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DADANT M00539S HONEY PUMP



Belt Guard

A belt guard is included.

Motor

1 h.p. 120 volt or 240
volt capacitor start motor.

Variable Pumping Speeds

Speeds from 500 RPM
(3 gallons per minute) up to
800 RPM (6 gallons per minute)

1 ½ " Roper Gear Pump

Specifically manufactured for
liquids like honey.

2 Variable Speed Pulleys

Variable speed pulleys allow you
to change the pumping speeds by
adjusting the pulley sizes.

*****See charts inside for more details.*****

Your Dadant Honey Pump is an extremely high quality pump, and it will provide years of trouble-free service if "cared for" as all pumps should. This unit was specifically designed to handle "thick" liquids such as honey, fructose, etc.

Honey pumping conditions vary widely with temperature and moisture content. Your pump as packed rotates at approximately 750 rpm and delivers approximately 4 ½ -5 gallons of honey per minute. The unit as shipped should be adequate for most honey pumping applications; however, for widely varying conditions, the user may change pulley ratios to obtain desired results.

To assure good pump service, note the following:

1. Be sure to connect your hoses to the proper port. (See diagram inside.) They are labeled on the pump.
2. Always make air-tight connections. The slightest air leak can cause aeration of honey, pump to not prime itself, etc. A second hose clamp often proves

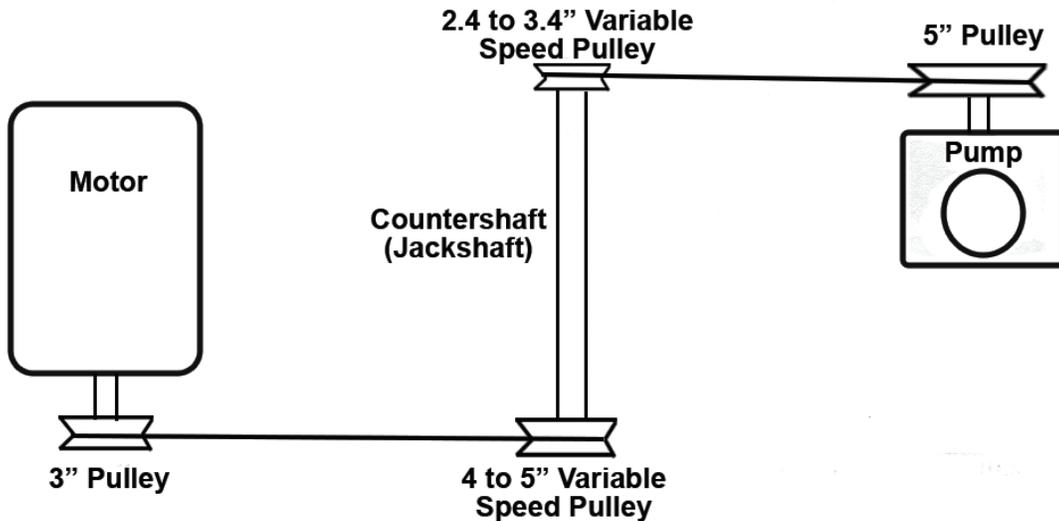
to be the difference between excellent and poor operation.

3. Always clean and lubricate the pump. Flush with hot water and use a small amount of food-approved lubricant on the pump gears if the pump is not to be used for an extended period of time. Motor failure can be caused by allowing honey to "freeze" the pump gears.
4. Always use a supply line (inlet) at least as large or larger than the pump inlet. (1 1/2" or larger)
5. Check your pumping unit before you install it.
 - a. The pump should be turned by hand before applying power. (If it does not turn, do not apply power.)
 - b. Check belt condition and tension.
 - c. Be sure the pump is turning in the proper direction. (See diagram inside.)

Features

1. The pump bearings are lubricated by the liquid being pumped.
2. The pump can be successfully used to pump "thick" liquid at speeds up to 1,750 rpm's.
3. The pump shaft is keyed to provide positive pulley drive.
4. Long lived helical gears with close tolerances.
5. Quiet operation.
6. Positive displacement external gear pump.

Adjusting the variable speed pulleys for the pumping volume needed.



The countershaft (jackshaft) has a variable speed pulley on each end. A 4-5" pulley is on the motor side of the countershaft. A 2.4-3.4" pulley is on the pump side of the countershaft.

Following are four options using these variable speed pulleys.

