Humphrey Tyna-Myte Air Valves

* Available with U.L. Rating, consult factory

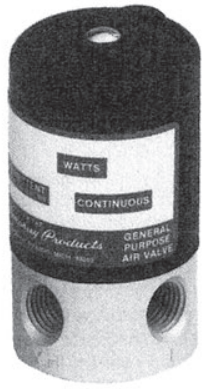
Tyna-Myte valves are a series of direct-operating 2-way, 3-way, and 4-way, two-position, spring-return air valves, featuring the unique Humphrey Electropact single- or double-solenoid operator. Tyna-Myte air valves require no lubrication and provide quiet operation with no AC hum.

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.

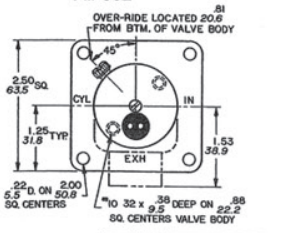
125-4E1 125-4E1-21-70

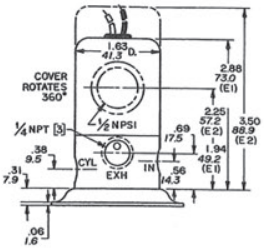
Model 125-4E1 is a 4-way, 4-port, common inlet, common exhaust, single-solenoid valve. Cylinder port #1 is normally open; cylinder port #2 is normally closed. Having a full 1/8-inch orifice, a 125 Series valve offers twice the flow of 062 models. Furnished with a cover seal (Code 61) to protect against 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.

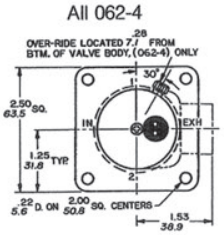
Available as a single-solenoid valve only.

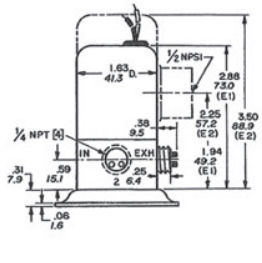
All 062



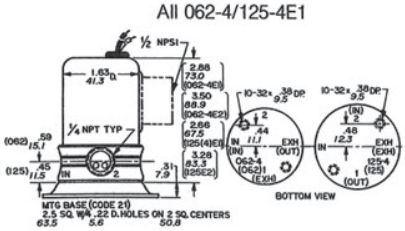


All 062-4





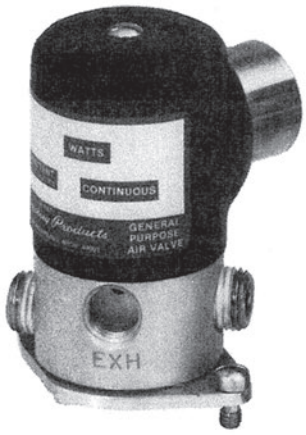
All 062-4/125-4E1



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)

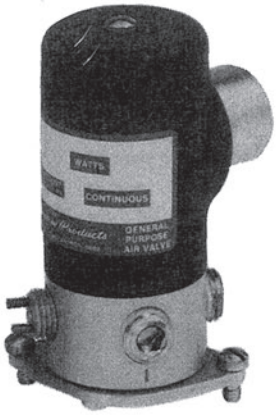
* Available with U.L. Rating, consult factory



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.



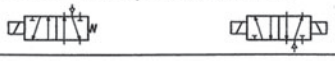
T062-4E1 T062-4E1-36

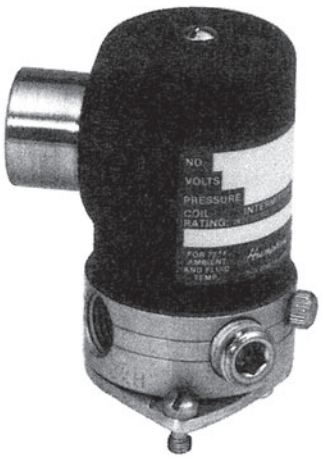
Model T062-4E1 is a version of the single-solenoid 062-4E1 valve for mounting on manifolds. The valve mounts on the manifold station in one way only to prevent incorrect mounting, and can be installed or replaced in seconds.

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.

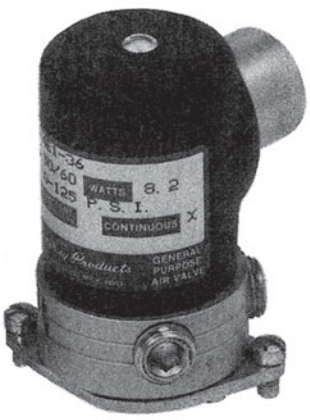




T125E1 T125E1-3-10-36-80

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.

