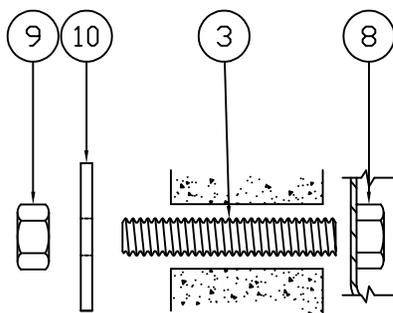


LR1673-2-03

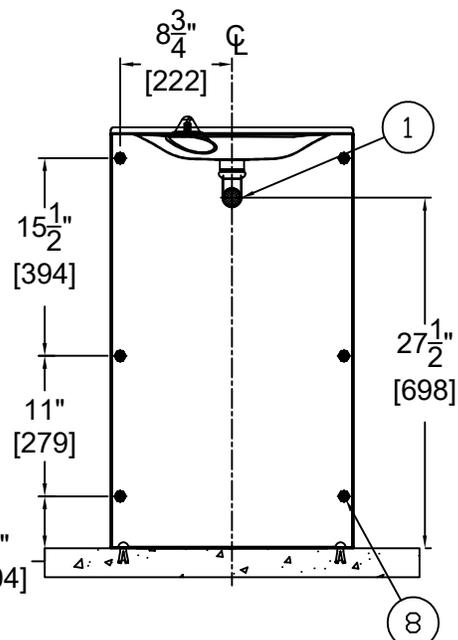
REFERENCE DRAWINGS	
AIR-CONTROL CONNECTIONS	9905-006-001
FIXTURE TRIM (SINGLE TEMP.)	4854-020-001
-SW WALL SLEEVE	9925-267-001
OPTIONAL VALVES:	
-MVC1 TIME-TROL	9900-001-004
-EVS1 MASTER-TROL	9905-330-004

**WARNING:**

WATER FLOW PRESSURE 25/100 PSI MIN/MAX. RECOMMENDED OUTLET TEMPERATURE 105°F MAX. FLUSH ALL SUPPLY LINES THOROUGHLY BEFORE CONNECTING. DRAIN VALVE PRIOR TO FREEZING TEMPERATURES.



**MOUNTING DETAIL**



**VIEW FROM FIXTURE SIDE**

**ROUGH-IN FOR THE FOLLOWING:**

- FIXTURE WASTE: 1-1/2" OD PLAIN END WASTE OUTLET [1].
- SUPPLY INLET: 1/2" NPS HOSE END VALVE CONNECTION [2].
- NOTE: HOSE END CONNECTION WILL ACCOMMODATE 1/2" NPT ADAPTER.
- THRU WALL OPENINGS FOR ANCHORING STUDS [3], AIR [4] AND RISER [5] TUBING.

