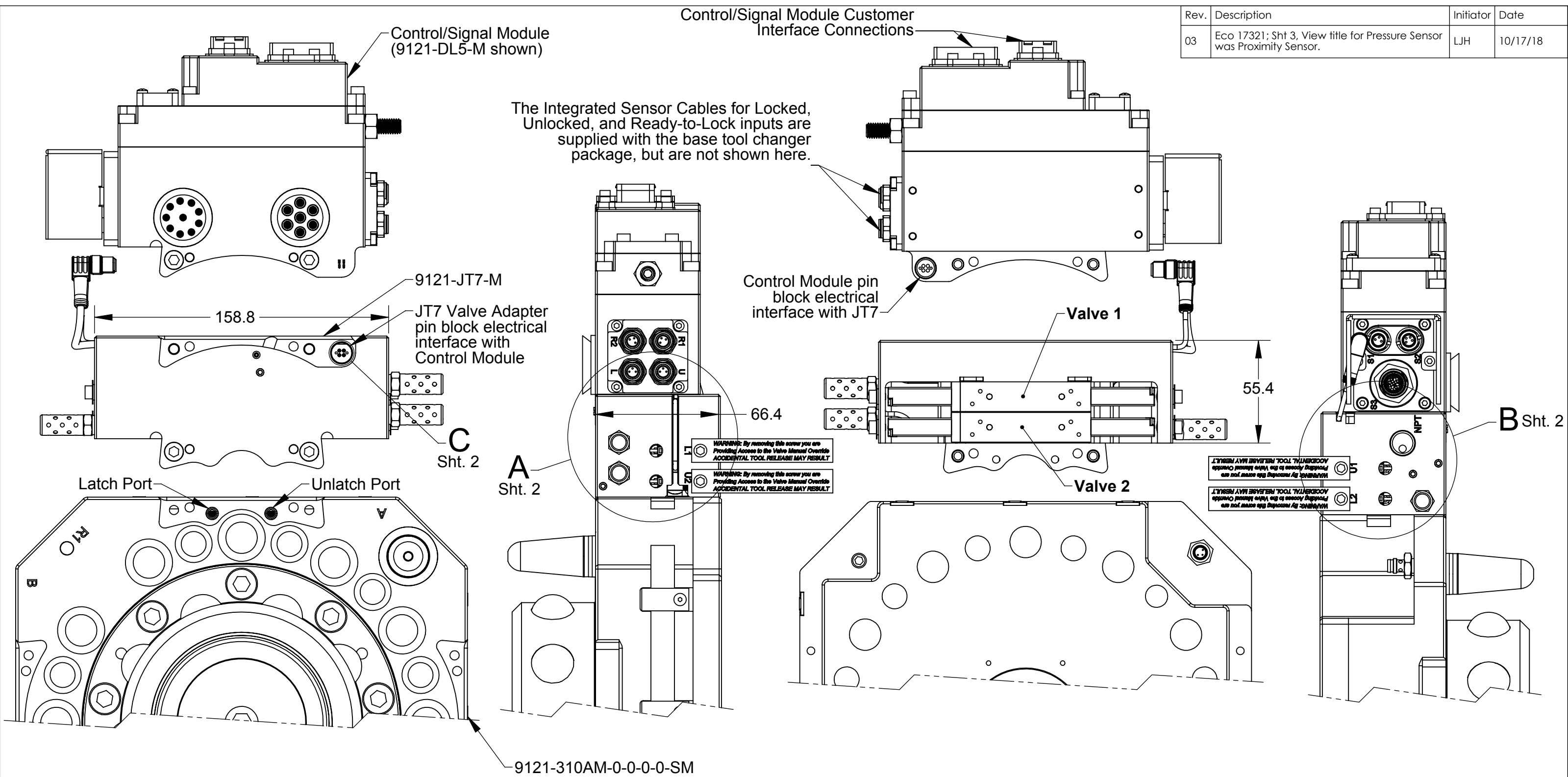


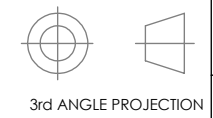
Rev.	Description	Initiator	Date
03	Eco 17321; Sht 3, View title for Pressure Sensor was Proximity Sensor.	LJH	10/17/18



- General Notes:**
1. Refer to Sheet 2 for functional notes and information concerning the connector pin designations and use of the manual override.
 2. Refer to Sheet 3 for the pneumatic circuit diagram and operational details.
 3. The 9121-310AM-JT7DL5-0-0-0-0-SM shown above includes:
 - 9121-310AM-0-0-0-0-SM: QC-310 Tool Changer, Integrated PNP Sensors w/ LEDs
 - 9121-JT7-M: Valve Adapter, Dual Double Solenoid Valves, NPT, QC-310, w/ Proximity and Pressure Sensor
 - 9121-DL5-M: PL d Compliant Profinet Control Module
 4. Valve Adapter spacer block 9121-JR4-T must be used opposite the JT7-M on the Tool Side of the Tool Changer.

