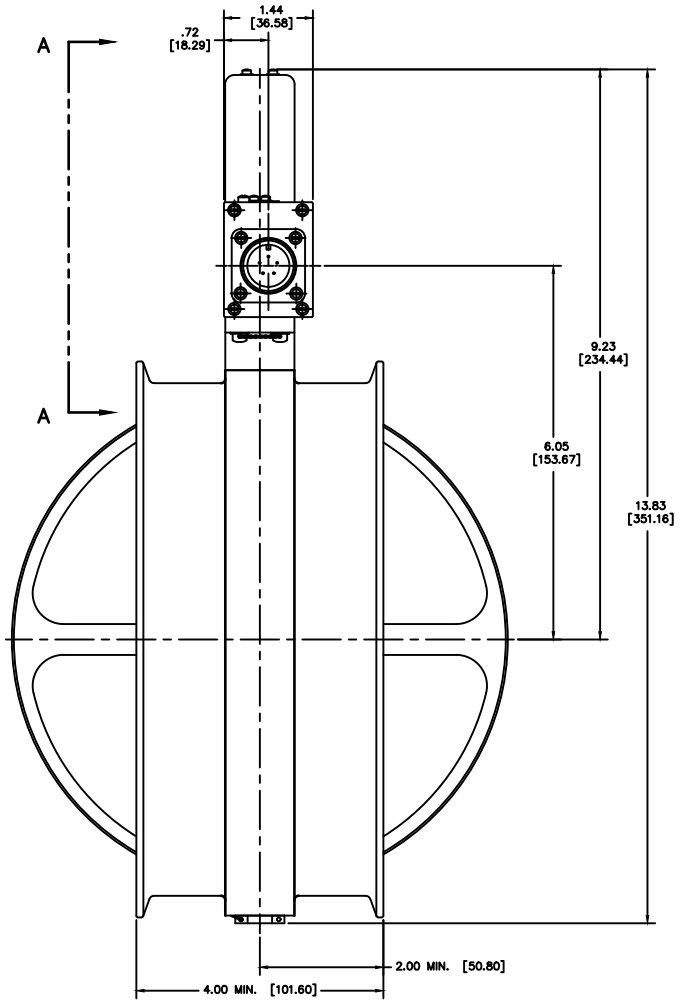
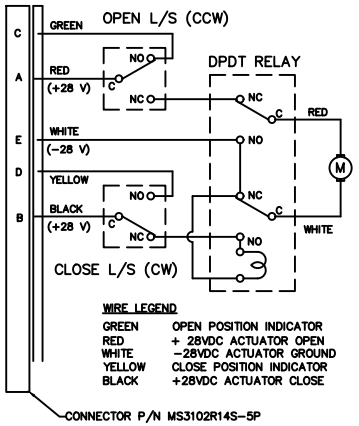
REVISIONS				
C.O. NO.	REV.	REVISION DESCRIPTION	DATE	APPD.



–1 PLAN VIEW



WIRE LEGEND

GREEN	OPEN POSITION INDICATOR
RED	+ 28VDC ACTUATOR OPEN
WHITE	–28VDC ACTUATOR GROUND
YELLOW	CLOSE POSITION INDICATOR
BLACK	+28VDC ACTUATOR CLOSE

CONNECTOR P/N MS3102R14S–5P

NOTES CONTINUED:

7. SPECIFICATIONS AS FOLLOWS:
   –OPERATING TEMPERATURE: –4°F TO 212°F [–20°C TO +100°C]
   –OPERATING PRESSURE: 1.74 PSI [12 Kpa]
   –PROOF PRESSURE: 2.61 PSI [18 Kpa]
   –ULTIMATE PRESSURE: 5.22 PSI [36 Kpa]
   –NOMINAL AIRFLOW RATE: TBD
   –PRESSURE DROP: TBD
   –INTERNAL LEAKAGE: 6.35 SCFM @ 2.61 PSI INLET [3 L/s]
   –EXTERNAL LEAKAGE: .004 SCFM MAXIMUM @ 2.61 PSI INLET
   –OPEN/CLOSE (17V): 35 SECONDS MAXIMUM
   –OPEN/CLOSE (28V): 17 SECONDS MAXIMUM
   –NOMINAL VOLTAGE: 27.0 TO 30.3 VDC
   –MAXIMUM CURRENT: 0.4 AMPS AT 28V
   –CURRENT THROUGH:
   –INTEGRATED M/SWITCHES : 1.0 A MINIMUM
   –CUSTOMER SPECIFICATION No. :

