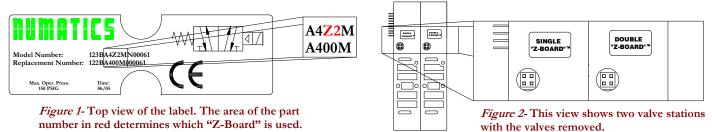


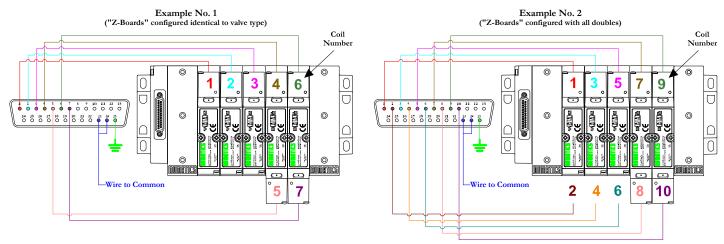
Electrical Interface Wiring Data Sheet

1) Manifold Configuration

Double solenoid valves always consume two solenoid outputs, while single solenoid valves consume either one or two solenoid outputs depending on the internal circuit board (Single or Double "Z-Board"). There are two different methods for determining if the manifold block has a single or double "Z-board". The first method is to view the label on the valve manifolds. In Figure 1 below, the digits in red show the user which "Z-Board" is being used. If the digits are Z1 or Z5, then there is a single "Z-Board" within the manifold. If the digits are Z2 or Z6, then there is a double "Z-Board" within the manifold. If these digits are both zero, then the second method must be used. The second method is to view the label located under the valve. In Figure 2 below, the valves are removed from the manifold station to show the "Z-Board" labels.



The following examples show configurations using both a single and a double "Z-Board". The valve station adjacent to the electrical connector is considered the first output point.



2) Sub-D Cable Wire Colors

| Connector | Conductor | Connector | Conductor |
|-----------|--------------|-----------|------------------------------------|
| Pin 1 | Black | Pin 21 | Orange/Green |
| Pin 2 | White | Pin 22 | Black/White/Red or Brown/White |
| Pin 3 | Red | Pin 23 | White/Black/Red or Yellow/Black |
| Pin 4 | Green | Pin 24 | Red/Black/White or Violet/White |
| Pin 5 | Orange | Pin 25 | Green/Black/White or Gray/Black |
| Pin 6 | Blue | Pin 26 | Orange/Black/White or Yellow |
| Pin 7 | White/Black | Pin 27 | Blue/Black/White or Violet |
| Pin 8 | Red/Black | Pin 28 | Black/Red/Green or Gray |
| Pin 9 | Green/Black | Pin 29 | White/Red/Green or Pink |
| Pin 10 | Orange/Black | Pin 30 | Red/Black/Green or Light Green |
| Pin 11 | Blue/Black | Pin 31 | Green/Black/Orange or Orange/White |
| Pin 12 | Black/White | Pin 32 | Orange/Black/Green or Pink/Black |
| Pin 13 | Red/White | Pin 33 | Blue/White/Orange or Pink/Green |
| Pin 14 | Green/White | Pin 34 | Black/White/Orange or Pink/Red |
| Pin 15 | Blue/White | Pin 35 | White/Red/Orange or Pink/Violet |
| Pin 16 | Black/Red | Pin 36 | Orange/White/Blue or Light Blue |
| Pin 17 | White/Red | Pin 37 | White/Red/Blue or Light Brown |
| Pin 18 | Orange/Red | Not Used | Black/White/Green |
| Pin 19 | Blue/Red | Not Used | White/Black/Green |
| Pin 20 | Red/Green | Not Used | Red/White/Green |



12 and 26 pole cables do not have color identification; each conductor is numbered the length of the cable.



Electrical Interface Wiring Data Sheet

3) Electrical Interface Pin-outs

