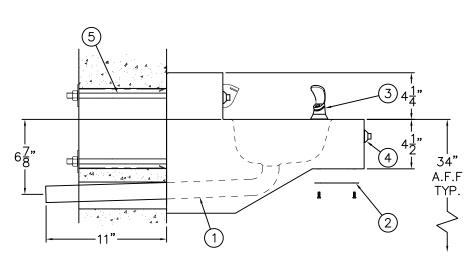
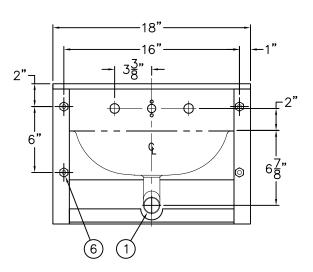


REFERENCE DRAWINGS			
HARDWARE PACKAGE	9957-900-001		
	9925-212-001		
AIR CONTROL CONNECTION	9900-006-003		
-4 AIR-CONTROL (HOT & COLD)	9905-000-003		
-MVC1 S/T TIME-TROL	9900-001-004		
-EVS1 S/T MASTER-TROL	9905-330-004		







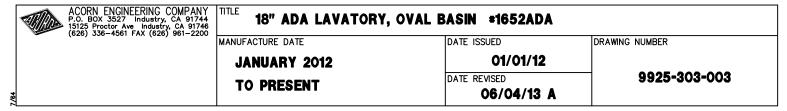
INSTALLATION INSTRUCTIONS:

- A-ROUGH-IN FOR FIXTURE WASTE OUTLET: 1-1/2" O.D. ELBOW PLAIN END ① PROVIDED.
- B- SEE REFERENCE DRAWING BOX FOR APPROPRIATE VALVE INSTALLATION SHEETS.
- C- REMOVE THE ACCESS PANEL ② TO INSTALL OPTIONAL -DMB DECK MOUNTED BUBBLER ③ AND PUSHBUTTON ④.
- D- THREAD 1/2" X 13 UNC STUDS (5) INTO ANCHOR TAPPINGS (6) ON REAR OF FIXTURE. STUDS (5) MUST HAVE A MINIMUM OF 1/2" ENGAGEMENT.
- E- ALIGN STUDS (5) WITH THRU ANCHORING WALL OPENINGS OR THRU OPENINGS ON OPTIONAL -SW WALL SLEEVE AND SLIDE FIXTURE TO WALL.

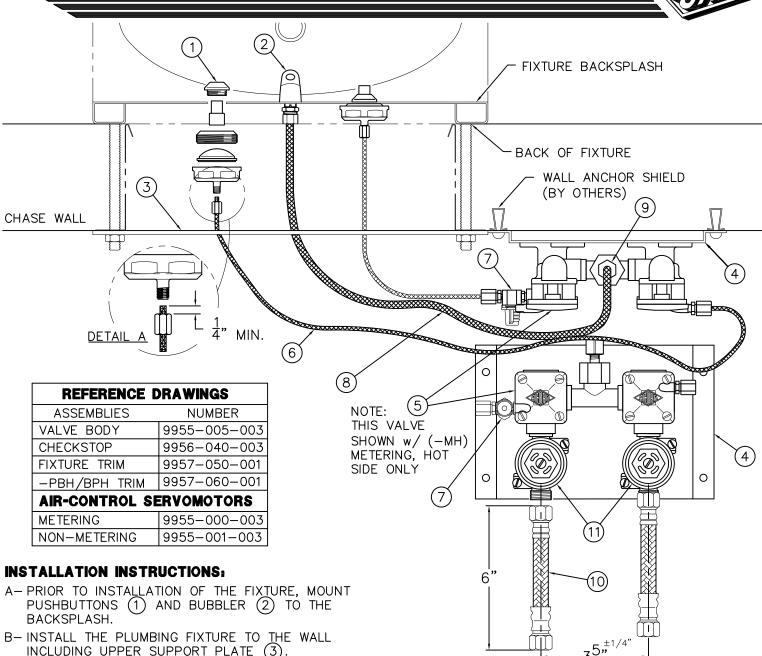
- F- FROM CHASE SIDE TIGHTEN WASHERS (7) AND NUTS (8) PROVIDED ON EXPOSED STUDS (5) TO 60 LBS.
- G- MAKE UP LAVY WASTE CONNECTIONS: WASTE OUTLET (1) SUITABLE FOR A COMPRESSION CONNECTION.

