

BARNES PRODUCT LINE



BARNES SOLIDS HANDLING SUBMERSIBLES

SUBMERSIBLE P

Proven Performance

Barnes® offers a broad line of engineered submersible solids handling pumps for a wide variety of light to heavy duty wastewater services. Designed specifically for unscreened raw sewage or industrial waste applications, these Barnes® brand pumps are available in 3"through 8". discharge sizes and can handle spherical solids up to 4" in diameter.

With heads to 258' and capacities to 5,400gpm at 104°F. continuous media temperature, Barnes® submersible pumps deliver efficient hydraulic coverage. The motors are completely sealed against contaminants, and bearings are lubricated for the life of the pump, significantly reducing maintenance and operating costs.

Applications

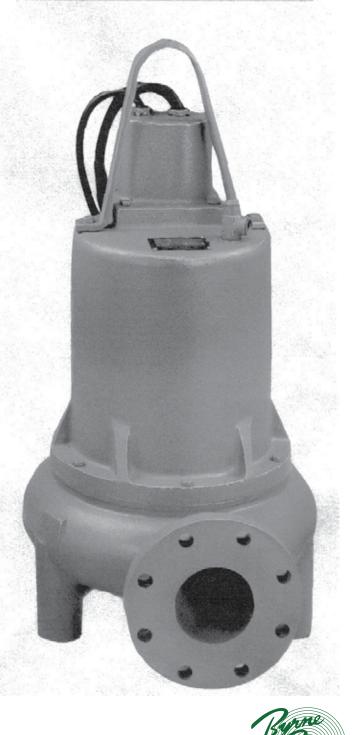
When wastewater collection is in a below-grade sump or wet well.

Where construction of a building for above-ground pumping equipment is not practical.

For use in an existing pump station that is subject to frequent flooding due to power failures or leakage.

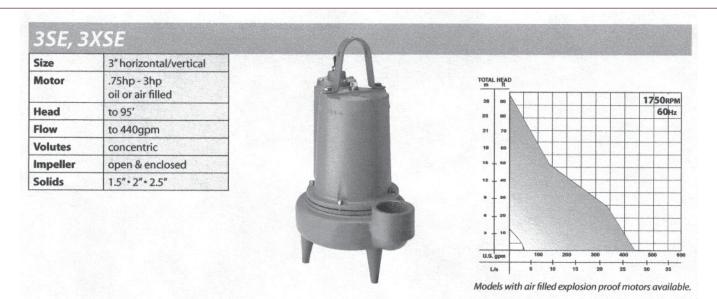
Where there is limited vertical clearance in an existing station.

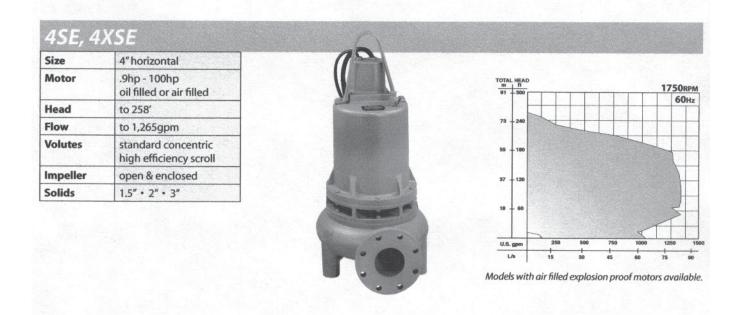
Engineered submersible solids handling wastewater pumps for municipal, industrial, residential & commercial applications. A dependable answer for sewage and waste handling needs.









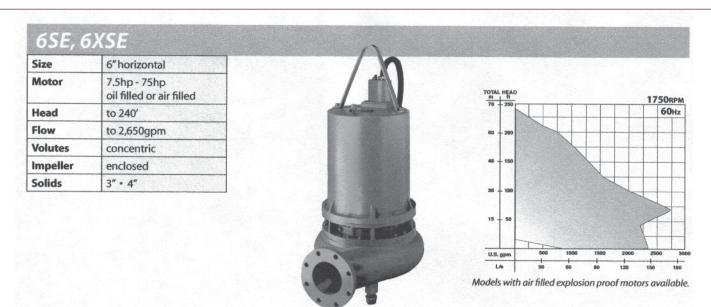


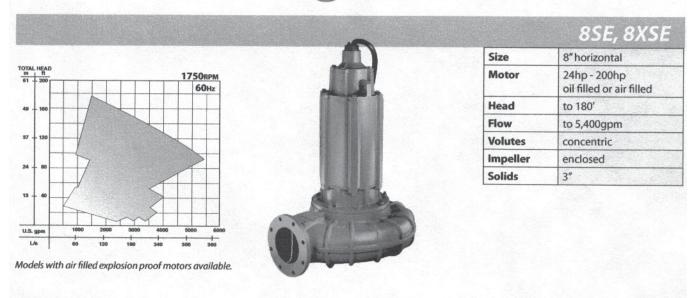
"The taxpayer—that's someone who works for the federal government but doesn't have to take the civil service examination."

-Ronald Reagan

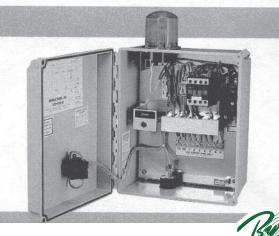








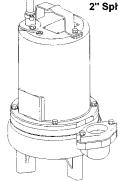
Control panels are available in NEMA 3R, 4X, and other enclosures for Simplex and Duplex pumping systems. Standard panels include: 120v control transformers, alternators (in Duplex panels), circuit breakers, motor overload protection, Hand-Off-Automatic selector switch, run lights, alarm circuit, magnetic starters, seal fail light, motor high temperature light. Custom panels available.





BARNES®

SUBMERSIBLE NON-CLOG PUMPS 2" Spherical Solids Handling



Series SE 0.5, 0.75 & 1HP 1750 RPM (SE51 & SE52)

Manual & Automatic



CSA 108 - File No. LR16567 UL 778

NRTL\C

Description:

SUBMERSIBLE NON-CLOG SEWAGE PUMP DESIGNED FOR TYPICAL RAW SEWAGE APPLICATIONS.

Specifications:

DISCHARGE:
LIQUID TEMPERATURE:
VOLUTE:
MOTOR HOUSING:
SEAL PLATE:
IMPELLER: Design:

Material: SHAFT: SQUARE RINGS: HARDWARE: PAINT: SEAL:

Design: Material:

416 Stainless Steel

Buna-N 300 Series Stainless Steel

2" NPT, Vertical.
104°F (40°C) Continuous.
Cast Iron ASTM A-48, Class 30.
Cast Iron ASTM A-48, Class 30.
Cast Iron ASTM A-48, Class 30.
2 Vane, Open, With Pump Out
Vanes On Back Side. Dynamically
Balanced, ISO G6.3.
Cast Iron ASTM A-48 Class 30.
416 Stainless Steal

300 Series Stainless Steel
Air Dry Enamel.
Single Mechanical.
Rotating Faces - Carbon
Stationary Faces - Ceramic
Elastomer - Buna-N
Hardware - 300 Series Stainless
15 ft. (4.5M) Cord. Plug on 120 Volt &
240 Volt 1 Phase. Quick Connect,
Custom Molded for Sealing and
Strain Relief. CABLE ENTRY:

Strain Relief. 1750 RPM (Nominal).

UPPER BEARING:

MOTOR:

Design: Lubrication: Load

LOWER BEARING: Single Row, Ball Design.

Lubrication. Radial & Thrust

NEMA L Torque Curve. Completely Design:

Oil-Filled, Squirrel Cage Induction. Class B Insulation:

Single Row, Ball Radial

Class B
Permanent Split Capacitor (PSC)
Includes Overload Protection In Motor.
200-240/480 Tri Voltage motor. 600V.
Requires Overload Protection to be SINGLE PHASE THREE PHASE: Included in Control Panel

FLOAT, AUTOMATIC MODELS:

FLOAT, AUTOMATIC MODELS:

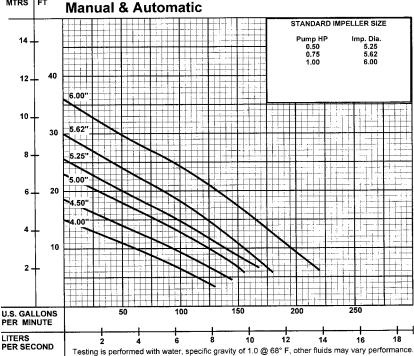
A - Wide Angle, PVC Mechanical,
15ft (5M) Cable on with Piggy-Back Plug.
AU - Wide Angle, Polypropylene,
Mechanical, N/O, Integral to Pump.
ON and OFF Points are Adjustable.

OPTIONAL EQUIPMENT:
Additional Cable, N/C Temperature Sensor with cable for 3 phase pumps
(Paguires Relay in Control Penell)

(Requires Relay in Control Panel).

PERFORMANCE CURVE

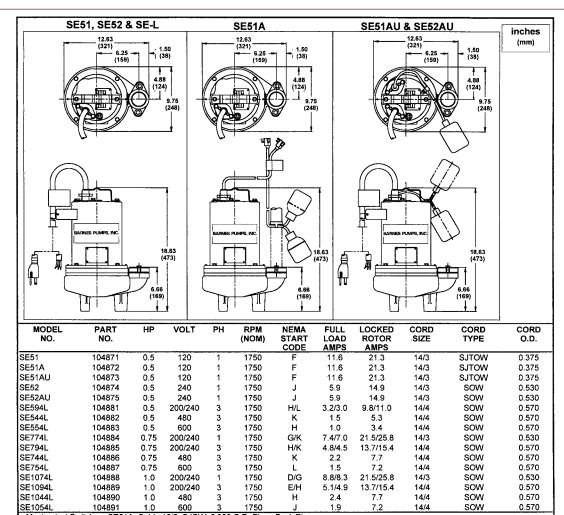
TOTAL HEAD Series: SE ,0.5, 0.75 & 1 HP, 1750RPM











Mechanical Switch on SE51A, Cable 16/2, SJOW, 0.320 O.D. Piggy-Back Plug. Mechanical Switch on SE51AU & SE52AU, Cable 14/2, SJOW, 0.345 O.D.

- PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
 THIS PUMP IS APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION II HAZARDOUS LOCATIONS.
 THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION I HAZARDOUS LOCATIONS.
 INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN
 ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANS/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED

TAX BITES

After a year of hard work, the average man or woman is entitled to a little vacation with the family. They may have scrimped and saved all year to be able to spend two weeks at their favorite vacation spot. Of course, their savings are heavily taxed all year. But when they finally go to buy airline tickets, what they probably don't realize is how much they are paying in taxes again.

All airline tickets are subject to a federal excise tax of 7.5 percent. In addition, there is a \$2.50 surcharge to pay for air traffic control services. If you are flying overseas, you are subject to a \$12.40 Arrival Tax, a \$12.40 Departure Tax, and a \$5.00 Customs User Fee. Many airports are also subject to a \$3 Passenger Facilities Charge, which is another tax. (Note: Pending legislation would raise the PFC tax to \$4.50.)

Air travelers are also subject to a \$6.00 Immigration User Fee and a \$2.00 Agricultural Inspection Fee. Consequently, over 10 percent of what you pay for

flying is actually going to these taxes.

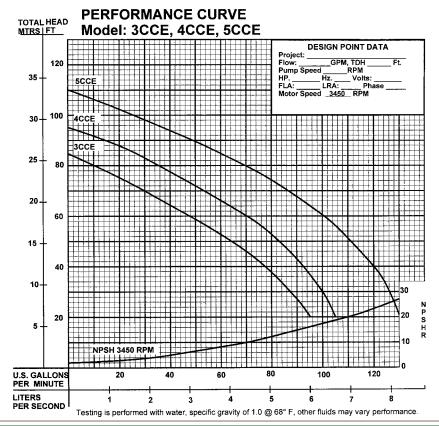
But that's only the start. Additional taxes paid by the airlines account for about 30 percent of the price of an airline ticket.





3CCE, 4CCE, 5CCE SELF-PRIMING PUMPS ELECTRIC DRIVE

BARNES® **Specifications:** 1-1/2" (38mm) x 1-1/2" (38mm) NPT, Female. 160°F (71°C) Continuous. Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48, Class 30. SUCTION/DISCHARGE: LIQUID TEMPERATURE: INTERMEDIATE: VOLUTE: BODY: PEDESTAL: Cast Iron ASTM A-48, Class 30. Design: Material: Open, Trash Type. Cast Iron ASTM A-48, Class 30. Dynamically Balanced, ISO G6.3. SHAFT: SQUARE RINGS: HARDWARE: Stainless Steel 3CCE, 4CCE, 5CCE Stainless Stee Stainless Steel Air Dry Enamel. Mechanical Self-Lubricating Rotating Face - Carbon Stationary Face - Ceramic Elastomer - Buna-N Hardware - 300 Series Stainless SELF-PRIMING PUMPS Design: **Electric Drive** Lubrication: Material: Series: 3CCE 1-1/2HP RPM: 3450 Series: 4CCE 2HP CHECK VALVE: Valve Flap-Neoprene. Weight-Cast Iron ASTM A-48, Class 30 ODP, NEMA L-Single Phase, RPM: 3450 Material: Series: 5CCE 3HP MOTOR: Desian: NEMA B-Three Phase Torque Curve C-Face, Footed, Squirrel Cage Canadian Standards Association File No. LR16567 Induction. Induction. Class B. Dual Voltage 115/230, Capacitor Start. Tri-Voltage, 200-230/460. Seal Material, TEFC Motors. SINGLE PHASE: American Bureau of Shipping Certificate No. THREE PHASE: OPTIONAL EQUIPMENT: 01-HS238523C/1PDA Description: SELF-PRIMING CENTRIFUGAL PUMPS DESIGNED FOR MARINE, MUNICIPAL AND INDUSTRIAL APPLICATIONS.

