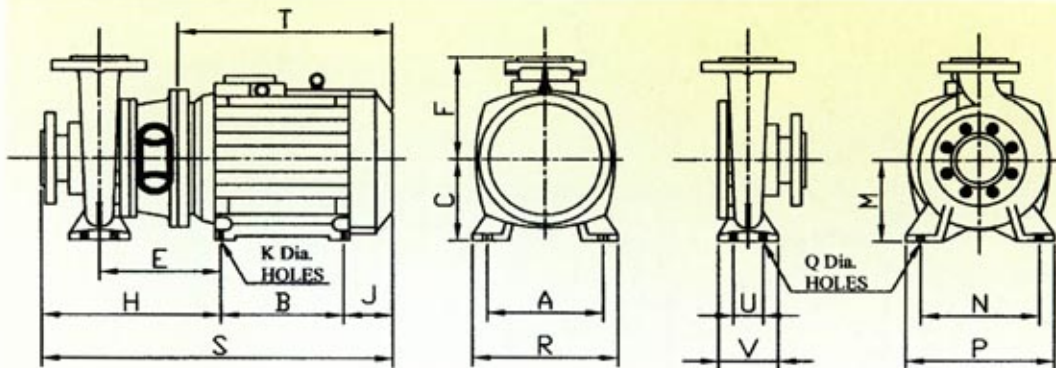
| PUMP SIZE | | | SHAFT NO. | PUMP DIMENSIONS | | | | MOUNTING DIMENSIONS | | | | | | | | | BOLT HOLES | | SHAFT END | | GAP X | WEIGHT kg |
|-----------|-----|-----|-----------|-----------------|-----|-----|-----|---------------------|-----|-----|-----|-----|-----|----|----|-----|------------|-----|-----------|----|-------|-----------|
| IN | OUT | IMP | | A | F | H1 | H2 | B | M1 | M2 | N1 | N2 | N3 | T1 | T2 | W | S1 | S2 | D | L | | |
| 50 | 32 | 160 | 1 | 80 | 385 | 132 | 160 | 50 | 100 | 70 | 240 | 190 | 110 | 10 | 4 | 285 | M12 | M12 | 24 | 50 | 100 | 38 |
| 50 | 32 | 200 | 1 | 80 | 385 | 160 | 180 | 50 | 100 | 70 | 240 | 190 | 110 | 10 | 4 | 285 | M12 | M12 | 24 | 50 | 100 | 44 |
| 65 | 50 | 160 | 1 | 80 | 385 | 132 | 160 | 50 | 100 | 70 | 240 | 190 | 110 | 10 | 4 | 285 | M12 | M12 | 24 | 50 | 100 | 39 |
| 65 | 40 | 200 | 1 | 100 | 385 | 160 | 180 | 50 | 100 | 70 | 265 | 212 | 110 | 10 | 4 | 285 | M12 | M12 | 24 | 50 | 100 | 46 |
| 65 | 40 | 250 | 2 | 100 | 500 | 180 | 225 | 65 | 125 | 95 | 320 | 250 | 110 | 12 | 5 | 370 | M12 | M12 | 32 | 80 | 100 | 65 |
| 80 | 65 | 160 | 1 | 100 | 385 | 160 | 180 | 50 | 100 | 70 | 265 | 212 | 110 | 10 | 4 | 285 | M12 | M12 | 24 | 50 | 100 | 44 |
| 80 | 50 | 200 | 1 | 100 | 385 | 160 | 200 | 50 | 100 | 70 | 265 | 212 | 110 | 10 | 4 | 285 | M12 | M12 | 24 | 50 | 100 | 48 |
| 80 | 50 | 250 | 2 | 125 | 500 | 180 | 225 | 65 | 125 | 95 | 320 | 250 | 110 | 12 | 5 | 370 | M12 | M12 | 32 | 80 | 100 | 70 |
| 100 | 80 | 160 | 2 | 100 | 500 | 160 | 200 | 65 | 125 | 95 | 280 | 212 | 110 | 12 | 5 | 370 | M12 | M12 | 32 | 80 | 100 | 62 |
| 100 | 65 | 200 | 2 | 100 | 500 | 180 | 225 | 65 | 125 | 95 | 320 | 250 | 110 | 12 | 5 | 370 | M12 | M12 | 32 | 80 | 140 | 66 |
| 100 | 65 | 250 | 2 | 125 | 500 | 200 | 225 | 80 | 160 | 120 | 360 | 280 | 110 | 12 | 5 | 370 | M16 | M12 | 32 | 80 | 140 | 78 |
| 125 | 100 | 200 | 2 | 125 | 500 | 200 | 280 | 80 | 160 | 120 | 360 | 280 | 110 | 13 | 5 | 370 | M16 | M12 | 32 | 80 | 140 | 81 |

*Specifications subject to change without prior notice.



