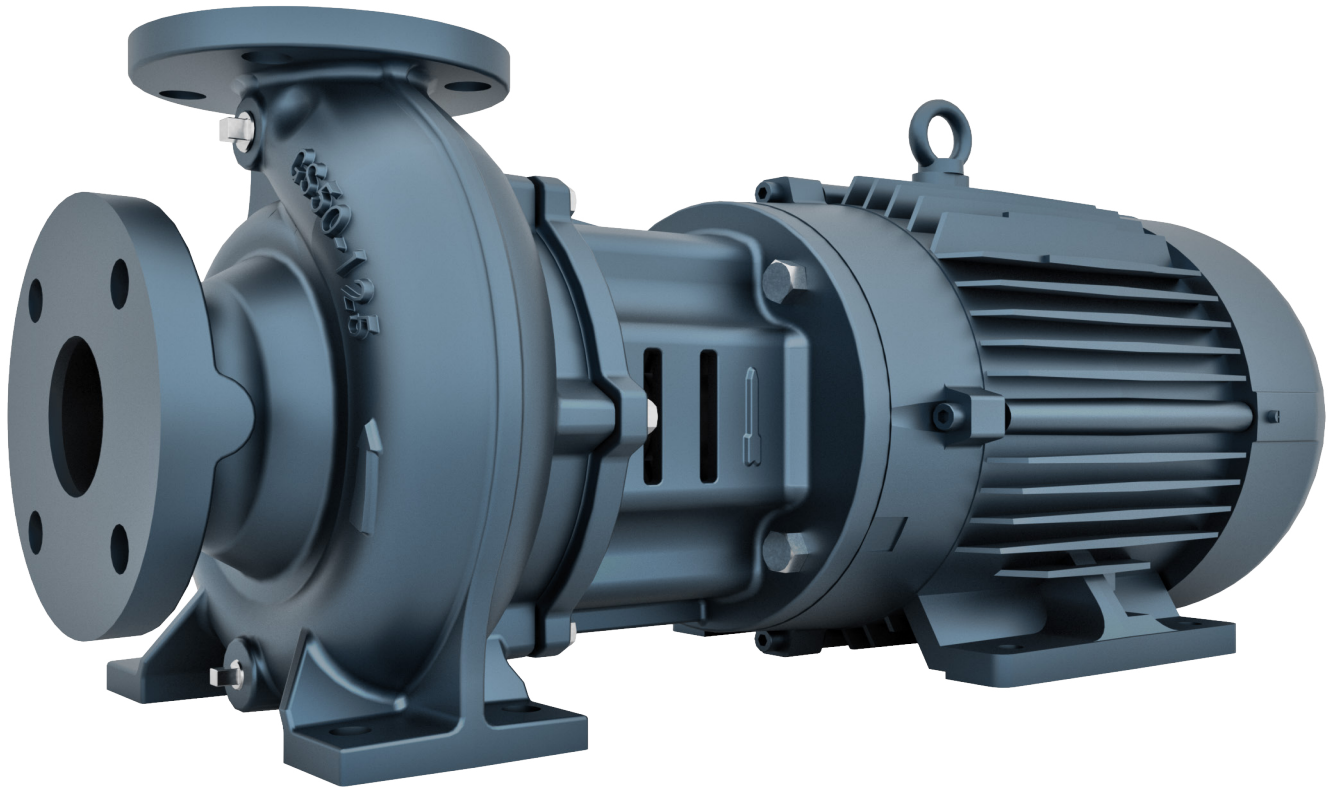


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# End Suction Centrifugal Pump

## Model GSDU



Technical Specification

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**Specification**

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**Main Applications****BUILDING**

- **Air conditioning-District heating & cooling**

General water supply

Brine (antifreeze liquid)

Hot water circulation

Pressure Boosting

**WATER SUPPLY**

- **Municipal water supply**

- **Irrigation**

- **Clean water drainage**

- **Fire protection**

- **Swimming pool**

**GENERAL INDUSTRY**

- **Semiconductor Industry**

Pure water

- **Food industry**

General water (Cooling water, Recycling water, Filtered water)

CIP (Cleaning in Place) , below 50°C and below conc. of 20%

- **Pulp and Paper Industry**

White water (below pulp conc. of 0.3%)

- **Automobile industry**

Water (without slurry)

Detergent (without slurry)