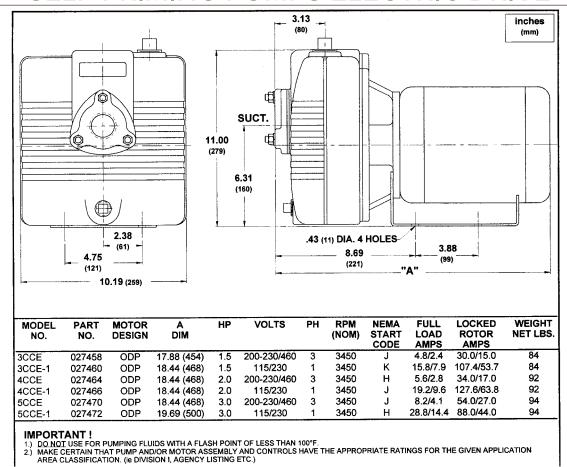








3CCE, 4CCE, 5CCESELF-PRIMING PUMPS ELECTRIC DRIVE



TAX BITES BREAD

In the process of production from farm to the store, the government imposes about 30 taxes on a loaf of bread.

These include federal income taxes, state income taxes, state and local property taxes, federal payroll taxes, sales taxes, capital gains taxes, unemployment compensation taxes, workmen's compensation taxes, retailers' excise taxes, business license taxes and fees, utility taxes, and state wheat farmer checkoff taxes.

A recent study by Price Waterhouse found that these taxes accounted for 27.2 percent of the price of a loaf of bread, not counting sales taxes paid by the customer.

So out of the average price of a loaf of bread of \$1.09 in 1995, about 30 cents goes for taxes, plus another 5 cents on average for sales taxes.

GAS

When you cruise on over to the gas station to fill up your car's gas tank, you naturally assume that you are paying for gas. What you don't realize is that over half of what you pay goes to the government in taxes rather than for the gas.

The federal government adds an excise tax of 18.3 cents on every gallon of gas. Each state then adds an additional excise tax now averaging 19.4 cents per gallon. This adds up to a total of 37.7 cents per gallon.

Based on recent price data from the Energy Information Administration of the U.S. Department of Energy, these taxes account for about 28 percent of what you pay for a gallon of gas at the pump.

For a car with a standard 15 gallon gas tank, a tax of 37.7 cents per gallon adds up to \$5.66 per fill-up. The Tax Foundation estimates that the average American household will spend \$422 this year on these taxes alone.

But that is not all. The government imposes 43 different direct and indirect taxes on the production and distribution of gas. The total tax burden amounts to 54 percent of the price of a gallon of gas.





3CCE, 4CCE, 5CCE SELF-PRIMING PUMPS ELECTRIC DRIVE

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200-230/460 115/230 200-230/460 115/230 200-230/460 115/230 Seal Kit P/N: 021814 (†) 3,4,9,10,11,16,17,22c PARTS LIST

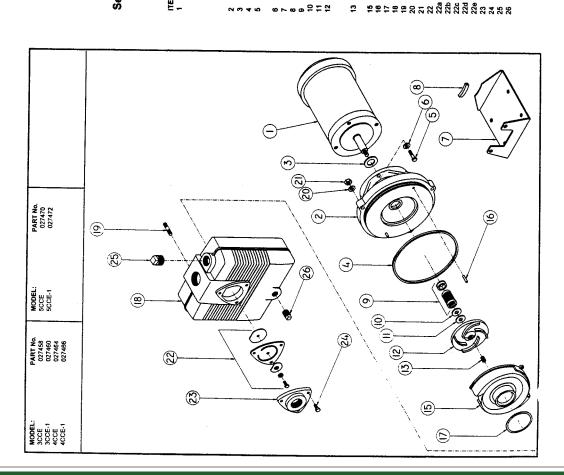
PARTS KIT

3CCE, 4CCE, 5CCE SELF-PRIMING PUMPS Electric Drive

3/8-16 x 1.25" Lg, Steel 3/8-16 x 1.00" Lg, Stainless 3/8" Steel 2.25° 0.D., Cl 1.56° 0.D., Cl Neoprene 1/4", Stainless 1/4-20 x 625° Lg, Stainless 5/16-18 x .875" Lg, Steel 1.25 NPT .75 NPT 3/8-16 x 1.75" Lg, Steel 3/8", Steel 3/8-16, Zp

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BARNES





10CCE & 10CCE-1 SELF-PRIMING PUMPS ELECTRIC DRIVE

BARNES®

10CCE & 10CCE-1

SELF-PRIMING PUMPS Electric Drive



Model: 10CCE & 10CCE-1, 5HP

RPM: 3450



American Bureau of Shipping Certificate No. 01-HS238523C/1PDA

Description:

SELF-PRIMING CENTRIFUGAL PUMPS DESIGNED FOR MARINE, MUNICIPAL AND INDUSTRIAL APPLICATIONS.

Specifications:

SUCTION/DISCHARGE: LIQUID TEMPERATURE: INTERMEDIATE: VOLUTE: PEDESTAL:

Design:

SHAFT: SHAFT SLEEVE: SQUARE RINGS: HARDWARE: PAINT: SEAL:

Design: Lubrication: Material:

CHECK VALVE:
Material:

MOTOR: Design:

SINGLE PHASE: THREE PHASE: OPTIONAL EQUIPMENT: 2" (51mm) x 2" (51mm) NPT, Female. 160°F (71°C) Continuous. Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48. Class 30. Cast Iron ASTM A-48, Class 30.

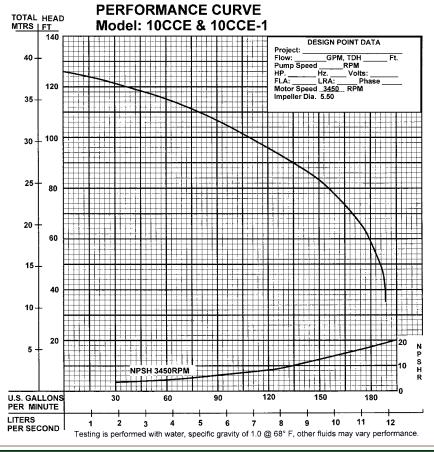
Open, Trash Type. Cast Iron ASTM A-48, Class 30. Dynamically Balanced, ISO G6.3. Stainless Steel Bronze Buna-N Stainless Steel Air Dry Enamel Mechanical

Rotating Face - Carbon Stationary Face - Ni-Resist Elastomer - Buna-N Hardware - 300 Series Stainless

Valve Flap-Neoprene. Weight-Cast Iron ASTM A-48, Class 30

Class 30
ODP, NEMA L-Single Phase
NEMA B - Three Phase Torque Curve,
C-Face, Footed, Squirrel Cape
Induction. Marine Duty Per USCG259
And AIEEE-45, 50°C Ambient

Class B.
Single Voltage, 230.
Tri-Voltage, 200-230/460.
Seal Material., TEFC Motors.

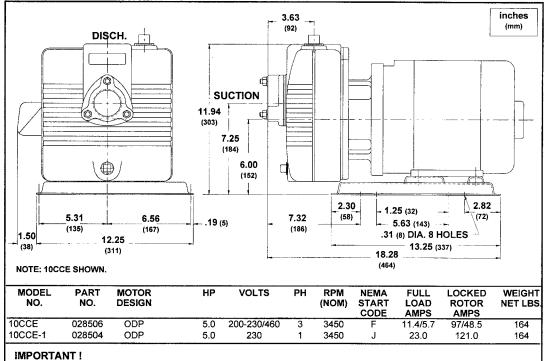


brtmarine.com





10CCE & 10CCE-1 SELF-PRIMING PUMPS ELECTRIC DRIVE



DO NOT USE FOR PUMPING FLUIDS WITH A FLASH POINT OF LESS THAN 100°F.

MAKE CERTAIN THAT PUMP AND/OR MOTOR ASSEMBLY AND CONTROLS HAVE THE APPROPRIATE RATINGS FOR THE GIVEN APPLICATION
AREA CLASSIFICATION. (ie DIVISION I, AGENCY LISTING ETC.)

TAX BITES

SODA

Although most states require soda consumers to pay sales taxes averaging 6 percent nationally, a number of states impose even higher taxes specifically targeted only at soda. One such state, Arkansas, imposes a2 cents per 12 ounce soft drink can.

Several states also have "bottle bills" that impose an extra charge on beverage containers to punish people for littering. Sure, you might get your fee back if you turn in your soda cans, but the costs of maintaining the programs is still heaped onto your cost. California's program, for example, costs taxpayers over \$30 million each year just for oversight.

Beyond the costs of the excise taxes and bottle bills, the true cost of taxation includes the producer's federal income taxes, state income taxes, federal payroll taxes, unemployment insurance taxes, workmen's compensation taxes, local property taxes and any local income taxes.

Depending on where you buy your Diet Coke, the government's share of the cost could runs as high as 37.6 percent, or \$.28 for a 75 cent can of soda.

MEALS

Eating out isn't cheap, but the government doesn't make it any easier to enjoy a meal at your favorite restaurant by imposing extra taxes on it. Because states and municipalities like the idea of taxing tourists, imposing taxes on restaurant meals has most big spenders salivating. In major cities like Chicago, the state and local meals taxes can heap on up to 10.25 percent of your bill

That is just the first course of taxation. Out of what the consumer pays for the meal, the restaurant must pay federal income taxes, state income taxes, federal payroll taxes, unemployment insurance taxes, workmen's compensation taxes, state franchise taxes, local property taxes and any local income taxes. Altogether, these taxes can add another \$11.18 onto an average restaurant bill of \$32.32.

This means that in total, a restaurant diner can expect to pay as much as 44.8 percent of the cost of a meal, or \$14.48 to the government.







10CCE & 10CCE-1 SELF-PRIMING PUMPS ELECTRIC DRIVE

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2.25° O.D., Cl 1.56° O.D., Cl Neoprane 1/4", Stainless 1/4-20 x 625° Lg, Stainless 5/16-18 x 1.75" Lg. Steel 1.25 NPT .75 NPT 3/8-16 Zp 3/8-16 x 1.00*Lg. Stainless 3/8-16 x 1.75" Lg, Steel 3/8", Steel 3/8-16, Zp 1/2-13 x 1.50" Lg, Steel 1/2" Steel

PARTS KIT

10CCE & 10CCE-1 SELF-PRIMING PUMPS Electric Drive

BARNES

PARTS LIST

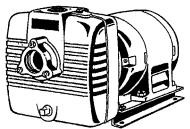
Seal KitP/N: 072920 (t) 3,4,8,9,10,11,16,17,22c

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PART No. 028506 028504	
22	
MODEL: 10CCE 10CCE-1	(E)



BARNES®

15CCE **SELF-PRIMING PUMPS Electric Drive**



Model: 15CCE



American Bureau of Shipping Certificate No. 01-HS238523C/1PDA

Description:

SELF-PRIMING CENTRIFUGAL PUMPS DESIGNED FOR MUNICIPAL AND INDUSTRIAL APPLICATIONS.

Specifications:

SUCTION/DISCHARGE: LIQUID TEMPERATURE: INTERMEDIATE: VOLUTE: BODY: PEDESTAL IMPELLER:

Design: Material:

SHAFT: SHAFT SLEEVE: SQUARE RINGS: HARDWARE: PAINT: SEAL:

Design: Lubrication: Material:

CHECK VALVE:

Material:

MOTOR: Design:

Insulation:

THREE PHASE OPTIONAL EQUIPMENT: 3" (76mm) x 3" (76mm) NPT, Female. 160°F (71°C) Continuous. Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48, Class 30.

Open, Trash Type. Cast Iron ASTM A-48, Class 30. Dynamically Balanced, ISO G6.3. Stainless Steel Bronze Buna-N Stainless Steel

Air Dry Enamel. Mechanical Rectanical Self-Lubricating Rotating Face - Carbon Stationary Face - Ni-Resist Elastomer - Buna-N Hardware - 300 Series Stainless

Valve Flap-Neoprene. Weight-Cast Iron ASTM A-48, Class 30 ODP, NEMA B-Three Phase

Torque Curve, C-Face, Footed, Squirrel Cage Induction.

Marine Duty Per USCG259 And AIEEE-45, 50°C Ambient

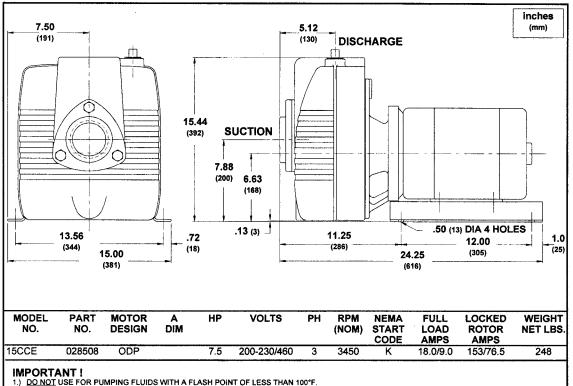
Class B Tri-Voltage, 200-230/460 Seal Material., TEFC Motors.

PERFORMANCE CURVE TOTAL HEAD MTRS | FT Model: 15CCE 140 DESIGN POINT DATA 3500 RPM GPM, TDH Flow 40 Pump Speed HP. H RPM Volts: Hz. LRA: Phase RPM Motor Speed 120 35 100 30 25 80 20 60 15 40 10 20 5 NPSH 3500RPM U.S. GALLONS PER MINUTE 300 50 100 150 200 250 LITERS 10 12 14 16 18 20 PER SECOND Testing is performed with water, specific gravity of 1.0 @ 68° F, other fluids may vary performance









DO NOT USE FOR PUMPING FLUIDS WITH A FLASH POINT OF LESS THAN 100°F.
MAKE CERTAIN THAT PUMP AND/OR MOTOR ASSEMBLY AND CONTROLS HAVE THE APPROPRIATE RATINGS FOR THE GIVEN APPLICATION
AREA CLASSIFICATION. (ie DIVISION I, AGENCY LISTING ETC.)

