

# Roper Liquid Feed Molasses Pump



Roper's 2835 rotary pump is built for pumping highly viscous, molasses-based liquid feed supplements. The external helical gear design, combined with extra large ports, allows the 2835 pump to handle even winter-thickened feed supplements with ease. Highly viscous feed can be pumped at speeds of up to 1,800 RPM.

Roper's helical gears, the only moving parts in the pump, assure quiet, smooth operation. Bearings in the Roper 2835 pump are lubricated by the liquid being pumped. Each pump is manufactured to close

tolerances, then individually tested to assure dependable performance.

The Roper 2835 pump allows complete installation flexibility by eliminating the need for risers in direct-coupled applications. When assembled in the high drive configuration, the pump's drive shaft aligns with a NEMA frame 56, 143T electrical motor shaft. When assembled for low drive, the pump's drive shaft aligns with a NEMA frame 48 electrical motor.

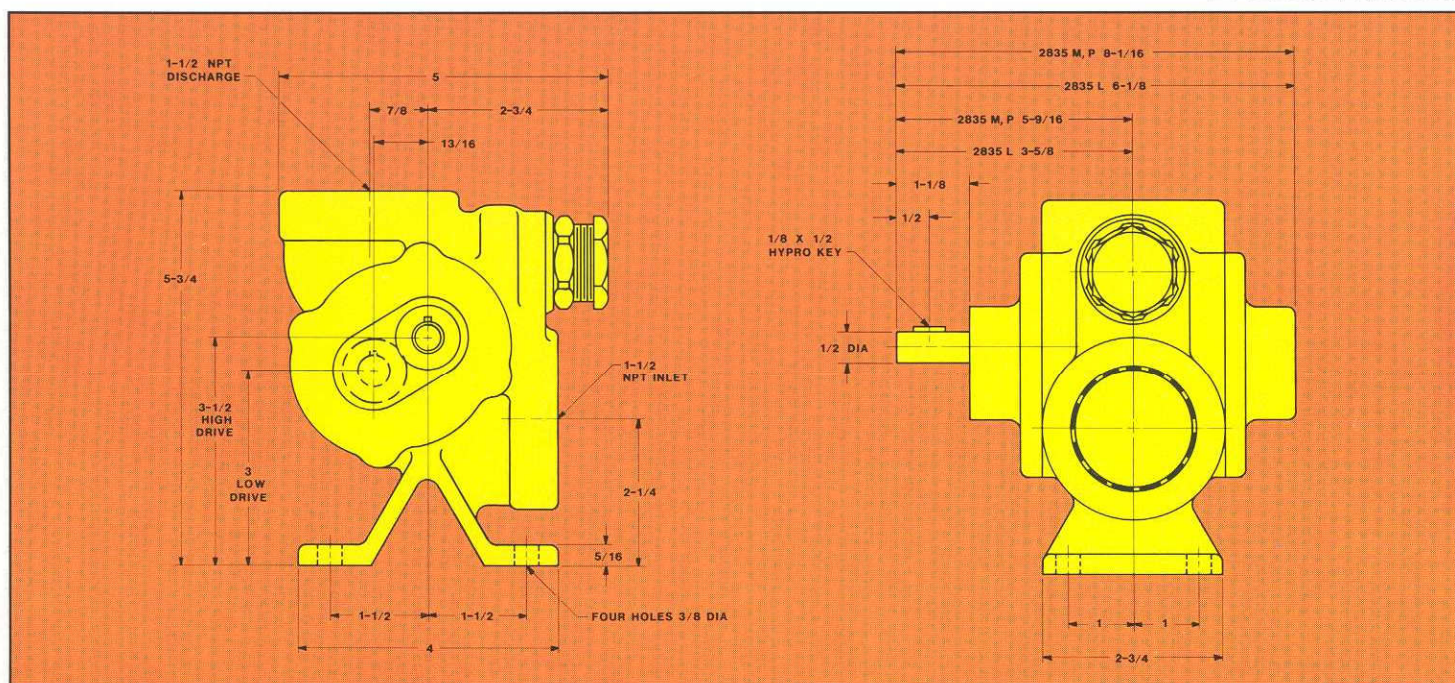
Contact Roper Pump Company or your local Roper distributor for more information.

## Advantages

- Angled gear arrangement pumps viscous feed supplements easily.
- Enlarged ports facilitate pumping.
- Capacities up to 12 GPM; pressures to 75 psi; displacement 0.006 GPR. Larger capacity pumps for up to 1,000 GPM are available.
- Low horsepower requirements allow use of low-cost drivers.
- Directly couples to standard electrical motor.
- Operates at standard motor speeds for viscosities up to 100,000 SSU.
- Built-in relief valve helps to protect pump from excessive discharge pressure.
- May be driven by a gasoline engine.



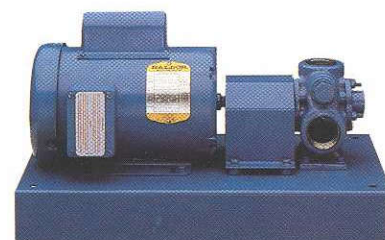
# Dimensions



## Baseplate Units

### BASE MOUNTED UNITS

These pumps are available ready to install or as completely assembled pump and driver packages, custom designed and built to individual specifications.



## Performance Chart

| PSI |     | 1800 RPM |      |        |         | 1200 RPM |      |        |         |
|-----|-----|----------|------|--------|---------|----------|------|--------|---------|
|     | SSU | 100      | 1000 | 10,000 | 100,000 | 100      | 1000 | 10,000 | 100,000 |
| 25  | GPM | 11       | 11.4 | 11.5   | 11.5    | 7.2      | 7.5  | 7.6    | 7.6     |
|     | HP  | .28      | .40  | .63    | 1.18    | .15      | .22  | .32    | .57     |
| 50  | GPM | 10.5     | 11.3 | 11.4   | 11.5    | 6.6      | 7.4  | 7.5    | 7.6     |
|     | HP  | .44      | .56  | .79    | 1.34    | .26      | .33  | .43    | .68     |
| 75  | GPM | 10       | 11.2 | 11.3   | 11.4    | 6.1      | 7.3  | 7.4    | 7.5     |
|     | HP  | .60      | .72  | .95    | 1.5     | .39      | .46  | .56    | .81     |

Additional sizes available

## Materials Chart

|          | HOUSING   | GEARS          | BEARINGS | SHAFTS         |
|----------|-----------|----------------|----------|----------------|
| STANDARD | Cast Iron | Hardened Steel | Iron     | Hardened Steel |



Roper Pump Company  
Commerce, Georgia 30529  
Dependable pumps since 1857.  
WATS 1-800-543-1709  
In GA. (404) 335-5551  
FAX (404) 335-5505