NOTE: REFER TO ADA ACCESSIBILITY GUIDELINES FOR COMPLETE INSTALLATION REQUIREMENTS.

NOTE: FIXTURE IS SHOWN ON AN 8" WALL. FOR INSTALLATION ON SMALLER WALLS LAVY WASTE TAILPIECE CAN BE TRIMMED TO FIT BY INSTALLER.





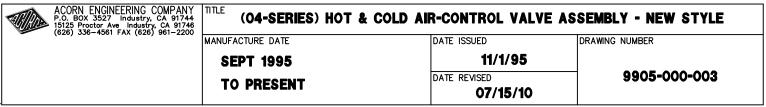


- INCLUDING UPPER SUPPORT PLATE (3).
- C- MOUNT THE AIR-CONTROL VALVE ASSEMBLY LOCATE AS REQUIRED. MAXIMUM ALLOWABLE DISTANCE BETWEEN PUSHBUTTON (1) AND AIR-CONTROL SERVOMOTOR (5) IS 10 FEET. WALL ANCHORING HARDWARE ARE BY OTHERS.
- D- CONNECT 1/8" O.D. POLYETHYLENE AIR LINES (6) TO PUSHBUTTONS (1) AND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

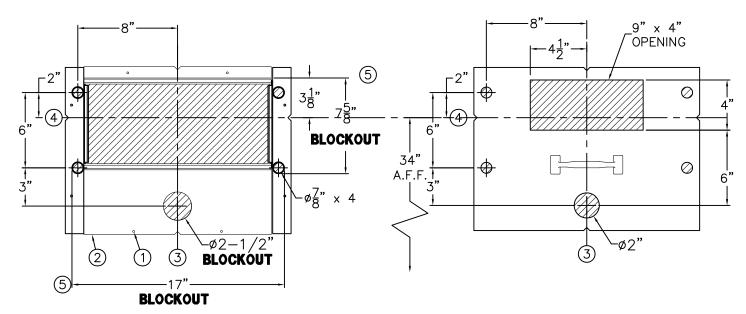
MAXIMUM RECOMMENDED WORKING WATER PRESSURE IS 100 PSI; TEMPERATURE IS 130° F; OUTLET TEMPERATURE IS RECOMMENDED AT A MAXIMUM OF 105° F. WARNING:

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.

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



NOTE:



WALL SLEEVE

BOTH VIEWS ARE FROM CELL SIDE

METAL TEMPLATE

SHADED AREAS ARE REQUIRED WALL OPENINGS

WALL SLEEVE (-SW)

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

- A. INSTALLED 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 DIMENSIONS SHOWN, MEASURED FROM THE FINISHED FLOOR ON CELL (FIXTURE) SIDE. THIS WILL LOCATE DECK HEIGHT.

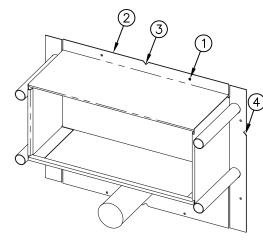
NOTES:

- 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 (-MT)

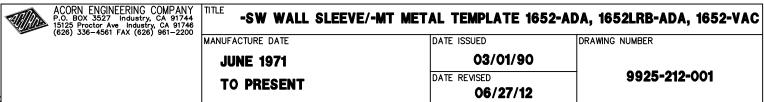
TEMPLATES ARE USED TO LAYOUT REQUIRED WALL OPENINGS FOR SUBSEQUENT FLAME CUTTING OR CORE DRILLING.

- A. STRIKE A HORIZONTAL CHALK LINE (4) ON 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 OPENINGS.