TAX BITES TIRES

To pay your taxes, you need to work. To get to work, you need to keep your clunker working. To keep it working, you have to buy some new tires every once in a while. What you don't realize is how much you are paying in taxes when you buy those tires.

Consumers, of course, must pay sales tax on the tires, averaging about 5 percent. They must also pay an additional tax averaging about 1 percent to pay for tire disposal.

Out of what the consumer pays for tires, the producer must pay federal income taxes, state income taxes, federal payroll taxes, unemployment insurance taxes, workmen's compensation taxes, local property taxes and any local income taxes.

Altogether, these taxes consume about 30 percent of what the consumer pays for a tire. Counting the taxes paid directly by the consumer, this means about 36 percent of the final sales price of a tire goes to the government in taxes.

CARS

Incredibly, the average family pays more in taxes today than for food, clothing and shelter combined. Indeed, you probably don't realize how much you are paying in hidden taxes when you buy such necessities.

Take the average family car, for example. Cars, of course, are subject to state and local sales tax, averaging 5 percent. Moreover, consumers must also pay a so-called luxury tax of 9 percent on car sales prices over \$34,000.

In addition, after the purchase of a car, in most states the consumer must pay each year a personal property or excise tax, averaging about 3 percent of the annual value of the car. If you keep the car for 5 years, these taxes can amount to 10 percent of what you paid for the car.

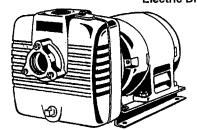
Combined with taxes on income, payroll, unemployment insurance, inventory, dealer personal property and other items, total taxes on cars reach 45 percent of the sales price.





BARNES®

20CCE **SELF-PRIMING PUMPS Electric Drive**



Model: 20CCE



American Bureau of Shipping Certificate No. 01-HS238523C/1PDA

Description:

SELF-PRIMING CENTRIFUGAL PUMPS DESIGNED FOR MUNICIPAL AND INDUSTRIAL APPLICATIONS.

Specifications:

SUCTION/DISCHARGE: LIQUID TEMPERATURE: INTERMEDIATE: VOLUTE: BODY: PEDESTAL: IMPELLER:

Design: Material:

SHAFT: SHAFT SLEEVE: SQUARE RINGS: HARDWARE: SEAL:

CHECK VALVE:

Design: Lubrication: Material:

MOTOR: Design:

Insulation: THREE PHASE OPTIONAL EQUIPMENT: 3" (76mm) x 3" (76mm) NPT, Female. 160°F (71°C) Continuous. Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48, Class 30.

Open, Trash Type. Cast iron ASTM A-48, Class 30. Dynamically Balanced, ISO G6.3. Stainless Steel

Bronze Buna-N Stainless Steel Air Dry Enamel Mechanical

Rectanical Self-Lubricating Rotating Face - Carbon Stationary Face - Ni-Resist Elastomer - Buna-N Hardware - 300 Series Stainless

Valve Flap-Neoprene. Weights-Cast Iron ASTM A-48,

ODP, NEMA B-Three Phase Torque Curve, C-Face, Footed, Squirrel Cage Induction. Marine Duty Per USCG259 And AIEEE-45, 50°C Ambient

Class B. Tri-Voltage, 200-230/460.

Seal Material, TEFC Motors

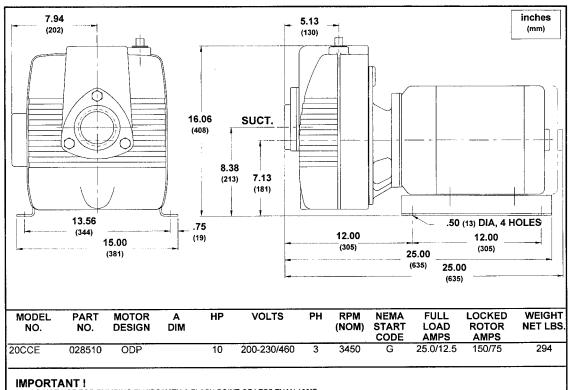
TOTAL HEAD PERFORMANCE CURVE MTRS | FT Model: 20CCE 140 3450 RPM **DESIGN POINT DATA** GPM, TDH 40 Pump Speed HP. FLA: L ed _____ Volts: ___ Hz. ___ Volts: ___ LRA: ___ Phase ___ RPM __RPM ___Volts: 120 35 100 30 25 80 20 60 15 40 10 20 5 NPSH 3450RPM 500 U.S. GALLONS 100 PER MINUTE 20 25 30 35 PER SECOND



PROUD DISTRIBUTOR OF

Testing is performed with water, specific gravity of 1.0 @ 68° F, other fluids may vary performance

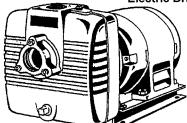
20CCE & 25CCE SELF-PRIMING PUMPS ELECTRIC DRIVE



DO NOT USE FOR PUMPING FLUIDS WITH A FLASH POINT OF LESS THAN 100°F.
MAKE CERTAIN THAT PUMP AND/OR MOTOR ASSEMBLY AND CONTROLS HAVE THE APPROPRIATE RATINGS FOR THE GIVEN APPLICATION
AREA CLASSIFICATION. (ie DIVISION I, AGENCY LISTING ETC.)

BARNES

25CCE SELF-PRIMING PUMPS **Electric Drive**



Model: 25CCE



American Bureau of Shipping Certificate No. 01-HS238523C/1PDA

Description:

SELF-PRIMING CENTRIFUGAL PUMPS DESIGNED FOR MUNICIPAL AND INDUSTRIAL APPLICATIONS.

Specifications:

SUCTION/DISCHARGE: LIQUID TEMPERATURE: VOLUTE: BODY: PEDESTAL: IMPELLER:

Design: Material.

SHAFT: SHAFT SLEEVE: SQUARE RINGS: HARDWARE: PAINT: SEAL:

Design: Lubrication: Material:

CHECK VALVE:

Material:

MOTOR: Design:

Insulation: THREE PHASE: OPTIONAL EQUIPMENT: 3" (76mm) x 3" (76mm) NPT, Female. 160°F (71°C) Continuous. Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48, Class 30.

Open, Trash Type. Cast Iron ASTM A-48, Class 30. Dynamically Balanced, ISO G6.3. Stainless Steel Bronze

Cast Iron ASTM A-48, Class 30.

Buna-N Stainless Steel Air Dry Enamel. Mechanical Self-Lubricating
Rotating Face - Carbon
Stationary Face - Ni-Resist Flastomer - Buna-N Hardware - 300 Series Stainless

Valve Flap-Neoprene Weights-Cast Iron ASTM A-48, Class 30

ODP, NEMA B-Three Phase Torque Curve, C-Face, Footed, Squirrel Cage Induction. Marine Duty Per USCG259 And AIEEE-45, 50°C Ambient

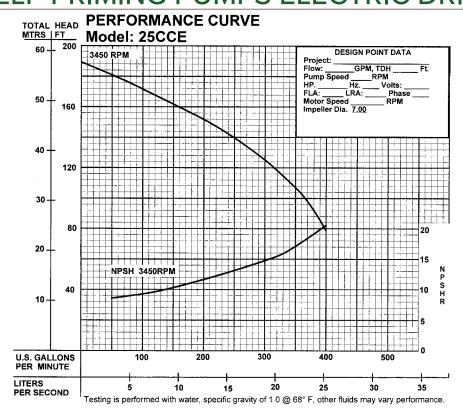
Tri-Voltage, 200-230/460. Seal Material, TEFC Motors

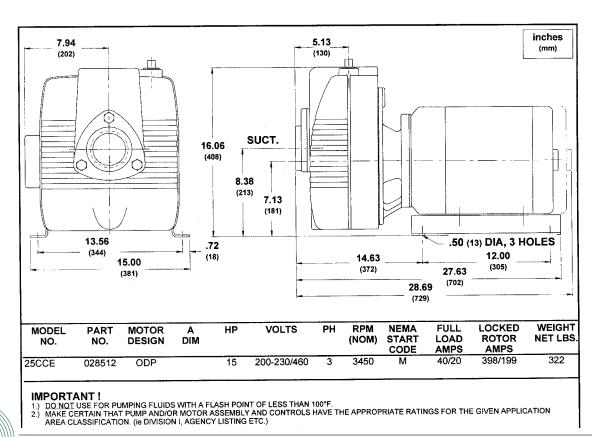


800-725-3787

BR

25CCE SELF-PRIMING PUMPS ELECTRIC DRIVE









15CCE, 20CCE, 25CCESELF-PRIMING PUMPS ELECTRIC DRIVE

SERIES; 15CCE, 20CCE, 25CCE

BARNES

PARTS KIT

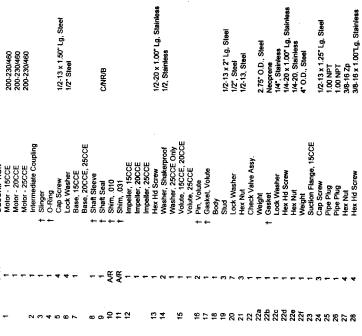
Seal Kit P/N: 072918 (†) 3,4,8,9,10,11,16,17,22b

PARTS LIST

NOTEGO	OLDER TOO	Motor - 15CCE	Motor - 20CCE	Motor JECCE	HOUGH - KOCKE	Intermediate Coupling	+ Slinger	+ O Ding	Sint O	Cap Screw	Lock Washer	Base, 15CCE	Base, 20CCE, 25CCE	† Shaft Steeve	+ Shaft Seal	+ Shim, 010	† Shim, .031	Impeller, 15CCE	Impeller, 20CCE	Impeller, 25CCE	Hex Hd Screw	Washer, Shakerproof	Washer, 25CCE Only	Volute, 15CCE, 20CCE	TOTAL SECON
ΥIO	,	-	-	-		-	-	-		4	4	-		-	-	Æ	Æ	-	-	-	-	7	-	-	-
IYEM		-			•	2	က	4		D	9	7		80	6	10	=	12			13	7		12	

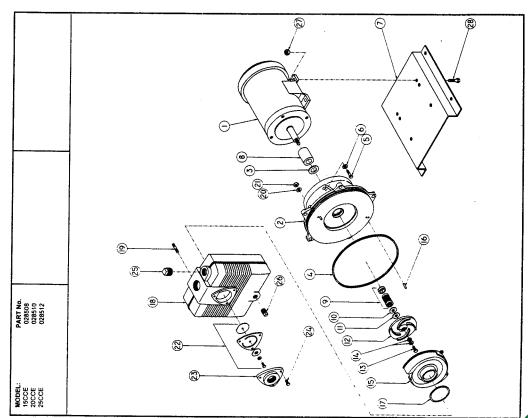
1/2-13 x 1.50" Lg, Steel 1/2" Steel

200-230/460 200-230/460 200-230/460



1/2-13 x 2" Lg, Steel 1/2", Steel 1/2-13, Steel

1/2-20 x 1.00" Lg, Stainless 1/2, Stainless





800-725-3787



BARNES® 5CU-1 **SELF-PRIMING PUMPS Electric Drive** Model: 5CU-1 American Bureau of Shipping Certificate No. 01-HS238523E/1-PDA **Description:**

SELF-PRIMING CENTRIFUGAL PUMPS

DESIGNED FOR MARINE, MUNICIPAL AND

INDUSTRIAL APPLICATIONS.

Specifications:

SUCTION/DISCHARGE: 1-1/2" (38mm) x 1-1/2" (38mm) NPT, Female. 160°F (71°C) Continuous. Cast Iron ASTM A-48, Class 30. LIQUID TEMPERATURE: INTERMEDIATE: VOLUTE: Cast Iron ASTM A-48, Class 30. Removable. Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48, Class 30. BODY: PEDESTAL: IMPELLER: Open, Trash Type. Cast Iron ASTM A-48, Class 30. Dynamically Balanced, ISO G6.3. Design: Material: SHAFT: Stainless Steel SQUARE RINGS: HARDWARE: Stainless Steel Air Dry Enamel SEAL: Design: Mechanical Rectained
Self-Lubricating
Rotating Face - Carbon
Stationary Face - Ceramic
Elastomer - Buna-N Lubrication: Material: Hardware - 300 Series Stainless BEARING-PUMP END:

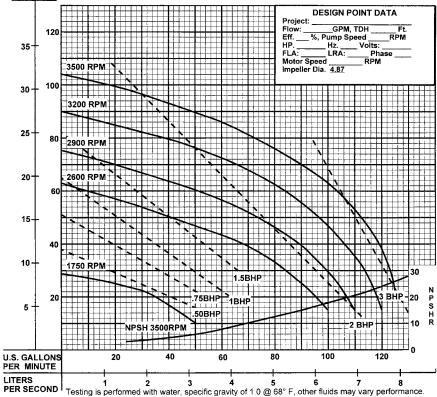
Design: Lubrication. Single Row, Ball Grease Load: Radial

BEARING-DRIVE END: Single Row, Ball Design: Lubrication. Radial Load:

CHECK VALVE: Material: Valve Flap-Neoprene Weight-Cast Iron ASTM A-48, Class 30

OPTIONAL EQUIPMENT: Seal Material; Flex Coupled Assy. with Base & OSHA Guard; Right Hand V-Belt Drive Assy., Left Hand V-Belt Drive Assy, and In-Line Vertical V-Belt Drive Assy, with Base, Motor Adjusting Base & OSHA Guard.