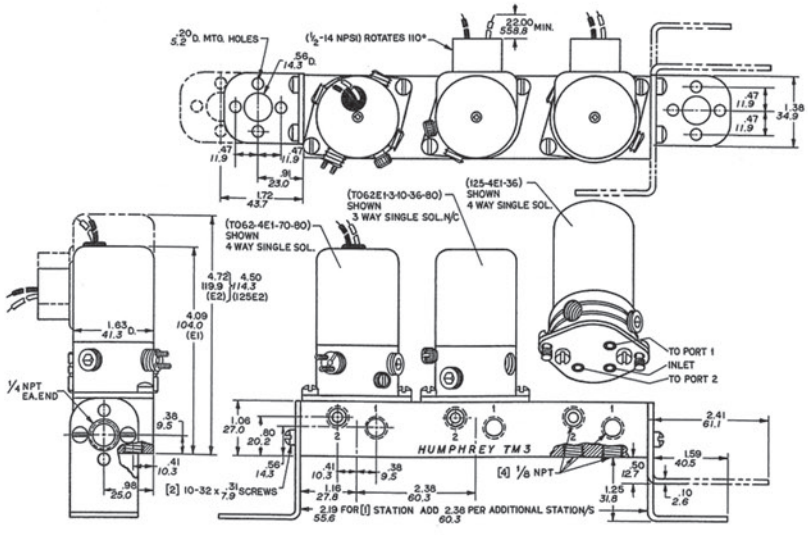


T125-4E1 T125-4E1-36

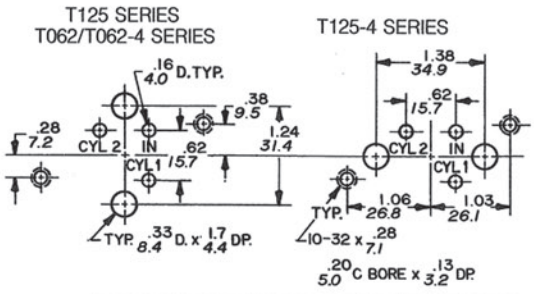
Model T125-4E1 is a version of the single-solenoid 125-4E1 valve for mounting on manifolds. The valve mounts on the manifold station in one way only to prevent incorrect mounting and can be installed or replaced in seconds.

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

Available as a single- solenoid valve only.

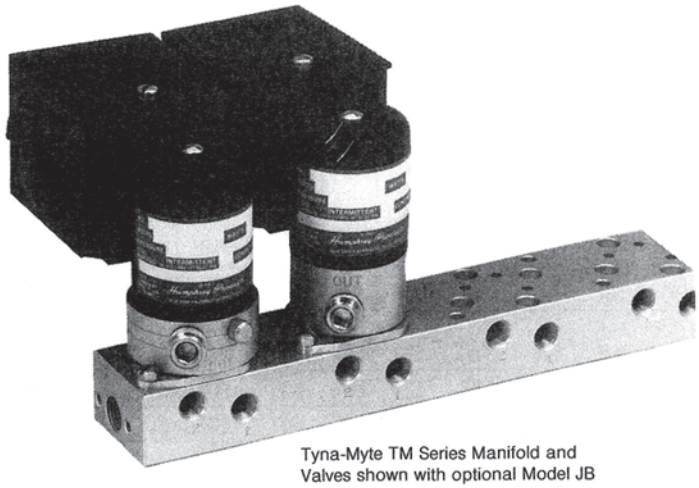


The valves only may be mounted to your equipment or special manifolds using the manifold dimensions shown below.

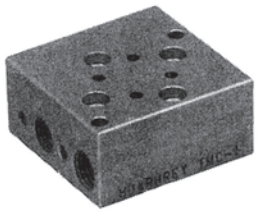


	MODEL	PORT #1	#2
*	T062-4E1 T125-4E1	N/O	N/C
*	T 062E1 N/C	N/C	"BLIND"
	T 062E1 N/O	N/O	"BLIND"
	T 062-4E2	Ⓐ OPEN TO PSI	OPEN TO EXH
*	T 062E2	Ⓐ CLOSED	"BLIND"
	Ⓐ WITH BOTTOM COIL LAST ENERGIZED		

*Same for equivalent 125 model



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



TMC Series Manifold

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, ½-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. 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 CFM	(1.7 BARS) LPM	125 PSIG CFM	(8.6 BARS) 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
T/062-4E2	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

Fill/Exhaust Times (Seconds)

	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)	
MODEL	FILL	EXHAUST	FILL	EXHAUST	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.

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

VALVES

	2 Way	3 Way	Norm. Closed	Norm. Open	w/Out Mount. Base	With Mount. Base	Grom-met Leads (18")	Con-duit Leads (18")	DIN Con-nector	Grom-met Leads (72")	Cap-tured Exhaust	Cover Seal	Flow Con-trols	Manual Over-ride	FKM* Seals	Specify Voltage with option code: 120v 50/60Hz, 240/50/60 (ID not avail-able on E1)		24VAC 50/60 w/"Flywheel" Rectifiers for CD		12VDC 24VDC
Option Code	2	3	10	11	20	21	35	36	39	LL	60	61	70	80	w/VAI	CD	ID	CD	ID	
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
NA = Not available
OS = Order separately, additional charge for this option
STD = Standard
SP = Specify, additional charge for this option