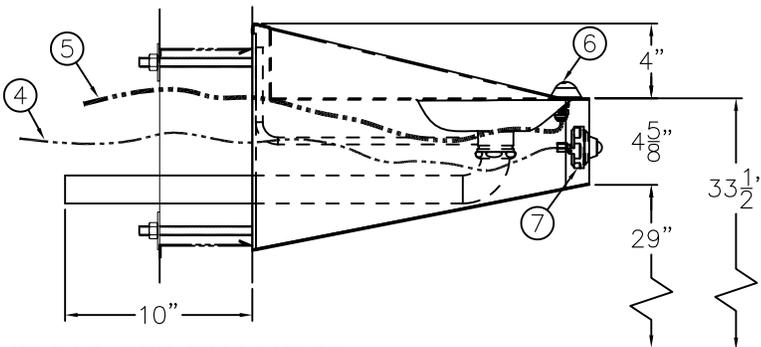


MOUNTING DETAIL



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:

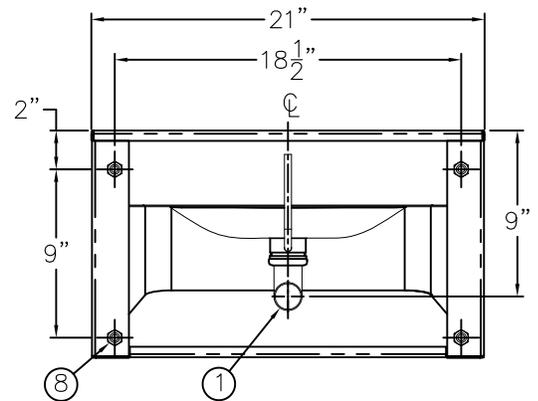
- A- MOUNT BUBBLERS (6) AND PUSHBUTTONS (7) TO FIXTURE. SEE DRAWING 9905-006-001 FOR DETAILS.
- B- THREAD 1/2"-13 UNC STUDS (3) INTO FIXTURE REAR ANCHOR TAPPINGS (8). NOTE: STUDS MUST HAVE 1/2" MINIMUM ENGAGEMENT.

REFERENCE DRAWINGS	
AIR-CONTROL CONNECTIONS	9905-006-001
FIXTURE TRIM (SINGLE TEMP.)	9957-060-001
-SW WALL SLEEVE	9925-194-001
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 105F MAX. FLUSH ALL SUPPLY LINES THOROUGHLY BEFORE CONNECTING. DRAIN VALVE PRIOR TO FREEZING TEMPERATURES.

NOTE: REFER TO A.D.A. ACCESSIBILITY GUIDELINES FOR COMPLETE INSTALLATION REQUIREMENTS.

