

TYPE T61, T62, T63, T64 PNEUMATIC TEMPERATURE CONTROLLER

TEMPERATURES to 350°F

- Bimetallic Thermostat for Fast Response
- Pinpoint Accuracy
- 200°F Adjustable Temperature Range
- Air Consumption - Average .25, Maximum .7
- Adjustable Proportional Band 1/4-2 psi per 1°F
- Overtemperature Protection
- Air Supply Pressure 30 psi

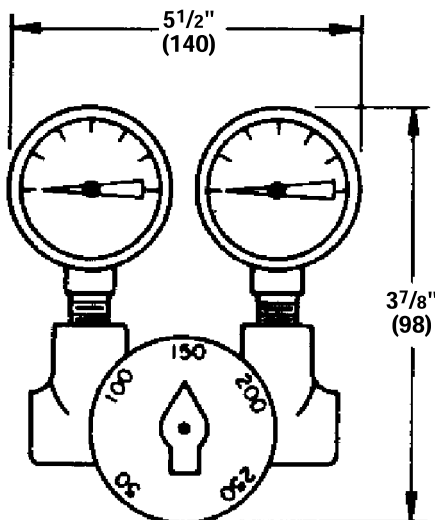
MODELS

- **TYPE T61** for applications where air control signal decreases as process temperature increases.
- **TYPE T62** for applications where air control signal increases as process temperature increases.
- **TYPE T63** for high temperature applications where air control signal decreases as process temperature increases.
- **TYPE T64** for sanitary applications where air control signal decreases as process temperature increases. Supplied with IAMD Sanitary Cap.

TYPICAL CONFIGURATIONS

PRESSURE & TEMPERATUREEA85T61

SIZING INFO
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TYPE T61, T62, T63, T64
CONTROLLER
1 1/2 LBS (.7 KG)



TYPE T61 PNEUMATIC
TEMPERATURE CONTROLLER

TYPE T61, 62, 63, T64
TEMPERATURE PILOT

APPLICATION DATA

- Instantaneous Heaters
- Process Applications with wide ranging, fast changing loads

RATINGS (Maximum Inlet Conditions)

Pressure PSIG (bar)	Temperature °F (°C)
250 (17.2)	400 (204)

TEMPERATURE RANGES (°F)

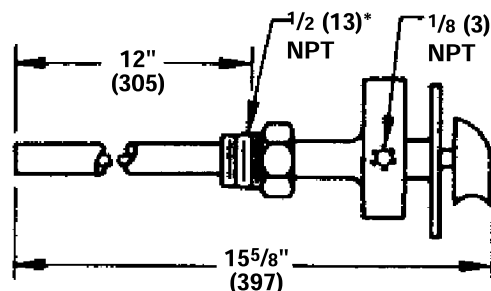
T61, T62, T64	50-250
T63	150-350

SPECIFICATION

The temperature controller shall be of the non-indicating type. It shall be equipped with 0-30 psi supply and loading gages. The controller shall have 200°F adjustable range and be equipped with a bronze bulb as part of its bimetal thermostat. Control point adjustments to be made by a knob on the temperature pilot and throttling range shall be adjustable externally with a set screw wrench. A stainless steel thermostat bulb, preferable in lieu of a well, is available as an alternate to bronze.

MATERIALS OF CONSTRUCTION

Body	Bronze ASTM B62-80 UNS C83600
Bulb, Bronze	ASTM B140-80 UNS C31400
Bulb, Steel	316 St. Stl. ASTM A276 Cond. A
Seals	Viton
Spool	Brass ASTM B16-80 UNS 36000
Spring	St. Steel



* For T64, this is IAMD Sanitary Cap.

