

## Technical Information:

**Date:** June 21<sup>st</sup> 2004  
**Subject:** DC / AC Low Voltage Options  
**Product:** GALA / BETA Pumps  
**Category:** Identcode Options - Low Voltage  
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The solenoid pump Gala and Beta series are available with a low voltage option. This option is ordered through the identcode. The following electrical information is important to the customers who would use this pump and need to know electrical details for battery selection / power consumption.

### Electrical Data

| Pump Type                             | Beta 4 Gala<br>M70 Solenoid | Beta 5 Gala<br>M85 Solenoid | Beta 4 Gala<br>M70 Solenoid | Beta 5 Gala<br>M85 Solenoid |
|---------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| <b>Supply Range</b>                   | 12 .. 24 VDC<br>-8% / + 24% | 24 VDC<br>-15% / + 24%      | 24 VAC<br>-15% / +10%       | 24 VAC<br>-15% / +10%       |
| <b>Identcode</b>                      | “ M “                       | “ N “                       | “ P “                       | “ P “                       |
| <b>Rated Output</b>                   | 17W                         | 20 W                        | 18 W                        | 21 W                        |
| <b>Rated Current</b><br>(Ave 180 SPM) | 3.1 ...1.4 A                | 1.8 A                       | 2.2 A                       | 2.6 A                       |
| <b>Peak Current</b>                   | 10.2 ... 4.3 A              | 6.0 A                       | 7.5 A                       | 9.2 A                       |
| <b>Idle Current</b><br>( 0 SPM )      | 128 ..70 mA                 | 70 mA                       | 103 mA                      | 103 mA                      |
| <b>Fuse</b>                           | 5 AT                        | 5 AT                        | 5 AT                        | 5 AT                        |

Fuse Part # 712028

M 70 Solenoid = 1000, 1601, 1602, 1005, 0708, 0413, 0220

M 85 Solenoid = 1605, 1008, 0713, 0420, 0232

For the 12 – 24 VDC versions, the supply voltage must not drop below 11 V for 12 V version or 20 V for 24 V versions at the time of pump stroke otherwise the pump can lose its performance ( capacity at back pressure )

Do not connect any of the pumps to voltage supplies greater than 30 V or the pump electronics can get damaged.

The polarity of the DC version pumps is fixed, if the wrong connection is done the pump will not operate due to the polarity reversal protection which will not allow current to flow.