NOTES: UNLESS OTHERWISE SPECIFIED.

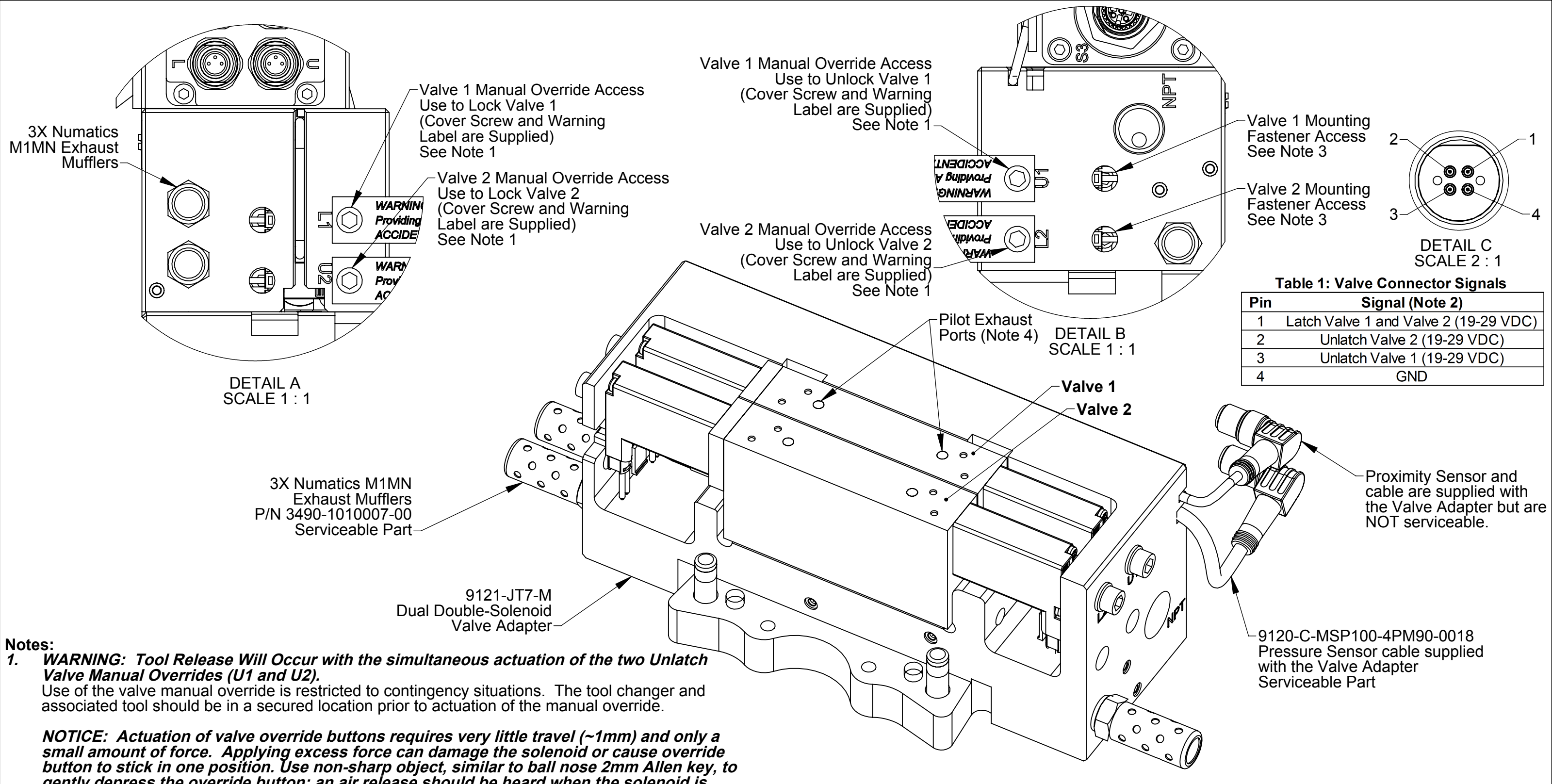
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DRAWN BY: A. Takla, 11/10/16		TITLE	
CHECKED BY: W. Berrocal 11/10/16		Valve Adapter, Dual Double Solenoid Valves, NPT, QC-310, w/Proximity and Pressure Sensor	
PROJECT # 160722-1	SHEET 1 OF 3	SCALE 1:2	SIZE B
DRAWING NUMBER 9630-20-JT7		REVISION 03	