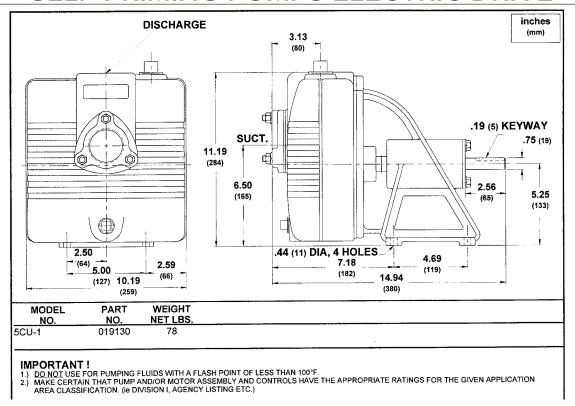
PERFORMANCE CURVE TOTAL HEAD Model: 5CU-1 MTRS | FT











TAX BITES

HOTEL STAYS

Because Uncle Sam seems to be able to follow you everywhere, it shouldn't surprise you that after paying taxes on the airline ticket that got you to your favorite vacation destination, you'll have to pay more taxes for a room at a hotel.

Your bill when you check out includes not only sales taxes, but also local occupancy taxes that could tack on up to 15.4 percent if you're staying in Chicago. That's about \$15 of an average hotel bill of \$97.06.

But don't forget—hotels pay taxes too. Out of what the consumer pays to the hotel, the hotel must cover costs for federal and state income taxes, federal payroll taxes, sales taxes, capital gains taxes, unemployment insurance taxes, workmen's compensation taxes, business license taxes and fees, utility taxes, local property taxes, and any local income taxes. The hotel must also pay federal and state excise taxes on its telephones. These taxes add another \$33.58 to the average cost of a hotel room.

Nearly half of the cost of a hotel room, or as much as 50 percent, pays for taxes. For an average one night stay costing \$97.06, this means that up to \$48.53 goes straight to the government.





PART No. 019874 017305 017305 017305 017305 012201 002201 002201 017064 0177064 0177064 0177064 0177064 017716 019024 017718 019024 019024 019026 0190000 019000 01

Seal Kit P/N: 021814 (†) 3,4,9,10,11,16,17,22B.

PARTS LIST

PARTS KIT

882322222238 882322222238

5CU-1 SELF-PRIMING PUMPS Electric Drive

BARNES

② PART No. 019130 018902 MODEL: 5CU-1 7CU-1 **(E)**



BARNES®

10ICU-1

SELF-PRIMING PUMPS **Electric Drive**



Model: 10ICU-1



American Bureau of Shipping Certificate No. 01-HS238523E/1-PDA

Description:

SELF-PRIMING CENTRIFUGAL PUMPS DESIGNED FOR MARINE, MUNICIPAL AND INDUSTRIAL APPLICATIONS.

Specifications:

SUCTION/DISCHARGE: LIQUID TEMPERATURE: INTERMEDIATE: VOLUTE:

BODY: PEDESTAL: IMPELLER:

SHAFT:

PAINT: SEAL:

Design: Material:

SHAFT SLEEVE: SQUARE RINGS: HARDWARE:

Design: Lubrication: Material:

Grease Rotating Face - Carbon Stationary Face - Ceramic Elastomer - Buna-N Hardware - 300 Series Stainless

Removable

Stainless Steel

Stainless Steel Buna-N Stainless Steel

2" (51mm) x 2" (51mm) NPT, Female. 160°F (71°C) Continuous. Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48, Class 30.

Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48, Class 30.

Open, Trash Type. Cast Iron ASTM A-48, Class 30. Dynamically Balanced, ISO G6.3.

Air Dry Enamel. Single Mechanical with Lip Seal

Single Row, Ball Design: Lubrication: Grease Radial

BEARING-DRIVE END: Single Row, Ball Grease Radial Design: Lubrication Load:

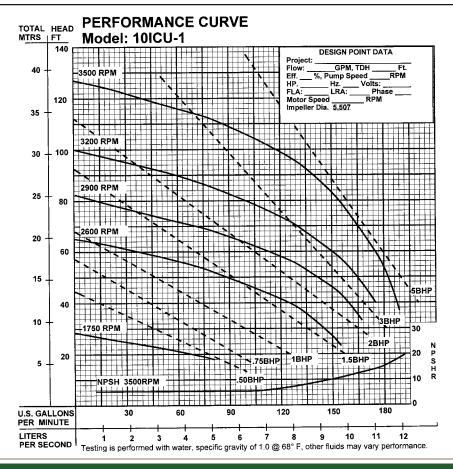
CHECK VALVE:

BEARING-PUMP END:

CHECK VALVE:

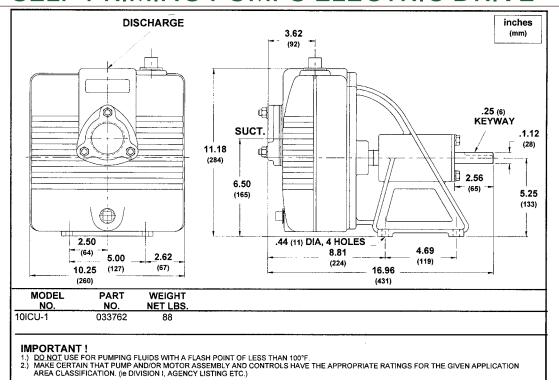
Material:
Valve Flap-Neoprene.
Weight-Cast Iron ASTM A-48,
Class 30

OPTIONAL EQUIPMENT:
Seal Material, Flex Coupled Assy. with
Base & OSHA Guard; Right Hand V-Belt Drive Assy, and In-Line Vertical V-Belt Drive Assy. with Base, Motor
Adjustics Page & OSHA Guard Adjusting Base & OSHA Guard.









TAX BITES ELECTRICITY

Government sees your electric power bill as something you cannot avoid, and they're right, of course. They love to impose taxes on it. In addition to sales taxes, states impose gas import taxes or other surcharges on your bill. As a result, on average 11.2 percent of what you pay for your electric power bill goes to state governments for these taxes alone.

For the average customer, this adds up to about \$206 per year. But that's only the beginning. Of the remaining funds you pay for the utility, roughly another \$266 per year on average goes for taxes as well.

Consequently, about one-fourth of what you pay for your electric bill goes to the government in taxes rather than for the electricity.

For the average customer, this amounts to about \$472 per year. Overall, the government collects almost \$50 billion per year on taxes paid through your electric bill alone.

(Note: If the Senate were to ratify the proposed Global Warming Treaty advocated by former Vice President Al Gore, many experts believe that the above numbers would be more than doubled.)

LANDLINE PHONES

In today's high-tech world, consumers have a wide range of choices for their voice services. Where there used to only be a landline phone, there are now cell phones, Voice over Internet Protocol (VoIP) services, and cable digital voice services. Recently the Beacon Hill Institute of Massachusetts surveyed 59 US cities and came up with average taxes paid for a wide variety of telecommunications services.

According to their study, consumers pay 17.23 percent of their average monthly landline (traditional) phone bill in taxes and fees. With monthly bills estimated at \$49.33, you pay \$8.50 for a landline phone.

These numbers take into account phone-specific taxes like the federal Universal Service Fund, the 911 tax, the city telecom taxes, TDD (deaf tax), and state universal service.

However, what the Beacon Hill study does not take into account are costs for federal income taxes, state income taxes, federal payroll taxes, unemployment insurance taxes, workmen's compensation taxes, local property taxes and any local income taxes. Altogether, these taxes dial up the actual "bite" to \$25.55 for a landline phone.

When added to the taxes and fees paid directly by the consumer, a total of 51.8 percent of a traditional phone bill actually pays for government taxes and fees.





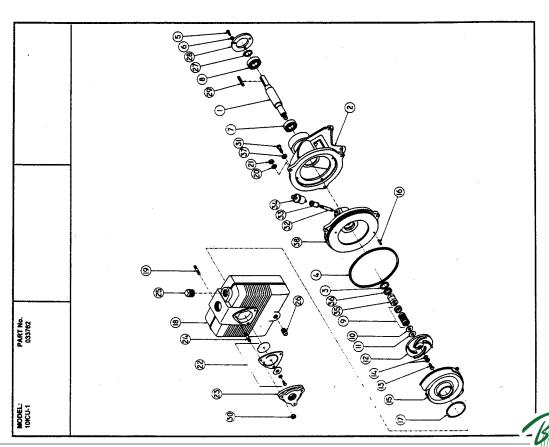
15-23-1 15-23-1 10-177-18 00137-18 00177-12 0022-34-3 0023-48-3 0018-25 0018-5 5/16-18 x 2.25" Lg, Stainless 1.25" NPT 1.75" NPT

4.87" Dia 1/2-20 x 1.00" Lg. Stainless 1/2" Stainless 10-32 x .50" Lg, Zp #10 Steel

BARNES®

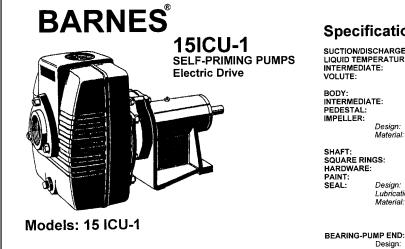
10ICU-1 SELF-PRIMING PUMPS Electric Drive

PARTS LIST









Description:

SELF-PRIMING CENTRIFUGAL PUMPS DESIGNED FOR MARINE, MUNICIPAL AND INDUSTRIAL APPLICATIONS.

American Bureau of Shipping Certificate No. 01-HS238523E/1-PDA

Specifications:

SUCTION/DISCHARGE: LIQUID TEMPERATURE: INTERMEDIATE: VOLUTE:

INTERMEDIATE: PEDESTAL:

Design: Material:

Open, Trash Type. Cast Iron ASTM A-48, Class 30. Dynamically Balanced, ISO G6.3. Stainless Steel Buna-N

HARDWARE: Design:

Lubrication:

Air Dry Enamel Single Mechanical with Lip Seal Oil Material: Rotating Face - Carbon

Stationary Face - Ceramic Elastomer - Buna-N Hardware - 300 Series Stainless

3" (76mm) x 3" (76mm) NPT, Female. 160°F (71°C) Continuous. Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48, Class 30.

Removable.
Cast Iron ASTM A-48, Class 30.

Single Row, Ball Design: Lubrication: Grease Radial

Stainless Steel

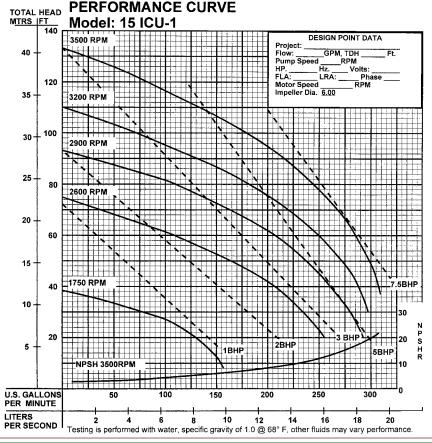
Load: BEARING-DRIVE END: Design: Lubrication. Single Row, Ball Grease Radial

Load: CHECK VALVE: Material:

Valve Flap-Neoprene. Weight-Cast Iron ASTM A-48,

Weight-Cast Iron ASTM A-48, Class 30

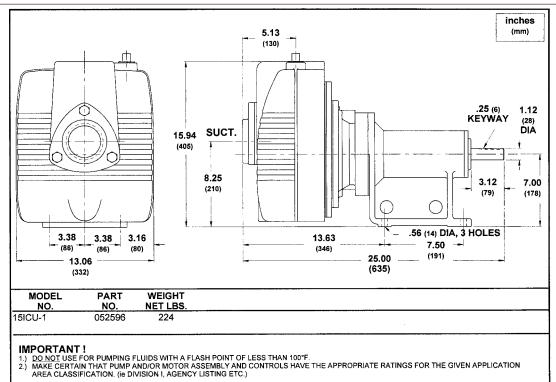
OPTIONAL EQUIPMENT: Seal Material, Flex Coupled Assy. with Base & OSHA Guard; Right Hand V-Belt Drive Assy., Left Hand V-Belt Drive Assy. and In-Line Vertical V-Belt Drive Assy. with Base, Motor Adjusting Base & OSHA Guard.



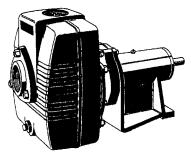




15 ICU-1 & 20 ICU-1 SELF-PRIMING PUMPS ELECTRIC DRIVE & UNIVERSAL DRIVE



20 ICU-1 SELF-PRIMING PUMPS **Universal Drive**



Models: 20 ICU-1



American Bureau of Shipping Certificate No. 01-HS238523E/1-PDA

Description:

SELF-PRIMING CENTRIFUGAL PUMPS DESIGNED FOR MARINE, MUNICIPAL AND INDUSTRIAL APPLICATIONS

Specifications:

SUCTION/DISCHARGE: LIQUID TEMPERATURE: INTERMEDIATE: VOLUTE:

BODY: INTERMEDIATE: PEDESTAL:

Design: Material.

SHAFT: SQUARE RINGS: HARDWARE: PAINT:

Design: Lubrication:

BEARING-PUMP END: Design: Lubrication.

BEARING-DRIVE END:

Design: Lubrication Load: CHECK VALVE: Material:

Rotating Face - Carbon Stationary Face - Ceramic Elastomer - Buna-N Hardware - 300 Series Stainless Single Row, Ball Grease

Single Row, Ball Radial

Radial

Valve Flap-Neoprene. Weight-Cast Iron ASTM A-48, Class 30

3" (76mm) x 3" (76mm) NPT, Female. 160°F (71°C) Continuous. Cast Iron ASTM A-48, Class 30.

Cast Iron ASTM A-48, Class 30

Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48, Class 30.

Open, Trash Type. Cast Iron ASTM A-48, Class 30. Dynamically Balanced, ISO G6.3.

Single Mechanical with Lip Seal

Removable.

Stainless Steel Stainless Steel

Air Dry Enamel

OPTIONAL EQUIPMENT: Seal Material, Flex Coupled Assy, with Base & OSHA Guard; Right Hand V-Belt Drive Assy, Left Hand V-Belt Drive Assy, and In-Line Vertical V-Belt Drive Assy, with Base, Motor Adjusting Base & OSHA Guard.