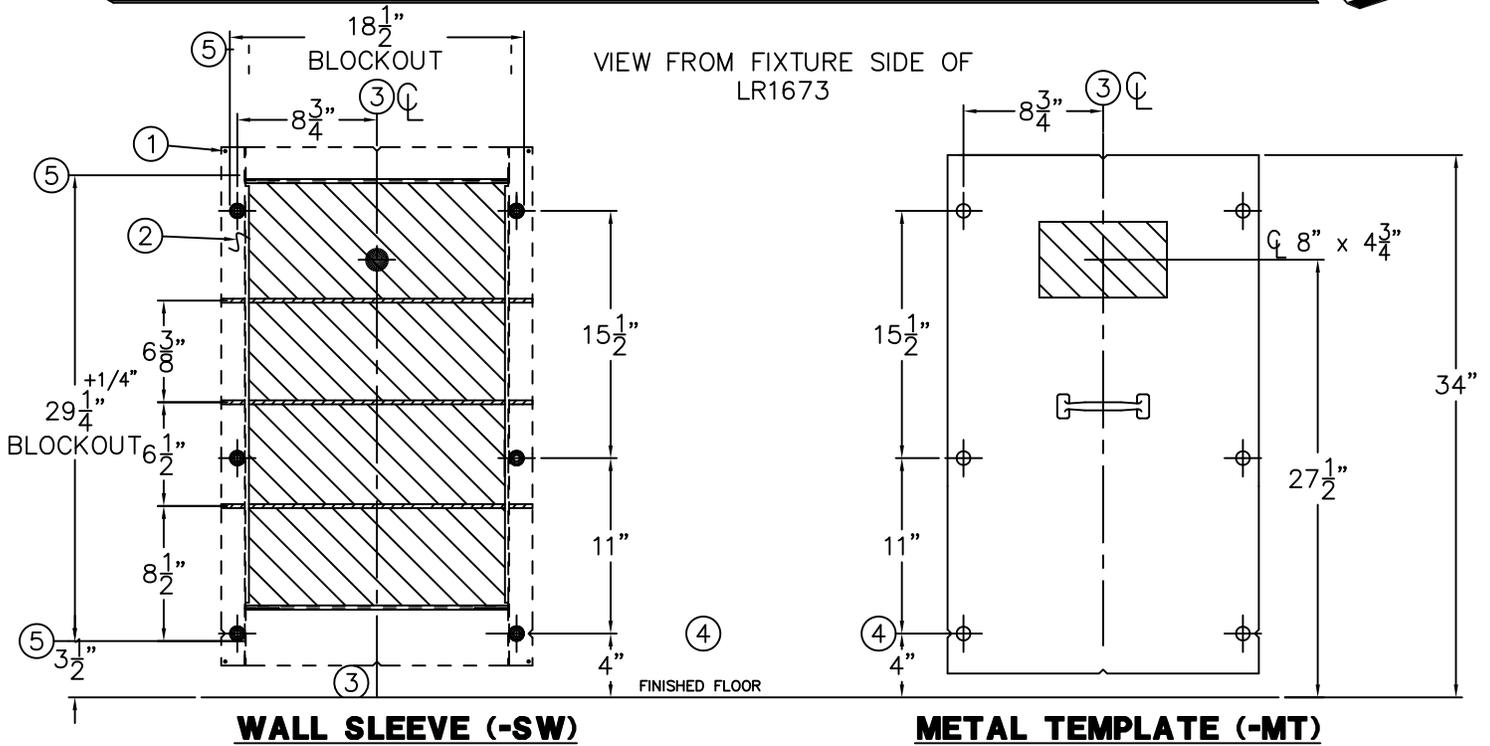
**INSTALLATION INSTRUCTIONS:**

- A- MOUNT BUBBLERS [6] AND PUSHBUTTONS [7] TO FIXTURE. SEE DRAWING 9905-006-001 FOR DETAILS.
- B- THREAD 1/4"-20 UNC STUDS [3] INTO FIXTURE REAR ANCHOR TAPPINGS [8] NOTE: STUDS MUST HAVE 1/2" MINIMUM ENGAGEMENT.

- C- FROM CELL SIDE, ALIGN ANCHOR STUDS [3] WITH THRU WALL OPENINGS AND SLIDE UNTIL UNIT RESTS AGAINST THE FINISHED WALL.
- D- FROM CHASE SIDE, ANCHOR FIXTURE USING NUTS [9] AND WASHERS [10] PROVIDED.
- E- MAKE UP WASTE CONNECTION [1].
- F- AFTER THOROUGHLY FLUSHING SUPPLY LINES MAKE UP VALVE INLET CONNECTION [2].
- G- SEE APPROPRIATE SHEETS FOR VALVE DETAILS.



TITLE <b>ACORN LIGATURE-RESISTANT DRINKING FOUNTAIN, LR1673</b>		
MANUFACTURE DATE <b>AUGUST 2023 TO PRESENT</b>	DATE ISSUED <b>8/28/23</b>	DRAWING NUMBER <b>9925-197-001</b>
	DATE REVISED	



**WALL SLEEVE (-SW)**

**METAL TEMPLATE (-MT)**

RIGHT HAND FIXTURE ROUGH-INS SHOWN FROM FIXTURE SIDE, LEFT HAND FIXTURE OPPOSITE

SHADED AREAS ARE REQUIRED WALL OPENINGS

**WALL SLEEVE**

SLEEVES ARE INSTALLED IN FORMS (USING NAIL HOLES ① PROVIDED) OR GROUTED INTO BLOCK WALLS, BECOMING A PERMANENT PART OF WALL.