⚠8 SEE SHEET (2)

⚠9 SEE SHEET (2)

QTY.	ITEM	SIZE	PART NUMBER	DESCRIPTION	MATERIAL	MAT'L. SPEC.	FINISH	FINISH SPEC.
			–1	VALVE/ACTUATOR OUTLINE				

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 ASME–B46.1
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

SIGNATURES	DATE
DR. D. ORTH	5–23–16
CHK.	
ENGR.	
APPD.	
NEXT ASSY:	

6. ALL DIMENSIONS BEFORE PLATING

DO NOT SCALE DRAWING

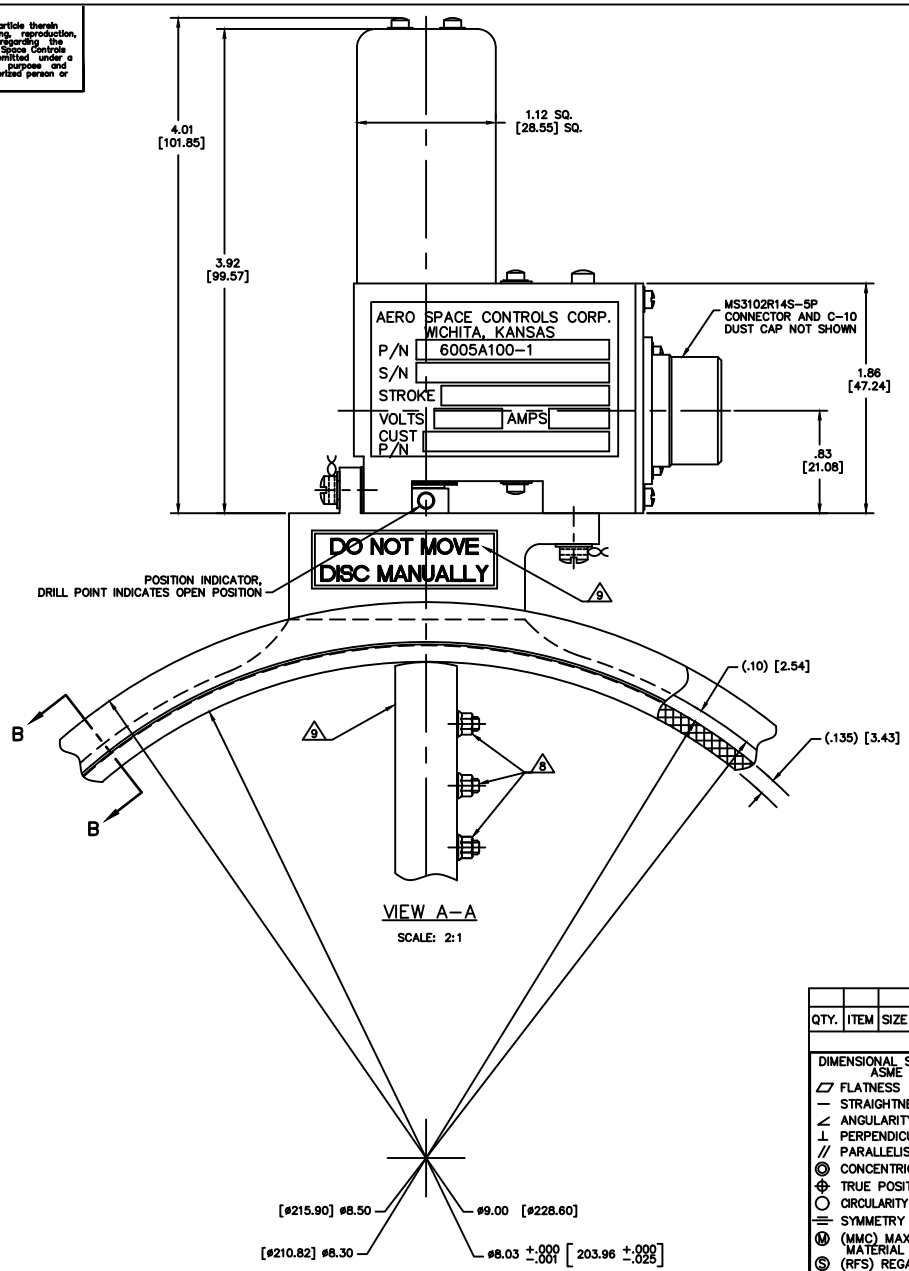
AERO SPACE CONTROLS CORPORATION
WICHITA, KANSAS

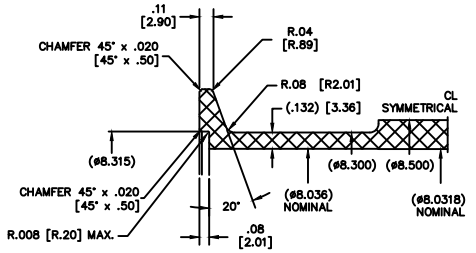
TITLE:
VALVE AND ACTUATOR
– OUTLINE –

CODE IDENT No.	SIZE	DWG. No.
	D	6005A100

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

REVISIONS				
C.O. NO.	REV.	REVISION DESCRIPTION	DATE	APPD.
		SEE SHEET 1 FOR REVISIONS		





SECTION 'B–B'
SCALE: 2:1

NOTES CONTINUED:

7. SEE SHEET (1)

8 AFTER FINAL ADJUSTMENT–PLACE VALVE ASSEMBLY IN AN OPEN POSITION. IN THE OPEN POSITION THE DRILL POINT ON THE COUPLING SHOULD BE VISIBLE FROM THE SIDE. A RIGHT