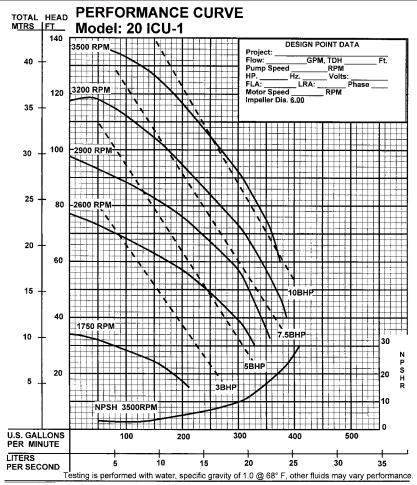
PROUD DISTRIBUTOR OF

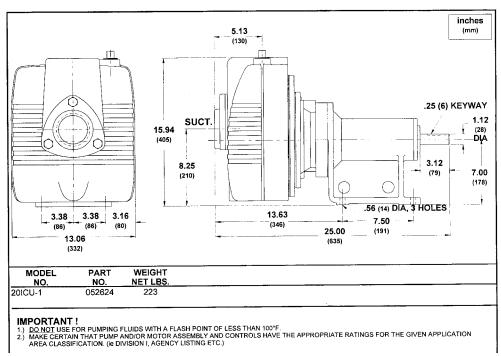
800-725-3787

brtmarine.com



20 ICU-1SELF-PRIMING PUMPS UNIVERSAL DRIVE



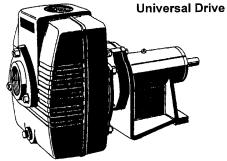






25 ICU-1 SELF-PRIMING PUMPS UNIVERSAL DRIVE

BARNES® 25 ICU-1 **SELF-PRIMING PUMPS**



Model: 25 ICU-1



American Bureau of Shipping 01-HS238523E/1-PDA

Description:

SELF-PRIMING CENTRIFUGAL PUMPS DESIGNED FOR MARINE, MUNICIPAL AND INDUSTRIAL APPLICATIONS

Specifications:

SUCTION/DISCHARGE: LIQUID TEMPERATURE: INTERMEDIATE: VOLUTE:

BODY: INTERMEDIATE: PEDESTAL: IMPELLER:

Open, Trash Type. Cast Iron ASTM A-48, Class 30. Design: Material:

Dynamically Balanced, ISO G6.3. Stainless Steel

3" (76mm) x 3" (76mm) NPT, Female. 160°F (71°C) Continuous. Cast Iron ASTM A-48, Class 30.

Cast Iron ASTM A-48, Class 30.

Cast Iron ASTM A-48, Class 30.

Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48, Class 30.

SHAFT: SQUARE RINGS: Buna-N HARDWARE: Stainless Steel PAINT: Air Dry Enamel SEAL:

Single Mechanical with Lip Seal Design: Lubrication: Material: Oil

Rotating Face - Carbon Stationary Face - Ceramic Elastomer - Buna-N Hardware - 300 Series Stainless

Removable.

BEARING-PUMP END: Design:

Single Row, Ball Lubrication: Grease Radial Load

BEARING-DRIVE END:

Design: Single Row, Ball Lubrication: Grease Load:

CHECK VALVE:

Material:

Valve Flap-Neoprene. Weight-Cast Iron ASTM A-48, Class 30

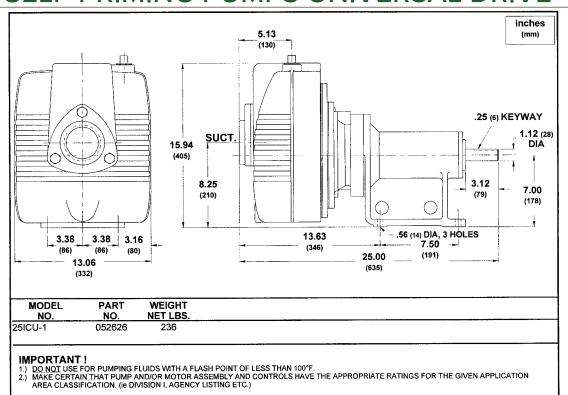
OPTIONAL EQUIPMENT: Seal Material, Flex Coupled Assy. with Base & OSHA Guard; Right Hand V-Belt Drive Assy., Left Hand V-Belt Drive Assy. and In-Line Vertical V-Belt Drive Assy. with Base, Motor Adjusting Base & OSHA Guard.

PERFORMANCE CURVE TOTAL HEAD Model: 25 ICU-1 MTRS | FT 200 60 DESIGN POINT DATA Project: 3500 RPM GPM, TDH Pump Speed RPM LRA: Phase 3200 RPM Motor Speed Impeller Dia. 7.00 RPM 50 160 2900 RPM 40 120 2600 RPM 30 80 15BHF 20 1750 RPM 40 40 10 7.5BHP 5BHP 10BHP 20 2BHP NPSH 3500RPM 500 100 200 300 400 U.S. GALLONS PER MINUTE **LITERS** 35 15 20 25 30 PER SECOND Testing is performed with water, specific gravity of 1.0 @ 68° F, other fluids may vary performance.





25 ICU-1SELF-PRIMING PUMPS UNIVERSAL DRIVE



TAX BITES

Firearms

Whether for sport or self-protection, many citizens jump through bureaucratic hoops to legally purchase a firearm. Before they can pull the trigger, the government targets their purchases for taxes.

All gun sales are subject to a federal excise tax of up to 11 percent paid directly by the consumer in addition to the state and local sales tax rates. But because other taxes are imposed on the manufacturer, the true amount of the price of a gun that pays for taxes must account for federal income taxes, state income taxes, federal payroll taxes, unemployment insurance taxes, workmen's compensation taxes, local property taxes and any local income taxes, which are paid by the producer. These taxes add another \$173 onto the final sale of a \$500 firearm.

For a \$500 firearm, the government loads on 45.6 percent of the cost in taxes – collecting \$228 per gun.

TAXES IMPOSED ON GAS PRODUCTION & SALES: On the average cost of a gallon of gas, 51% is taxes

FEDERAL TAXES: Corporate Income Tax Individual Income Tax Capital Gains Tax Corporate Environmental Tax FICA Tax FUTA Tax Duties on Imported Crude and Product Customs Ad Valorem User Fee Airport and Airway Trust Fund Tax Harbor Maintenance Trust Fund Tax Superfund Crude Oil Tax Oil Spill Liability Trust Fund Tax Highway Trust Fund Tax Aquatic Resources Trust Fund Tax Deficit Reduction Excise Tax Inland Waterways Trust Fund Tax Heavy Truck and Trailer Tax Excise Tax on Tires Federal Telephone Excise Taxes

STATE TAXES: Corporate Income Taxes Individual Income Taxes Franchise Taxes Unemployment Taxes Sales and Use Taxes Motor Fuel Excise Taxes Sales Taxes on Motor Fuels Fuel Use Taxes Superfund Taxes Used Oil Disposal Taxes Waste Disposal Taxes Business Property Taxes Real Property Taxes Pipeline Throughput Taxes Severance Taxes Production Taxes Refinery Throughput Taxes Conservation Taxes Telephone Excise Taxes Environmental Impact Taxes Public Highway Use Taxes Heavy Truck Highway Use Taxes



PROUD DISTRIBUTOR OF BARNES



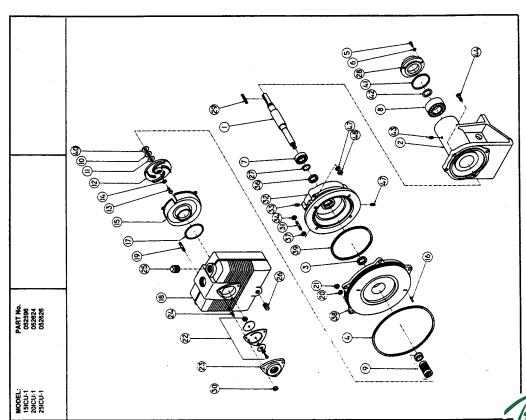
15 ICU-1, 20 ICU-1, 25 ICU-1

PARTS KIT

BARNES

SERIES: 15ICU-1, 20ICU-1, 25ICU-1

PARTS KIT







BARNES®

2020HCU **END SUCTION PUMPS** Universal Drive

Model: 2020HCU



American Bureau of Shipping Certificate No. 01-HS238523D/1-PDA

Description:

THESE PUMPS ARE SUITABLE FOR GENERAL INDUSTRIAL USE SUCH AS, LIQUID TRANSFER OR AS BOOSTER **PUMPS**

Specifications:

SUCTION/DISCHARGE:

2" (51mm) NPT Suction, 2"(51mm)125lb Flange Discharge. Discharge can be placed in 8

different locations depending on piping requirements.

180°F (82°C) Continuous.
Cast Iron, ASTM Class 30, with Air

LIQUID TEMPERATURE: BODY: Vent, Vacuum Pressure and Drain Plugs. Cast Iron, ASTM Class 30.

PEDESTAL:

Design:

Enclosed Type, Material:

81-3-7-9 Bronze.
Dynamically Balanced, ISO G6.3.
Teflon "U" Cup Steel

SHAFT: SHAFT SLEEVE: HARDWARE: Bronze Steel Air Dry Enamel.

Design: Lubrication: Single Mechanical Self Lubricating Rotating Face - Carbon Material. Stationary Face - Ni-Resist Elastomer - Buna-N Hardware - Stainless Steel

BEARING-PUMP END:

WEAR RING:

PAINT: SEAL:

Design: Lubrication: Load: BEARING-DRIVE END:

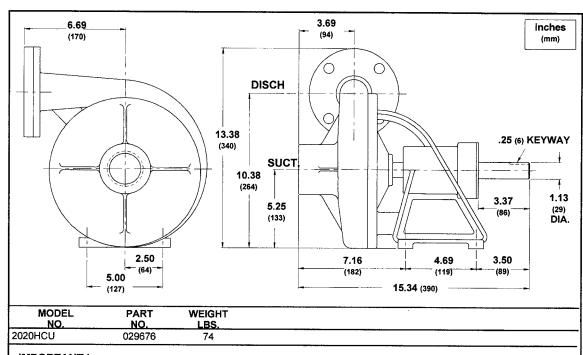
Single Row, Ball Grease, Factory Lubrication. Radial & Thrust

Design: Lubrication.

Single Row, Ball Grease, Factory Lubrication. Radial & Thrust

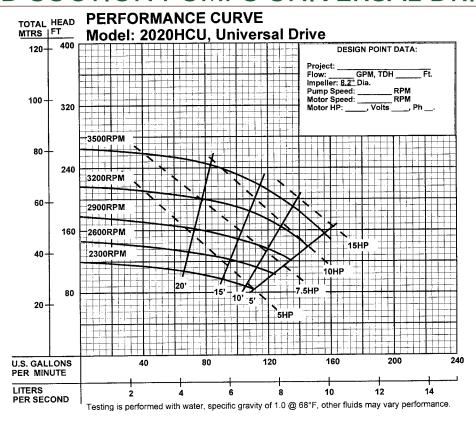
OPTIONAL EQUIPMENT:

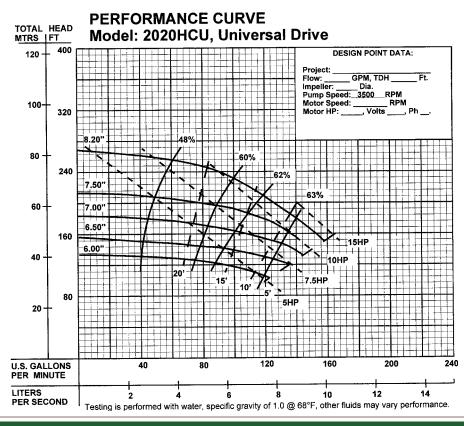
Discharge Check Valve, Hand Primer, Base &OSHA Coupling Guard, Flex Coupling, Strainer



1.) DO NOT USE FOR PUMPING FLUIDS WITH A FLASH POINT OF LESS THAN 100°F.
2.) MAKE CERTAIN THAT PUMP AND/OR MOTOR ASSEMBLY AND CONTROLS HAVE THE APPROPRIATE RATINGS FOR THE GIVEN APPLICATION AREA CLASSIFICATION. (ie DIVISION I, AGENCY LISTING ETC.)

PROUD DISTRIBUTOR OF

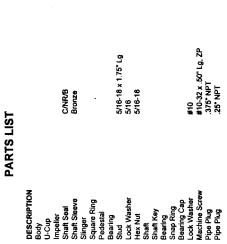












TAX BITES
Distilled Spirits

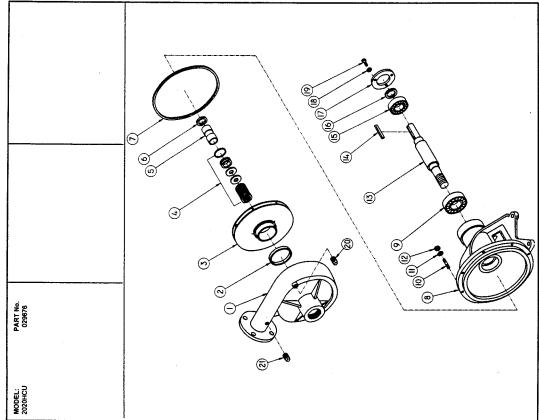
Another target of the "sin tax"- loving legislators is distilled spirits. Taxes on distilled spirits are among the highest taxes imposed on any product. Nearly 80 percent of what you pay for a bottle goes to the government in taxes rather than for the liquor. At an average price of \$13.10 for a 750mL bottle of 80 proof spirits, this amounts to the government stirring in \$10.43 to your total at the register.