- A. INSTALL SLEEVE WITH FLANGE ② ON CHASE SIDE OF WALL.
- B. LOCATE TOP AND BOTTOM NOTCHES AT VERTICAL CENTERLINE ③ OF PLUMBING FIXTURE.
- C. LOCATE SIDE NOTCHES ④ AT DIMENSION SHOWN, MEASURED FROM THE FINISHED FLOOR ON CELL (FIXTURE) SIDE.

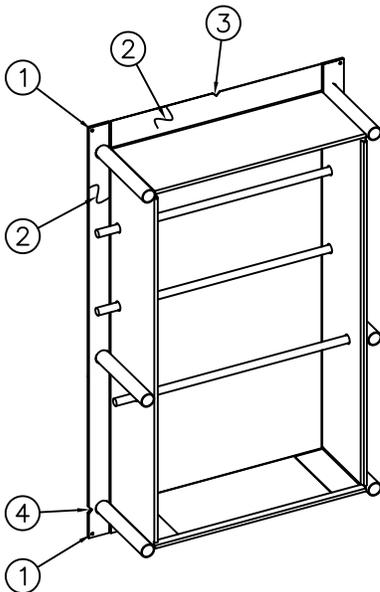
**NOTES:**

- 1. FOR POURED WALL CONSTRUCTION, TEMPORARY BRACING SHOULD BE INSTALLED WITHIN SLEEVE OPENING TO PREVENT DEFORMATION TO SLEEVE WHICH MAY OCCUR DURING POUR. DO NOT POUR CONCRETE DIRECTLY ON TOP OF WALL SLEEVE.
- 2. WHEN SLEEVES ARE NOT AVAILABLE BLOCKOUT FOR SLEEVE OPENING IN WALL PER DIMENSIONS SHOWN ⑤.

**METAL TEMPLATE**

TEMPLATES ARE USED TO LAYOUT REQUIRED WALL OPENINGS FOR SUBSEQUENT FLAME CUTTING OR CORE DRILLING.

- A. STRIKE A HORIZONTAL CHALK LINE ④ ON THE WALL AT DIMENSION SHOWN, MEASURED FROM THE FINISHED FLOOR ON CELL (FIXTURE) SIDE. THIS WILL LOCATE CENTERLINE FOR HORIZONTAL NOTCHES ON TEMPLATE.
- B. STRIKE A VERTICAL CHALK LINE ③ ON THE WALL TO INDICATE CENTERLINE OF FIXTURE. THIS WILL LOCATE CENTERLINE FOR VERTICAL NOTCHES ON TEMPLATE.
- C. PLACE TEMPLATE AGAINST WALL. LOCATE NOTCHES ALONG CHALK LINES. MARK WALL FOR REQUIRED OPENING.



