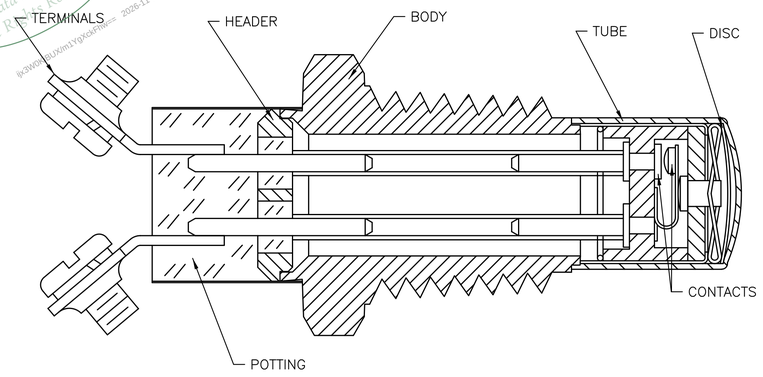
ZONE	REV.	REVISION DESCRIPTION	ECN NO.	DATE
	M	FOR NOTE 15, POTTING WAS "MYLAR SLEEVE, EPOXY FILL (BLACK)"; JJL	ECO-385163	27-AUG-2020

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IKSWORN-UXm1YGKsFNo== 2026-11-09



EXAMPLE PART NUMBER
(SEE EXPLANATION SPECIFICATION NUMBER 12)

C 5 1 C B A 2 8 5 B – 2 5 5 B

- CONTACT OPERATION (SPEC. 12A)
- BASIC PRODUCT SERIES (SPEC. 12B)
- TERMINAL (SPEC. 12C)
- BODY SIZES (SPEC. 12D)
- TUBE LENGTHS (SPEC. 12E)
- TOP TEMPERATURE IN °F (SPEC. 12F)
- TOP TEMPERATURE TOLERANCE CODE (SPEC. 12G)
- BOTTOM TEMPERATURE IN °F (SPEC. 12H)
- BOTTOM TEMPERATURE TOLERANCE CODE (SPEC. 12J)

SPECIFICATIONS

1. DEVICE: SINGLE POLE SINGLE THROW SNAP ACTION THERMOSTAT (ISOLATED CASE). DEVICE IS HERMETICALLY SEALED OF ALL WELDED CONSTRUCTION.
2. OPERATING TEMPERATURE RANGE: +15°F TO +550°F (−9.4°C TO +288°C)
3. AVAILABLE FOR TEMPERATURE EXPOSURE OF −65°F TO +625°F (−53.8°C TO +329.4°C)
4. OPERATING TEMPERATURE SETTINGS: TABLE 1

	°F	°C	°F	°C	°F	°C	°F	°C
TEMPERATURE SETTING	+15 TO +250	−9.4 TO +121.1	+251 TO +350	+121.6 TO +176.6	+351 TO +450	+177.2 TO +232.2	+451 TO +550	+232.8 TO +287.7
STANDARD TOLERANCE	± 5	± 2.8	± 8	± 4.4	± 10	± 5.6	± 20	± 11.1
STANDARD NOMINAL DIFFERENTIAL	20	11.1	30	16.7	40	22.2	50	27.8

5. SHOCK: 75 G 6 MS DURATION (SAWTOOTH)
6. VIBRATION: .06 DA, 10−55 HZ, 20 G 55−2000 HZ
7. CONTACT RATING FOR 100,000 LIFE CYCLES:
   A. 3 AMPERES RESISTIVE, 32 VDC/120 VAC 60 HZ
   B. 1.5 AMPERES 240 VAC 60 HZ
   C. 125 VA PILOT DUTY TO 240 VAC 60 HZ
8. DIELECTRIC STRENGTH: 1480 V RMS 60 HZ TERMINALS TO CASE FOR ONE MIN.
9. INSULATION RESISTANCE: 50 MEGOHMS AT 500 VDC
10. THERMAL SHOCK: MIL−STD−202 METHOD 107 TEST CONDITION B
11. PRESSURE EXPOSURE LIMIT: TUBE WILL WITHSTAND 1500 PSI OF PRESSURE
12. EXPLANATION OF PART NUMBER SELECTION:
    A. CONTACT OPERATION: O=OPEN ON RISE: C=CLOSE ON RISE
    B. BASIC SERIES NUMBER: CODE 51 FOR ALL VARIATIONS OF THIS THERMOSTAT
    C. TERMINAL SELECTION: CHOOSE FROM CODES SHOWN
    D. BODY SIZE SELECTION: CHOOSE FROM CODES SHOWN
    E. TUBE LENGTH SELECTION: CHOOSE FROM CODES SHOWN
    F. TOP TEMPERATURE (IN DEGREES F): SELECT ANY TEMPERATURE IN THE RANGE OF 15°F TO 550°F
    G. TOP TEMPERATURE TOLERANCE: CHOOSE FROM THE CODES IN TABLE 2, BUT DON'T SELECT A TOLERANCE MORE RESTRICTIVE THAN THOSE SPECIFIED IN TABLE 1 (EXCEPT CODES E AND F WHICH ARE AVAILABLE IN THE 15°F TO 250°F RANGE).