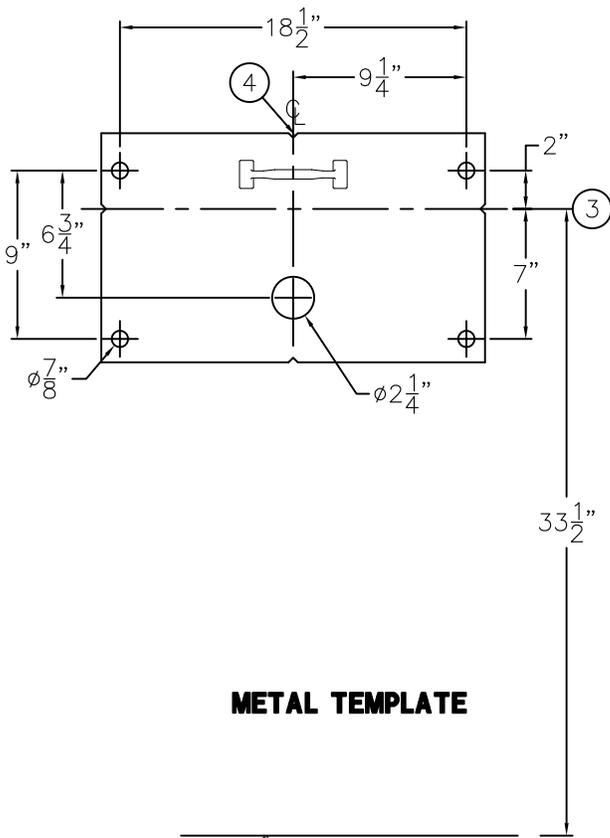


CAT. #LR1672

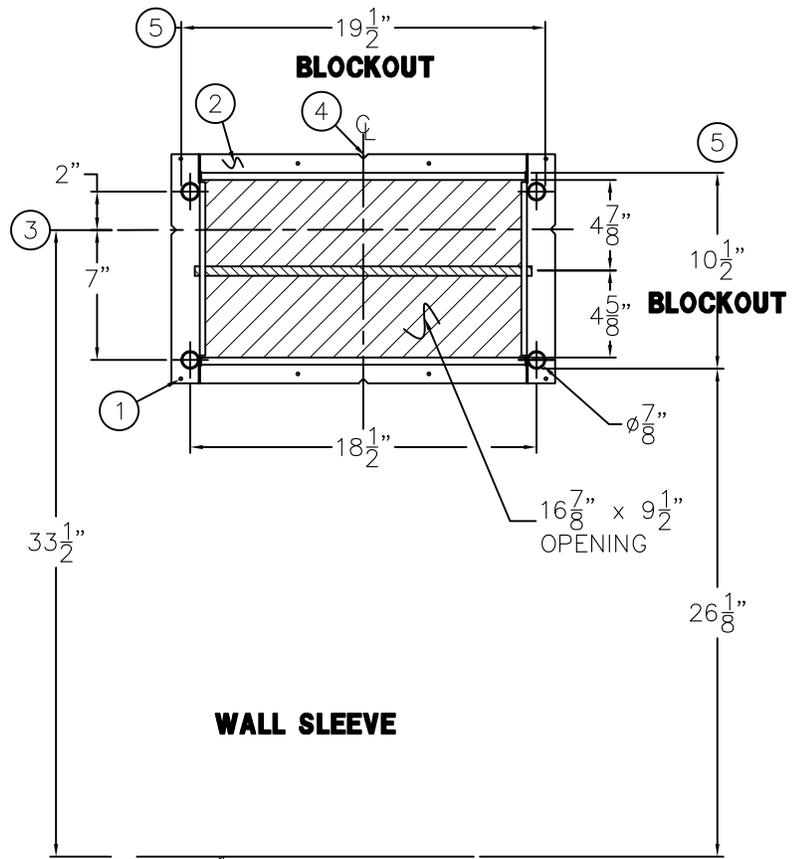
VIEW FROM REAR

- 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. TIGHTEN TO 60 FT. LBS.
- 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.

<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 ACORN LIGATURE-RESISTANT DRINKING FOUNTAIN, LR1672</p>		
	<p>MANUFACTURE DATE</p> <p>JULY 2017</p> <p>TO PRESENT</p>	<p>DATE ISSUED</p> <p>07/11/17</p> <p>DATE REVISED</p> <p>06/15/21</p>	<p>DRAWING NUMBER</p> <p>9925-193-001</p>



METAL TEMPLATE



WALL SLEEVE

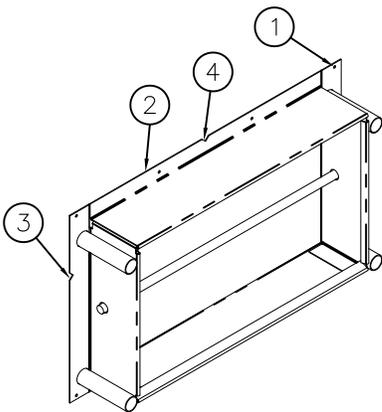
WALL SLEEVE

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

NOTE:

FOR POURED WALL CONSTRUCTION, TEMPORARY BRACING SHOULD BE INSTALLED WITHIN OPENING TO PREVENT DEFORMATION TO SLEEVE WHICH MAY OCCUR DURING POUR. DO NOT POUR CONCRETE DIRECTLY ON TOP OF WALL SLEEVE.

- A- INSTALL SLEEVE WITH FLANGE (2) ON CHASE SIDE OF WALL.
- B- SIDE NOTCHES (3) INDICATE DECK HEIGHT LOCATED AT 33-1/2" ABOVE FINISHED FLOOR ON CELL SIDE.
- C- VERTICAL OR TOP AND BOTTOM NOTCHES (4) INDICATE CENTERLINE OF SLEEVE AND FIXTURE HOUSING.
- D- USE BLOCKOUT (5) DIMENSIONS SHOWN WHEN SLEEVES ARE NOT AVAILABLE.



