– NOTICE –
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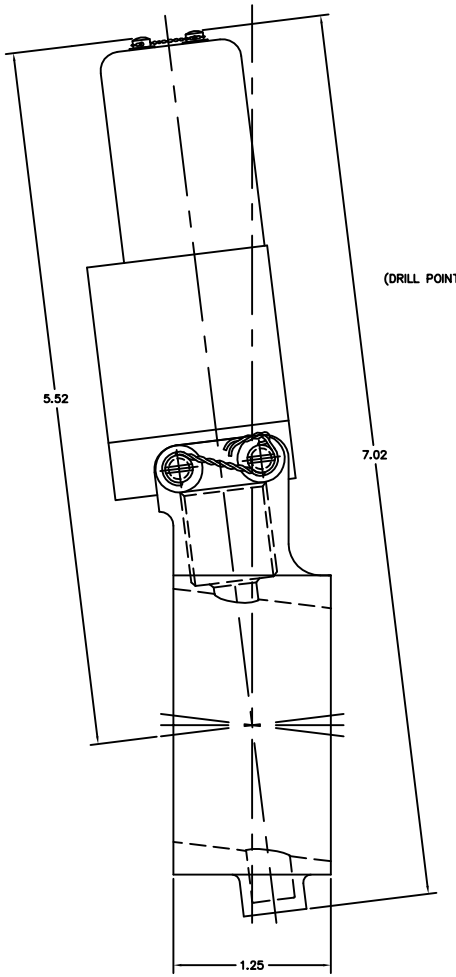
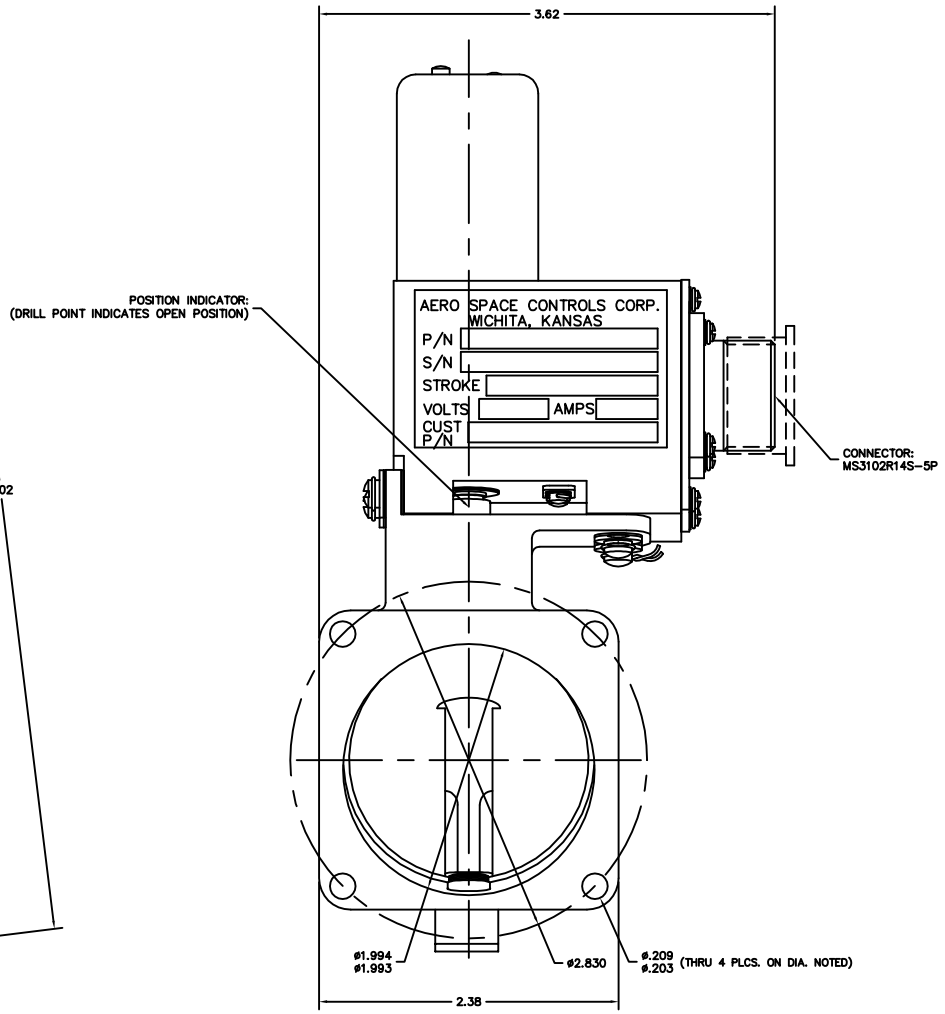
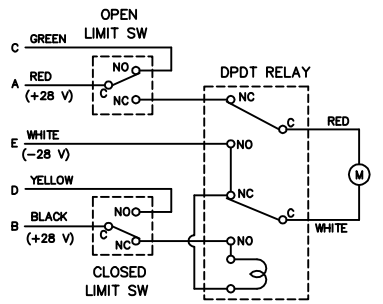
| REVISIONS | | | | |
|---|---|---|---|---|
| C.O. NO. | REV. | REVISION DESCRIPTION | DATE | APPD. |
| ASC4096 | N | SEE SHEET 1 FOR REVISIONS | 12–13–05 | S.A. |