Supreme Motor Pump (Close Couple)

"160", "200" and "250" series pump with T.E.F.C. Motors



2900/3500 rpm (Nominal speed)

| PUMP SIZE | kw | MOTOR FRAME | A | B | C | E | F | H | J | K | M | N | P | Q | R | S | T | U | V |
|-------------|------|-------------|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|-----|-----|
| 50x32-160 | 3.0 | 90L | 140 | 125 | 90 | 274 | 160 | 354 | 102 | 10 | 132 | 190 | 240 | 14 | 170 | 581 | 322 | 70 | 100 |
| 65x50-160 | 4.0 | 112M | 190 | 140 | 112 | 298 | 160 | 378 | 122 | 12 | 132 | 190 | 240 | 14 | 224 | 640 | 371 | 70 | 100 |
| 80x65-160 | 5.5 | 132S | 216 | 140 | 132 | 298 | 180 | 398 | 145 | 12 | 160 | 212 | 265 | 14 | 250 | 683 | 374 | 70 | 100 |
| 100x80-160 | 11 | 160M | 254 | 210 | 160 | 355 | 200 | 455 | 180 | 15 | 160 | 212 | 280 | 14 | 300 | 845 | 498 | 95 | 125 |
| 50x32-200 | 5.5 | 132S | 216 | 140 | 132 | 298 | 180 | 378 | 145 | 12 | 160 | 190 | 240 | 14 | 250 | 663 | 374 | 70 | 100 |
| 65x40-200 | 7.5 | 132S | 216 | 140 | 132 | 298 | 180 | 398 | 145 | 12 | 160 | 212 | 265 | 14 | 250 | 683 | 374 | 70 | 100 |
| 80x50-200 | 11 | 160M | 254 | 210 | 160 | 347 | 200 | 447 | 180 | 15 | 160 | 212 | 265 | 14 | 300 | 837 | 498 | 70 | 100 |
| 100x65-200 | 15 | 160M | 254 | 210 | 160 | 355 | 225 | 455 | 180 | 15 | 180 | 250 | 320 | 14 | 300 | 845 | 498 | 95 | 125 |
| 125x100-200 | 22 | 180M | 279 | 241 | 180 | 368 | 280 | 493 | 200 | 15 | 200 | 280 | 360 | 18 | 355 | 934 | 562 | 120 | 160 |
| 65x40-250 | 11 | 160M | 254 | 210 | 160 | 355 | 225 | 455 | 180 | 15 | 180 | 250 | 320 | 14 | 300 | 845 | 498 | 95 | 125 |
| 80x50-250 | 18.5 | 160L | 254 | 254 | 160 | 355 | 225 | 480 | 180 | 15 | 180 | 250 | 320 | 14 | 300 | 914 | 542 | 95 | 125 |
| 100x65-250 | 30 | 180L | 279 | 279 | 180 | 368 | 250 | 493 | 200 | 15 | 200 | 280 | 360 | 18 | 355 | 972 | 600 | 120 | 160 |

1450/1750 rpm (Nominal speed)

