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**Title: 062/125 Tyna-Myte Solenoid Valves**

**ISO Date:** April 10, 2006

**Don't Take Chances**

Compressed air is an extremely powerful medium. Always take maximum precautions when handling any component of a compressed air system. **Never** attempt to construct, replace, operate or service any component of a compressed air system unless you have been specifically and properly trained to do so. **Always** disconnect the supply air, and exhaust the air system before attempting to remove or service a component of that system. Failure to heed these warnings could result in SERIOUS, EVEN FATAL, PERSONAL INJURY.

**Design And Specifications**

The design and specifications and other product information contained in this catalog is for general reference purposes based upon customary and usual manufacturing standards and product applications. However, it is difficult to predict or to anticipate the functioning or suitability of the product for any particular application or use. Therefore, nothing herein shall be deemed a representation or warranty of the product design or specifications and Buyer shall have the responsibility for investigating and testing the product in any particular application or use and all risks attendant in such use.

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# Humphrey Tyna-Myte Air Valves

\* Available with U.L. Rating, consult factory

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 1/16-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 1/16-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 1/16-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 1/8-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.



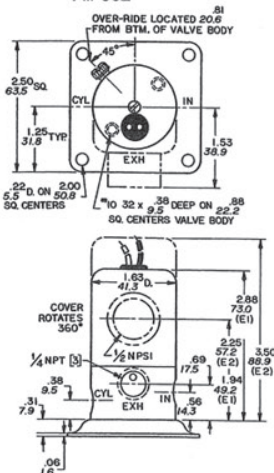
**125-4E1** 125-4E1-21-70  
Model 125-4E1 is a 4-way, 4-port, common inlet, common exhaust, single-solenoid valve. Cylinder port #1 is normally open; cylinder port #2 is normally closed. Having a full 1/8-inch orifice, a 125 Series valve offers twice the flow of 062 models. Furnished with a cover seal (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.

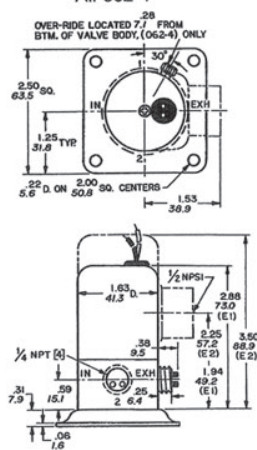
Available as a single-solenoid valve only.



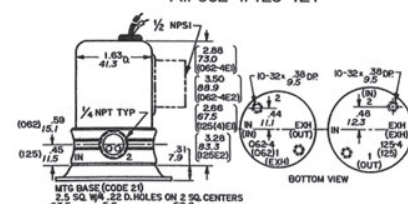
All 062



All 062-4



All 062-4/125-4E1

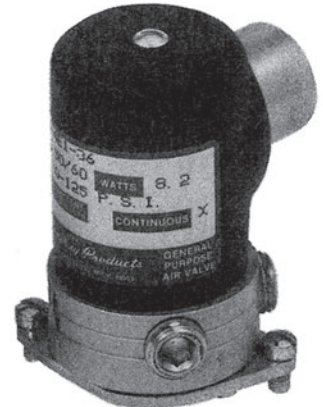
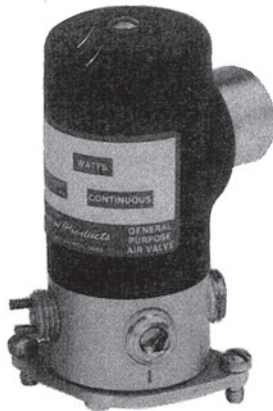
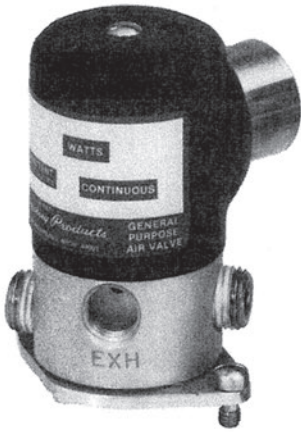


See following pages for more Tyna-Myte Air Valve Models and all specifications. Consult factory for air piloted vacuum options.



# Humphrey Tyna-Myte Air Valves (Continued)

\* Available with U.L. Rating, consult factory



**T062E1** T062E1-3-10-36  
Model T062E1 is a version of the single-solenoid 062E1 valve for mounting on manifolds. This valve mounts on the manifold in one way only to prevent incorrect mounting and can be installed or replaced in seconds. Available with captured exhaust (specify Code 60) for use on Humphrey Model TMC manifolds.

Also available as a double-solenoid valve, Model T062E2.



**T062-4E1** T062-4E1-36  
Model T062-4E1 is a version of the single-solenoid 062-4E1 valve for mounting on manifolds. The valve mounts on the manifold station in one way only to prevent incorrect mounting, and can be installed or replaced in seconds.

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.

Available with captured exhaust (specify Code 60) for use on Humphrey Model TMC manifolds.