TABLE 2 TEMPERATURE TOLERANCE CODE FOR PART NUMBER SELECTIONS

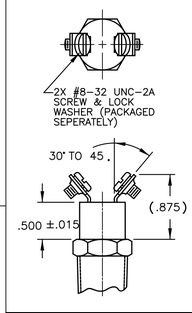
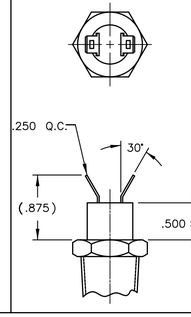
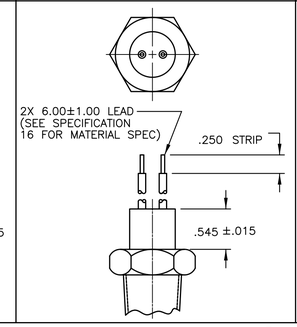
	STANDARD TOLERANCE				SPECIAL TOLERANCES										
CODE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	X	Y
± °F	5	8	10	20	3	4	6	7	9	12	15	18	25	30	MAX.	MIN.
± °C	2.8	4.4	5.6	11.1	1.7	2.2	3.3	3.9	5.0	6.7	8.3	10.0	13.9	16.7	MAX.	MIN.

   H. BOTTOM TEMPERATURE (IN DEGREES F): THE BOTTOM OR RESET TEMPERATURE IS OBTAINED BY SUBTRACTING THE STANDARD NOMINAL DIFFERENTIAL OF THE APPLICABLE RANGE (TABLE 1) FROM THE TOP TEMPERATURE SELECTED IN STEP F.
   J. BOTTOM TEMPERATURE TOLERANCE: CHOOSE FROM THE CODES IN TABLE 2, APPLYING THE SAME RESTRICTIONS USED IN SELECTING THE TOP TEMPERATURE TOLERANCE IN STEP G.
   K. WHEN SPECIAL FEATURES (NOT SPECIFIED HEREIN) OR A UNIQUE PART NUMBER IS REQUIRED − THE LAST 4 DIGITS FROM THE PART NUMBER (BOTTOM TEMPERATURE & TOLERANCE) WILL BE ELIMINATED FROM THE NUMBER AND A UNIQUE 4 DIGIT NUMBER ASSIGNED BY AIRPAX WILL BE INSERTED.
13. CREEP: ALL CONTACT OPERATION (BOTH CLOSING AND OPENING) MUST OCCUR SIMULTANEOUS WITH SNAP OF DISC.
14. MARKING INFORMATION: THE NAME AIRPAX, 5100, CONTACT OPERATION (CLR) CLOSE ON RISE, (OPR) OPEN ON RISE, TOP TEMPERATURE, AND DATE CODE. APPROPRIATE MARKING WILL APPEAR ON THE PRODUCT WHEN REQUIRED PER U/L FOR THOSE TYPES OF APPLICATIONS. STAMP MEXICO WHEN APPLICABLE.
15. MATERIALS (STANDARD)