| PUMP SIZE | kw | MOTOR FRAME | A | B | C | E | F | H | J | K | M | N | P | Q | R | S | T | U | V |
|-------------|-----|-------------|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|-----|-----|
| 50x32-160 | 2.2 | 100L | 160 | 140 | 100 | 252 | 160 | 332 | 112 | 12 | 132 | 190 | 240 | 14 | 195 | 584 | 315 | 70 | 100 |
| 65x50-160 | 3.0 | 100L | 160 | 140 | 100 | 252 | 160 | 332 | 112 | 12 | 132 | 190 | 240 | 14 | 195 | 584 | 315 | 70 | 100 |
| 80x65-160 | 3.7 | 112M | 190 | 140 | 112 | 298 | 180 | 398 | 122 | 12 | 160 | 212 | 265 | 14 | 224 | 660 | 371 | 70 | 100 |
| 100x80-160 | 5.5 | 132S | 216 | 140 | 132 | 306 | 200 | 406 | 145 | 12 | 160 | 212 | 280 | 14 | 250 | 690 | 374 | 95 | 125 |
| 50x32-200 | 3.7 | 112M | 190 | 140 | 112 | 298 | 180 | 378 | 122 | 12 | 160 | 190 | 240 | 14 | 224 | 640 | 371 | 70 | 100 |
| 65x40-200 | 3.7 | 112M | 190 | 140 | 112 | 298 | 180 | 398 | 122 | 12 | 160 | 212 | 265 | 14 | 224 | 660 | 371 | 70 | 100 |
| 80x50-200 | 5.5 | 132S | 216 | 140 | 132 | 298 | 200 | 398 | 145 | 12 | 160 | 212 | 265 | 14 | 250 | 683 | 374 | 70 | 100 |
| 100x65-200 | 7.5 | 132M | 216 | 178 | 132 | 306 | 225 | 406 | 145 | 12 | 180 | 250 | 320 | 14 | 250 | 729 | 412 | 95 | 125 |
| 125x100-200 | 11 | 160M | 254 | 210 | 160 | 355 | 280 | 480 | 180 | 15 | 200 | 280 | 360 | 18 | 300 | 870 | 498 | 120 | 160 |
| 65x40-250 | 5.5 | 132S | 216 | 140 | 132 | 306 | 225 | 406 | 145 | 12 | 180 | 250 | 320 | 14 | 250 | 691 | 374 | 95 | 125 |
| 80x50-250 | 7.5 | 132M | 216 | 178 | 132 | 306 | 225 | 431 | 145 | 12 | 180 | 250 | 320 | 14 | 250 | 751 | 412 | 95 | 125 |
| 100x65-250 | 15 | 160L | 254 | 254 | 160 | 355 | 250 | 480 | 180 | 15 | 200 | 280 | 360 | 18 | 300 | 914 | 542 | 120 | 160 |

*Specifications subject to change without prior notice.

*Other size of motors available upon customer request.

