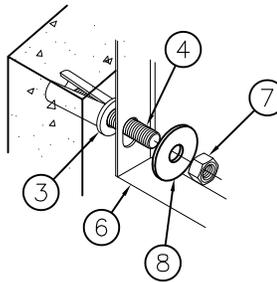
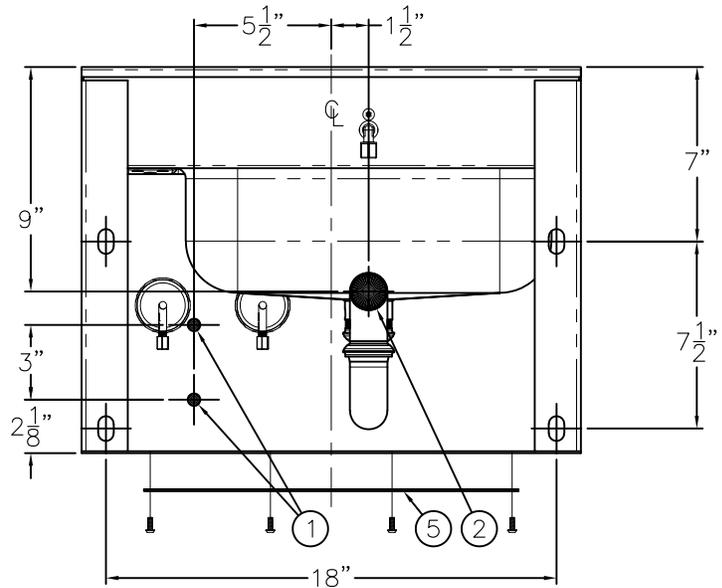
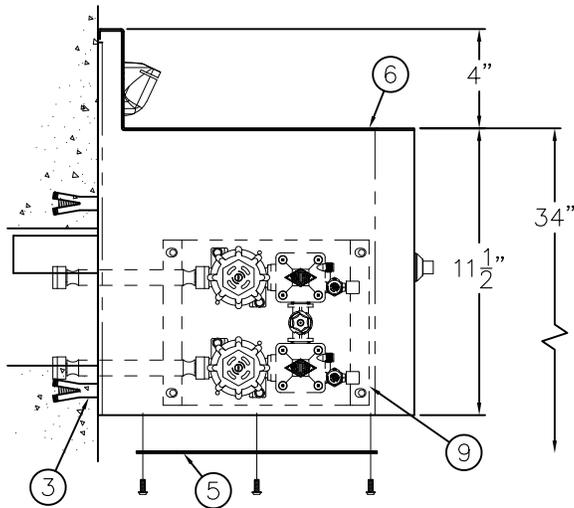


**MOUNTING
DETAIL**



REFERENCE DRAWINGS	
-4 H&C VALVE BODY	9955-005-003
-3 S/T VALVE BODY	9955-006-003
FIXTURE TRIM, H&C	9957-050-001
FIXTURE TRIM, S/T	9957-051-001
-M SERVOMOTOR	9955-000-003
SERVOMOTOR	9955-001-003
STOP/STRAINER	9956-040-003
-SW WALL SLEEVE	9925-216-001
OPTIONAL VALVES	
AIR CONTROL CONNE	9905-006-001
MVC1 S/T TIME-TROL	9900-011-001
MVC2 H&C TIME-TROL	9905-200-003
EVS1 MASTER-TROL	9905-330-004
EVS2 MASTER-TROL	9905-333-001



A- ROUGH-IN FOR THE FOLLOWING CONNECTIONS:
 • 1/2" NPS LAVY SUPPLY CONNECTION(S) (1)
 • 1-1/2" OD PLAIN END WASTE OUTLET (2)

B- LOCATE INSTALLER PROVIDED WALL ANCHORS (3) FOR ø5/8" x 1" LONG MOUNTING SLOTS (4) PLACES AS INDICATED. SECURE WITH 1/2"-13 UNC HARDWARE (4) PROVIDED.

C- REMOVE BOTTOM ACCESS PANEL (5) AND POSITION FIXTURE (6) INTO PLACE. SECURE FIXTURE TO ANCHORING STUDS (4) WITH NUTS (7) AND WASHERS (8) PROVIDED.