1. When the pulley on the motor side of the counter shaft is 4" (it's smallest adjustable size) and a 2.4" (it's smallest adjustable size) is used on the pump end, you get 620 RPM (4 GPM).
2. When the pulley on the motor side of the counter shaft is 4" (it's smallest adjustable size) and a 3.4" (it's largest adjustable size) is used on the pump end, you get 880 RPM (6 GPM).
3. When the pulley on the motor side of the counter shaft is 5" (it's largest adjustable size) and a 2.5"

(it's smallest adjustable size) is used on the pump end, you get 500 RPM (3 GPM).

4. When the pulley on the motor side of the counter shaft is 5" (it's largest adjustable size) and a 3.4" (it's largest adjustable size) is used on the pump end, you get 700 RPM (5 GPM).

If you want to go to a smaller pulley on the motor (1½"), you can reduce the RPM's to 250 (1½ GPM). The pulley must be physically changed. A 1½" pulley is not supplied with the pump (if very slow pumping is desired, i.e. honey dryer).

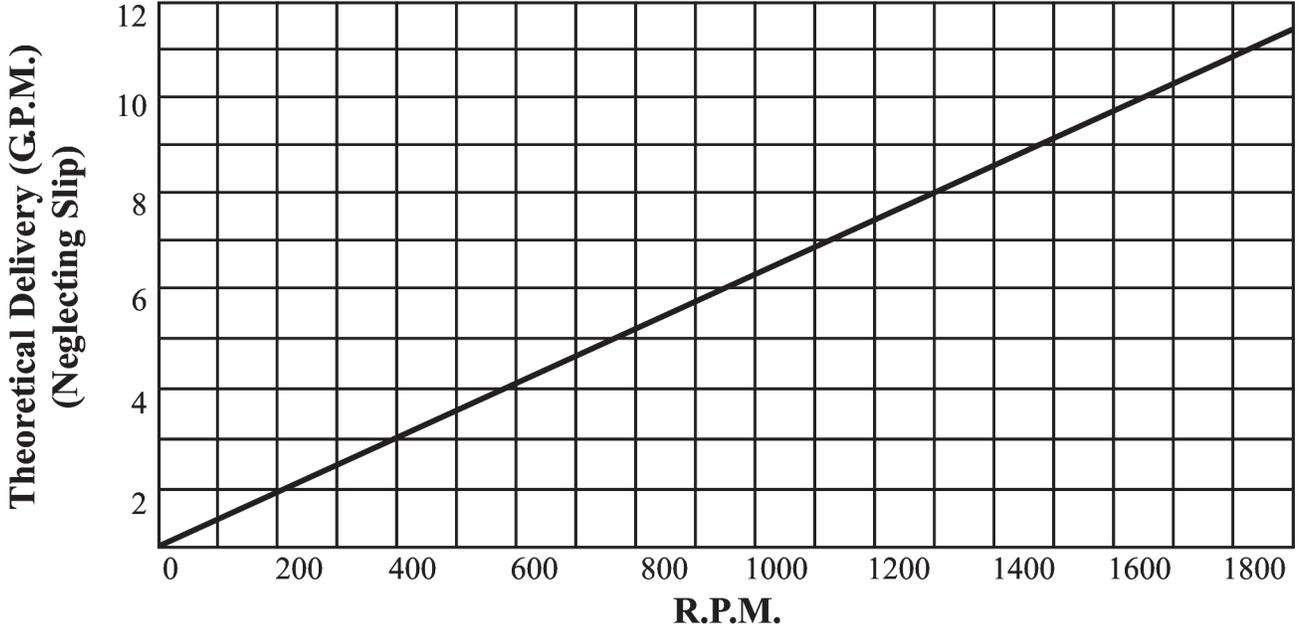
Note: *These pumping speeds and gallons-per-minute are close approximations, but may vary slightly due to many variables in different operating situations. See the chart on the following page.*

Replacement Parts for M00539 Honey Pump

| Part Number` | Description | Part Number` | Description |
|--------------|-----------------------------------|--------------|--------------------|
| 03-50544 | Replacement 1-1/2" Roper Pump | 03-50603 | 5" Pulley |
| DC426 | Packing Set for 1-1/2" Roper Pump | 03-50606 | 3" Pulley |
| DC429 | O-Ring for Roper Pump | 03-50604 | Variable Pulley |
| 03-50078 | 5/8" Flanged Bearing | 03-50510 | 3.7 VP Cast Pulley |
| 03-50582 | 1 HP Motor | 03-50125 | 28" Cog Belt |

Delivery: Gallons Per Minute at Corresponding Pump R.P.M.'s
 Total Delivery in G.P.M.=Graph I - Graph II

Graph I



Graph II