- **Steel industry - Non-ferrous metals industry**

Coolant

Cooling Water

- **Garbage incineration**

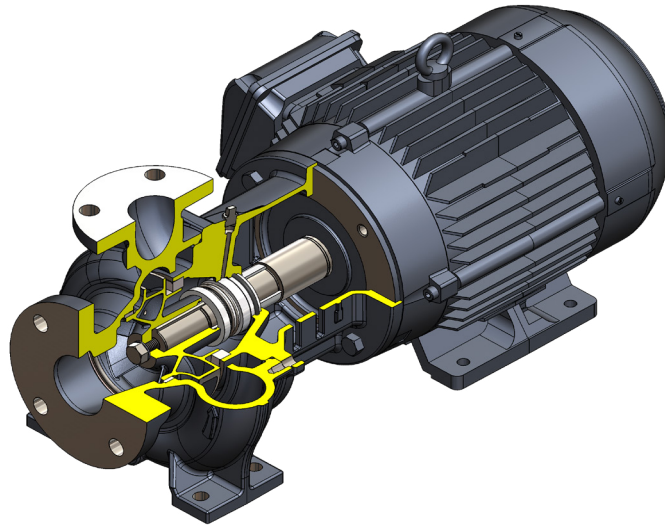
Cooling Water

Deaerater

Condensate water

## Specification

## Product Features

**Energy-saving Design**

- World top class pump efficiency achieved.
- Major improvement over our previous models by impeller designed using our proprietary 3D inverse design technology.
- Higher efficiency means lower energy consumption and motor output, and more compact size.

**Simple Maintenance**

- Alignment is not required with close couples design.
- Back pull-out structure enables disassembly and inspection without removal of suction and discharge piping.
- Shaft seal flushing and quenching piping not required for the standard application.
- Air-bleeding not required.
- Simplified shaft seal and O-ring casing seals enable easy assembly.

**Pump Specifications**

- Maximum operating pressure: 200 psi.
- Liquid temperature range expansion: 14°F to 250°F.
- ANSI B16.1 125lb flanges.
- Type 21 mechanical seal SiC/C/EPDM as standard.
- Stainless steel 316 (CF8M) impeller.
- Stainless steel 316 shaft sleeve.
- Lead-free bismuth bronze casing rings.
- Dry shaft design prevents corrosion at the motor shaft.

**International Standards**

- Pump dimensions in accordance with EN733.
- Safety design compliant with ISO 13852.
- Electric motor conforms to NEMA MG1.



\*Note: Model GSDU with seal code "E" is Certified

**Specification**

**General Description**

<b>Capacities</b>	To 2000 GPM (60Hz)
<b>Heads</b>	To 460 ft (60Hz)
<b>Liquid Temperatures</b>	14°F to 250°F
<b>MAX. Working Pressure</b>	Up to 200 psi (ANSI B16.1 125lb)
<b>Materials</b>	Casing: Cast Iron (A48 CL35) Impeller: Stainless Steel 316 (CF8M) Casing ring: Lead-free Bismuth bronze (CAC902) Mechanical seal: SiC / C / EPDM See other materials in the document “Parts Reference”
<b>Standards</b>	EN733, NEMA MG1
<b>Rotation</b>	Clockwise viewed from coupling end

	<b>Standard*</b>		<b>Optional**</b>
<b>Frequency</b>	60Hz		50Hz
<b>Operational Speed</b>	2-Pole	4-Pole	6-Pole
<b>Phase</b>	3-Phase		1-Phase
<b>Motor Power</b>	1.5 to 50 hp		-
<b>Voltage</b>	230/460V		575V, 190/380V
<b>Enclosure</b>	TEFC		ODP, Washdown, Explosion Proof, Other
<b>Standards</b>	NEMA MG1		

\* Standard accessories: baseplate

\*\* Optional items: consult factory for pricing and part number changes.



\*Note: Model GSDU with seal code “E” is Certified



## Specification

## Design Details

## FEATURES

- Horizontal foot mounting
- Close-coupled design
- Single-stage
- Radially split volute casing

## APPLICABLE FLANGE STANDARD

- ANSI B16.1 CLASS 125LB

## IMPELLER TYPE

- Closed, single suction type and balancing holes to reduce axial thrust

## SHAFT SEAL

- Single mechanical seal rubber bellows Type 21 (SiC/C/EPDM as standard)
- Optional seal flush plans (11, 12, 13, 32)

## BEARINGS AND LUBRICATION

- According to motor supplier

## PAINTING

## 1. Outer Surface

- Standard

Primer coating	Nitrocellulose based painting
Final coating	Epoxy based painting
Finish color	Blue gray (Munsell 2.5PB 4/2)