Notes:

1. **WARNING: Tool Release Will Occur with the simultaneous actuation of the two Unlatch Valve Manual Overrides (U1 and U2).**
Use of the valve manual override is restricted to contingency situations. The tool changer and associated tool should be in a secured location prior to actuation of the manual override.

NOTICE: Actuation of valve override buttons requires very little travel (~1mm) and only a small amount of force. Applying excess force can damage the solenoid or cause override button to stick in one position. Use non-sharp object, similar to ball nose 2mm Allen key, to gently depress the override button; an air release should be heard when the solenoid is activated.

Insert a ball-end 2mm hex key or similar blunt object in the two locations shown and manually depress both valve manual overrides (must be depressed simultaneously). Replace the cover screws and warning labels when finished.

- Signals are sourced from the Control Module via the 4-Pin Block. The JT7 is designed to operate with a Control Module generating two independent Unlatch signals (i.e. dual channel) such as the 9121-DL5-M PLd Compliant Profinet Module.
- The valve mounting access holes are to be used only in a valve replacement situation. A 3mm hex key is to be used to loosen the cone point set screws that retain the valve. Care should be taken to avoid damaging the valve solenoid connector during the valve removal process.
- To ensure proper valve operation, do not block or restrict the Pilot Exhaust ports.

NOTES: UNLESS OTHERWISE SPECIFIED.

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3rd ANGLE PROJECTION

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DRAWN BY: A. Takla, 11/10/16

