– NOTICE –
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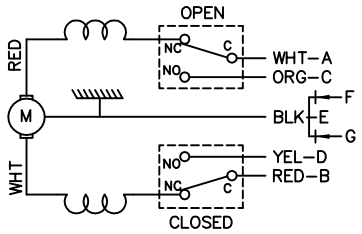
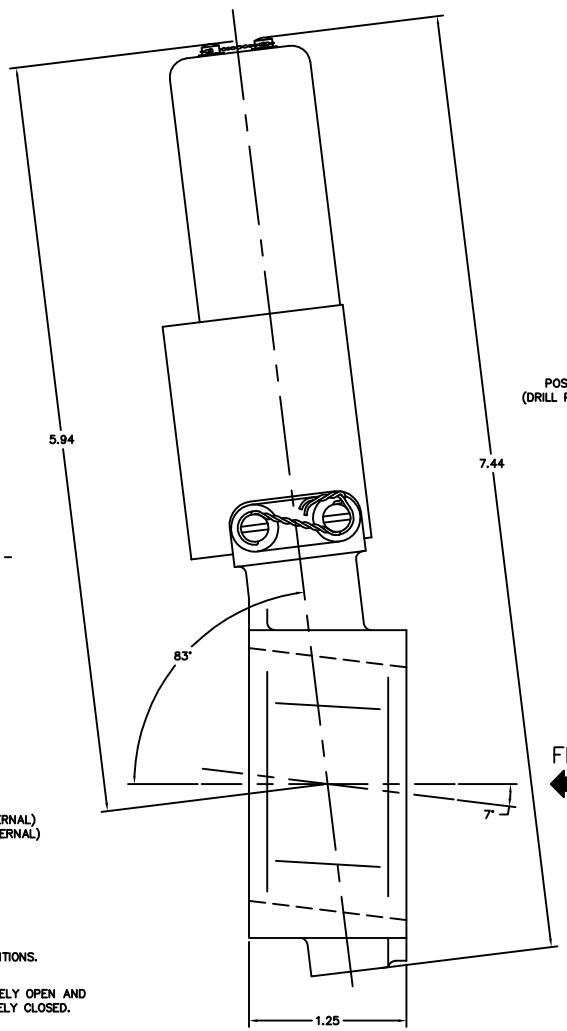
REVISIONS			
C.O. NO.	REV.	REVISION DESCRIPTION	DATE	APPD.
ASC2042	J	REDRAWN TO CAD. DIMENSION CHANGES: IS 7.44 WAS 7.25; IS 5.94 WAS 5.65; IS ø1.993/1.992 WAS ø1.998/1.995.	1–31–02	D.S.
ASC2428	K	ADDED (–9) CONFIGURATION	4–25–03	D.S.
ASC2582	L	ON ALL NOTE LOCATIONS: 'INDUCTIVE: 3 AMP' WAS 'INDUCTIVE: 2 AMP'. FOR (–9): 'CYCLE TIME IS 2–5 SEC.' WAS '2–4 SEC.'; DELETED PROOF PRESSURE, MOTOR: 2 AMP, LAMP: 1 AMP.	7–10–03	D.S.
ASC2965	M	ADD (–11) DETAILING w/CASTING VALVE BODY TO NEW SHEET (5). ADD (–11) DETAILING w/MACHINED VALVE BODY TO NEW SHEET (6). SEE ECO FOR REORGANIZATION OF ALL NOTES BETWEEN ALL SHTS.	12–2–04	D.S.
ASC4096	N	ON SHTs. (1–3) CONNECTOR IS MS3102R16S–1P WAS MS3102A–16S–1P; SHTs. (4–6) IS MS3102R14S–5P WAS MS3102A–14S–5P.	12–13–05	S.A.

