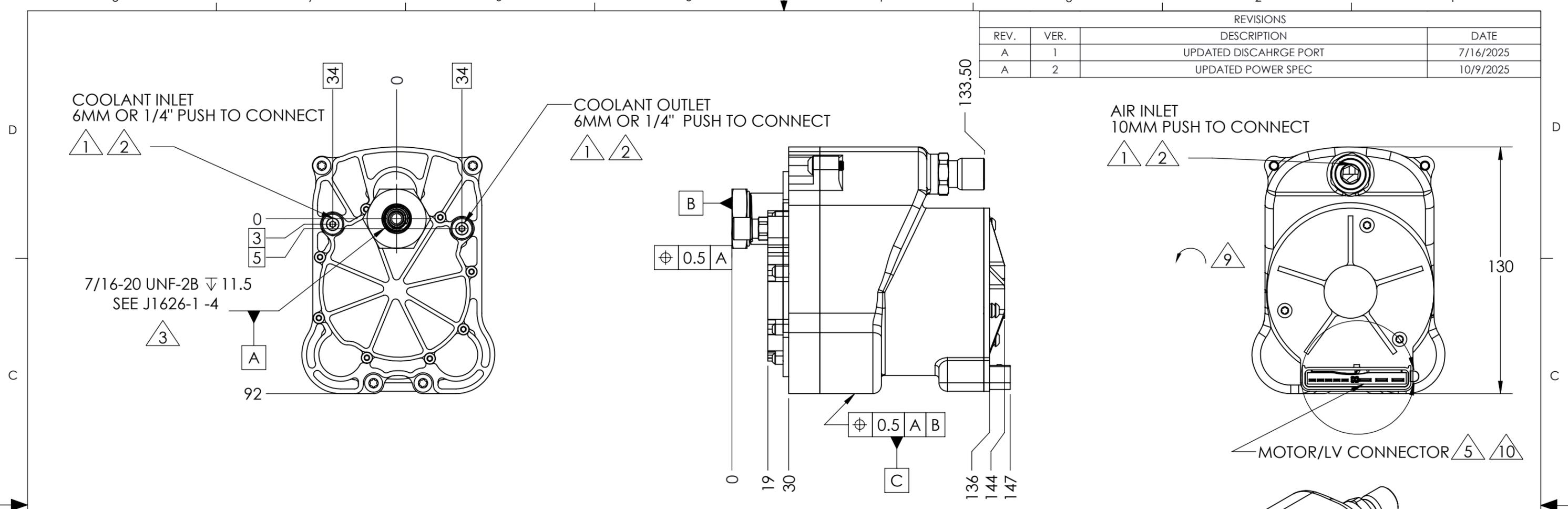


REVISIONS			
REV.	VER.	DESCRIPTION	DATE
A	1	UPDATED DISCAHRGE PORT	7/16/2025
A	2	UPDATED POWER SPEC	10/9/2025



COMPRESSOR SPECS	
MAX DISCHARGE PRESSURE	21 BAR <sub>A</sub>
MAX FLOW RATE	45.3 LPM <sub>v</sub>
MAX SPEED RATING	4000 RPM
MASS	2.2 KG
MAX DUTY CYCLE	100%
AMBIENT TEMP	-40 - 55 C
AMBIENT HUMIDITY	0 - 95% RH
COOLANT TEMP	0 - 55 C
COOLANT FLOW	0.5 - 2 LPM
COOLANT PRESSURE	1.5 - 3 BAR <sub>G</sub>
IP RATING $\nabla$ 5	IP6K9K, IP67
SOUND	60 DB(A) NOMINAL

ELECTRICAL SPECS	
MOTOR VOLTAGE	48 VDC
CONTINUOUS RATED LINE CURRENT	TBD
MAX POWER @ 21 BAR <sub>A</sub> /37.5 NLPM	1225 W
SINE/COSINE SIGNAL	+5 VDC

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DEFAULT TOLERANCES:  
 X.  $\pm$  2.0  
 .X  $\pm$  1.0  
 .XX  $\pm$  0.50  
 ANGULAR  $\pm$  3.0°