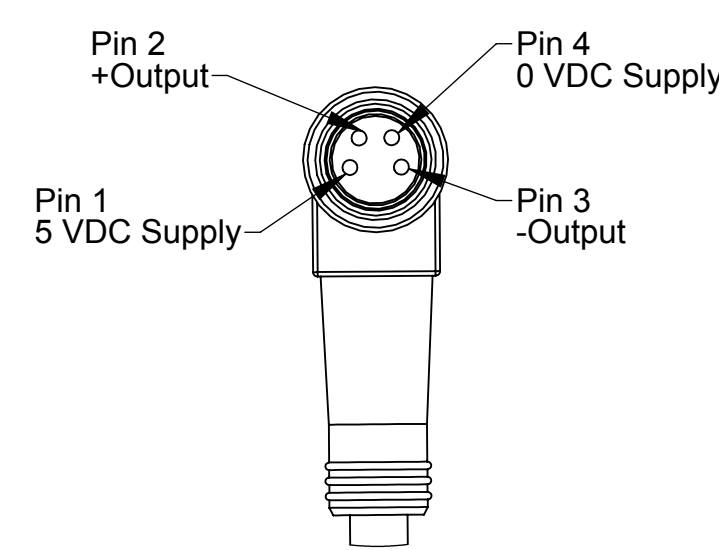
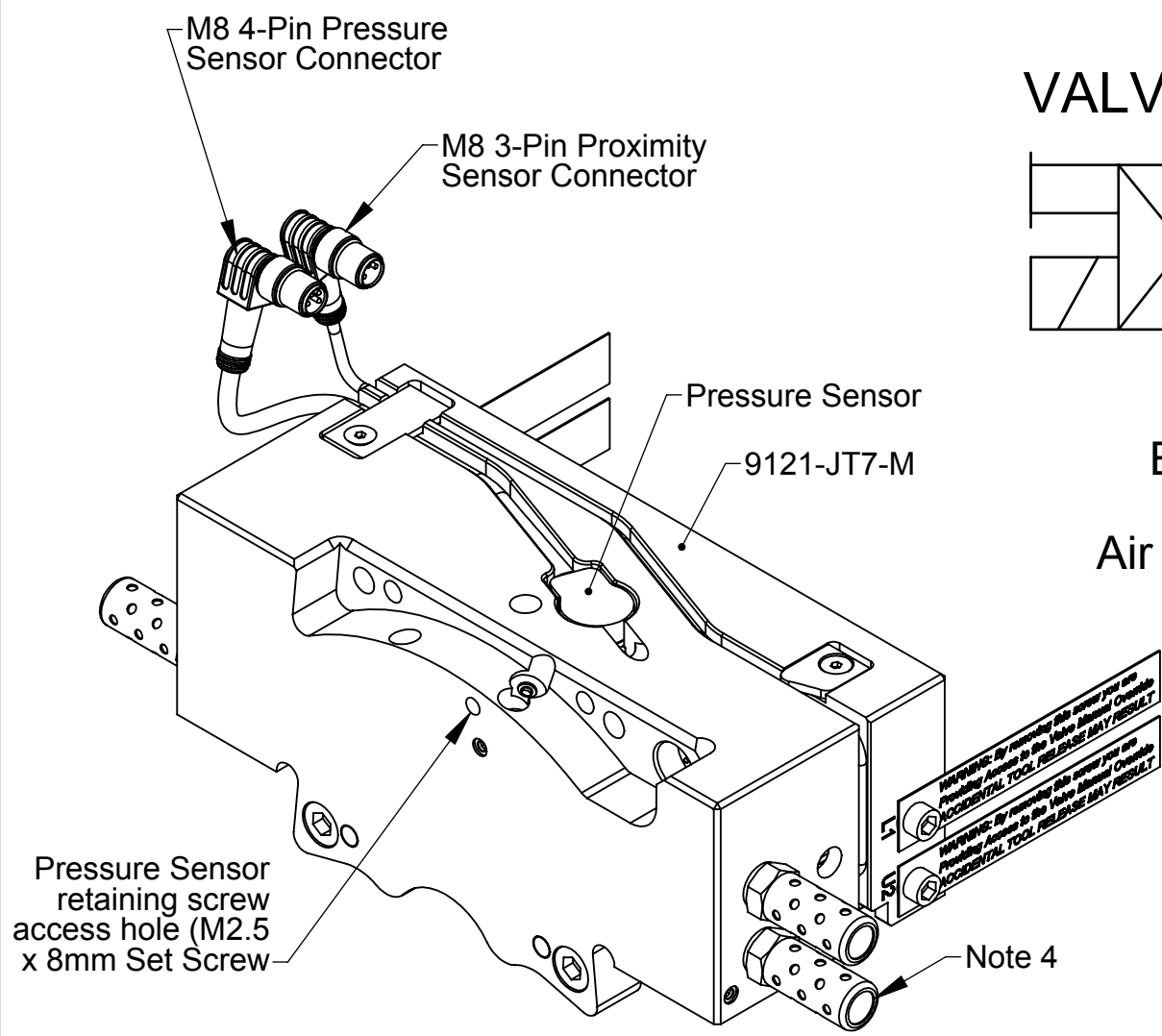
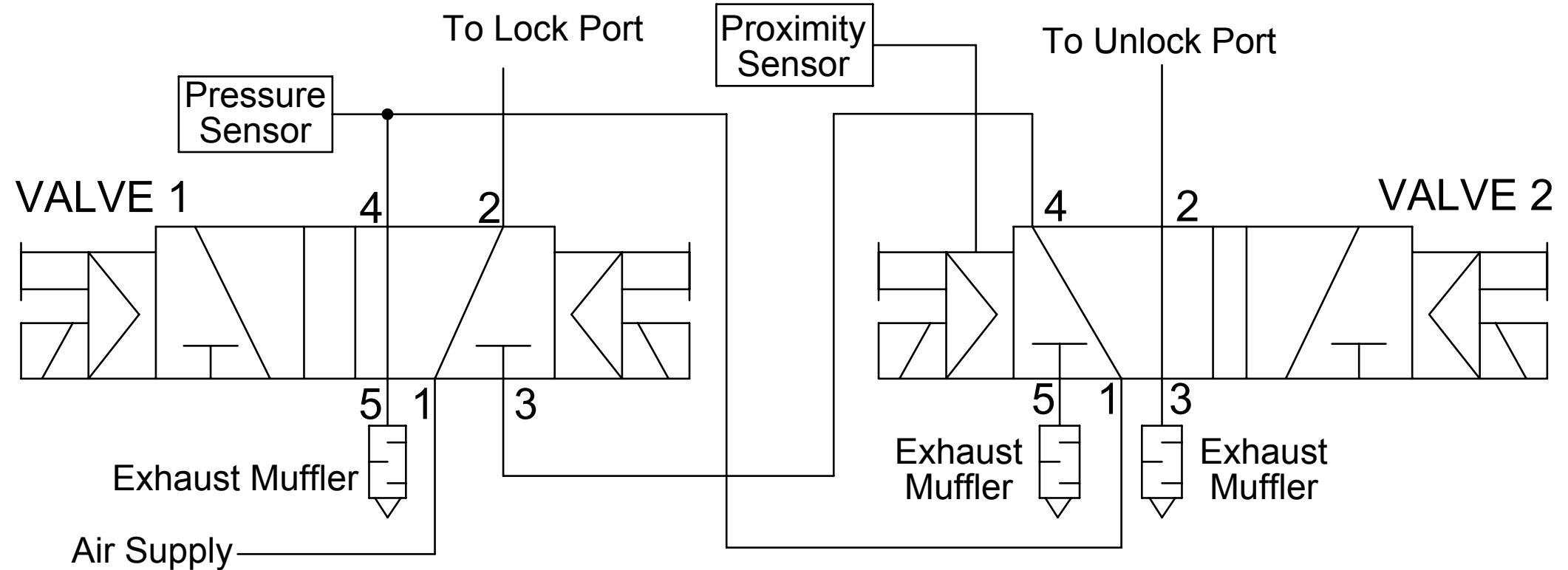
CHECKED BY: W. Berrocal 11/10/16

