

# MAXIMATIC® 4-WAY AIR PILOT VALVES



## 2-Position Spring Return & Air Pilot Valves



MMA-42QAS



MMA-44ZAA

Maximatic® 4-way air piloted valves are either double pilot or single pilot, spring return in #10-32 thread to 1/2" NPT port sizes. These air piloted valves have 1/8" NPT pilot ports.

**Type:** Spool

**Medium:** Air (40 micron filtration) or Inert Gas

**Operating Range:** Single Air Pilot: 20 to 125 psig, Double Air Pilot: 0 to 125 psig. Refer to Minimum Pilot Pressure Chart below.

**Pilot Pressure:** See chart      **Maximum Pressure:** 125 psig

**Number of Ports:** 5      **Mounting:** Body Ported, Manifold

**Materials:** Aluminum, Stainless Steel, Thermoplastic

**Seals:** Buna-N

### Minimum Pilot Pressure

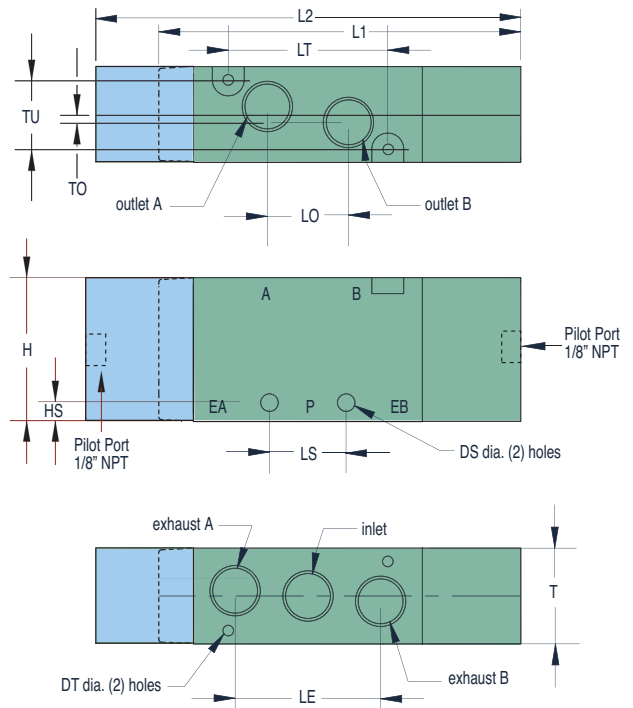
|                           | Single Pilot | Double Pilot | Three Position |
|---------------------------|--------------|--------------|----------------|
| Operating Pressure (psig) | 20 80        | 20 80        | 20 80          |
| Pilot Pressure (psig)     | 20 35        | 5 8          | 20* 20*        |

\* 30 on MMA-41 Series

| Dim. | MMA-41      | MMA-42      | MMA-43       | MMA-44       |
|------|-------------|-------------|--------------|--------------|
| DS   | 0.13 (3.3)  | 0.17 (4.3)  | 0.17 (4.3)   | 0.21 (5.3)   |
| DT   | 0.13 (3.3)  | 0.13 (3.3)  | 0.17 (4.3)   | 0.17 (4.3)   |
| H    | 1.07 (27.2) | 1.38 (35.1) | 1.58 (40.1)  | 1.97 (50.0)  |
| HS   | 0.16 (4.1)  | 0.28 (7.1)  | 0.26 (6.6)   | 0.29 (7.4)   |
| L1   | 2.71 (68.8) | 3.06 (77.7) | 3.76 (95.5)  | 4.87 (123.7) |
| L2   | 3.16 (80.3) | 3.62 (91.9) | 4.37 (111.0) | 5.43 (137.9) |
| LE   | 1.09 (27.7) | 1.42 (36.1) | 1.77 (45.0)  | 2.48 (63.0)  |
| LO   | 0.63 (16.0) | 0.74 (18.8) | 0.96 (24.4)  | 1.42 (36.1)  |
| LS   | 0.63 (16.0) | 0.98 (24.9) | 0.95 (24.1)  | 1.11 (28.2)  |
| LT   | 1.18 (30.0) | 1.40 (35.6) | 1.97 (50.0)  | 2.82 (71.6)  |
| T    | 0.71 (18.0) | 0.86 (21.8) | 1.06 (26.9)  | 1.34 (34.0)  |
| TO   | 0.11 (2.8)  | 0.13 (3.3)  | 0.16 (4.1)   | 0.19 (4.8)   |
| TU   | 0.50 (12.7) | 0.65 (16.5) | 0.80 (20.3)  | 1.07 (27.2)  |

| Port     | Cv   | Flow Rate |            |
|----------|------|-----------|------------|
|          |      | @ 50 psig | @ 100 psig |
| #10-32   | 0.58 | 16 scfm   | 27 scfm    |
| 1/8" NPT | 0.67 | 18 scfm   | 31 scfm    |
| 1/4" NPT | 0.89 | 26 scfm   | 49 scfm    |
| 3/8" NPT | 1.68 | 51 scfm   | 93 scfm    |
| 1/2" NPT | 2.79 | 91 scfm   | 171 scfm   |

Conforms to ISO 19973-2 test standards



| Spring Return Valves      |  | Double Air Pilot Valves   |  | Inlet    | Outlet   | Exhaust  | Cv/scfm* |
|---------------------------|--|---------------------------|--|----------|----------|----------|----------|
| <a href="#">MMA-41NAS</a> |  | <a href="#">MMA-41NAA</a> |  | #10-32   | #10-32   | #10-32   | 0.58/27  |
| <a href="#">MMA-41PAS</a> |  | <a href="#">MMA-41PAA</a> |  | 1/8" NPT | 1/8" NPT | 1/8" NPT | 0.67/31  |
| <a href="#">MMA-42QAS</a> |  | <a href="#">MMA-42QAA</a> |  | 1/4" NPT | 1/4" NPT | 1/8" NPT | 0.89/49  |
| <a href="#">MMA-43WAS</a> |  | <a href="#">MMA-43WAA</a> |  | 3/8" NPT | 3/8" NPT | 1/4" NPT | 1.68/93  |
| <a href="#">MMA-44ZAS</a> |  | <a href="#">MMA-44ZAA</a> |  | 1/2" NPT | 1/2" NPT | 1/2" NPT | 2.79/171 |

\* scfm based on flow @ 100 psig