INTERPRET DRAWING PER ASME Y14.5-2009

DIMENSIONS ARE IN MM

**Air squared**

DESCRIPTION:  
**SCROLL COMPRESSOR**

SIZE	PART NO.	REV.
<b>B</b>	<b>P09H015B-A01</b>	<b>A</b>

SHEET 1 OF 3 | SCALE: 1:5

INTERFACES:

- 1. UNIT TO BE SHIPPED WITH PROTECTIVE COVERS ON WORKING FLUID AND COOLANT PORTS
- 2. STANDARD POSITION TOLERANCE:  $\begin{matrix} \oplus & 3 & A & B & C \end{matrix}$
- 3. RECOMMENDED TORQUE SPECIFICATION: 20 NM+/- 1 NM
- 4. EVACUATE COOLANT LINES WITH A MINIMUM PRESSURE OF 0.15 PSIA
- 5. IP RATING ONLY VALID WHEN MATING ELECTRICAL CONNECTORS ARE INSTALLED
- 6. RED LOCTITE 262 (OR EQUIVALENT) RECOMMENDED
- 7. BLUE LOCTITE 242 (OR EQUIVALENT) RECOMMENDED
- 8. UNIT MOUNTING ORIENTATION IS FLEXIBLE. DOWNWARD MOTOR ORIENTATION IS NOT PREFERRED.
