



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 (not bidirectional)

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: Nitrile

Minimum Pilot Pressure

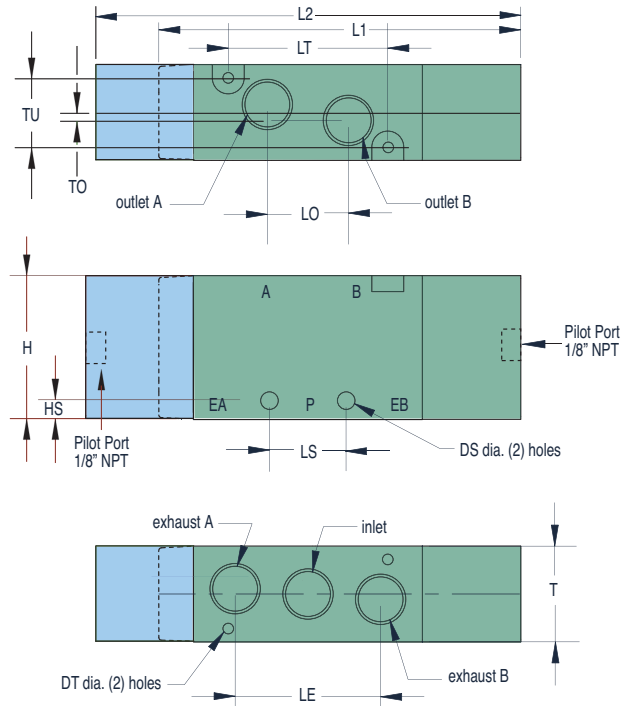
	Single Pilot	Double Pilot	Three Position
Operating Pressure (psig)	20 80	20 80	20 80
Pilot Pressure (psig)	20 35	5 8	20* 20*

* 30 on MMA-41 Series

Dim.	MMA-41	MMA-42	MMA-43	MMA-44
DS	0.13	0.17	0.17	0.21
DT	0.13	0.13	0.17	0.17
H	1.07	1.38	1.58	1.97
HS	0.16	0.28	0.26	0.29
L1	2.71	3.06	3.76	4.87
L2	3.16	3.62	4.37	5.43
LE	1.09	1.42	1.77	2.48
LO	0.63	0.83	0.96	1.42
LS	0.63	0.79	0.95	1.11
LT	1.18	1.50	1.97	2.82
T	0.71	0.87	1.06	1.34
TO	0.11	0.12	0.16	0.19
TU	0.50	0.67	0.80	1.07

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*
MMA-41NAS		MMA-41NAA		#10-32	#10-32	#10-32	0.58/27
MMA-41PAS		MMA-41PAA		1/8" NPT	1/8" NPT	1/8" NPT	0.67/31
MMA-42QAS		MMA-42QAA		1/4" NPT	1/4" NPT	1/8" NPT	0.89/49
MMA-43WAS		MMA-43WAA		3/8" NPT	3/8" NPT	1/4" NPT	1.68/93
MMA-44ZAS		MMA-44ZAA		1/2" NPT	1/2" NPT	1/2" NPT	2.79/171

* scfm based on flow @ 100 psig

3-Position Spring Centered Double Air Pilot Valves Closed Center, Pressure Center & Exhaust Center



MMA-44ZAAC

MAXIMUM
Value. *Performance.*

Maximatic® 4-way 3-position double air pilot valves with closed center, pressure center or exhaust center spools are available in #10-32 thread to 1/2" NPT port sizes. These air piloted valves have 1/8" NPT external pilot ports.

Type: Spool (not bidirectional)

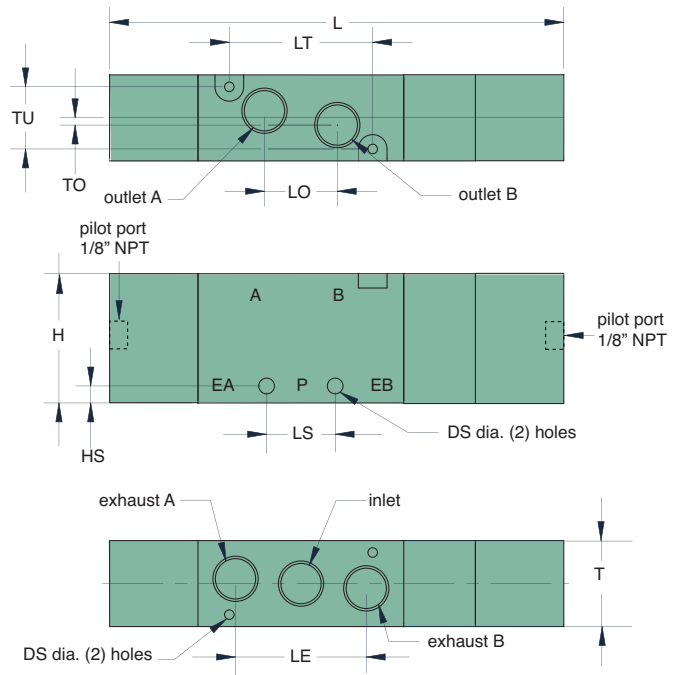
Operating Range: 0 to 125 psig


Pilot Pressure: See previous page

Number of Ports: 5

Mounting: Body Ported, Manifold Mount

Dim.	MMA-41	MMA-42	MMA-43	MMA-44
DS	0.13	0.17	0.17	0.21
DT	0.13	0.13	0.17	0.17
H	1.07	1.38	1.58	1.97
HS	0.16	0.28	0.26	0.29
L	3.78	4.37	5.13	5.43
LE	1.09	1.42	1.77	2.48
LO	0.63	0.74	0.96	1.42
LS	0.56	0.98	0.95	1.11
LT	1.18	1.40	1.97	2.82
T	0.71	0.86	1.06	1.34
TO	0.11	0.13	0.16	0.19
TU	0.50	0.65	0.80	1.07





Exhaust Mufflers
For quiet system operation, see pages 154 and 326 for standard and speed control mufflers.



Closed Center	Pressure Center	Exhaust Center	Inlet	Outlet	Exhaust	Cv/scfm*
<u>MMA-41NAAC</u>	<u>MMA-41NAAP</u>	<u>MMA-41NAAE</u>	#10-32	#10-32	#10-32	0.50/23
<u>MMA-41PAAC</u>	<u>MMA-41PAAP</u>	<u>MMA-41PAAE</u>	1/8" NPT	1/8" NPT	1/8" NPT	0.50/23
<u>MMA-42QAAC</u>	<u>MMA-42QAAP</u>	<u>MMA-42QAEE</u>	1/4" NPT	1/4" NPT	1/8" NPT	0.89/49
<u>MMA-43WAAC</u>	<u>MMA-43WAAP</u>	<u>MMA-43WAAE</u>	3/8" NPT	3/8" NPT	1/4" NPT	1.00/72
<u>MMA-44ZAAC</u>	<u>MMA-44ZAAP</u>	<u>MMA-44ZAAE</u>	1/2" NPT	1/2" NPT	1/2" NPT	1.68/93

* scfm based on flow @ 100 psig