METAL TEMPLATES

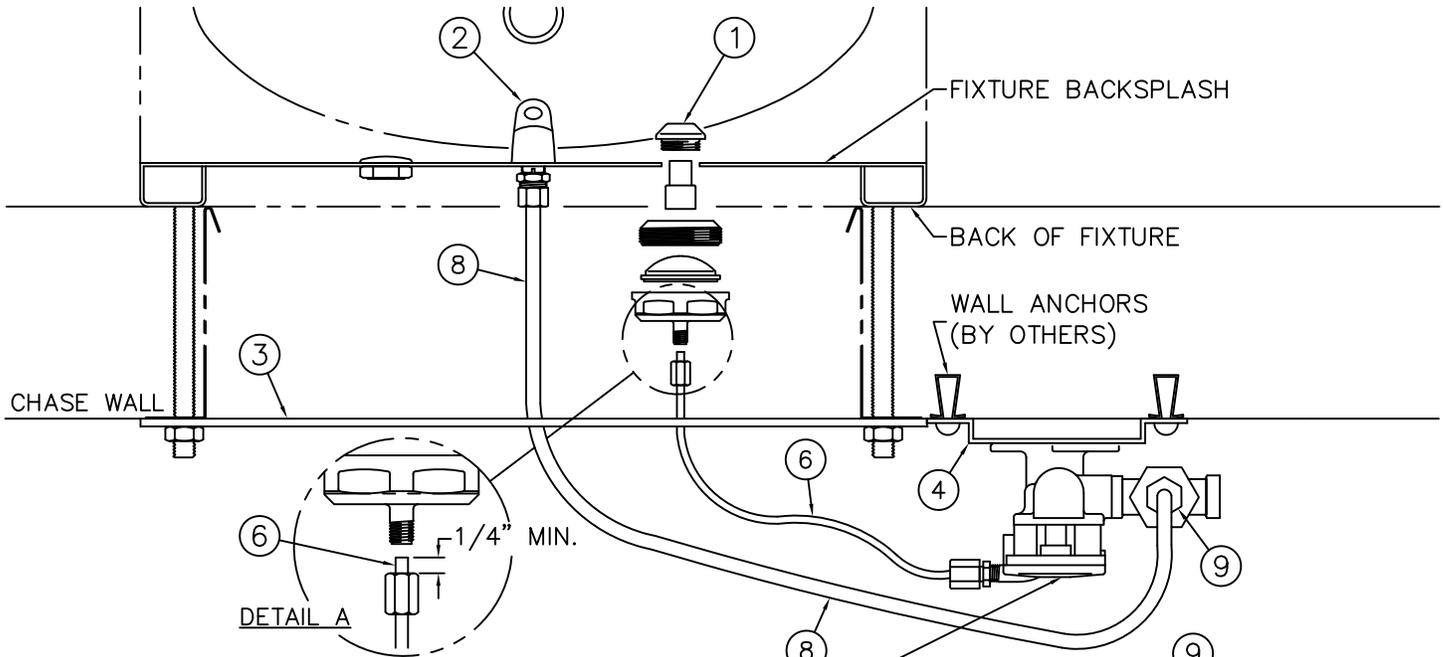
METAL TEMPLATES ARE USED TO LAYOUT REQUIRED WALL OPENINGS FOR SUBSEQUENT FLAME CUTTING OR CORE DRILLING.

- A- MEASURE FROM THE FINISHED FLOOR ON CELL SIDE AND STRIKE A HORIZONTAL CHALK LINE ON THE WALL AT DIMENSIONS SHOWN FOR SIDE NOTCHES (3) INDICATING FIXTURE DECK HEIGHT.
- B- STRIKE A VERTICAL CHALK LINE AT DIMENSIONS SHOWN FOR VERTICAL OR TOP AND BOTTOM NOTCHES (4) INDICATING CENTERLINE OF SLEEVE AND FIXTURE HOUSING.
- C- PLACE TEMPLATE AGAINST WALL ALIGNING VERTICAL AND HORIZONTAL NOTCHES AND MARK REQUIRED WALL OPENINGS.