- 9. PROPER OPERATING DIRECTION WHEN VIEWED FROM RESPECTIVE ORIENTATION
- 10. MATING CONNECTOR/HARNESS AVAILABLE

PROPER STORAGE:

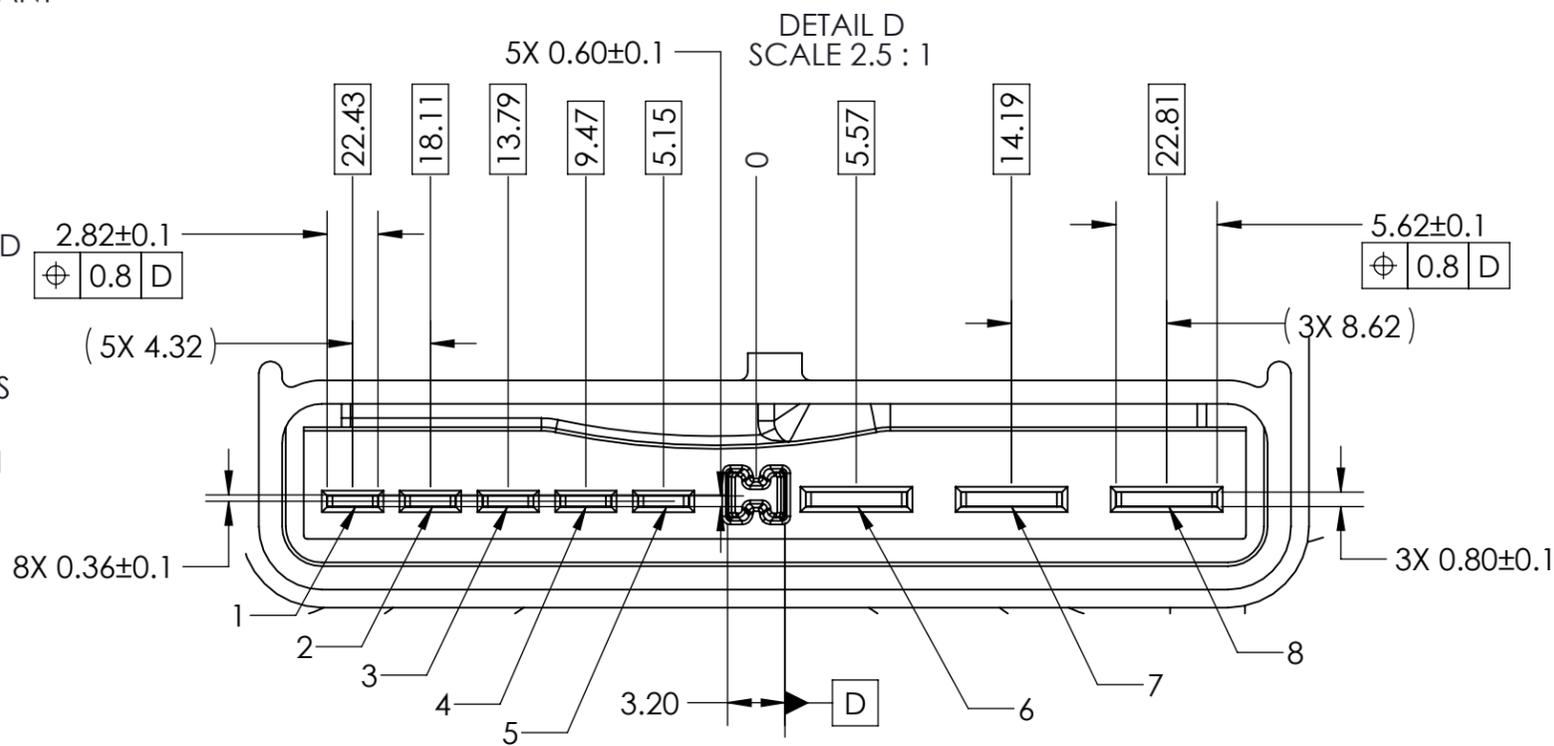
- 11. UNITS ARE RECOMMENDED TO BE RETURNED TO ITS ORIGINAL PACKAGING FOR SAFEKEEPING AND PROTECTION AGAINST DENTS OR SCRATCHES
- 12. STORE UNITS INDOORS, IN A DRY AREA, TO PREVENT DUNNAGE BREAKDOWN AND GENERAL OXIDATION
  - IF A DRY AREA IS UNAVAILABLE PLACE THE UNIT IN AN APPROPRIATELY SIZED VAPOR CORROSION INHIBITOR (VCI) BAG, AND THEN BACK INTO ITS ORIGINAL PACKAGING
- 13. KEEP ALL INTERFACES CAPPED OR COVERED TO AVOID OXIDATION OF CRITICAL FEATURES
- 14. MAXIMUM SHELF LIFE OF 18 MONTHS WITHOUT OPERATION