The federal excise tax pours \$2.14 into the average cost of a 750 ml bottle, or about 16 percent of the \$13.10. Then the median state excise taxes add another \$3.75 to the same bottle. And because distilled spirits producers must pay federal and state income taxes, federal payroll taxes, property taxes and other taxes, these costs are passed on to consumers. These taxes tack on another \$4.53 to the total price of a bottle of distilled spirits.

BARNES

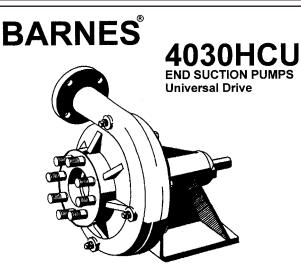
PARTS KIT

Seal Kit......P/N: 083560 (†) 2,4,5,6,7.









Model: 4030HCU



American Bureau of Shipping Certificate No. 01-HS238523D/1-PDA

Description:

THESE PUMPS ARE SUITABLE FOR GENERAL INDUSTRIAL USE SUCH AS, LIQUID TRANSFER OR AS BOOSTER **PUMPS**

Specifications:

SUCTION/DISCHARGE:

Discharge can be placed in 8 different locations depending on piping

LIQUID TEMPERATURE:

BODY:

PEDESTAL:

Design: Material:

WEAR RING: SHAFT: SHAFT SLEEVE: HARDWARE: PAINT: SEAL:

Design: Lubrication: Material:

BEARING-PUMP END:

Design: Lubrication:

BEARING-DRIVE END: Design:

Lubrication:

OPTIONAL EQUIPMENT:

4" (102mm) Suction, 3" (76mm) Discharge, 125lb Flange.

requirements.
180°F (82°C) Continuous.
Cast Iron, ASTM Class 30, with Air

Vent, Vacuum Pressure and Drain Plugs.
Cast Iron, ASTM Class 30.

Enclosed Type, Cast Iron, ASTM Class 30. Dynamically Balanced, ISO G6.3. Bronze Steel

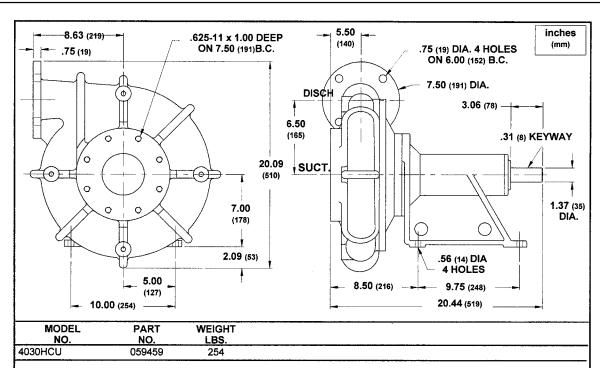
Bronze Steel Air Dry Enamel.

Single Mechanical Self Lubricating Rotating Face - Carbon Stationary Face - Ni-Resist Elastomer - Buna-N Hardware - Stainless Steel

Single Row, Ball Grease, Factory Lubrication. Radial & Thrust

Single Row, Ball Grease, Factory Lubrication. Radial & Thrust

Discharge Check Valve, Hand Primer, Base &OSHA Coupling Guard, Flex Coupling, Strainer, Bronze Impeller, Companion Flange, Flange Gasket.

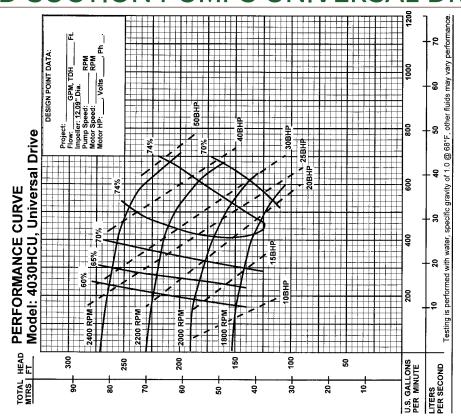


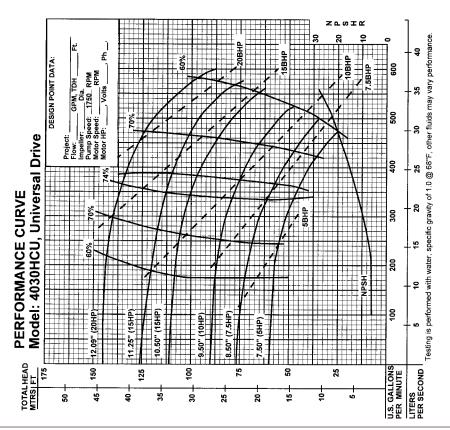
IMPORTANT!

DO NOT USE FOR PUMPING FLUIDS WITH A FLASH POINT OF LESS THAN 100°F.
MAKE CERTAIN THAT PUMP AND/OR MOTOR ASSEMBLY AND CONTROLS HAVE THE APPROPRIATE RATINGS FOR THE GIVEN APPLICATION
AREA CLASSIFICATION. (ie DIVISION I, AGENCY LISTING ETC.)









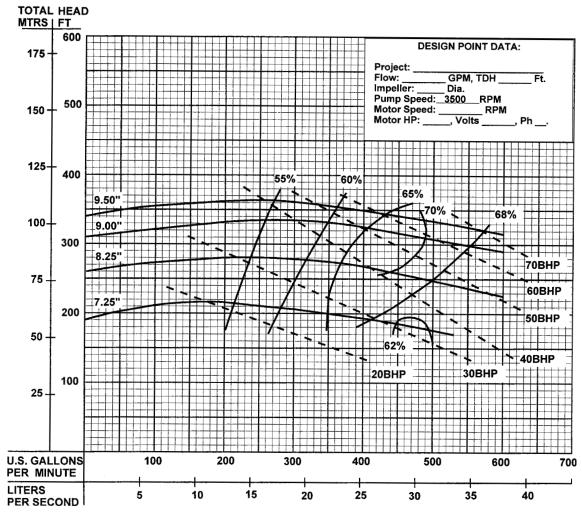






PERFORMANCE CURVE

Model: 4030HCU, Universal Drive



TAX BITES

CELLULAR PHONES

In today's high-tech world, consumers have a wide range of choices for their voice services. Where there used to only be a landline phone, there are now cell phones, Voice over Internet Protocol (VoIP) services, and cable digital voice services. Recently the Beacon Hill Institute of Massachusetts surveyed 59 US cities and came up with average taxes paid for a wide variety of telecommunications services.

According to their study, consumers pay 11.78 percent of their average monthly wireless bill to the government. With monthly bills estimated at \$49.98, you pay \$5.89 for a wireless.

These numbers take into account phone-specific taxes like the federal Universal Service Fund, the 911 tax, the city telecom taxes, TDD (deaf tax), and state universal service.

However, what the Beacon Hill study does not take into account are costs for federal income taxes, state income taxes, federal payroll taxes, unemployment insurance taxes, workmen's compensation taxes, local property taxes and any local income taxes. Altogether, these taxes dial up the actual "bite" to \$23.19 for a wireless phone. When added to the taxes and fees paid directly by the consumer, a total of 46.4 percent of a wireless bill actually pays for government taxes and fees.



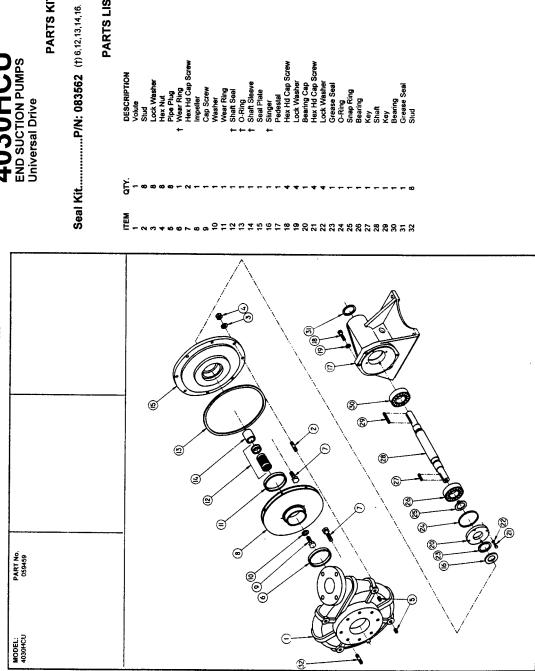
4030HCU END SUCTION PUMPS UNIVERSAL DRIVE

PART No. 09452 016409 002608 002608 003217 0030217 003021 003065 003065 003065 003066 003066 003066 003066 003066 00328 003218 00220 002218 002208 003218 002208 003218 002208 003218 002208 003218 002208 003065 002208 003065 002208 003065 002208 003065 002208 003065 002208 003065 002208 002208 002218 002208 00 ; 1/2-13 x 1.25" Lg, Stainless 7/16-14 x 1.25" Lg 7/16 1/4" Sq x 1.00" Lg 5/16-18 x .50" Lg 5/8-11 x 2.75" Lg CANRAB PARTS LIST

4030HCU END SUCTION PUMPS Universal Drive

PARTS KIT

BARNES®



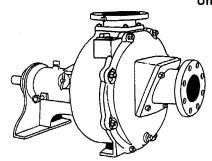


PROUD DISTRIBUTOR OF

B30 SELF-PRIMING PUMPS UNIVERSAL DRIVE

BARNES

B30 SELF-PRIMING PUMPS Universal Drive



Model: **B30**

Description:

SELF-PRIMING CENTRIFUGAL PUMPS DESIGNED FOR MUNICIPAL AND NDUSTRIAL APPLICATIONS.

Specifications:

LIQUID TEMPERATURE: VOLUTE/WEARPLATE:

CASE: END COVER: SEAL PLATE: PEDESTAL: IMPELLER:

Design:

IMPELLER SHAFT: SQUARE RINGS: HARDWARE: SEAL:

Design: Lubrication:

Material:

Lubrication

Elastomer - Buna-N Hardware - 300 Series Stainless **BEARING-PUMP END:** Single Row, Ball

Load: BEARING-DRIVE END:

Single Row, Ball Design: Lubrication: Radial & Thrust Load:

CHECK VALVE: Material:

Valve Flap-Neoprene Weight-Cast Iron ASTM A-48, Class 30 Seal Materials, Case Heater; Stainless

Radial & Thrust

3" (76mm) x 3" (76mm) 125lb. Flange.

160°F (71°C) Continuous. Cast Iron ASTM A-48, Class 30,

Replaceable, External Clearance

Cast Iron ASTM A-48, Class 30.

Cast iron ASTM A-48, Class 30. Alloy Steel, Replaceable.

Cast Iron ASTM A-48, Class 30.

Corrosion Resistant Steel. Air Dry Enamel.

Rotating Face - Carbon Stationary Face - Ceramic

Single Mechanical

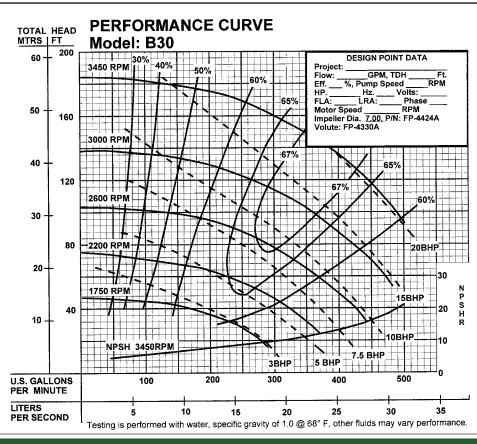
Semi-Open Type. Passes 3/4" Solids. Cast Iron ASTM A-48, Class 30. Dynamically Balanced, ISO G6.3.

Grease, with Self-Feeding Lubricator.

Adjustment.

Buna-N

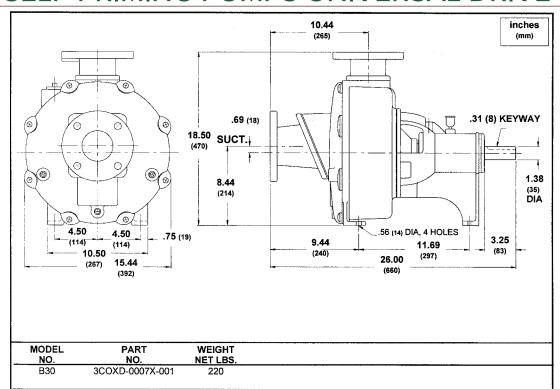
OPTIONAL EQUIPMENT: Hardware; High Temperature Control; Flex Coupled Assy. with Base & OSHA Guard; Right Hand V-Belt Drive Assy., Left Hand V-Belt Drive Assy. and In-Line Vertical V-Belt Drive Assy. with Base, Motor Adjusting Base & OSHA Guard.







B30 SELF-PRIMING PUMPS UNIVERSAL DRIVE



IMPORTANT!

DO NOT USE FOR PUMPING FLUIDS WITH A FLASH POINT OF LESS THAN 100°F.

MAKE CERTAIN THAT PUMP AND/OR MOTOR ASSEMBLY AND CONTROLS HAVE THE APPROPRIATE RATINGS FOR THE GIVEN APPLICATION
AREA CLASSIFICATION. (ie DIVISION I, AGENCY LISTING ETC.)

POLI-TALKS

"The more we remove penalties for being a bum, the more bumism is going to blossom."

-Sen. Jesse Helms (R-NC), on welfare

"We didn't send you to Washington to make intelligent decisions. We sent you to represent us."

-Kent York, a Texas pastor, to Rep. Bill Sarpalius (D-TX)

"President Clinton had a bill, e-i-e-i-o. And in that bill was lots of pork, e-i-e-i-o."

-Sen. Alfonse D'Amato (R-NY)

"I have orders to be awakened at any time in the case of a national emergency, even if I'm in a cabinet meeting."

-Ronald Reagan

"The present system may be flawed, but that's not to say that we in Congress can't make it worse."