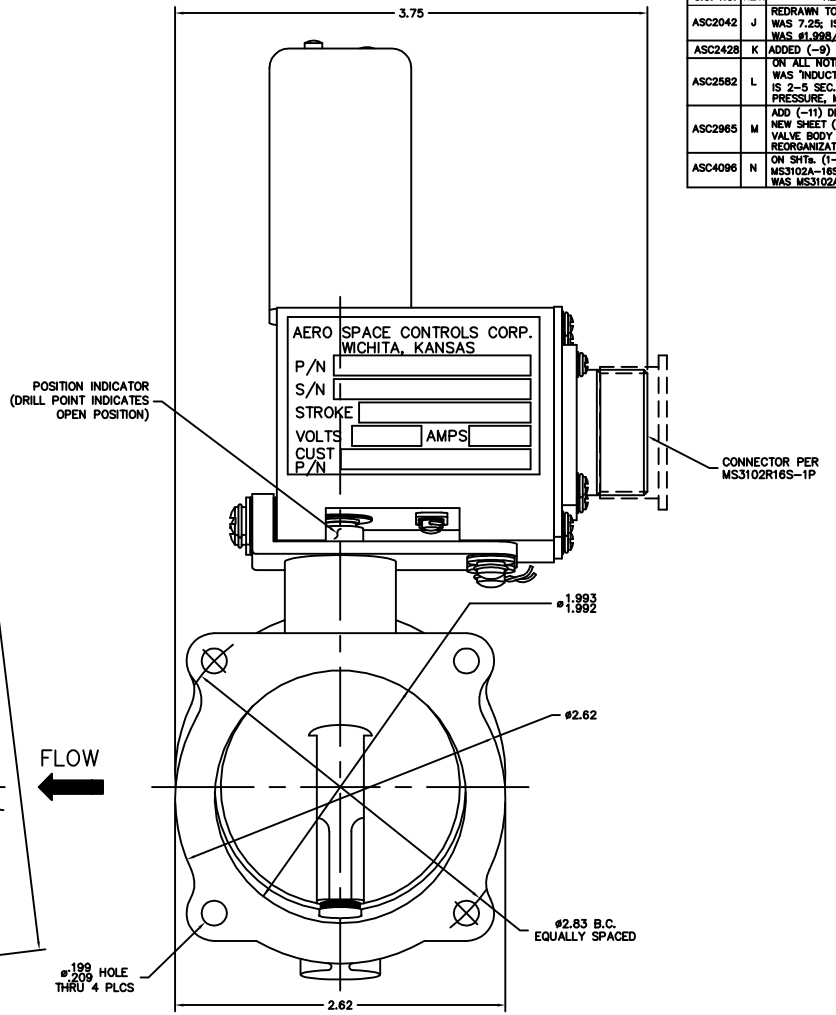


ELECTRICAL SCHEMATIC

SHOWN IN MID–POSITION

– FOR DRAFTING PURPOSES THIS SCHEMATIC HAS BEEN GROUPED –





NOTES CONTINUED:

7. AMBIENT TEMPERATURE: –40°F TO 160°F

8. VALVE DATA:
   OPERATING PRESSURE: 130 PSIG AT 550°F
   PROOF PRESSURE: 195 PSIG AT 550°F
   MAXIMUM LEAKAGE: .50 LB./MIN. AT 130 PSIG AND 70°F (INTERNAL)
   .05 LB./MIN. AT 130 PSIG AND 70°F (EXTERNAL)

9. ACTUATOR DATA:
   VOLTAGE: 28 VDC
   STALL CURRENT: 1.0 AMP MAX.
   RUNNING CURRENT: .4 AMPS
   DUTY CYCLE: CONTINUOUS
   CYCLE TIME: 15–57 SEC. MAX. (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. 1915T100–3 TO MEET OR EXCEED ALL ADDITIONAL REQUIREMENTS AS OUTLINED IN AERO COMMANDER DRAWING 880574–1.

14. HISTORICAL NOTE: THE (–3) IS IDENTICAL TO THE (–BSC) AND (–1) EXCEPT THE (–3) HAS A ONE PIECE CAM SPLINED ONTO OUTPUT SHAFT AND REVISED SWITCH ADJUSTMENT.

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

16. APPLIES ONLY TO (–11) ASSEMBLY ON SHEETS (5) AND (6).

17. APPLIES ONLY TO (–11) ASSEMBLY ON SHEETS (5) AND (6).

–3

–3						
QTY	ITEM	SIZE	PART NUMBER	DESCRIPTION	MATERIAL	MATL SPEC	FINISH	FINISH SPEC

LIST OF MATERIALS

DIMENSIONAL SYMBOLS PER MIL–STD–8B
FLATNESS & STRAIGHTNESS
ANGULARITY
PERPENDICULARITY
PARALLELISM
CONCENTRICITY
TRUE POSITION
ROUNDNESS
SYMMETRY
Ⓜ CIRCLE MAXIMUM MATERIAL CONDITION
Ⓢ CIRCLE REGARDLESS OF FEATURE SIZE

UNLESS OTHERWISE SPECIFIED
1. DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± 1/16 XX DEC. ±.02 XXX DEC. ±.010 ANGLES ±2° DRILL HOLES AND UNDEF
2. SURFACE ROUGHNESS PER MIL–STD–10
3. REMOVE BURRS & BREAK SHARP EDGES .005 MAX
4. INTERNAL RADII .005 TO .015
5. THREADS STRAIGHT SCREW MIL–S–7742 TAPERED PIPE MIL–P–7105
6. ALL DIMENSIONS BEFORE PLATING
DO NOT SCALE DRAWING

SIGNATURES		DATE
DR	DANIEL SIMON	1–31–02
CHK		
ENGR		
APPR	DON SIMON	2–1–02
NEXT ASSY		

AERO SPACE CONTROLS CORPORATION
WICHITA, KANSAS

TITLE: BLEED AIR VALVE

CODE IDENT NO.	SIZE	DWG NO.
	D	1915T100

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