D- MAKE UP CONNECTION TO LAVY WASTE 1-1/2" OD PLAIN END (2) (SUITABLE FOR COMPRESSION CONNECTION)

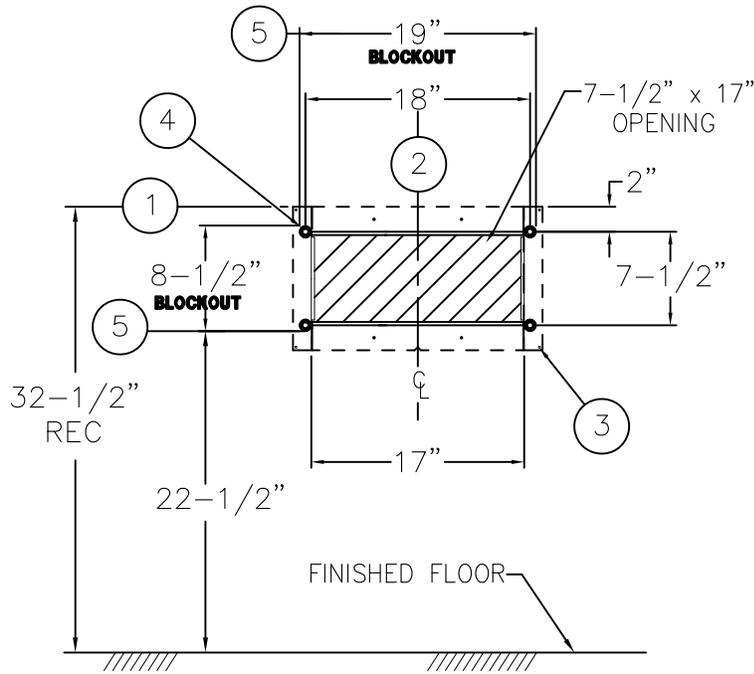
E- MOUNT OPTIONAL AIR-CONTROL VALVE (9) TO FIXTURE CABINET. MAKE UP CONNECTIONS AS REQUIRED. SEE REFERENCE DRAWINGS.

F- RE-INSTALL BOTTOM ACCESS PANEL (5) AND TEST TO COMPLETE INSTALLATION.

NOTE:

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.

ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200	TITLE 20" RECTANGLE LAVATORY -FRONT ACCESS, #1650FA	
	MANUFACTURE DATE APRIL 30, 1998 TO PRESENT	DATE ISSUED 03/31/98 DATE REVISED 04/27/23



WALL SLEEVE (-SW)

VIEW IS FROM CELL SIDE

 SHADED AREAS ARE REQUIRED WALL OPENINGS

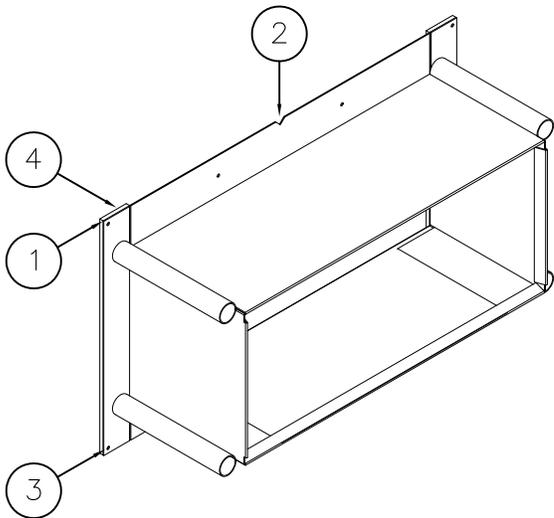
WALL SLEEVE

SLEEVES ARE INSTALLED IN FORMS (USING NAIL HOLES ③ PROVIDED) OR GROUTED INTO BLOCK WALLS, BECOMING A PERMANENT PART OF WALL.

- A. INSTALL SLEEVE WITH FLANGE ④ ON CHASE SIDE OF WALL.
- B. LOCATE TOP AND BOTTOM NOTCHES AT VERTICAL CENTERLINE ② OF PLUMBING FIXTURE.
- C. LOCATE TOP OF SLEEVE ① 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.