## 2. Inner Surface (casing and bracket)

- Standard

Primer coating	Epoxy based painting
Finish color	White

**Specification**

**Designation**

The following designation is system according to EN733



**Model** \_\_\_\_\_  
 GSDU - End Suction Close Coupled Pump

**Series** \_\_\_\_\_  
 2 - 2-pole (3500rpm)  
 4 - 4-pole (1750rpm)

**Discharge** \_\_\_\_\_  
 32 - 1-1/4"    80 - 3"  
 40 - 1-1/2"    100 - 4"  
 50 - 2"        125 - 5"  
 65 - 2-1/2"    150 - 6"

**Nominal Impeller Diameter(mm)\*** \_\_\_\_\_  
 125    250  
 160    315  
 200

\*.1 Indicates different casing and impeller desing to similar model

**Motor Horsepower** \_\_\_\_\_  
 15 - 1.5hp    75 - 7.5hp    250 - 25hp  
 20 - 2hp      100 - 10hp    300 - 30hp  
 30 - 3hp      150 - 15hp    400 - 40hp  
 50 - 5hp      200 - 20hp    500 - 50hp

**Motor Enclosure** \_\_\_\_\_  
 T - TEFC  
 D - Open Drip Proof (Opt.)  
 W - Washdown (Opt.)  
 X - Explosion Proof (Opt.)

**Power Phase** \_\_\_\_\_  
 3 - Three Phase  
 1 - Single Phase (Opt.)

**Seal Designator** \_\_\_\_\_  
 E - SiC/Carbon/EPDM - 316SS  
 M - SiC/SiC/EPDM - 316SS  
 V - SiC/Carbon/Viton - 316SS  
 N - SiC/SiC/Viton - 316SS

**Scope** \_\_\_\_\_  
 Blank - Pump & Motor  
 R - With motor/pump support (Opt.)  
 B - Base package (opt.)



\*Note: Model GSDU with seal code "E" is Certified



**Specification**

**Designation - Pump Kit (without motor)**

The following designation is system according to EN733

**GSDU 4 - 32 - 160 NB E - 145JM**

**Model**

GSDU - End Suction Close Coupled Pump

**Series**

2 - 2-pole (3500rpm)  
4 - 4-pole (1750rpm)

**Discharge**

32 - 1-1/4"	80 - 3"
40 - 1-1/2"	100 - 4"
50 - 2"	125 - 5"
65 - 2-1/2"	150 - 6"

**Nominal Impeller Diameter(mm)\***

125	250
160	315
200	

\*.1 Indicates different casing and impeller desing to similar model

**Pump Kit**

NB - Identification for pump kit (without motor)

**Seal Designator**

E - SiC/Carbon/EPDM - 316SS  
M - SiC/SiC/EPDM - 316SS  
V - SiC/Carbon/Viton - 316SS  
N - SiC/SiC/Viton - 316SS

**Motor Frame Size**

145JM - 143/5JM	215JP - 213/5JP	286JP - 284/6JP
184JM - 182/4JM	256JM - 254/6JM	326JM - 324/6JM
215JM - 213/5JM	286JM - 284/6JM	326JP - 324/6JP



**Specification**

**Applicable Model**

● : Applicable

Model	60Hz		Remarks
	3500 rpm (2Pole)	1750 rpm (4pole)	
GSDU 32-125.1	●	—	different hydraulic designs between them
GSDU 32-125	●	—	
GSDU 32-160.1	●	—	different hydraulic designs between them
GSDU 32-160	●	●	
GSDU 32-200.1	●	●	different hydraulic designs between them
GSDU 32-200	●	●	
GSDU 32-250	●	●	
GSDU 40-125	●	—	
GSDU 40-160	●	●	
GSDU 40-200	●	●	
GSDU 40-250	●	●	
GSDU 50-125	●	●	
GSDU 50-160	●	●	
GSDU 50-200	●	●	
GSDU 50-250	—	●	
GSDU 50-315	—	●	
GSDU 65-125	●	●	
GSDU 65-160	●	●	
GSDU 65-200	—	●	
GSDU 65-250	—	●	
GSDU 65-315	—	●	
GSDU 80-160	●	●	
GSDU 80-200	—	●	
GSDU 80-250	—	●	
GSDU 80-315	—	●	
GSDU 100-160	—	●	
GSDU 100-200	—	●	
GSDU 100-250	—	●	
GSDU 100-315	—	●	
GSDU 125-200	—	●	
GSDU 125-250	—	●	
GSDU 150-200	—	●	

▭ Models coming soon