Also available as a double-solenoid valve, Model T062-4E2.



**T125E1** T125E1-3-10-36-80  
Model T125E1 is a version of the single-solenoid 125E1 valve for mounting on manifolds. The valve mounts on the manifold in one way only to prevent incorrect mounting and can be installed or replaced in seconds. Available with captured exhaust (specify Code 60) for use on Humphrey Model TMC manifolds.

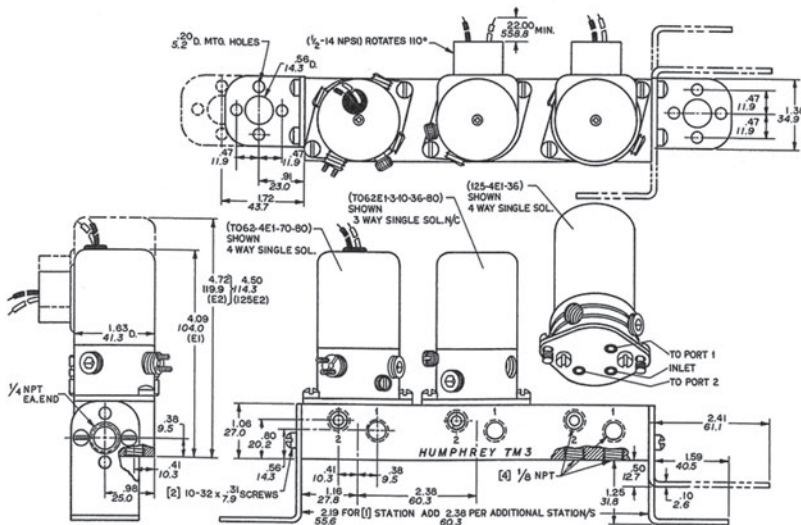
Also available as a double-solenoid valve, Model T125E2.



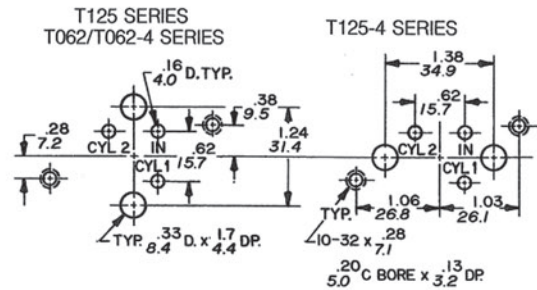
**T125-4E1** T125-4E1-36  
Model T125-4E1 is a version of the single-solenoid 125-4E1 valve for mounting on manifolds. The valve mounts on the manifold station in one way only to prevent incorrect mounting and can be installed or replaced in seconds.

Available with captured exhaust (specify Code 60) for use on Humphrey Model TMC manifolds.

Also available as a single-solenoid valve only.



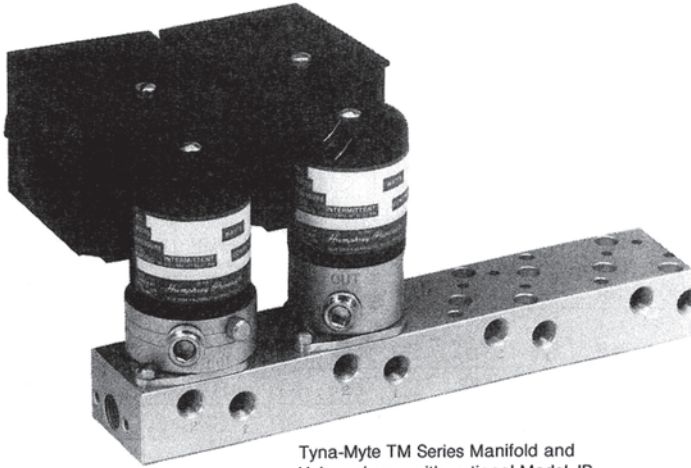
The valves only may be mounted to your equipment or special manifolds using the manifold dimensions shown below.



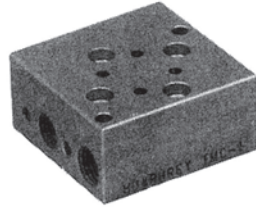
MODEL	PORT #1	#2
T062-4E1	N/O	N/C
T125-4E1	N/O	N/C
T 062E1 N/C	N/C	"BLIND"
T 062E1 N/O	N/O	"BLIND"
T 062-4E2	(A) OPEN TO PSI	OPEN TO EXH
T 062E2	(A) CLOSED	"BLIND"

(A) WITH BOTTOM COIL LAST ENERGIZED

\*Same for equivalent 125 model



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)  
(T)062 E2: 30 to 125 psig (2.1 to 8.6 bars)  
(T)125-E2: 60 to 125 psig (4.1 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

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

### 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)	
	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

Lead Wire: # 18 AWG, 16-30 TC, 1/32, 105°C, PVC, UL & CSA.