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15125 Proctor Ave Industry, CA 91746
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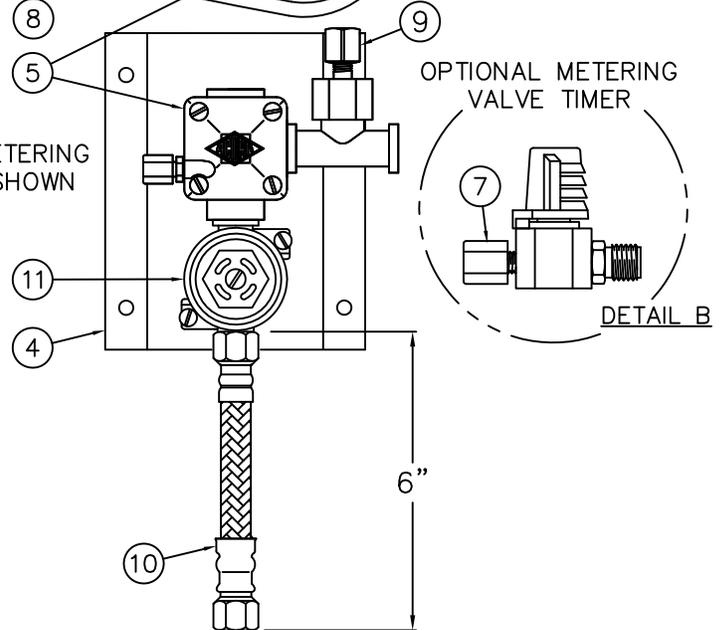
TITLE **LIGATURE-RESISTANT -SW WALL SLEEVE AND -MT METAL TEMPLATE, LR1672**

MANUFACTURE DATE	DATE ISSUED	DRAWING NUMBER
JULY 2017	07/12/17	
TO PRESENT	DATE REVISED	9925-194-001
	06/15/21	



REFERENCE DRAWINGS	
ASSEMBLIES	NUMBER
VALVE BODY	9955-006-003
CHECKSTOP	9956-040-003
FIXTURE TRIM	9957-051-001
AIR-CONTROL SERVOMOTERS	
METERING	9955-000-003
NON-METERING	9955-001-003

NOTE: NON-METERING VALVE SHOWN



INSTALLATION INSTRUCTIONS:

- A- PRIOR TO INSTALLATION OF THE FIXTURE, MOUNT PUSHBUTTON ① AND BUBBLER ② TO THE BACKSPASH.
- B- INSTALL THE PLUMBING FIXTURE TO THE WALL INCLUDING UPPER SUPPORT PLATE ③.
- C- LOCATE AS REQUIRED AND MOUNT THE AIR-CONTROL VALVE ASSEMBLY ④. MAXIMUM ALLOWABLE DISTANCE BETWEEN PUSHBUTTON ① AND AIR-CONTROL SERVOMOTOR ⑤ IS 10 FEET. WALL ANCHORING HARDWARE ARE BY OTHERS.
- D- CONNECT 1/8" O.D. POLYETHYLENE AIR LINE ⑥ TO PUSHBUTTON ① AND SERVOMOTOR ⑤. HAND TIGHTEN USING FERRULE NUT PROVIDED. SEE DETAIL A. NOTE: WHEN METERING VALVE IS SPECIFIED, AIR LINE CONNECTS DIRECTLY TO VALVE TIMER ⑦. SEE DETAIL B.
- E- CONNECT 1/4" O.D. POLYETHYLENE WATER LINE ⑧ TO BUBBLER ② AND COMPRESSION NUT ⑨. HAND TIGHTEN USING FERRULE NUT PROVIDED.

- F- AFTER THOROUGHLY FLUSHING THE SUPPLY LINE, MAKE-UP 1/2" NPS FEMALE SUPPLY CONNECTION. NOTE: SUPPLY INLET CONNECTION WILL ACCOMODATE 1/2" NPT MALE ADAPTER. THREAD FLEX CONNECTOR HOSE ⑩ TO CHECKSTOP ⑪ AND SUPPLY STUB OUT.
- G- SEE APPROPRIATE SERVOMOTOR REFERENCE DRAWING FOR DETAILS AND TIMING INSTRUCTIONS.