-Rep. E. Clay Shaw, Jr. (R-FL)

"Is the country still here?" -Calvin Coolidge, waking from a nap

"We've killed health care; now we've got to make sure our fingerprints aren't on it."

-Sen. Bob Packwood (R-OR), in 1994, on the GOP blocking Clinton's

health-care reforms

"Ambiguously definitive-or is it definitively ambiguous?"

-Sen. Bill Bradley, on being unclear about his presidential ambitions

"It's no exaggeration to say that the undecideds could go one way or another." -George H. W. Bush

"We didn't get the pay raise-why work?"

-Bob Dole, in 1989, on the slow pace of Senate activity

"Welcome to President Clinton, Mrs. Clinton, and my fellow astronauts."

-Al Gore, 1998



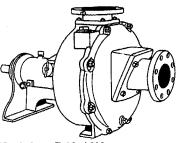


B40 SELF-PRIMING PUMPS UNIVERSAL DRIVE

BARNES®

B40

SELF-PRIMING PUMPS Universal Drive



B40-10X Model:

B40-9H B40-9D

B40-8F

Description:

SELF-PRIMING CENTRIFUGAL PUMPS DESIGNED FOR MUNICIPAL AND INDUSTRIAL APPLICATIONS.

Specifications:

SUCTION/DISCHARGE: LIQUID TEMPERATURE: VOLUTE/WEARPLATE:

CASE: END COVER: SEAL PLATE: PEDESTAL: IMPELLER:

Design: Material:

IMPELLER SHAFT: SQUARE RINGS: HARDWARE: PAINT: SEAL:

Design: Lubrication:

Material: BEARING-PUMP END:

Design: Lubrication: Load: BEARING-DRIVE END:

Design: Lubrication Load:

CHECK VALVE

Material

4" (102mm) x 4" (102mm) 125lb. Flange. 160°F (71°C) Continuous. Cast Iron ASTM A-48, Class 30, Replaceable, External Clearance

Adjustment. Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48, Class 30. Alloy Steel, Replaceable, Cast Iron ASTM A-48, Class 30.

Semi-Open Type, Passes 1" Solids Cast Iron ASTM A-48, Class 30. Dynamically Balanced, ISO G6.3.

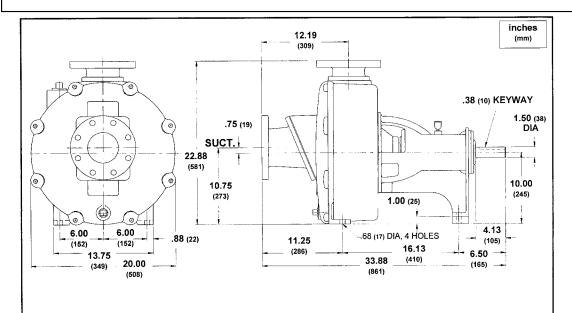
Corrosion Resistant Steel. Air Dry Enamel. Single Mechanical Grease, with Self-Feeding Lubricator. Rotating Face - Carbon Stationary Face - Ceramic

Elastomer - Buna-N Hardware - 300 Series Stainless Double Row, Ball

Oil Radial & Thrust Single Row, Ball Radial & Thrust

Flhow-Cast Iron ASTM A-48 Class 30 Valve Flap-Neoprene.
Weight-Cast Iron ASTM A-48, Class 30

OPTIONAL EQUIPMENT: Seal Materials, Case Heater, Stainless Hardware; High Temperature Control; Flex Coupled Assy. with Base & OSHA Guard; Right Hand V-Belt Drive Assy., Left Hand V-Belt Drive Assy, and In-Line Vertical V-Belt Drive Assy, with Base, Motor Adjusting Base & OSHA Guard.



MODEL NO.	PART NO.	WEIGHT NET LBS.	
B40-10X	4COYD-0010X-001	340	
B40-9H	4COYD-0009H-001	340	
B40-9D	4COYD-0009D-001	340	
B40-8F	4COYD-0008F-001	340	

IMPORTANT!

TO NOT USE FOR PUMPING FLUIDS WITH A FLASH POINT OF LESS THAN 100°F.

MAKE CERTAIN THAT PUMP AND/OR MOTOR ASSEMBLY AND CONTROLS HAVE THE APPROPRIATE RATINGS FOR THE GIVEN APPLICATION
AREA CLASSIFICATION. (ie DIVISION I, AGENCY LISTING ETC.)

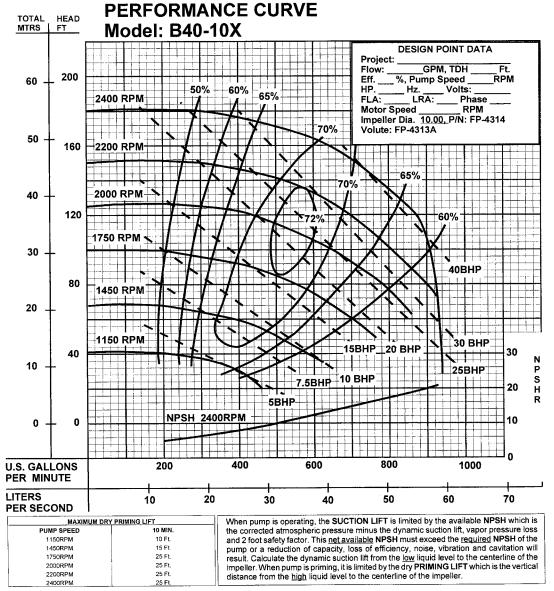
brtmarine.com







B40-10XSELF-PRIMING PUMPS UNIVERSAL DRIVE



Testing is performed with water, specific gravity of 1.0 @ 68° F, other fluids may vary performance

It's a Weird, Weird World!

TERRORIST VOGUE

"Carlos the Jackal was one of the world's most notorious and elusive terrorists, accused of 83 deaths worldwide and more than *a* dozen other charges stemming from a 20-year killing spree.

"After two decades of evading the law, he was arrested in a Sudanese hospital while undergoing liposuction and a tummy tuck." —San Francisco Chronicle

NOSING AROUND

"Ruth Clarke, 23, of London, England, underwent surgery to correct a lifelong breathing problem in 1981. She was presented with a tiddlywink, which doctors had removed from her nose.

"Clarke vaguely recalled losing the disk as a tot, but she didn't dream it was right under her nose all the time."

-Encyclopedia Brown's Book of Strange Facts

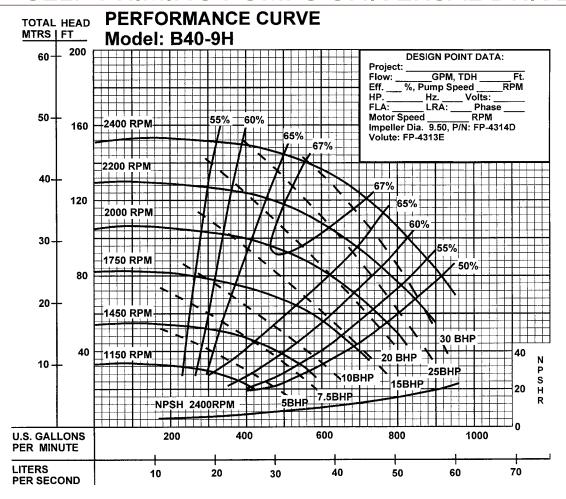
THE POSTMAN RINGS MORE THAN TWICE

"From 1974 to 1976, a young man in Taiwan wrote 700 love letters to his girlfriend, trying to talk her into marriage. He succeeded-she married the mailman who delivered the letters to her." *Weird News and Strange Stories*





B40-9HSELF-PRIMING PUMPS UNIVERSAL DRIVE



MAXIMUM DR	Y PRIMING LIFT
PUMP SPEED	10 MIN.
1150RPM	10 Ft.
1450RPM	15 Ft.
1750RPM	20 Ft.
2000RPM	25 Ft.
2200RPM	25 Ft.
2400RPM	25 Ft.

When pump is operating, the SUCTION LIFT is limited by the available NPSH which is the corrected atmospheric pressure minus the dynamic suction lift, vapor pressure loss and 2 foot safety factor. This <u>net available</u> NPSH must exceed the <u>required</u> NPSH of the pump or a reduction of capacity, loss of efficiency, noise, vibration and cavitation will result. Calculate the dynamic suction lift from the <u>low</u> liquid level to the centerline of the impeller. When pump is priming, it is limited by the dry PRIMING LIFT which is the vertical distance from the <u>high</u> liquid level to the centerline of the impeller.

Testing is performed with water, specific gravity of 1.0 @ 68° F, other fluids may vary performance

WORD ORIGINS

EAVESDROP

Meaning: Secretly listen to someone else's conversation

Origin: "In Anglo-Saxon England, a house had very wide overhanging eaves ... to allow rain to drip safely away from the house's foundation. So the eavesdrip, later the *eavesdrop*, provided a place where one could hide to listen clandestinely to conversation within the house." (From Morris Dictionary *of Word* and Phrase Origins, by William and Mary Morris)



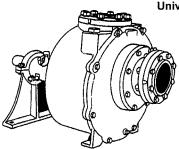


B60 SELF-PRIMING PUMPS UNIVERSAL DRIVE

BARNES®

B60

SELF-PRIMING PUMPS **Universal Drive**



B60-12X Model:

B60-11H

B60-11X

B60-10L

Description:

SELF-PRIMING CENTRIFUGAL PUMPS DESIGNED FOR MUNICIPAL AND INDUSTRIAL APPLICATIONS.

Specifications:

SUCTION/DISCHARGE: LIQUID TEMPERATURE: VOLUTE/WEARPLATE:

CASE: END COVER: SEAL PLATE: PEDESTAL: IMPELLER:

Design: Material:

IMPELLER SHAFT: SQUARE RINGS: HARDWARE:

PAINT: SEAL:

Design: Lubrication: Material:

Design: Lubrication: Load:

BEARING-PUMP END:

BEARING-DRIVE END: Design. Lubrication.

Load: CHECK VALVE:

Material:

6" (152mm) x 6" (152mm) 125lb. Flange. 160°F (71°C) Continuous. Cast Iron ASTM A-48, Class 30, Replaceable, External Clearance

Adjustment. Cast Iron ASTM A-48. Class 30. Cast Iron ASTM A-48, Class 30. Alloy Steel, Replaceable. Cast Iron ASTM A-48, Class 30.

Semi-Open Type, Passes 1-1/2" Solids. Cast Iron ASTM A-48, Class 30. Dynamically Balanced, ISO G6.3.

Buna-N Corrosion Resistant Steel.

Air Dry Enamel. Single Mechanical

Grease, with Self-Feeding Lubricator. Rotating Face - Carbon

Stationary Face - Ceramic Elastomer - Buna-N Hardware - 300 Series Stainless

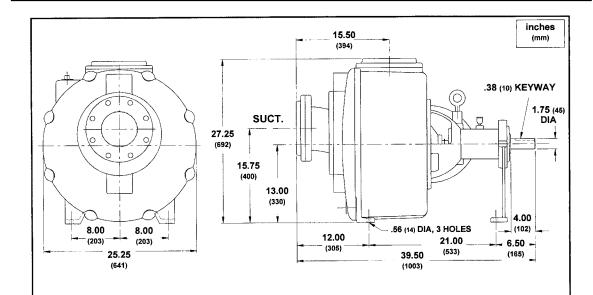
Single Row, Ball Radial & Thrust

Single Row, Ball

Radial & Thrust

Elbow-Cast Iron ASTM A-48, Class 30 Valve Flap-Neoprene. Weights-Cast Iron ASTM A-48, Class 30 Seal Materials, Case Heater, Stainless

OPTIONAL EQUIPMENT: Hardware; High Temperature Control; Flex Coupled Assy, with Base & OSHA Guard; Right Hand V-Belt Drive Assy., Left Hand V-Belt Drive Assy, and In-Line Vertical V-Belt Drive Assy, with Base, Motor Adjusting Base & OSHA Guard



MODEL NO.	PART NO.	WEIGHT NET LBS.	
B60-12X	6COZD-0012X-001	585	
B60-11H	6COZD-0011H-001	585	
B60-11X	6COZD-0011X-001	585	
B60-10L	6COZD-0010L-001	585	

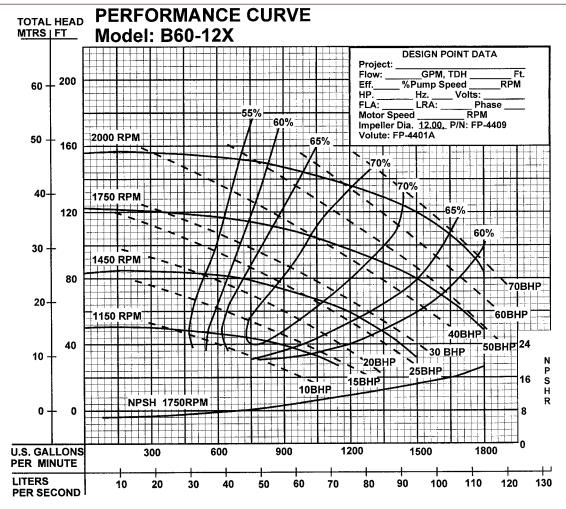
TO NOT USE FOR PUMPING FLUIDS WITH A FLASH POINT OF LESS THAN 100°F.

MAKE CERTAIN THAT PUMP AND/OR MOTOR ASSEMBLY AND CONTROLS HAVE THE APPROPRIATE RATINGS FOR THE GIVEN APPLICATION AREA CLASSIFICATION. (ie DIVISION I, AGENCY LISTING ETC.)





B60-12X SELF-PRIMING PUMPS UNIVERSAL DRIVE



MAXIMUM DRY PRIMING LIFT				
PUMP SPEED	10 MIN.			
1150RPM	20 Ft.			
1450RPM	25 Ft.			
1750RPM	25 Ft.			
2000RPM	25 Ft.			
2250RPM	25 Ft.			