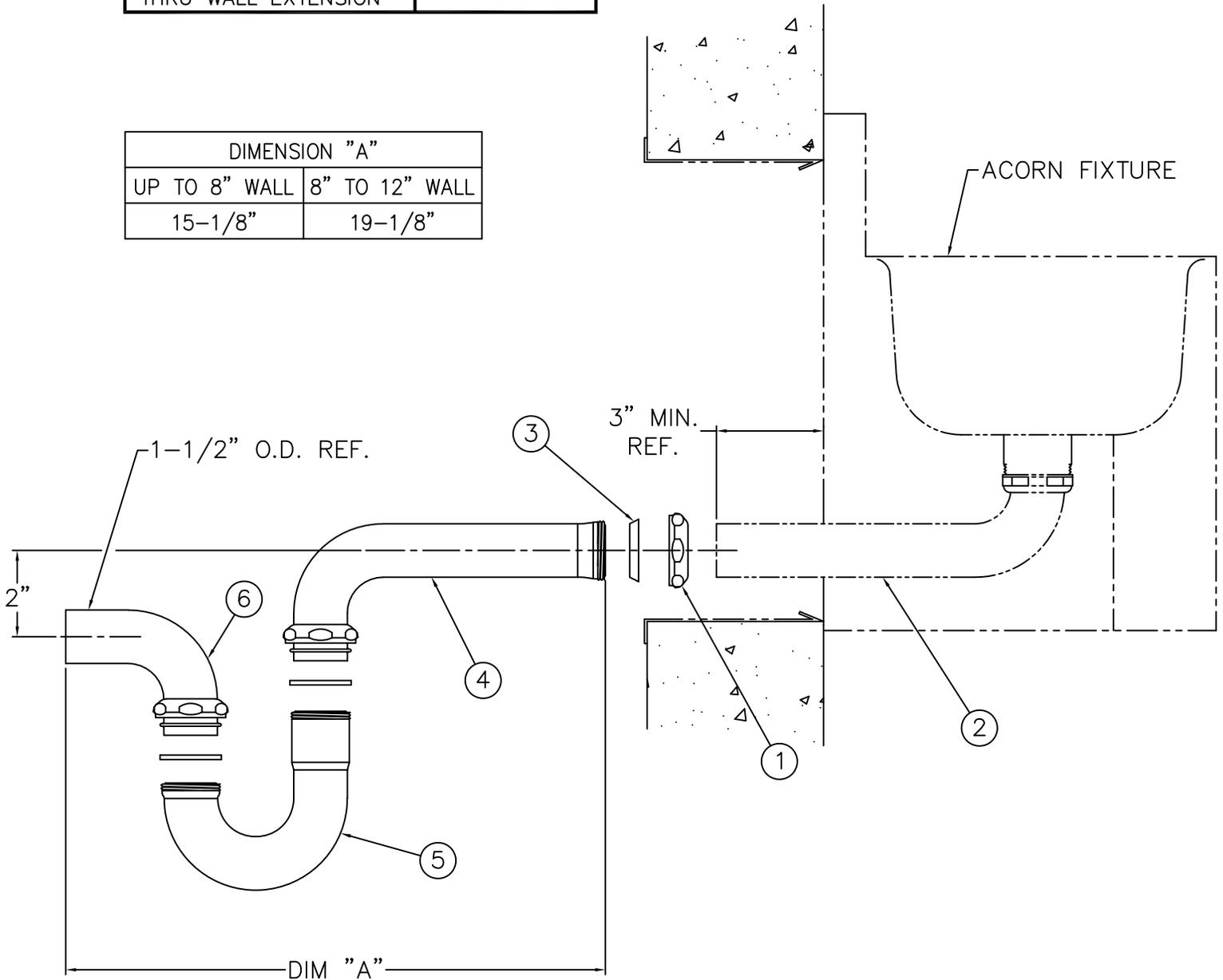
**WALL SLEEVE (-SW)**

<p>ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200</p>	<p>TITLE <b>-SW WALL SLEEVE &amp; -MT METAL TEMPLATE * LR1673</b></p>		
	<p>MANUFACTURE DATE</p> <p><b>AUGUST 2023</b></p> <p><b>TO PRESENT</b></p>	<p>DATE ISSUED</p> <p><b>8/28/2023</b></p> <p>DATE REVISED</p>	<p>DRAWING NUMBER</p> <p><b>9925-267-001</b></p>



REFERENCE DRAWINGS	
ASSEMBLIES	NUMBER
-LW1 LAVY WASTE THRU WALL EXTENSION	9985-300-002

DIMENSION "A"	
UP TO 8" WALL	8" TO 12" WALL
15-1/8"	19-1/8"



**INSTALLATION INSTRUCTIONS:**

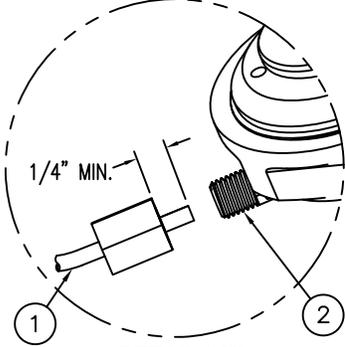
A- AFTER INSTALLING ACORN UNIT ON FINISHED WALL, SLIP COMPRESSION NUT ① OVER 1-1/2" O.D. PLAIN END WASTE ②. USING COMPRESSION GASKET ③, AND NUT ① MAKE-UP COMPRESSION CONNECTION WITH SLIP JOINT ELBOW ④.

B- REMOVABLE TUBULAR P-TRAP ⑤ CONNECTS TO SLIP JOINT ELBOW ④ AND PLAIN END ELBOW ⑥ WITH COMPRESSION CONNECTIONS AS SHOWN.

