

Humphrey Tyna-Myte Air Valves

Tyna-Myte valves are a series of direct-operating 2-way, 3-way, and 4-way, two-position, spring-return air valves, featuring the unique Humphrey Electropact single- or double-solenoid operator. Tyna-Myte air valves require no lubrication and provide quiet operation with no AC hum.

Tyna-Myte valves are available in two orifice sizes: full 1/4-inch or 1/8-inch. Mounting options include base mounting (supplied loose), mounting with body holes, mounting directly in-line, or mounting on either of two manifold styles. One manifold has a common inlet, the other has both a common inlet and a common (captured) exhaust.



062E1 062E1-3-10-20-36 Model 062E1 Tyna-Myte is a 2-way or 3-way, 3-port, single-solenoid valve available either normally open or normally closed. Having a full 1/4-inch orifice, this rugged, fast cycling valve has a longer service life than competitive coil and plunger valve designs. No lubrication required.

Also available as a double-solenoid valve, Model 062E2.



062-4E1 062-4E1 Model 062-4E1 is a 4-way, 4-port, common inlet, common exhaust, single-solenoid valve. Cylinder port #1 is normally open; cylinder port #2 is normally closed. With its full 1/4-inch orifice, this rugged, fast cycling valve has a longer service life than competitive coil and plunger valve designs. No lubrication required. A convenient optional exhaust port flow control (specify Code 70) independently meters the exhaust of cylinder ports #1 and #2 while saving space and eliminating the need for externally mounted and plumbed flow controls.

Also available as a double-solenoid valve, Model 062-4E2.



125E1 125E1-3-10-20-36 Model 125E1 is a 2-way or 3-way, 3-port, single-solenoid valve available either normally open or normally closed. Having a full 1/4-inch orifice, 125 Series valves offer twice the flow of 062 models. Furnished with cover seal (Code 61); protects against external dirt and moisture.

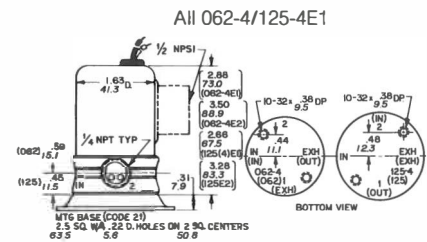
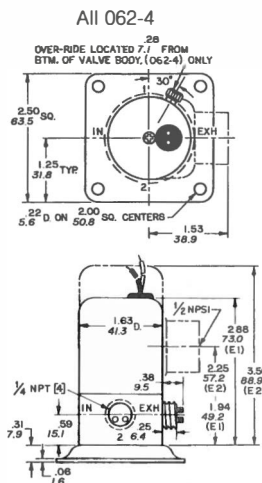
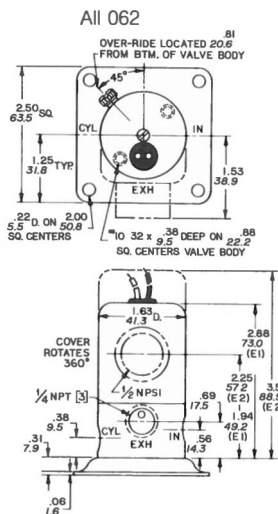
Also available as a double-solenoid valve, Model 125E2.



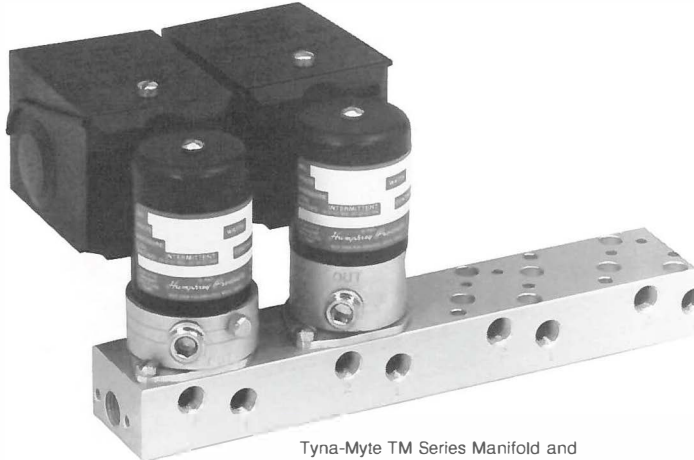
125-4E1 125-4E1-21-70 Model 125-4E1 is a 4-way, 4-port, common inlet, common exhaust, single-solenoid valve. Cylinder port #1 is normally open; cylinder port #2 is normally closed. Having a full 1/4-inch orifice, a 125 Series valve offers twice the flow of 062 models. Furnished with a cover seal (Code 61) to protect against external dirt and moisture.

A convenient exhaust port flow control (specify Code 70) independently meters the exhaust of cylinder ports #1 and #2 while saving space and eliminating the need for externally mounted and plumbed flow controls.

Available as a single-solenoid valve only.



See following pages for more Tyna-Myte Air Valve Models and all specifications.



Tyna-Myte TM Series Manifold and Valves shown with optional Model JB junction boxes.