When pump is operating, the SUCTION LIFT is limited by the available NPSH which is the corrected atmospheric pressure minus the dynamic suction lift, vapor pressure loss and 2 foot safety factor. This <u>net available</u> NPSH must exceed the <u>required</u> NPSH of the pump or a reduction of capacity, loss of efficiency, noise, vibration and cavitation will result. Calculate the dynamic suction lift from the <u>low</u> liquid level to the centerline of the impeller. When pump is priming, it is limited by the dry PRIMING LIFT which is the vertical distance from the <u>high</u> liquid level to the centerline of the impeller.

Testing is performed with water, specific gravity of 1.0 @ 68° F, other fluids may vary performance

TAX BITES

Car Rentals

As part of the trend toward exporting a state or local tax burden, car rental taxes are increasingly popular with lawmakers concerned about taxing their voting constituents. Although studies have shown that more than half of cars are rented by local consumers, the notion that taxing rental cars is taxing tourists is pervasive on the state and local level. In fact, the number of car rental excise taxes has nearly doubled in the last decade with taxes in 110 localities in 43 states and Washington, D.C.

Local excise taxes and other charges imposed by states and municipalities have added 26 percent, or \$13.70 to the average \$52.71 rental car bill. However, this doesn't include the full tax burden included in the cost of renting a car. When taking into account taxes including federal and state income taxes, federal payroll taxes, sales taxes, unemployment insurance taxes, workmen's compensation taxes, business license taxes and fees, utility taxes, local property taxes, and any local income taxes, the total cost rises to 60.6 percent of the bill.

All told, whether you are a tourist or a resident, renting that car for \$52.71, will cost you \$31.94 in taxes and fees.



800-725-3787



PO2LA

SELF-PRIMING PUMPS SOLIDS HANDLING UNIVERSAL DRIVE

BARNES®

Specifications:

SUCTION/DISCHARGE: LIQUID TEMPERATURE: VOLUTE/WEARPLATE:

2" (51mm) x 2" (51mm) NPT, Female. 160°F (71°C) Continuous. Cast Iron ASTM A-48, Class 30, Replaceable, External Clearance Adjustment.
Cast Iron ASTM A-48, Class 30.

Cast Iron ASTM A-48, Class 30.

CASE: END COVER: Cast Iron ASTM A-48, Class 30. Full Diameter, Removable. SEAL PLATE: Alloy Steel: Replaceable

PEDESTAL: IMPELLER:

Design: Material:

Two Vane, Open. Cast Iron ASTM A-48, Class 30. Dynamically Balanced, ISO G6.3. SHAFT: High Carbon Steel SQUARE RINGS: HARDWARE: Buna-N Corrosion Resistant Steel.

PAINT: Lubrication:

Corrosion Resistant Steel.
Air Dry Enamel.
Single Mechanical
Grease, with Self-Feeding Lubricator.
Rotating Face - Carbon
Stationary Face - Ceramic Material: Elastomer - Buna-N Hardware - 300 Series Stainless

BEARING-PUMP END:

Design: Lubrication: Single Row, Ball Oil Radial & Thrust Load.

BEARING-DRIVE END Single Row, Ball Design: Lubrication: Load: Radial & Thrust

CHECK VALVE:

Material:

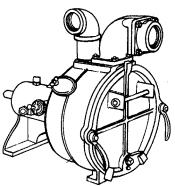
Elbow-Cast Iron ASTM A-48, Class 30

Valve Flap-Neoprene.
Weight-Cast Iron ASTM A-48,Class 30
Seal Materials, Case Heater, Stainless

OPTIONAL EQUIPMENT: Hardware; High Temperature Control; Flex Coupled Assy. with Base & OSHA Guard; Right Hand V-Belt Drive Assy. and Left Hand V-Belt Drive Assy. with Unit Base, Motor Adjusting Base & OSHA Guard.

PO2LA

SELF-PRIMING PUMPS Solids Handling Universal Drive 1-1/4" Spherical Solids Handling



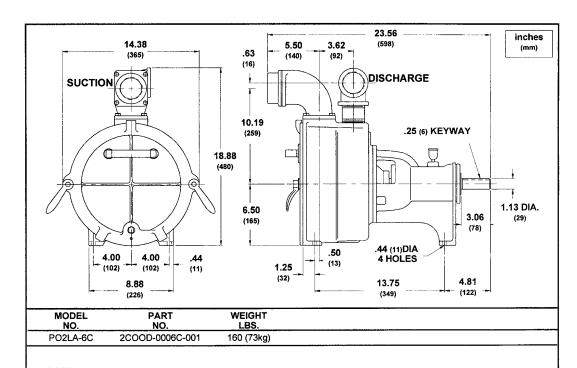
Model: PO2LA-6C



American Bureau of Shipping Certificate No. 01-HS238523B/1-PDA

Description:

SELF-PRIMING CENTRIFUGAL SOLIDS HANDLING PUMPS DESIGNED FOR MUNICIPAL AND INDUSTRIAL APPLICATIONS.





IMPORTANT!

1.) <u>DO NOT</u> USE FOR PUMPING FLUIDS WITH A FLASH POINT OF LESS THAN 100°F

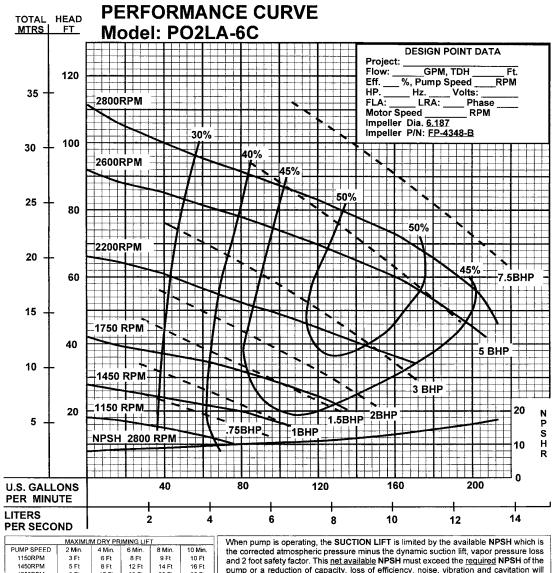
2.) MAKE CERTAIN THAT PUMP AND/OR MOTOR ASSEMBLY AND CONTROLS HAVE THE APPROPRIATE RATINGS FOR THE GIVEN APPLICATION AREA CLASSIFICATION. (Ie DIVISION I, AGENCY LISTING ETC.)





PO2LA-6C

SELF-PRIMING PUMPS SOLIDS HANDLING UNIVERSAL DRIVE



MAXIMUM DRY PRIMING LIFT								
PUMP SPEED	2 Min.	4 Min.	6 Min.	8 Min.	10 Min.			
1150RPM	3 Ft	6 Ft	8 Ft	9 Ft	10 Ft			
1450RPM	5 Ft	8 Ft	12 Ft	14 Ft	16 Ft			
1750RPM	9 Ft	17 Ft	22 Ft	23 Ft	25 Ft			
2200RPM	17 Ft	25 Ft	25 Ft	25 Ft	25 Ft			
2600RPM	25 Ft							
2800RPM	25 Ft							

and 2 foot safety factor. This <u>net available NPSH</u> must exceed the <u>required</u> NPSH of the pump or a reduction of capacity, loss of efficiency, noise, vibration and cavitation will result. Calculate the dynamic suction lift from the low liquid level to the centerline of the impeller. When pump is priming, it is limited by the $\overline{\text{dry}}\, \overline{\text{PRIMING LIFT}}$ which is the vertical distance from the high liquid level to the centerline of the impeller

Testing is performed with water, specific gravity of 1.0 @ 68° F, other fluids may vary performance.

WORD ORIGINS

SNOB

Meaning: A snooty person; someone who puts on airs

Origin: "It seems that Oxford freshmen were required to register 'according to rank.' Those not of noble birth added after their names the phrase sine nobilitate which was then abbreviated to `s. nob.,' thus creating ... a perfect definition for the commoner who wishes to mingle with the nobles." (From Dictionary of Word and Phrase Origins, Vol. III by William and Mary Morris)





PO3LA, PO3LB

SELF-PRIMING PUMPS SOLIDS HANDLING UNIVERSAL DRIVE

BARNES

PO3LA, PO3LB SELF-PRIMING PUMPS

Solids Handling Universal Drive 1.5"- 2.5" Spherical Solids Handling Larger sizes available

Specifications:

SUCTION/DISCHARGE: LIQUID TEMPERATURE:

3" (76mm) x 3" (76mm) 125lb. Flange. 160°F (71°C) Continuous. SOLIDS HANDLING:

1.50" Sperical 2.50" Sperical Cast Iron ASTM A-48, Class 30,

VOLUTE/WEARPLATE: Replaceable, External Clearance Adjustment

Cast Iron ASTM A-48, Class 30. Cast Iron ASTM A-48, Class 30. CASE: END COVER: Full Diameter, Removable.
Alloy Steel; Replaceable
Cast Iron ASTM A-48, Class 30. SEAL PLATE: PEDESTAL:

Two Vane, Open. Ductile Iron ASTM A-395. Dynamically Balanced, ISO G6.3. Design:

SHAFT: SHAFT SLEEVE: SQUARE RINGS: High Carbon Steel 316 Stainless Steel Buna-N Corrosion Resistant Steel. Air Dry Enamel. HARDWARE: PAINT:

Single Mechanical
Grease, with Self-Feeding Lubricator.
Rotating Face - Carbon
Stationary Face - Ceramic
Elastomer - Buna-N Design: Lubrication: Material

Hardware - 300 Series Stainless

BEARING-PUMP END: Single Row, Ball Design: Lubrication:

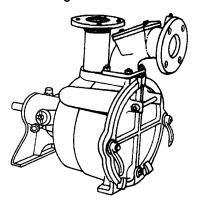
Radial & Thrust Load:

BEARING-DRIVE END: Single Row, Ball Design: Lubrication:

Load: CHECK VALVE: Radial & Thrust

Elbow-Cast Iron ASTM A-48, Class 30 Material Valve Flap-Neoprene. Weight-Cast Iron ASTM A-48,Class 30

vveignt-Cast Iron ASTM A-48, Class 30
OPTIONAL EQUIPMENT:
Hardware; High Temperature Control: Flex Coupled Assy. with Base &
OSHA Guard; Right Hand V-Belt Drive Assy., Left Hand V-Belt Drive
Assy. and In-Line Vertical V-Belt Drive Assy. with Base, Motor Adjusting
Base & OSHA Guard.



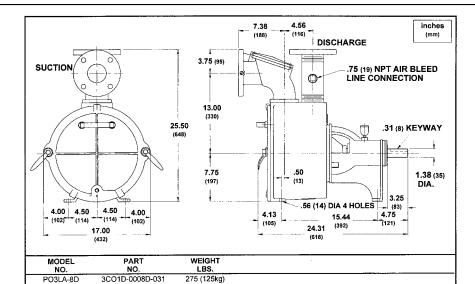
Models: PO3LA-8D PO3LA-7B PO3LB-7B*



American Bureau of Shipping Certificate No. 01-HS238523B/1-PDA

Description:

SELF-PRIMING CENTRIFUGAL SOLIDS HANDLING PUMPS DESIGNED FOR MUNICIPAL AND INDUSTRIAL APPLICATIONS.



PO3LA-7B

PO3LB-7B

IMPORTANT!

3CO1D-0007B-031

3CO3D-0007B-031

IPOR LANT !

DO NOT USE FOR PUMPING FLUIDS WITH A FLASH POINT OF LESS THAN 100°F.

MAKE CERTAIN THAT PUMP ANDIOR MOTOR ASSEMBLY AND CONTROLS HAVE THE APPROPRIATE RATINGS FOR THE GIVEN APPLICATION
AREA CLASSIFICATION. (© DIVISION I, AGENCY LISTING ETC.)

275 (125kg)

305 (138kg)

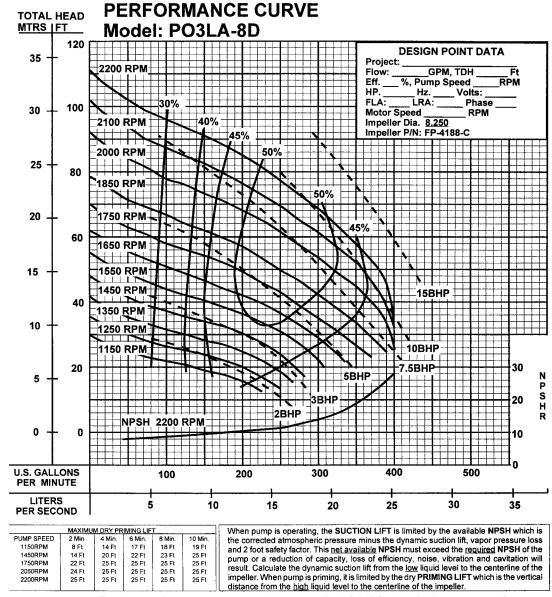




BR

PO3LA-8D

SELF-PRIMING PUMPS SOLIDS HANDLING UNIVERSAL DRIVE



Testing is performed with water, specific gravity of 1.0 @ 68° F, other fluids may vary performance.

FAMILIAR PHRASES

WIN HANDS DOWN

Meaning: To win by an enormous margin.

Origin: If a racehorse jockey is so far ahead of the competition that there is no danger he will be passed again, he can drop the reins—and his hands-and let the horse finish the race without spurring it on.

BAKER'S DOZEN

Meaning: Thirteen—one more than a dozen.

Origin: In the Middle Ages, bakers who sold loaves of bread that were lighter than the legal weight were subjected to harsh penalties. To prevent being accused of cheating on the weight, bakers would often give away an extra loaf with every dozen.