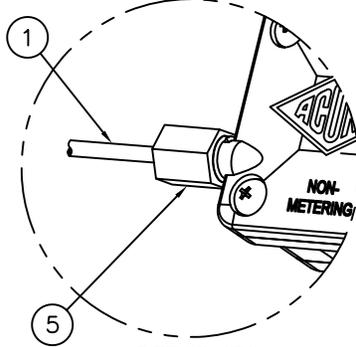
NOTE: TUBULAR P-TRAP IS REMOVABLE IN ORDER TO ALLOW FOR WASTE CLEANOUT.

ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200	TITLE	<b>LAVATORY THRU-WALL WASTE CONNECTION w/ P-TRAP &amp; CLEANOUT CAT. # -LW1</b>	
	MANUFACTURE DATE	DATE ISSUED	DRAWING NUMBER
<b>APRIL 30, 1998</b>	<b>3/19/98</b>	<b>9925-065-002</b>	
<b>TO PRESENT</b>	DATE REVISED		
	<b>04/26/23</b>		

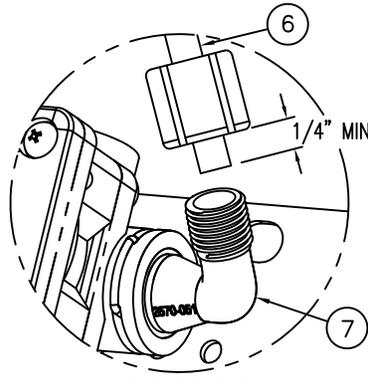
**SIDE OUTLET SHOWN**



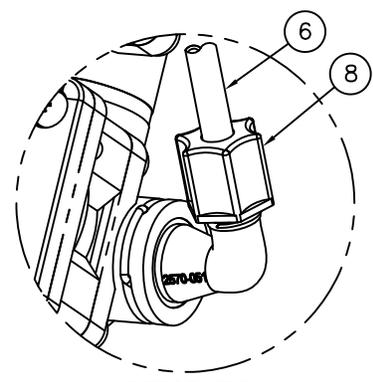
**DETAIL "A"**



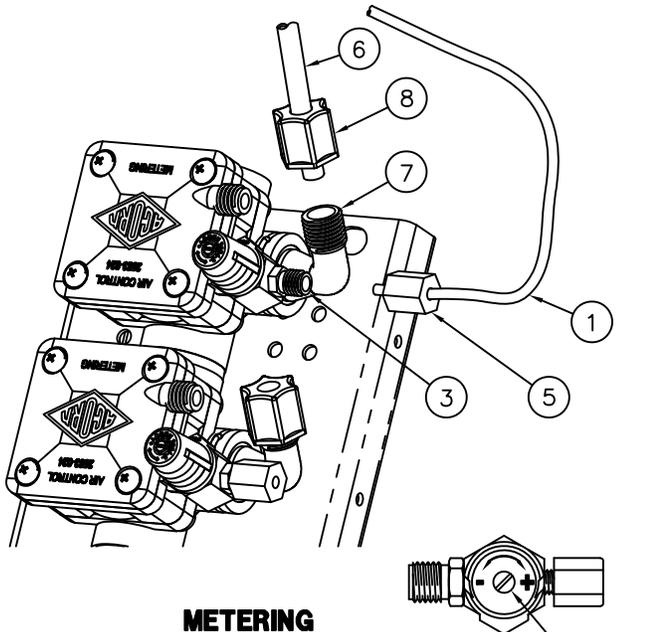
**DETAIL "B"**



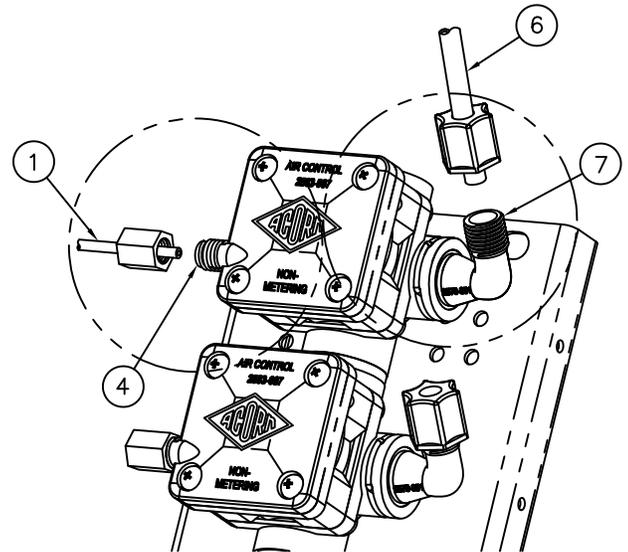
**DETAIL "C"**



**DETAIL "D"**



**METERING**



**NON-METERING  
DIRECT ACTING**

LAVATORY VALVES ARE FACTORY PRESET WITH A 5-20 SECOND RUN TIME. THIS WILL PROVIDE LESS THAN 1/4 GALLON (1 LITER) PER CYCLE. IF IT IS NOTED THAT VALVES ARE RUNNING LONGER THAN THIS MAXIMUM RECOMMENDED CYCLE TIME PLEASE FOLLOW THESE INSTRUCTIONS TO CORRECT THE CYCLE TIME. WHEN SET, FAUCET SHOULD NOT PRODUCE MORE THAN 1/4 GALLON (1 LITER) PER CYCLE.

TIMING IS ADJUSTABLE FROM 5 TO 60 SECONDS AND IS ACCOMPLISHED BY ROTATING TIMING SCREW. TURNING THE SCREW CLOCKWISE INCREASES TIMING WHILE COUNTERCLOCKWISE DECREASES TIMING.

**INSTALLATION INSTRUCTIONS:**

- A- MOUNT FIXTURE IN ACCORDANCE TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- B- ASSEMBLE SPOUTS AND PUSHBUTTONS TO FIXTURE.
- C- CONNECT 1/8" O.D. POLYETHYLENE AIR LINE (1) TO PUSHBUTTON (2), AND VALVE TIMER ASSEMBLY (3) SEE DETAIL "A". NOTE: FOR DIRECT ACTING: ASSEMBLE TO AIR PORT (4), SEE DETAIL "B". HAND TIGHTEN FERRULE NUT (5) PROVIDED.