HANDLING INSTRUCTIONS

- 15. AVOID CONTACT WITH EXTERNAL OBJECTS TO PREVENT DENTS OR SRATCHES
- 16. ENSURE THE UNIT IS NOT RUNNING AND IS POWERED OFF BEFORE DISCONNECTING

CLEANLINESS SPECIFICATION:

- 17. UNITS WILL SHIP FROM AIR SQUARED IN ACCORDANCE WITH AIR SQUARED CLEANLINESS SPECIFICATION
  - EXTERNAL SURFACES WILL BE FREE OF DEBRIS, BURRS, OIL, LUBRICANT, AND CORROSION



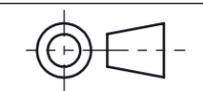
ELECTRICAL CONNECTION	
TERMINAL	FUNCTION
1	SINE SIGNAL
2	SENSOR SUPPLY VOLTAGE (+5V)
3	COSINE SIGNAL
4	SENSOR GROUND
5	EMC GROUND
6	PHASE U
7	PHASE V
8	PHASE W

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DEFAULT TOLERANCES:  
 X. ± 2.0  
 .X ± 1.0  
 .XX ± 0.50  
 ANGULAR ± 3.0°

INTERPRET DRAWING PER ASME Y14.5-2009

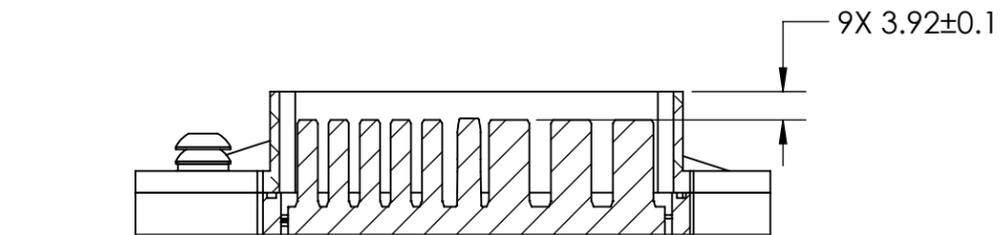
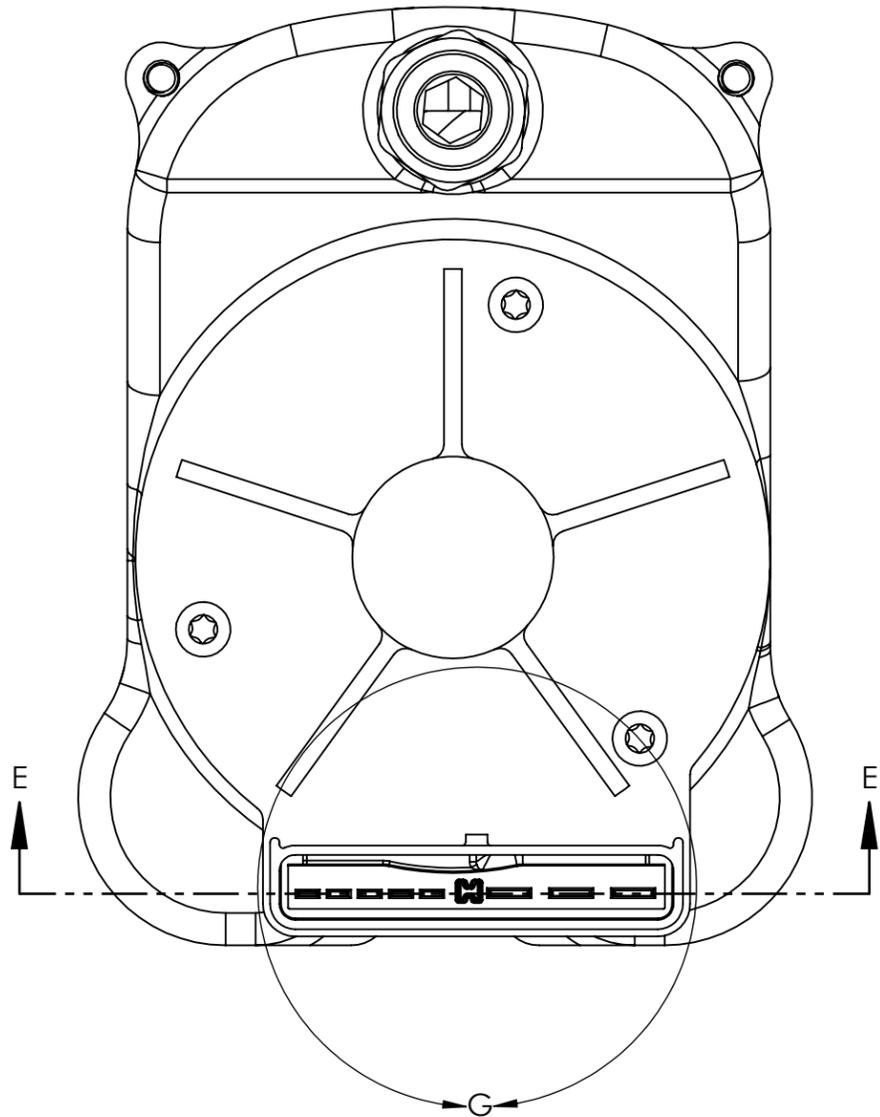
DIMENSIONS ARE IN MM