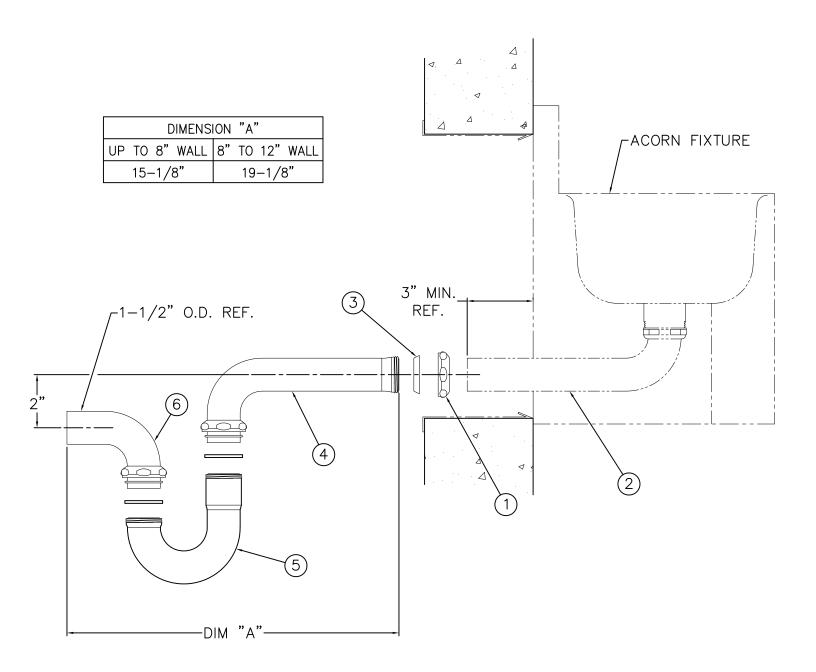


WALL SLEEVE

(-SW)





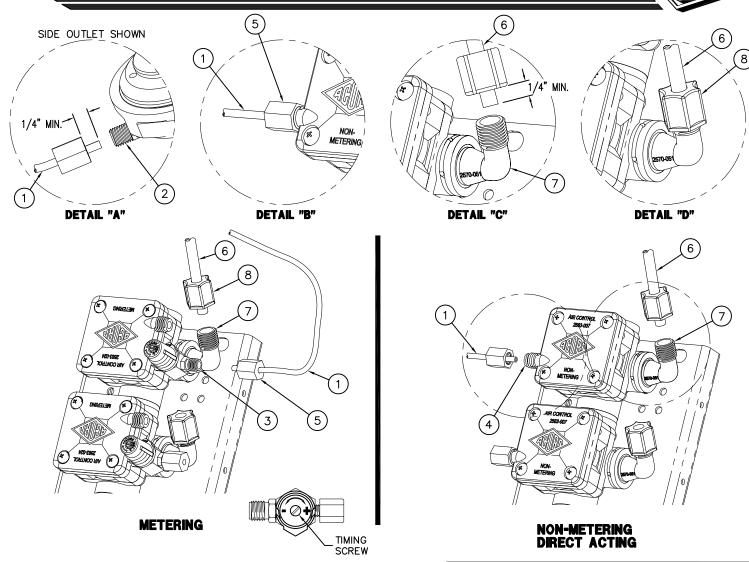


INSTALLATION INSTRUCTIONS:

- A- AFTER INSTALLING ACORN UNIT ON FINISHED WALL, B- REMOVABLE TUBULAR P-TRAP (5) CONNECTS TO SLIP 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).
 - 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	LAVATORY THRU-WALL WASTE	CONNECTION w/ P-TRA	AP & CLEANOUT CAT. * -LW1
(, (,	MANUFACTURE DATE	DATE ISSUED	DRAWING NUMBER
	APRIL 30, 1998	3/19/98	
	TO PRESENT	DATE REVISED 4/23/98	9925-065-002





TIMING IS ADJUSTABLE FROM 5 TO 60 SECONDS AND IS ACCOMPLISHED BY ROTATING TIMING SCREW. TURING THE SCREW CLOCKWISE INCREASES 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" NPTE 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			
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.

	ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200	HAND OPERATED AIR-CONTROL VALVE CONNECTIONS		
	` ,	MANUFACTURE DATE	DATE ISSUED	DRAWING NUMBER
		JANUARY 1999	04/22/10	
9/32		TO PRESENT	DATE REVISED 10/11/10	9905-006-001