MATERIAL SPECIFICATIONS FOR MAIN VALVES & PILOTS

MAIN VALVE & PILOT BODIES

Cast Iron.....	ASTM A126	Class B
Cast Carbon Steel.....	ASTM A216	WCB
Cast Bronze	ASTM B61	C92200

STEEL PLATE FLANGES & HOODS-FLANGE QUALITY

.....	ASTM A285	Grade C
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NUTS

Steel Valves	ASTM A194-79	Grade 2H
Cast Iron Valves.....	SAE J995	Grade 2

STUDS

Steel Valves	ASTM A193-79a	Grade 2H
Cast Iron Valves.....	AISI 12L14	Ledloy

CAP SCREWS

Cast Iron Valves.....	SAE J429	Grade 5
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MATERIAL	COMPONENT PARTS	COMPONENT USAGE		
St. Steel C316	Seat Rings	6"-12" E	ASTM A743-79	Grade CF-8
St. Steel C420	Seat Rings	Up to 5" E	ASTM A743-79	Grade CA-40
St. Steel	Seat Rings	C34, D34	ASTM A276-79a	AISI 303 & 304
St. Steel	Discs	Pilot	ASTM A276-79a	AISI 440C
St. Steel	Discs	6" & Up, includes parabolic	ASTM A276-79a	AISI303 & 304
St. Steel	Discs	Up to 5"	ASTMA582-79	AISI 420F
St. Steel	Stems	All Valves & Pilots	ASTM A276-79a	AISI 303
St. Steel	Stems	750°F E, Bot. GU. VAL.	ASTM A564-79	AISI 630 (17-4)
St. Steel	Diaphragms	All E's & Pilots	ASTM A167	AISI 301

PRESSURE PILOT DIAPHRAGMS

PART NO.	MATERIAL	SIZE	USED ON PILOT TYPE
4-01621-0	Brz.	3 1/2"	W, A88, D2
4-01623-0	St. Stl.	3 1/2"	D, N, Q, A43, A53
4-07890-0	Brz.	3 1/2"	A35, A, A81, SP/P
4-01626-0	St. St.	3 1/2"	P13, N4, F13, N24
4-01627-0	Brz.	4 1/2"	A43, A84, A86, A93
4-01629-1	St. Stl.	4 1/2"	P14, P110, Q43, F14
4-01630-0	Brz.	5 3/4"	A53, A5, P95, A85
4-01632-0	St. Stl.	5 3/4"	A92, P15, A54, F15
4-10721-0	Brz.	5 3/4"	D5, A35
4-03927-0	St. Stl.	5 3/4"	Q35, A81, A82
4-01633-0	Brz.	7 1/4"	A73, A70, A75, A87
4-01635-0	St. Stl.	7 1/4"	A73
4-09685-0	Brz	4 1/2"	D120, A92, D234
4-01659-0	St. Stl.	4 1/2"	A54, F46

TYPE E MAIN VALVE DIAPHRAGMS

VALVE SIZE	PART NO.		DIA.
	ST. STL.	BRZ.	
3/8 & 1/2	4-01629-1	4-01627-0	4 1/2
3/4	4-01662-0	4-01660-0	5 1/8
1	4-01632-0	4-01630-0	5 3/4
1 1/4	4-01664-0	4-09678-0	6 1/2
1 1/2	4-01635-0	4-01633-0	7 1/4
2	4-01638-0	4-09679-0	8 1/8
2 1/2	4-01641-0	4-09680-0	9
3	5-02038-0	4-09681-0	10
4	5-01647-0	4-09682-0	13
5	5-01649-0	4-09683-0	15
6	5-01651-0	5-09684-0	17 1/2
8	5-01653-0	—	20
10	4-02096-0	—	25
12	5-01656-0	—	30

PRESSURE PILOT SPRINGS

PART NO.	DELIVERY PRESSURE	SPRING COLOR	WIRE DIAMETER	USED ON PILOT TYPE
5-05007-0	1 - 10	Aluminum	3/16"	D5
5-05007-0	3 - 20	Aluminum	3/16"	D, N, N33, Q, N20
5-05003-0	5 - 25	Orange	1/4"	D5
5-05016-0	5 - 25	Uncolored	7/32"	D120
5-05003-0	5 - 50	Orange	1/4"	D, N, N33, Q,
5-05028-0	10-75	Uncolored	5/16"	D120
5-05005-0	10 - 100	Green	5/16"	D, N, N33, Q, N20
5-05012-0	20 -150	Black	11/32"	D, N, N33, Q, N20
5-04990-0	100-300	Uncolored	7/16"	D2, N2, Q2
5-05030-0	40 - 150	Uncolored	3/8"	D120

The number of E Main Valve Diaphragms per set is as follows:

Initial Pressure	# per Set
10 - 250	2
250 - 400	3
400 - 600	4

The Number of Diaphragms per set for Pilots varies with the type and delivery pressure. Consult factory.

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