–11 VALVE w/MACHINED BODY




## ELECTRIC SCHEMATIC 1915T100–11

SHOWN IN OPEN POSITION

– FOR DRAFTING PURPOSES THIS SCHEMATIC HAS BEEN GROUPED –

NOTES CONTINUED:

7. AMBIENT TEMPERATURE: –65°F TO 160°F

8. VALVE DATA:
   OPERATING PRESSURE: 130 PSIG AT 550°F
   MAXIMUM LEAKAGE: .50 LB./MIN. AT 130 PSIG & 70°F (INTERNAL)
   .05 LB./MIN. AT 130 PSIG & 70°F (EXTERNAL)

9. ACTUATOR DATA:
   VOLTAGE: 28 VDC
   STALL CURRENT: 1.0 AMP MAX.
   RUNNING CURRENT: .4 AMPS
   DUTY CYCLE: CONTINUOUS
   CYCLE TIME: 2–5 SEC. (FULL OPEN TO FULL CLOSE)

10. UNIT LIFE: A MINIMUM OF 20,000 CYCLES AT STANDARD CONDITIONS

11. LIMIT SWITCH TO CLOSE CIRCUIT 'AC' WHEN VALVE IS COMPLETELY OPEN AND LIMIT SWITCH TO CLOSE CIRCUIT 'BD' WHEN VALVE IS COMPLETELY CLOSED.

12. MICROSWITCH RATING AT 28 VDC, SEA LEVEL:
   – INDUCTIVE: 3 AMP
   – RESISTIVE: 5 AMP

13. APPLIES ONLY TO THE (–3) ASSEMBLY ON SHEET (1).

14. APPLIES ONLY TO THE (–3) ASSEMBLY ON SHEET (1).

15. APPLIES ONLY TO THE (–9) ASSEMBLY ON SHEET (4).

16. THIS SHEET (6) DETAILS THE HIGH TEMPERATURE VALVE BODY OF THIS (–11) ASSEMBLY BEING MADE FROM 303 OR 304 STAINLESS STEEL OR 4140 STEEL.

17. THE (–11) BLEED VALVE ASSEMBLY MAY BE MADE FROM (2) DIFFERENT VALVE BODY STYLES:
   – (1) FROM A CASTING (SEE SHEET 5)
   – (1) FROM MACHINED BAR STOCK (SEE NOTE 16)

| QTY. | ITEM | SIZE | PART NUMBER | DESCRIPTION | MATERIAL | MAT'L. SPEC. | FINISH | FINISH SPEC. |
|---|---|---|---|---|---|---|---|---|
| | | | –11 | BLEED AIR VALVE | NOTE #13 | | | |

LIST OF MATERIALS

DIMENSIONAL SYMBOLS PER ASME Y14.5
▱ FLATNESS
— STRAIGHTNESS
∠ ANGULARITY
⊥ PERPENDICULARITY
// PARALLELISM
◎ CONCENTRICITY
⌖ TRUE POSITION
○ CIRCULARITY (ROUNDNESS)
⌯ SYMMETRY
Ⓜ (MMC) MAXIMUM MATERIAL CONDITION
Ⓢ (RFS) REGARDLESS OF FEATURE SIZE

UNLESS OTHERWISE SPECIFIED
1. DIMENSIONS ARE IN INCHES — TOLERANCES ON —
FRACTIONS ± 1/16 ANGLES ±0° 30'
XX DEC ±.030 DRILL HOLES AND 10387
XXX DEC ±.010
2. SURFACE ROUGHNESS PER MIL–STD–10
3. REMOVE BURRS & BREAK SHARP EDGES .010 MAX.
4. INTERNAL RADII .005 TO .015
THREADS
5. STRAIGHT SCREW MIL–S–7742 TAPERED PIPE MIL–P–7105
6. ALL DIMENSIONS BEFORE PLATING
DO NOT SCALE DRAWING

| SIGNATURES | | DATE |
|---|---|---|
| DR. | D. ORTH | 12–2–04 |
| CHK. | | |
| ENGR. | | |
| APPD. | DON SIMON | 12–2–04 |
| MGR. ASSTN. | | |

AERO SPACE CONTROLS CORPORATION
WICHITA, KANSAS

TITLE: BLEED AIR VALVE

CODE IDENT NO. | SIZE D | DWG NO. 1915T100

SCALE 2:1 | UNIT WT | LBS | SHT 6 OF 6