SIDE ORIENTATION (AS SHOWN IN VIEW A–A) OR A LEFT SIDE ORIENTATION OF THE SET SCREWS/LOCKING NUTS IN RELATION TO THE BUTTERFLY DISC IS POSSIBLE AND ALSO PERMISSIBLE.

9 TO AVOID DAMAGE TO THE INTERNAL GEARBOX APPLICABLE TO THIS PRODUCT THE DISK SHOULD NEVER BE OPERATED MANUALLY

QTY.	ITEM	SIZE	PART NUMBER	DESCRIPTION	MATERIAL	MAT'L. SPEC.	FINISH	FINISH SPEC.
			–1	VALVE/ACTUATOR OUTLINE				

LIST OF MATERIALS

DIMENSIONAL SYMBOLS PER ASME Y14.5
- FLATNESS
- STRAIGHTNESS
- ANGULARITY
- PERPENDICULARITY
- PARALLELISM
- CONCENTRICITY
- TRUE POSITION
- CIRCULARITY (ROUNDNESS)
- SYMMETRY
- (M) (MMC) MAXIMUM MATERIAL CONDITION
- (S) (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

SIGNATURES	DATE
DR. D. ORTH	5–23–16
CHK.	
ENGR.	
APPD.	
NEXT ASSY:	

6. ALL DIMENSIONS BEFORE PLATING

DO NOT SCALE DRAWING

AERO SPACE CONTROLS CORPORATION
WICHITA, KANSAS

TITLE:
VALVE AND ACTUATOR
– OUTLINE –

CODE IDENT No.	SIZE	DWG. No.
	D	6005A100

SCALE: 2:1	UNIT WT.	LBS.	SHT. 2 OF 2