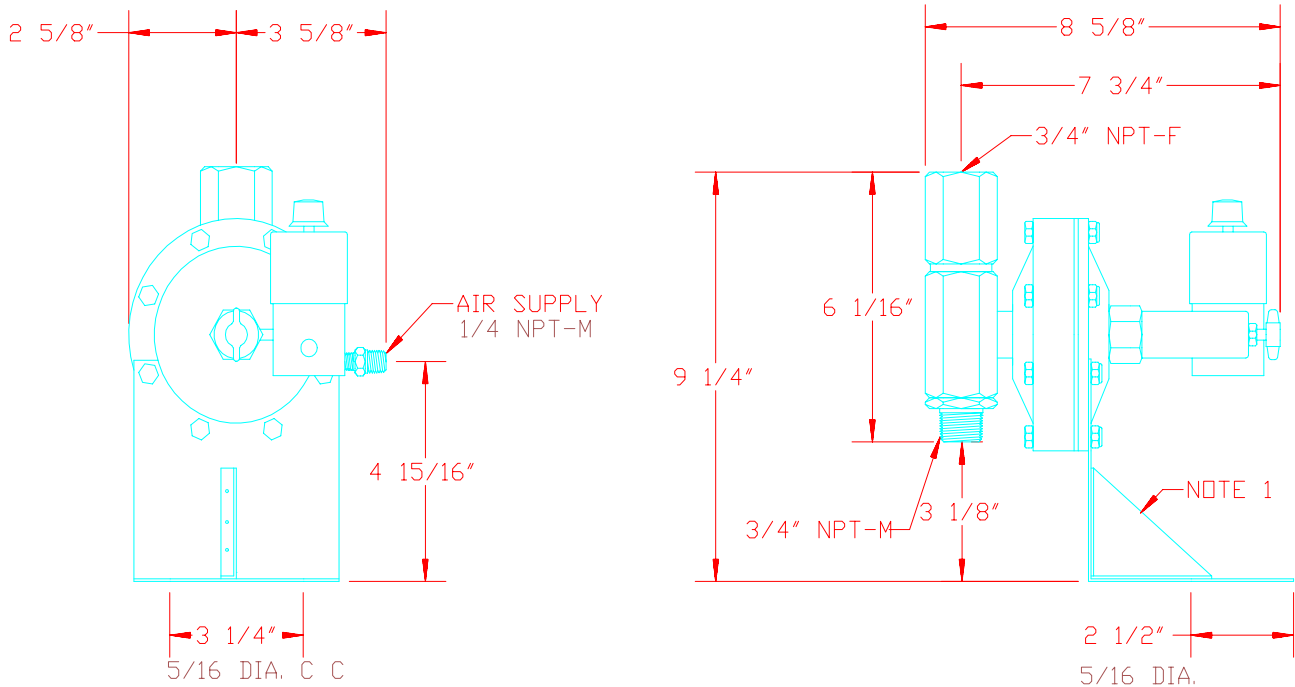


# MORGAN PRODUCTS

PNEUMATIC CHEMICAL PUMPS FOR THE GAS AND OIL INDUSTRIES

## MODEL D40-PVC-TR2

AIR ACTUATED POSITIVE DISPLACEMENT PUMP



NOTE:

1 MOUNTING BRACKET MAY BE REMOVED.

| MODEL<br>(WITH TIMER) | DISPLACEMENT | PUMP<br>RATIO | DIAPHRAGM<br>SIZE<br>in. - cm. | CONNECTIONS<br>ALL NPT<br>INPUT / OUTPUT | MAXIMUM<br>DISCHARGE<br>PSI - BAR | OUTPUT<br>PER HOUR<br>GAL. / LTS. |
|-----------------------|--------------|---------------|--------------------------------|--|-----------------------------------|-----------------------------------|
| D40-PVC-TR2           | 37.9 cc      | 1:1           | 4.0 / 10                       | 3/4 - M / 3/4 - F                        | 125 - 8.6                         | 3 - 30 / 11 - 114                 |

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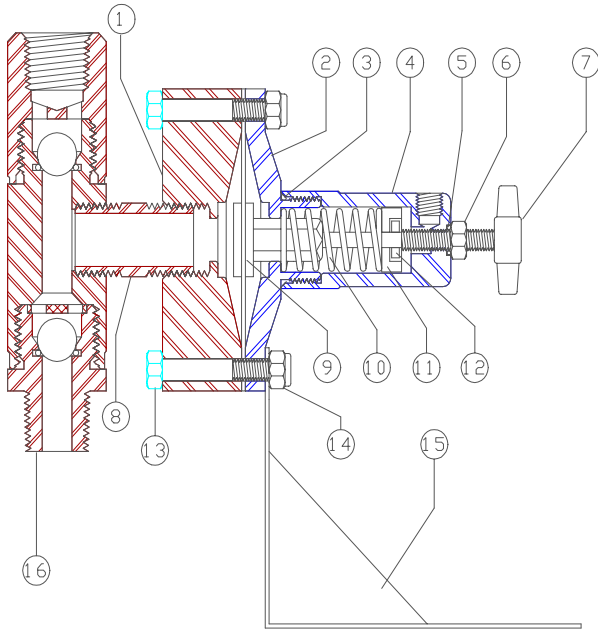
(805) 257-3022 - (800) 421-8910 - FAX (805) 257-3385