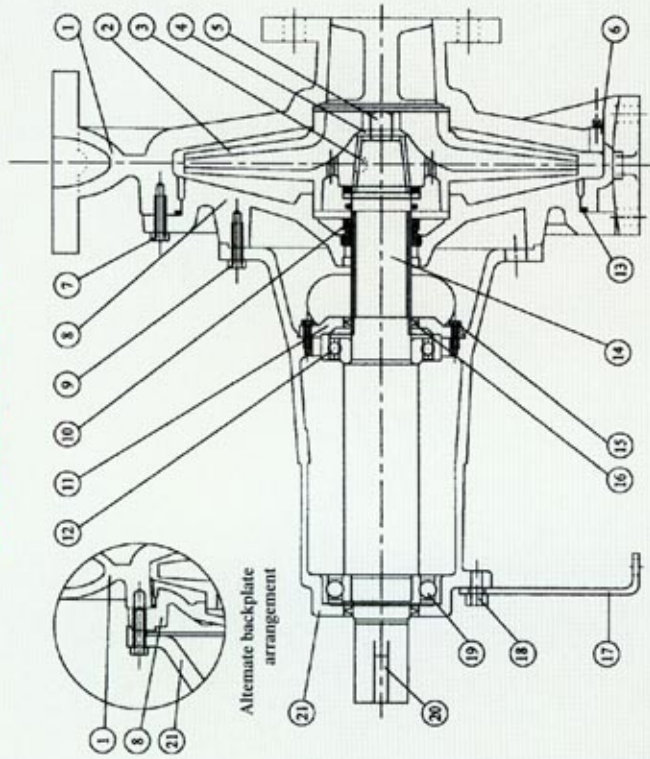


Stainless Steel Centrifugal Pump



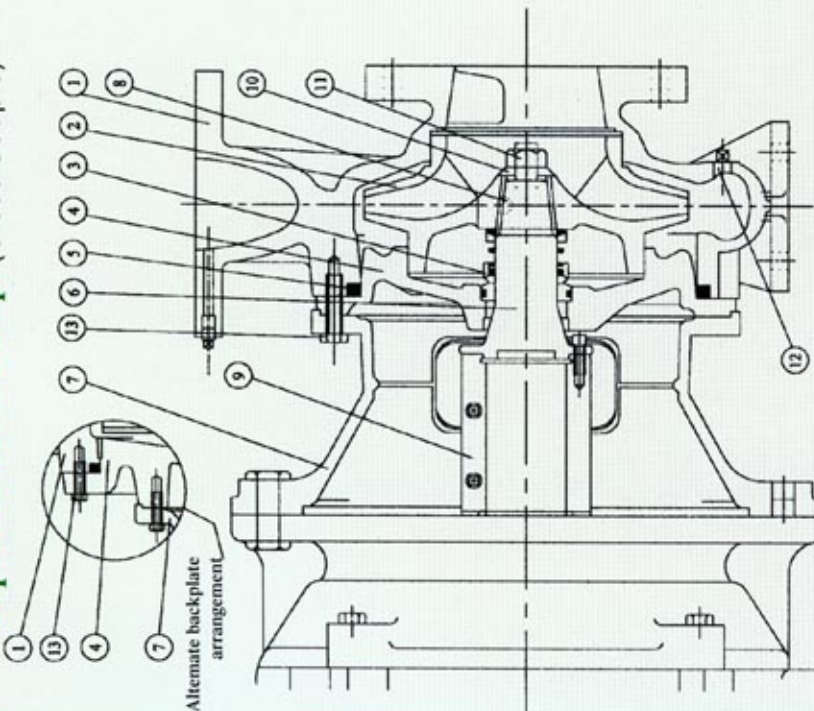
Motor Selection Chart

ISO 2858 Standard (Bare-Shaft)



| Item No. | Description | Item No. | Description |
|----------|-----------------------------------|----------|---------------------------------------|
| 1 | Volute Casing | 13 | "O" Ring |
| 2 | Impeller | 14 | Shaft |
| 3 | Impeller Key | 15 | Bearing Cover to Bearing Housing Bolt |
| 4 | Impeller Washer | 16 | Dust Seal |
| 5 | Impeller Nut | 17 | Support Foot |
| 6 | Casing Plug | 18 | Support Foot to Bearing Housing Bolt |
| 7 | Backplate to Volute Casing Bolt | 19 | Bearing |
| 8 | Backplate | 20 | Pulley Key |
| 9 | Bearing Housing to Backplate Bolt | 21 | Bearing Housing |
| 10 | Mechanical Seal | | |
| 11 | Bearing Cover | | |
| 12 | Bearing | | |

SupremeMotor Pump (Close Couple)



| Item No. | Description | Item No. | Description |
|----------|-----------------|----------|-----------------------------|
| 1 | Volute Casing | 8 | Impeller Key |
| 2 | Impeller | 9 | Shaft Clamp |
| 3 | Mechanical Seal | 10 | Impeller Washer |
| 4 | Backplate | 11 | Impeller Nut |
| 5 | "O" Ring | 12 | Casing Plug |
| 6 | Shaft Extension | 13 | Bell Housing to (Backplate) |
| 7 | Bell Housing | | Volute Casing Bolt-M10 |



STAINLESS STEEL CENTRIFUGAL PUMP

Material

| Pump component | Material |
|-----------------------------------|----------------|
| Bearing Housing (ISO Pump) | ASTM No. 35 |
| Bell Housing (Supreme Motor Pump) | ASTM No. 35 |
| Volute Casing | CF8 |
| Impeller | CF8 |
| Backplate | CF8 |
| Impeller Washer | 304 |
| Impeller Nut | 304 |
| Impeller Key | 304 |
| Casing and Flange Plug | CF8 |
| Casing O Ring | Nitrile Rubber |
| Motor Shaft Clam | 60-45-12 |
| Pump Shaft | SS 316 |
| Mechanical Seal | Carbon/Ceramic |

DIN-ISO Correspondence

| DIN 24256 | ISO 2858 |
|-----------|-------------|
| 32-160 | 50x32-160 |
| 50-160 | 65x50-160 |
| 65-160 | 80x65-160 |
| 80-160 | 100x80-160 |
| 32-200 | 50x32-200 |
| 40-200 | 65x40-200 |
| 50-200 | 80x50-200 |
| 65-200 | 100x65-200 |
| 100-200 | 125x100-200 |
| 40-250 | 65x40-250 |
| 50-250 | 80x50-250 |
| 65-250 | 100x65-250 |

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