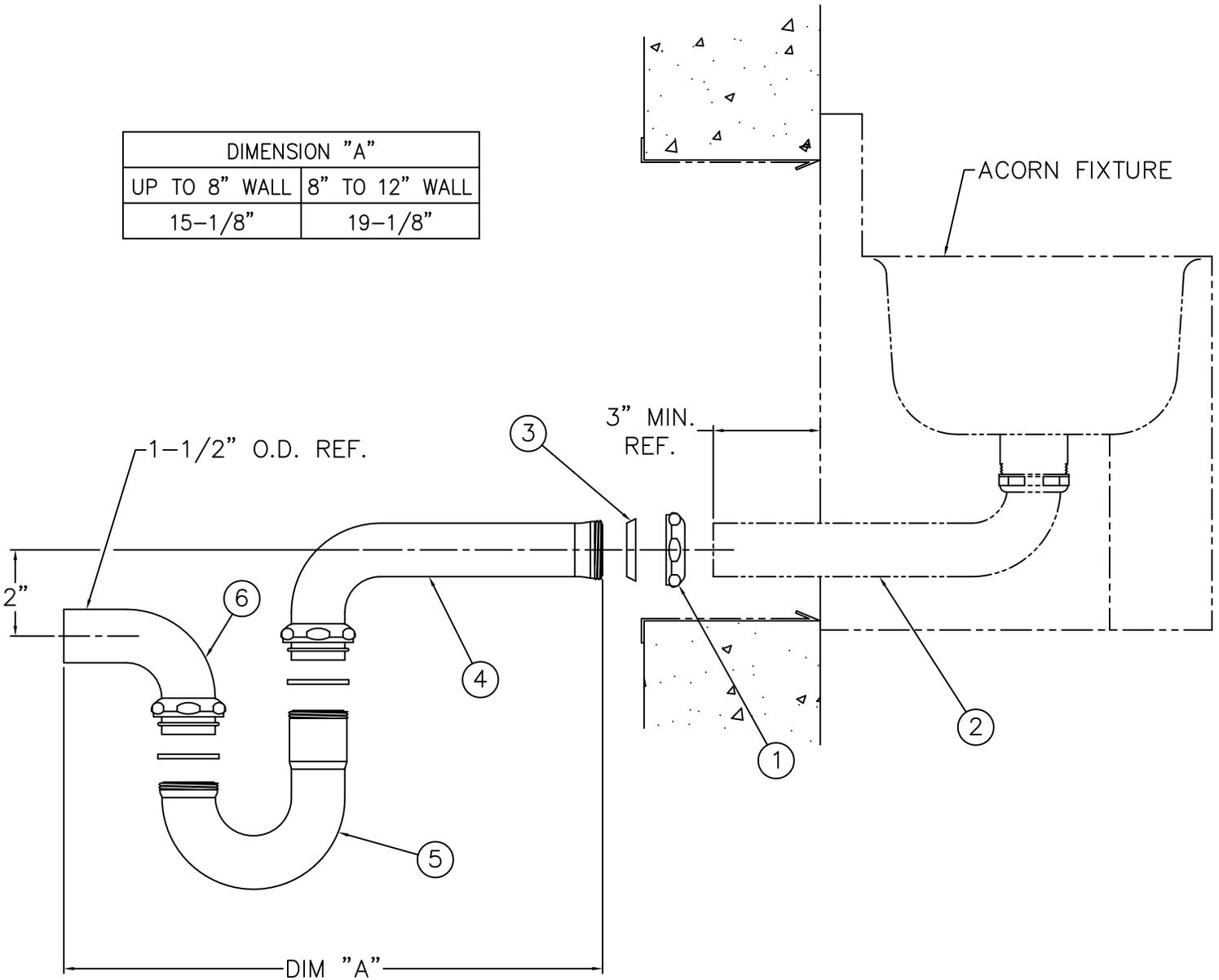
NOTE:

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.

ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200	TITLE (-03 SERIES) SINGLE TEMP AIR-CONTROL VALVE ASSEMBLY -NEW STYLE		
	MANUFACTURE DATE SEPTEMBER 1995 TO PRESENT	DATE ISSUED 11/01/95	DRAWING NUMBER 9905-001-003
	DATE REVISED 07/15/10		



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.

