

Basic Self-Priming Centrifugal Pump

SPECIFICATION DATA

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Basic Self-Priming Centrifugal Pump

Model: U4B

Size: 4" x 4"

Various Patents Apply

PUMP SPECIFICATIONS

Size / Solids Handling	4" x 4" (101 mm x 101 mm) / .81" (20,6 mm)
Maximum Capacity	645 gpm (40,7 lps)
Maximum Head	196' (59,7m)
Impeller Type	Semi-Open, Six Vane
Radial Bearing	Open Single Row Ball
Thrust Bearing	Open Double Row Ball
Bearing and Seal Cavity Lubrication	SAE 30 Non-Detergent Oil
Oil Level Sight Gauges	Bearing and Seal
Maximum Operating Pressure	128 psi (883 kPa) *
Max Temp of Liquid Pumped	160°F (71°C) *

*Consult Factory for Applications Exceeding Maximum Pressure and/or Temperature Indicated.



U4B shown with optional suction and discharge spool flanges (available in ASA or DIN standard sizes).

Super U series® self-priming centrifugal pumps are reliable, efficient and ideal for water reuse stations and a variety of other industrial/municipal applications.

The series offers suction/discharge sizes of 3" (76mm), 4" (101 mm) and 6" (152mm) with solids size capacities ranging from .81(20,6mm) to 1.25" (30,7mm) and max capacity of 1300 gpm (82 lps) with max head of 207ft(63,1m) .

These are some of the most efficient self-priming, solids-handling pumps available. Their unique volute casing design minimizes friction loss and drag. The multi-vane, open impeller is designed for high efficiency, yet can still handle solids up to 1-1/4" (31 mm) in diameter. Super U series pumps not only deliver high efficiencies (up to 70%), they also perform efficiently across a broad operating range. Varying loads, which cause a pump to operate left or right of its best efficiency point on the operating curve, will reduce operating efficiency by only a very small percentage.

Gorman-Rupp U series pumps are available as basic units, ready for connection to a variety of drives: Power or flex-coupled or v-belt driven by an electric motor. When space is limited, flex-coupling , often solves confined area issues.

V-belt driven configurations offer the advantage of flexibility in speed selection and usually provides maximum operating speed for required head and capacity without needing to trim the impeller. Various belt and sheave options are available.

SUPER U SERIES FEATURES AND BENEFITS

Higher Efficiency - Due to their unique volute casing design U-series minimizes friction loss and drag. The multi-vane, open impeller is designed for high efficiency, yet can still handle solids .81" (20,6) diameter for U3 and U4 and 1.25" (31,8) for U6 models.

Easy To Service And Maintain - Pump is mounted above liquid being pumped with only the suction line down in liquid.

Dual Bearing Protection - An atmospheric barrier along with two lip seals provide additional protection of the pump bearings.

Easily Removable Cover plate - The removable cover plate with easy-grip handle provides quick and easy access to the pump's interior for service or routine maintenance.

5 Year Super U Series Warranty

Removable Rotating Assembly - The entire rotating assembly can be removed without disturbing the pump volute or piping allowing the rotating assembly to be easily repaired or quickly replaced with a new ready to drop in assembly.

PUMP MATERIALS AND OPTIONS

Seal Type Options	<ul style="list-style-type: none"> • Cartridge Type Mechanical, Oil-Lubricated, Double Floating, Self Aligning ^{(A)(B)}. • Non-Cartridge Type Mechanical, Oil-Lubricated, Double Floating, Self Aligning. • Metal Bellow, Oil-Lubricated
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PUMP MATERIAL OPTIONS

PART	MATERIALS
Casing	Gray Iron 30 ^(A) ; Stainless Steel CD4MCuN ^(B)
Impeller	Ductile Iron 60-40-18 ^(A) ; SST CD4MCuN ^(B) ; SST 316
Impeller Shaft	Alloy Steel 4150 ^(A) ; Stainless Steel 17-4 PH ^(B)
Optional Shaft Sleeve	Alloy Steel 4130 ^(A) ; Stainless Steel 17-4 PH
Seal Faces	Silicon Carbide ^{(A)(B)} ; Tungsten Titanium Carbide
Seal Elastomers	Fluorocarbon (DuPont Viton or Equivalent) ^{(A)(B)} ; Permalon; AFLAS
Wear Plate:	Gray Iron 30 ^(A) ; Stainless Steel CD4MCuN ^(B)
Cover Plate	Gray Iron 30 ^(A) ; Stainless Steel CD4MCuN ^(B)
Flap Valve	Neoprene w/Nylon and Steel Reinforcing ^(A) ; Fluorocarbon Elastomers (DuPont Viton or Equivalent) w/Stainless Steel CD4MCuN Reinforcing ^(B)
Seal Plate	Gray Iron 30 ^(A) ; Ductile Iron 60-40-18 ; SST CD4MCuN ^(B)
Bearing Housing	Gray Iron 30 ^(A) ; Ductile Iron 60-40-18 ; SST CD4MCuN ^(C)
Optional NPT Flanges	Gray Iron 30 ^(A) ; Stainless Steel 316 ^{(B)(+)} ; Stainless Steel CD4MCuN ^{(B)(+)}
Optional ASA Flanges	Gray Iron 30 ^(A) ; Stainless Steel 316 ; Stainless Steel CD4MCuN ^(B)
Optional DIN Flanges	Gray Iron 30 ^(A) ; Stainless Steel 316 ; Stainless Steel CD4MCuN ^(B)
Gaskets	Cork, Rubber, Vegetable Fiber, PTFE, Buna-N w/ Compressed Synthetic Fibers ^(A) ; Fluorocarbon (DuPont Viton or Equivalent), PTFE ^(B)
O-Rings	Buna-N ^(A) ; Fluorocarbon (DuPont Viton or Equivalent) ^(B)
Hardware	Standard Plated Steel ^(A) ; Stainless Steel 316 ^(B)
Pressure Relief Valve	Brass ^(A) ; Stainless Steel 316 ^(B)

STANDARD MATERIAL PUMP MODELS:

A = U4B60S-B

B = U4B65S-B

+ denotes Stainless 316 Discharge Flange and Stainless CD4MCuN Suction Flange.

Optional Equipment: Automatic Air Release Valve. 120V/240V Casing Heater. High Pump Temperature Shutdown Kit. 4" ASA or 100 mm DIN 2527 Spool Flange.



NET WEIGHT: 662 LBS. (300 KG.)
 SHIPPING WEIGHT: 700 LBS. (318 KG.)
 EXPORT CRATE SIZE: 23.5 CU. FT. (0,69 CU. M.)

** Dimensions and Weight will change based on pump configuration