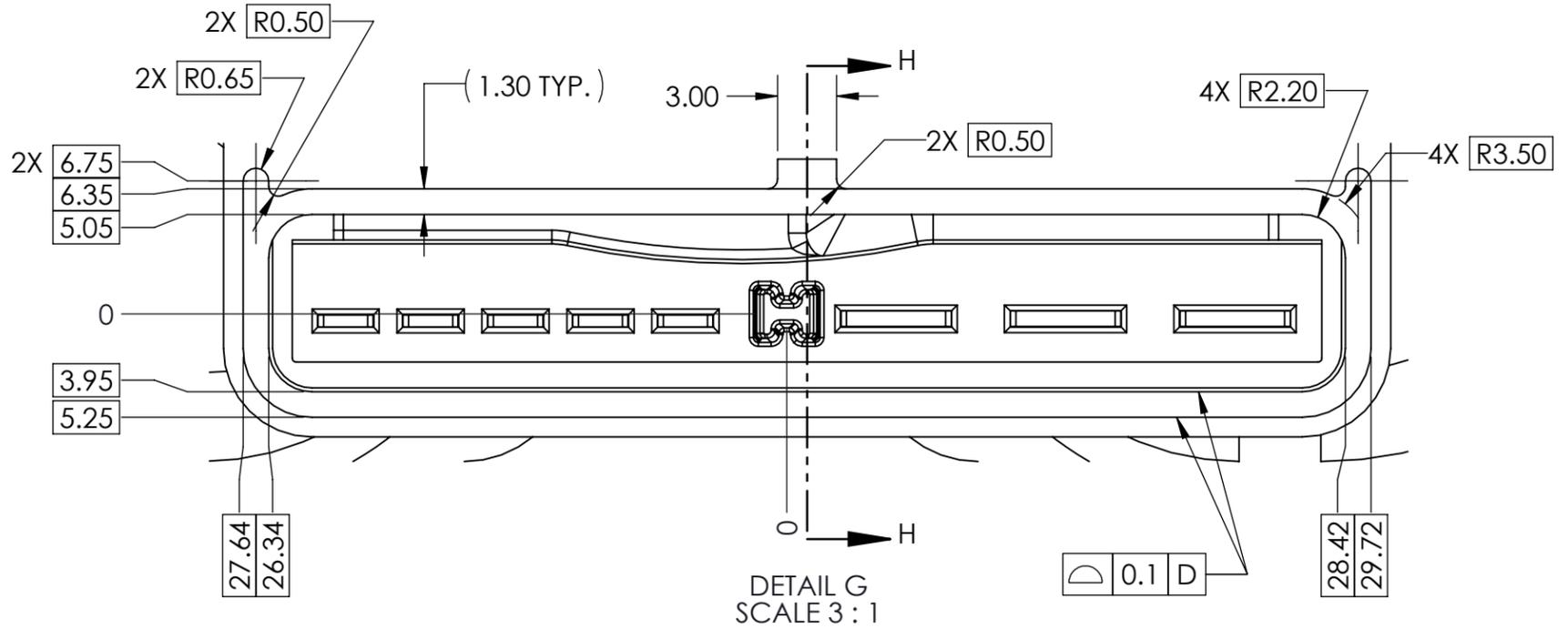
**Air squared**

DESCRIPTION:  
**SCROLL COMPRESSOR**

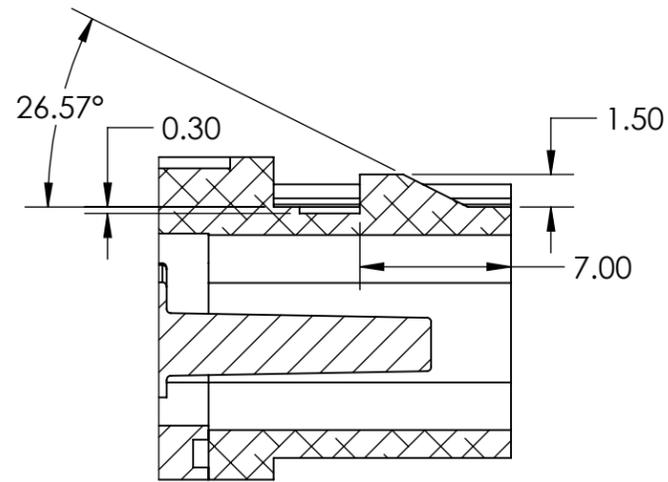
SIZE <b>B</b>	PART NO. <b>P09H015B-A01</b>	REV. <b>A</b>
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SECTION E-E  
SCALE 1 : 1



DETAIL G  
SCALE 3 : 1



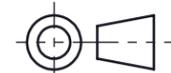
SECTION H-H  
SCALE 3 : 1

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DEFAULT TOLERANCES:

- X. ± 2.0
- .X ± 1.0
- .XX ± 0.50
- ANGULAR ± 3.0°



INTERPRET DRAWING  
PER ASME Y14.5-2009

DESCRIPTION:

SCROLL COMPRESSOR

DIMENSIONS ARE IN MM

SHEET 3 OF 3

SCALE: 1:5

SIZE  
**B**

PART NO.

P09H015B-A01

REV.  
**A**