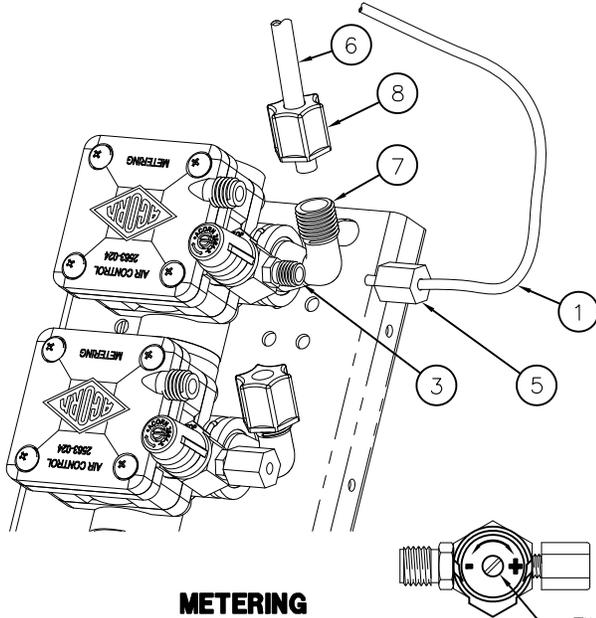
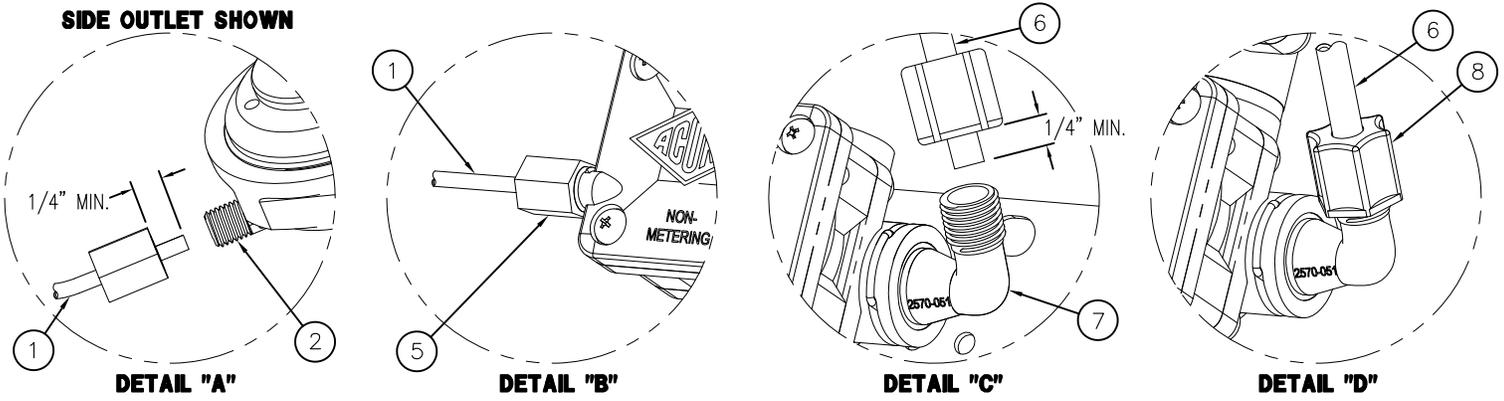
WALL SLEEVE (-SW)



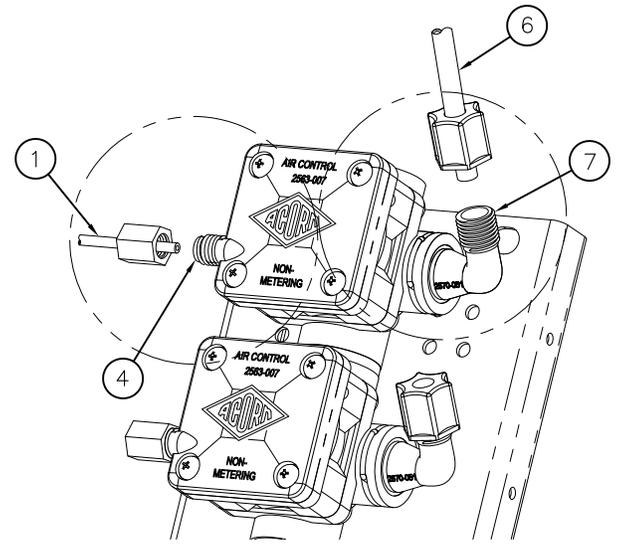
ACORN ENGINEERING COMPANY
 P.O. BOX 3527 Industry, CA 91744
 15125 Proctor Ave Industry, CA 91746
 (626) 336-4561 FAX (626) 961-2200

TITLE SLEEVES AND TEMPLATES (CAT. #1650-FA)		
MANUFACTURE DATE OCT 1996 TO PRESENT	DATE ISSUED 10/10/96	DRAWING NUMBER 9925-216-001
	DATE REVISED 6/22/98	

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.

<p>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</p>	<p>TITLE HAND OPERATED, LAVATORY AIR-CONTROL VALVE CONNECTIONS</p>		
	<p>MANUFACTURE DATE</p> <p>JANUARY 1999 TO PRESENT</p>	<p>DATE ISSUED</p> <p>04/22/10</p>	<p>DRAWING NUMBER</p> <p>9905-006-001</p>
		<p>DATE REVISED</p> <p>11/18/15</p>	