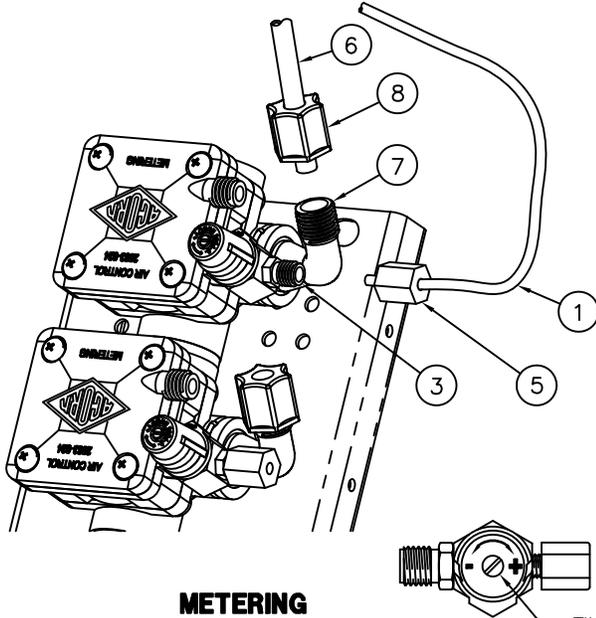
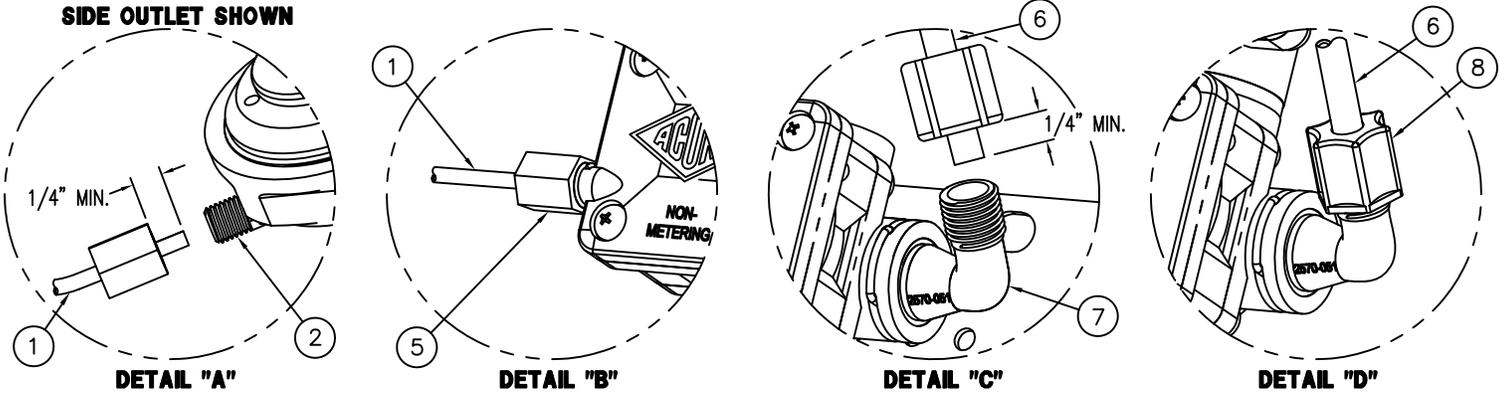
NOTE: TUBULAR P-TRAP IS REMOVABLE IN ORDER TO ALLOW FOR WASTE CLEANOUT.



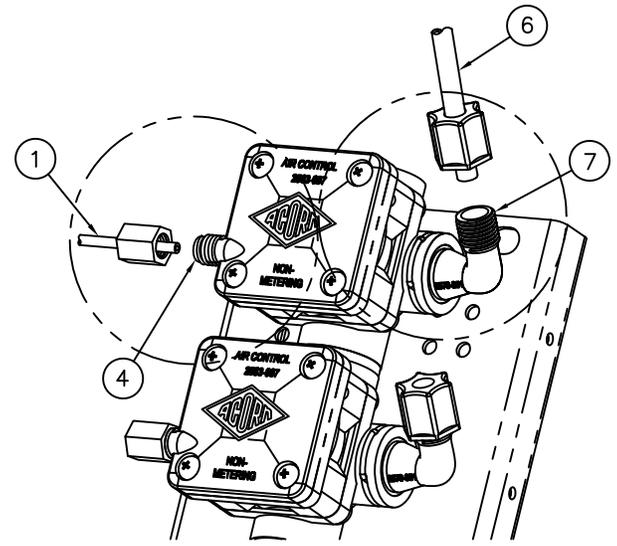
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 15125 Proctor Ave Industry, CA 91746
 (626) 336-4561 FAX (626) 961-2200

TITLE LAVATORY THRU-WALL WASTE CONNECTION w/ P-TRAP & CLEANOUT CAT. # -LW1		
MANUFACTURE DATE APRIL 30, 1998 TO PRESENT	DATE ISSUED 3/19/98	DRAWING NUMBER 9925-065-002
	DATE REVISED 4/23/98	

SIDE OUTLET SHOWN



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
P.O. BOX 3527 Industry, CA 91744
MORRIS GROUP 15125 Proctor Ave Industry, CA 91746
INTERNATIONAL (626) 336-4561 FAX (626) 961-2200

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