www.morganproducts.com - E-Mail info@morganproducts.com

# MORGAN PRODUCTS

PNEUMATIC CHEMICAL PUMPS FOR THE GAS AND OIL INDUSTRIES

## Parts List Model D10-PVC, D15-PVC, D25-PVC & D40-PVC



| No | Name               | D10         | D15       | D25         | D40        |
|----|--------------------|-------------|-----------|-------------|------------|
| 1  | Pressure Chamber   | D10-PVC-1   | D15-PVC-1 | D25-PVC-1   | D40-PVC-1  |
| 2  | Drive Chamber      | D10-2       | D15-2     | D25-2       | D40-2      |
| 3  | O-Ring Seal        | 50-21*      |           | 100-21*     |            |
| 4  | Spring Housing     | D15-3       |           | D25-3       | D40-3      |
| 5  | O-Ring Seal        | 100-11*     |           |             |            |
| 6  | Locknut            | 50-2        |           |             |            |
| 7  | Stroke Adjuster    | 50-1        |           |             |            |
| 8  | Nipple             | D15-PVC-11  |           | D25-PVC-11  | D40-PVC-11 |
| 9  | Diaphragm Assembly | D10-7*      | D15-7*    | D25-7*      | D40-7*     |
| 10 | Return Spring      | 50-13*      |           | D25-6*      | 250-13*    |
| 11 | Spring Retainer    | D15-5       |           | D25-5       |            |
| 12 | Retainer Pin       | D15-4       |           | D25-4       |            |
| 13 | Chamber Bolt       | D15-PVC-10+ |           | D40-PVC-10+ |            |
| 14 | Chamber Locknut    | D15-9+      |           | D40-9+      |            |
| 15 | Stand              | D10-13      | D15-13    | D25-13      | D40-13     |
| 16 | Check Valve        | D15-PVC-12  |           | D25-PVC-12  | D40-PVC-12 |
|    | Repair Kit         | D10-50      | D15-50    | D25-50      | D40-50     |

\* = Included in Repair Kit

+ = 6 ea. Required on D10, D15 & D25

8 ea. Required on D40

### Set-Up and Operation

1. Discard all red protective closures.
2. Connect the suction check valve (bottom) to the chemical source.
3. Connect the discharge check valve (top) to your process line.
4. Connect a regulated air/gas supply (150 psi maximum) to the timing relay.
5. Set the air/gas supply 10-15 psi higher than process line pressure.
6. Set cycle rate on the TR2 timing relay to get flow rate required. (see chart)

CAUTION: Do not use this pump with chemicals that become hazardous when aerated.

CAUTION: Check Valves will not stop flow of chemical supply. Install a shut off valve between pump and chemical source.

| MODEL NO.                  | D10-PVC            | D15-PVC              | D25-PVC               | D40-PVC               |
|----------------------------|--------------------|----------------------|-----------------------|-----------------------|
| Volume Per Stroke          | .3 oz - .8cc       | .2 oz - 6cc          | .7oz - 21cc           | 1.6 oz - 47cc         |
| Maximum Volume Per Day     | 15 ga. - 58 liters | 125 ga. - 473 liters | 400 ga. - 1514 liters | 720 ga. - 2725 liters |
| Maximum Stroke Rate        | 50 SPM             |                      |                       |                       |
| Maximum Design Pressure    | 250 PSI            |                      | 17.24 BAR             |                       |
| Maximum Operating Pressure | 150 PSI            |                      | 10.34 BAR             |                       |
| Diaphragm Size             | 1 in. - 2.5 cm.    | 1.5 in - 3.8 cm      | 2.5 in - 6.35 cm      | 4 in - 10.16 cm       |
| Diaphragm Material         | Teflon             |                      |                       |                       |
| Pump Material              | 316 SS             |                      |                       |                       |
| Suction Size               | 1/4 NPT (M)        | 1/4 NPT (M)          | 1/2 NPT (M)           | 3/4 NPT (M)           |
| Discharge Size             | 1/4 NPT (F)        | 1/4 NPT (F)          | 1/2 NPT (F)           | 3/4 NPT (F)           |

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