### 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	6.7	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



**Tyna-Myte Series**  
**1/4-inch ports, 2-way, 3-way, 4-way, Direct operating**

**VALVES**

Option Code	2 Way	3 Way	Norm. Closed	Norm. Open	w/Out Mount. Base	With Mount. Base	Grommet Leads (18")	Conduit Leads (18")	DIN Connector	Grommet Leads (72")	Captured Exhaust	Cover Seal	Flow Controls	Manual Override	FKM* Seals	Specify Voltage with option code				
																120v 50/60Hz, 240/50/60 (ID not available on E1)	24VAC 50/60 w/"Flywheel" Rectifiers for CD	12VDC 24VDC		
Model																				
062E1	SP	N/C	N/C	N/C	N/C	SP	N/C	SP	SP	SP	STD	SP	NA	SP	SP	N/C	NA	SP	SP	N/C
062E2	SP	N/C	NA	NA	N/C	SP	NA	N/C	SP	SP	STD	SP	NA	NA	SP	SP	N/C	SP	SP	N/C
062-4E1	NA	NA	NA	NA	N/C	SP	N/C	SP	SP	SP	STD	SP	SP	SP	SP	N/C	NA	SP	SP	N/C
062-4E2	NA	NA	NA	NA	N/C	SP	NA	N/C	SP	SP	STD	SP	SP	NA	SP	SP	N/C	SP	SP	N/C
T062E1	SP	N/C	N/C	N/C	NA	NA	N/C	SP	SP	SP	SP	SP	NA	SP	SP	N/C	NA	SP	SP	N/C
T062E2	SP	N/C	NA	NA	NA	NA	NA	N/C	SP	SP	SP	SP	NA	NA	SP	SP	N/C	SP	SP	N/C
T062-4E1	NA	NA	NA	NA	NA	NA	N/C	SP	SP	SP	SP	SP	SP	SP	SP	N/C	NA	SP	SP	N/C
T062-4E2	NA	NA	NA	NA	NA	NA	NA	N/C	SP	SP	SP	SP	SP	NA	SP	SP	N/C	SP	SP	N/C
125E1	SP	N/C	N/C	N/C	N/C	SP	N/C	SP	SP	SP	STD	STD	NA	SP	SP	N/C	NA	SP	SP	N/C
125E2	SP	N/C	NA	NA	N/C	SP	NA	N/C	SP	SP	STD	STD	NA	NA	SP	SP	N/C	SP	SP	N/C
125-4E1	NA	NA	NA	NA	N/C	SP	N/C	SP	SP	SP	STD	STD	SP	NA	SP	N/C	NA	SP	SP	N/C
T125E1	SP	N/C	N/C	N/C	NA	NA	N/C	SP	SP	SP	SP	STD	NA	SP	SP	N/C	NA	SP	SP	N/C
T125E2	SP	N/C	NA	NA	NA	NA	NA	N/C	SP	SP	SP	STD	NA	NA	SP	SP	N/C	SP	SP	N/C
T125-4E1	NA	NA	NA	NA	NA	NA	N/C	SP	SP	SP	SP	STD	SP	NA	SP	N/C	NA	SP	SP	N/C

CD=Continuous Duty; ID=Intermittent Duty

NOTE: Code 39 not available on Models T/062E2, T/062-4E2, and T/125E2 when specifying Option "CD" (continuous coils).

\*Fluoroelastomer

**MANIFOLDS**

Model			
TM1	TM7	TMC1	TMC7
TM2	TM8	TMC2	TMC8
TM3	TM9	TMC3	TMC9
TM4	TM10	TMC4	TMC10
TM5	TM11	TMC5	TMC11
TM6	TM12	TMC6	TMC12

Manifold Selection: includes screws, mounting legs, and 1/8" NPT plugs (two per station).

Multi-Pressure Manifold — (Non-Stock Item) — Specify. TM Series Manifold only. Example: TM5.

**ACCESSORIES**

Model	Description
HS4	DIN Connector for use with Code 39 Valves.
8-32A	Block-off Plate.
JB	Junction Box — Add "JB" to model number of any solenoid valve with conduit connection (Code 36).

NOTE: Valves, Manifolds, and Accessories are shipped detached, ready to be mounted according to specific application requirements.

**HOW TO ORDER**

Starting with Model Number specify options in order from left to right.

Example: To Order Model 062E1-3-11-21-36

3-Way Operation	(062E1-3)
Normally Open	(062E1-3-11)
Mounting Base	(062E1-3-11-21)
Conduit	(062E1-3-11-21-36)
Captured EXH, and that is STD	(062E1-3-11-21-36)
Voltage 12VDC	(062E1-3-11-21-36 12VDC)

Remember: Option Codes marked STD and NA are not used as part of the Model Number when ordering. N/C indicates no charge but Option Code must be included in the Model Number. OS indicates that Option must be ordered separately and is not used as part of the Model Number.

N/C=No charge	STD=Standard
NA =Not available	SP=Specify, additional charge for this option
OS =Order separately, additional charge for this option	