JB Junction Box

General purpose NEMA 1 junction box provides easy access to valve wiring and presents a neat, attractive appearance. Adjacent boxes may be connected together with the wire raceway connector furnished with each box. The junction box has a standard 1-inch diameter, 1/2-inch NPSI conduit coupling to accommodate any manufacturer's solenoid valve. Junction boxes may be ordered separately or with valve. To order with valve, add "JB" to valve model number: e.g., "T062-4E1-36-JB, 120/60."

Tyna-Myte TM and TMC Manifolds

Manifolds permit centralized location of control valves, simplify plumbing, and reduce installation and maintenance costs. Valves and manifolds can be sub-assembled and placed in the end-product as complete, unitized control units, saving the time and labor involved in installing valves individually.

TM Manifolds

TM Series manifolds are of rugged, one-piece extruded aluminum construction. For installation versatility, both side and bottom

cylinder outlet ports are provided (unused ports are to be plugged). TM manifolds have a common inlet and are available in models ranging from one to twelve stations. Any combination of Tyna-Myte Series manifold valves may be installed on TM manifolds either on-site or at the factory.

TMC Manifolds

TMC Series manifolds are similar to TM manifolds but feature common (captured) exhaust.

TMC Series Manifold

A captured exhaust is desirable when the exhausting medium must be piped away to avoid contamination of the ambient area, as in clean rooms. TMC manifolds are available in models ranging from one to twelve stations. Any combination of Tyna-Myte Series manifold valves with captured exhaust (Code 60) may be installed on TMC manifolds, either on-site or at the factory.

Specifications

MEDIA:
Compressed Air (Consult factory for others)

PRESSURE RANGE
All E1: 0 to 125 psig (0 to 8.6 bars)
All E2: 30 to 125 psig (2.1 to 8.6 bars)

TEMPERATURE RANGE:
-30 to 150°F (-34.4 to 65.6°C)

OPERATING SPEEDS:
To 600 CPM

MATERIALS:
Aluminum, Brass, Stainless Steel, Zinc Plated Steel, Buna N

LUBRICATION Not required for 062 series; recommended for 125 series

FILTRATION Recommended, 40 Microns Minimum

Air Flow to Atmosphere

MODEL	25 PSIG	(1.7 BARS)	125 PSIG	(8.6 BARS)
	CFM	LPM	CFM	LPM
All 062s	1.2	34.0	6.0	160.0
All 125s	2.1	58.0	20.0	250.0

Weight

	ACTUAL	
	LBS	KGS
062	0.70	0.30
T062	0.80	0.40
125	0.70	0.30
T125	0.80	0.40

Electrical Specifications

MODEL	VOLTAGE	COIL NUMBER	WATTS	AMPS	OHMS	HEAT RISE (°C)	ON TIME SECONDS	OFF TIME SECONDS
T/062E1	24 DC	46-8A	6.7	0.296	86	85.9	0.019	0.015
	120 AC	46-4	8.2	0.161	255	102.0	0.006	0.026
T/062E2	24 DC	46-8A	6.7	0.296	86	85.9	0.014	0.017
	120 AC	46-3	23.0	0.236	105	77.8	0.005	0.005
T/062-4E1/4E2	24 DC	46-108A	6.7	0.296	86	85.9	0.024	0.018
T/062-4E1	120 AC	46-104	8.2	0.161	255	102.0	0.006	0.033
	120 AC	46-103	23.0	0.236	105	77.8	0.006	0.033
T125E1	24 DC	46-8A	1.0	0.296	86	85.9	0.018	0.014
	120 AC	46-4	8.2	0.161	255	102.0	0.006	0.016
T125-4E1	24 DC	46-8A	6.7	0.296	86	85.9	0.022	0.015
	120 AC	46-4	8.2	0.161	255	102.0	0.016	0.006

See Electric Air Valves Introduction, Continuous Duty Coils, for additional voltages.

Fill/Exhaust Times (Seconds)

MODEL	SUPPLY PRESSURE							
	At 50 psig (3.5 bars)				At 100 psig (7.0 bars)			
	Chamber Fill 0-40 psig (0-2.8 bars)	Exhaust 50-10 psig (3.5-7 bars)	Chamber Fill 0-80 psig (0-5.5 bars)	Exhaust 100-20 psig (7.0-1.4 bars)	Chamber Fill 0-40 psig (0-2.8 bars)	Exhaust 50-10 psig (3.5-7 bars)	Chamber Fill 0-80 psig (0-5.5 bars)	Exhaust 100-20 psig (7.0-1.4 bars)
10 Cubic Inches (164cc)	100 Cubic Inches (1640cc)	10 Cubic Inches (164cc)	100 Cubic Inches (1640cc)	FILL	EXHAUST	FILL	EXHAUST	
T/062/E1/E2	0.225	0.215	2.183	2.078	0.235	0.263	2.280	2.690
T/062-4E1/4E2	0.366	0.428	3.700	4.420	0.396	0.504	3.890	5.440
T125E1	0.123	0.171	1.030	1.660	0.135	0.209	1.160	2.110
T125-4E1	0.203	0.300	1.830	2.980	0.219	0.353	2.030	3.530