- D- CONNECT 1/4" O.D. POLYETHYLENE WATER LINES (6) TO VALVE ASSEMBLY ELBOW (7) SEE DETAILS "C", AND "D". HAND TIGHTEN FERRULE NUT (8) PROVIDED.
- E- AFTER THOROUGHLY FLUSHING SUPPLY LINES MAKE UP CONNECTIONS TO VALVE ASSEMBLY INLET(S) 1/2" NPT OR 1/2" NPS FLEX HOSE AS REQUIRED.

**REFERENCE DRAWINGS**

ASSEMBLIES	DRAWING
VALVE BODY	9955-006-003
CHECKSTOP	9956-040-003
FIXTURE TRIM	9957-051-001
FIXTURE TRIM -DMS	9957-055-001
AIR-CONTROL SERVOMOTORS	
METERING	9955-000-003
NON-METERING	9955-001-003

**NOTE:**

- 1) ALL TUBING SHOULD BE CUT SQUARE AND BE FREE OF BURRS OR DEFORMITIES TO ENSURE A WATER TIGHT CONNECTION.
- 2) EXTEND TUBING AT LEAST 1/4" BEYOND FERRULE NUT BEFORE INSERTING TUBING INTO CONNECTION OPENING BEFORE TIGHTENING.
- 3) TUBING SHOULD BE FREE OF KINKS FOR PROPER OPERATION
- 4) MAXIMUM RECOMMENDED WORKING WATER PRESSURE IS 100 PSI; TEMPERATURE IS 130° F; OUTLET TEMPERATURE IS RECOMMENDED AT A MAXIMUM OF 105° F.

**WARNING:**

PRIOR TO MAKING INSTALLATION, SUPPLY LINES MUST BE FLUSHED OF ALL FOREIGN MATERIAL SUCH AS PIPE DOPE, CHIPS, SOLDER, ETC. VALVE MUST BE DRAINED PRIOR TO BEING SUBJECTED TO FREEZING TEMPERATURES. MAXIMUM RECOMMENDED OUTLET WATER TEMPERATURE IS 105° F.

**MORRIS GROUP INTL**  
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**TITLE HAND OPERATED, LAVATORY AIR-CONTROL VALVE CONNECTIONS**

MANUFACTURE DATE  
**JANUARY 1999  
TO PRESENT**

DATE ISSUED  
**04/22/10**

DATE REVISED  
**11/18/15**

DRAWING NUMBER  
**9905-006-001**