PROJECT # 160722-1 SHEET 2 OF 3

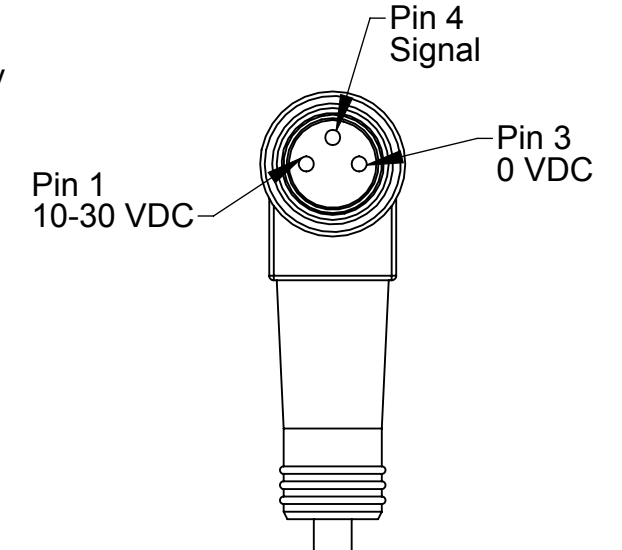
TITLE
Valve Adapter, Dual Double Solenoid Valves, NPT, QC-310, w/Proximity and Pressure Sensor

SCALE	SIZE	DRAWING NUMBER	REVISION
1:2	B	9630-20-JT7	03

9121-JT7-M PNEUMATIC CIRCUIT (Note 1)



Pressure Sensor Interface Connector



Proximity Sensor Interface Connector

- Notes:**
1. The 9121-JT7-M valve adapters pneumatically interlink two 5/2 valves to reduce the probability of an unintended tool unlock. With this design, the Tool Changer will unlock ONLY when BOTH valves are in the UNLATCH position. Note: Two independent Unlatch signals are required to energize the two valves and cause the Tool Changer to unlock. To lock the Tool Changer, a single Latch signal is provided to both valves.
 2. The 9121-JT7-M Valve Adapter must be used with a Control Signal module that can support the pressure sensor and proximity sensor inputs generated by the JT7 (ex. 9121-DL5-M). Reference manual for detailed instructions on the operation of the JT7.
 3. The valves must be supplied clean, dry, non-lubricated air at 60 to 100 psi (4.1-6.9 Bar) and filtered at 40 microns or better. NOTE: The valves will NOT operate correctly if insufficient air pressure is supplied.
 4. It is critical that the exhaust mufflers are not restricted. As part of a preventative maintenance program, periodically inspect and/or replace the exhaust mufflers.

NOTES: UNLESS OTHERWISE SPECIFIED. DO NOT SCALE DRAWING. ALL DIMENSIONS ARE IN MILLIMETERS.			1031 Goodworth Drive, Apex, NC 27539, USA Tel: +1.919.772.0115 Email: info@ati-ia.com Fax: +1.919.772.8259 www.ati-ia.com ISO 9001 Registered Company	
	DRAWN BY: A. Takla, 11/10/16 CHECKED BY: W. Berrocal 11/10/16		TITLE Valve Adapter, Dual Double Solenoid Valves, NPT, QC-310, w/Proximity and Pressure Sensor	
		PROJECT # 160722-1 SHEET 3 OF 3	SCALE 1:2 SIZE B	DRAWING NUMBER 9630-20-JT7 REVISION 03

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