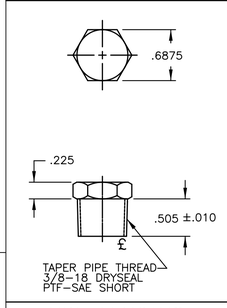
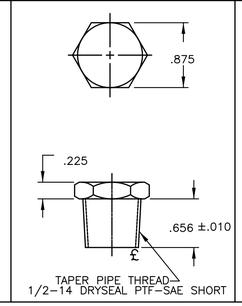
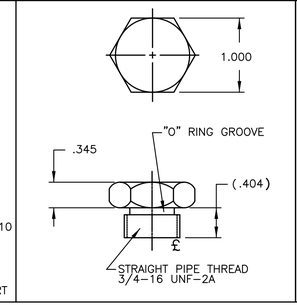
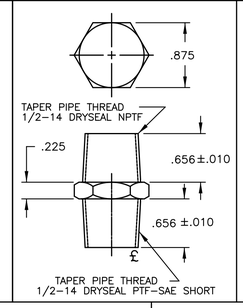
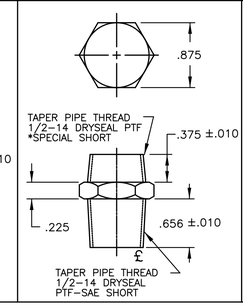
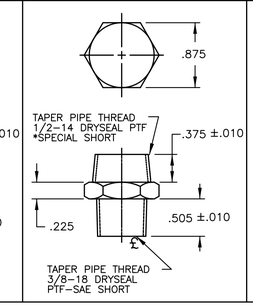
BODY	STAINLESS STEEL
TUBE	STAINLESS STEEL
HEADER	C.R. STEEL, NICKEL PLATED WITH COMPRESSSION GLASS SEAL
DISC	BIMETAL
POTTING	MYLAR SLEEVE (CLEAR), EPOXY FILL (BLACK)
TERMINALS	STEEL, PLATED OR STAINLESS
CONTACTS	FINE SILVER

16. STANDARD LEAD WIRE MATERIAL FOR DIFFERENT TEMPERATURE RANGES.
    A. UP TO 220°F (104.4°C) − #18 STRANDED U/L 1015 AWN & CSA TEW APPROVED. (PVC INSULATION COLOR: BLACK)
    B. 221°F TO 350°F (105°C TO 176.6°C) − #18 STRANDED TYPE 1 TFE (TEFLON INSULATION PER MIL−W−22759 − COLOR: BLACK)
    C. 351°F − UP (177.2°C) − #18 STRANDED U/L TYPE TGGT/CSA AWN APPROVED. (INSULATION TEFLON, GLASS FIBER, UNDER GLASS BRAID COLOR: BROWN).
17. UL RECOGNIZED UNDER FILE NUMBERS E36687 & E66685

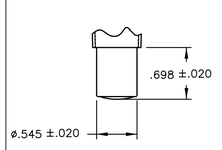
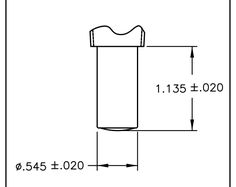
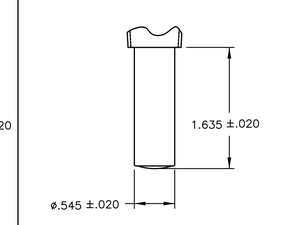
TERMINAL SELECTION

A	B	C	D	E	F	Z
			SAME AS TERMINAL SELECTION "C" EXCEPT 2X LEADS 12.00 ±1.00 SEE SPECIFICATION 15 FOR MATERIAL SPEC.	SAME AS TERMINAL SELECTION "C" EXCEPT 2X LEADS 24.00 ±1.00 SEE SPECIFICATION 15 FOR MATERIAL SPEC.	SAME AS TERMINAL SELECTION "C" EXCEPT 2X LEADS 48.00 ±1.00 SEE SPECIFICATION 15 FOR MATERIAL SPEC.	SPECIAL REQUIREMENTS CUSTOMER TO SPECIFY

BODY SIZES (ALL SENSOR TUBES ATTACHED TO END INDICATED BY) £

A	B	C	E	F	G	Z
						SPECIAL REQUIREMENTS CUSTOMER TO SPECIFY

TUBE LENGTHS

A	B	C	Z
			SPECIAL REQUIREMENTS CUSTOMER TO SPECIFY

AIRPAX GENERAL WORKMANSHIP SPECIFICATION S−604 CONSTITUTES A PART OF THIS DRAWING.

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