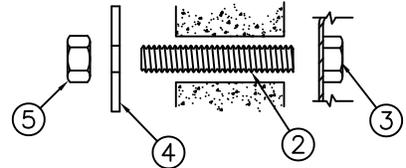
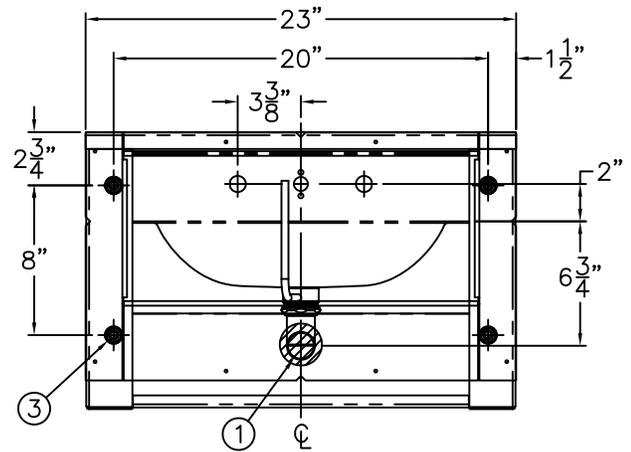
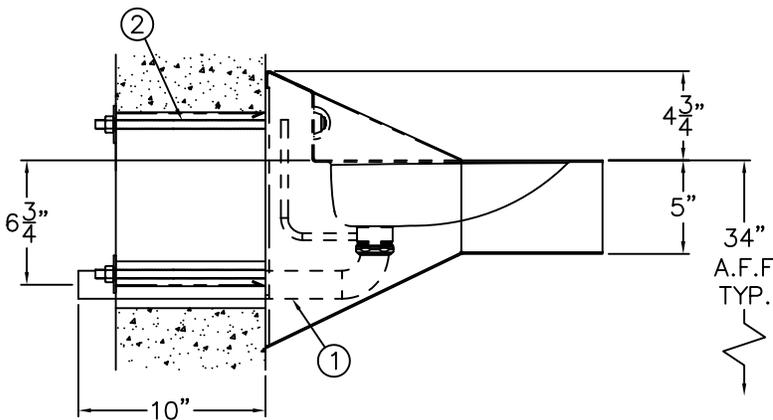


REFERENCE DRAWINGS	
-SW SLEEVE / MT TEMPLATE	9925-317-001
AIR-CONTROL CONNECTION	9900-006-003
-3 AIR-CONTRL (SINGLE TEMP.)	9905-001-003
-4 AIR-CONTRL (HOT & COLD)	9905-000-003
-MVC1 S/T TIME-TROL	9900-001-004
-EVS1 S/T MASTER-TROL	9905-330-004



MOUNTING DETAIL



INSTALLATION INSTRUCTIONS:

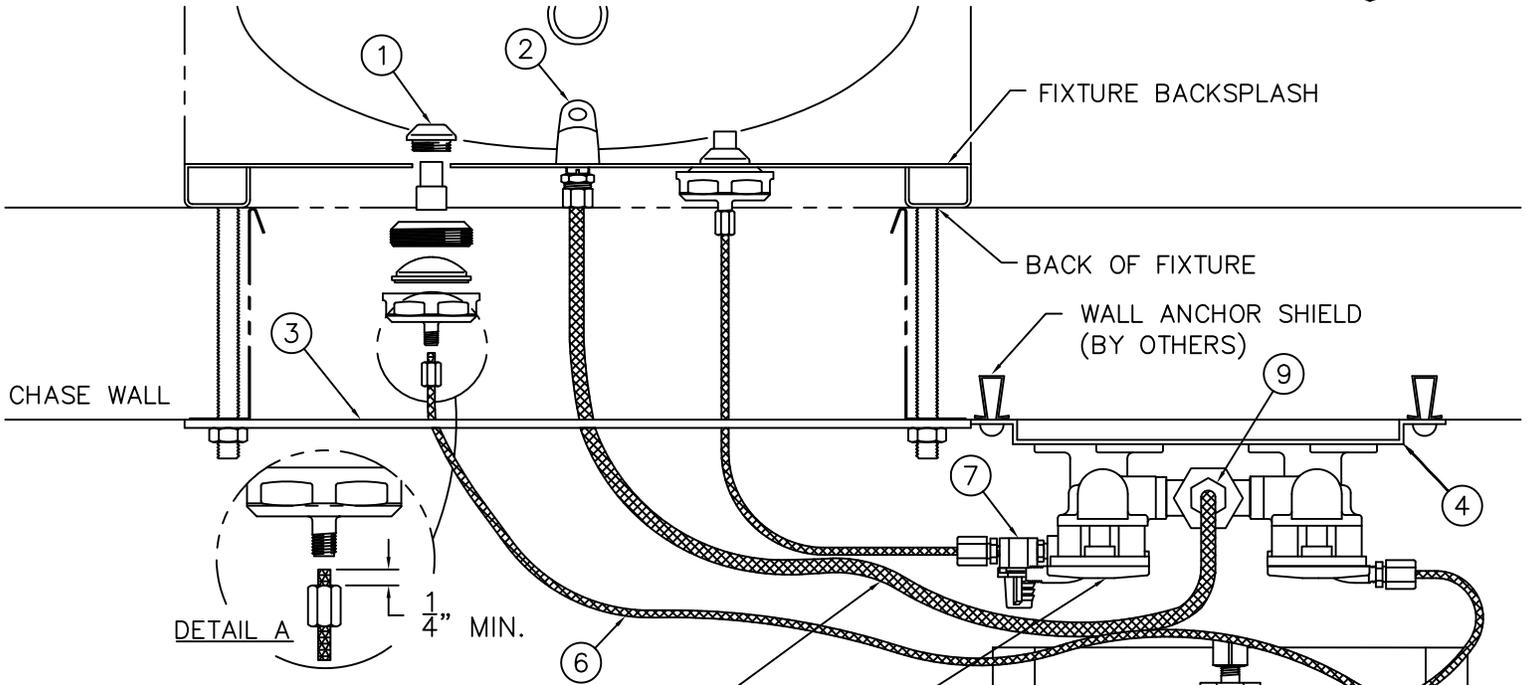
- A- ROUGH-IN FOR FIXTURE WASTE OUTLET:
1-1/2" O.D. ELBOW PLAIN END ① PROVIDED.
- B- SEE REFERENCE DRAWING BOX FOR APPROPRIATE VALVE INSTALLATION SHEETS.
- D- THREAD 1/2" X 13 UNC STUDS ② INTO ANCHOR TAPPINGS ③ ON REAR OF FIXTURE. STUDS ② MUST HAVE A MINIMUM OF 1/2" ENGAGEMENT.
- E- ALIGN STUDS ② WITH THRU ANCHORING WALL OPENINGS OR THRU OPENINGS ON OPTIONAL -SW WALL SLEEVE AND SLIDE FIXTURE TO WALL.
- F- FROM CHASE SIDE TIGHTEN WASHERS ④ AND NUTS ⑤ PROVIDED ON EXPOSED STUDS ② TO 60 LBS.

- G-MAKE UP LAVY WASTE CONNECTIONS: WASTE OUTLET ① SUITABLE FOR A COMPRESSION CONNECTION.

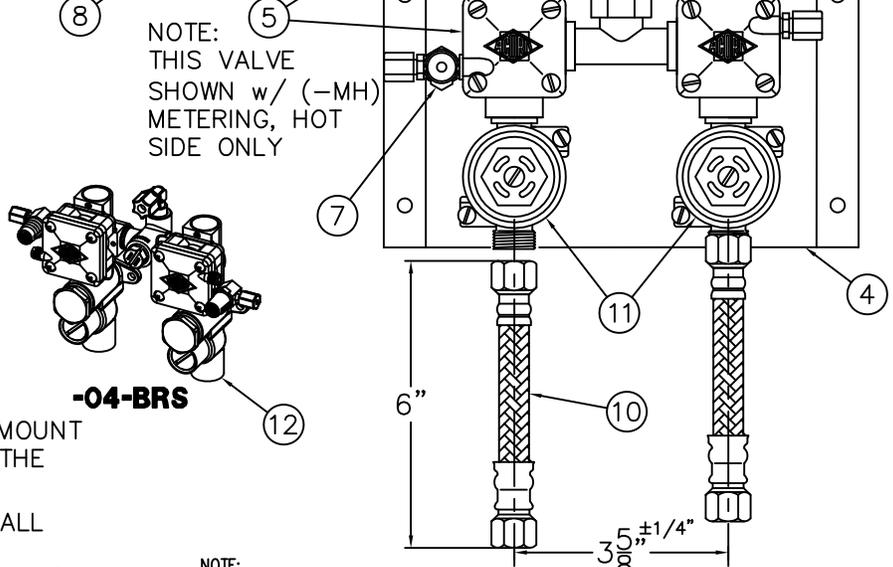
NOTE: REFER TO ADA ACCESSIBILITY GUIDELINES FOR COMPLETE INSTALLATION REQUIREMENTS.

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

ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200	TITLE LIGATURE-RESISTANT ADA LAVATORY, D-SHAPED BOWL, LR1653	
	MANUFACTURE DATE JULY 2017 TO PRESENT	DATE ISSUED 07/07/17 DATE REVISED 10/25/21 A



REFERENCE DRAWINGS	
ASSEMBLIES	NUMBER
VALVE BODY	9955-005-003
CHECKSTOP	9956-040-003
FIXTURE TRIM	9957-050-001
-PBH/BPH TRIM	9957-060-001
AIR-CONTROL SERVOMOTORS	
METERING	9955-000-003
NON-METERING	9955-001-003



INSTALLATION INSTRUCTIONS:

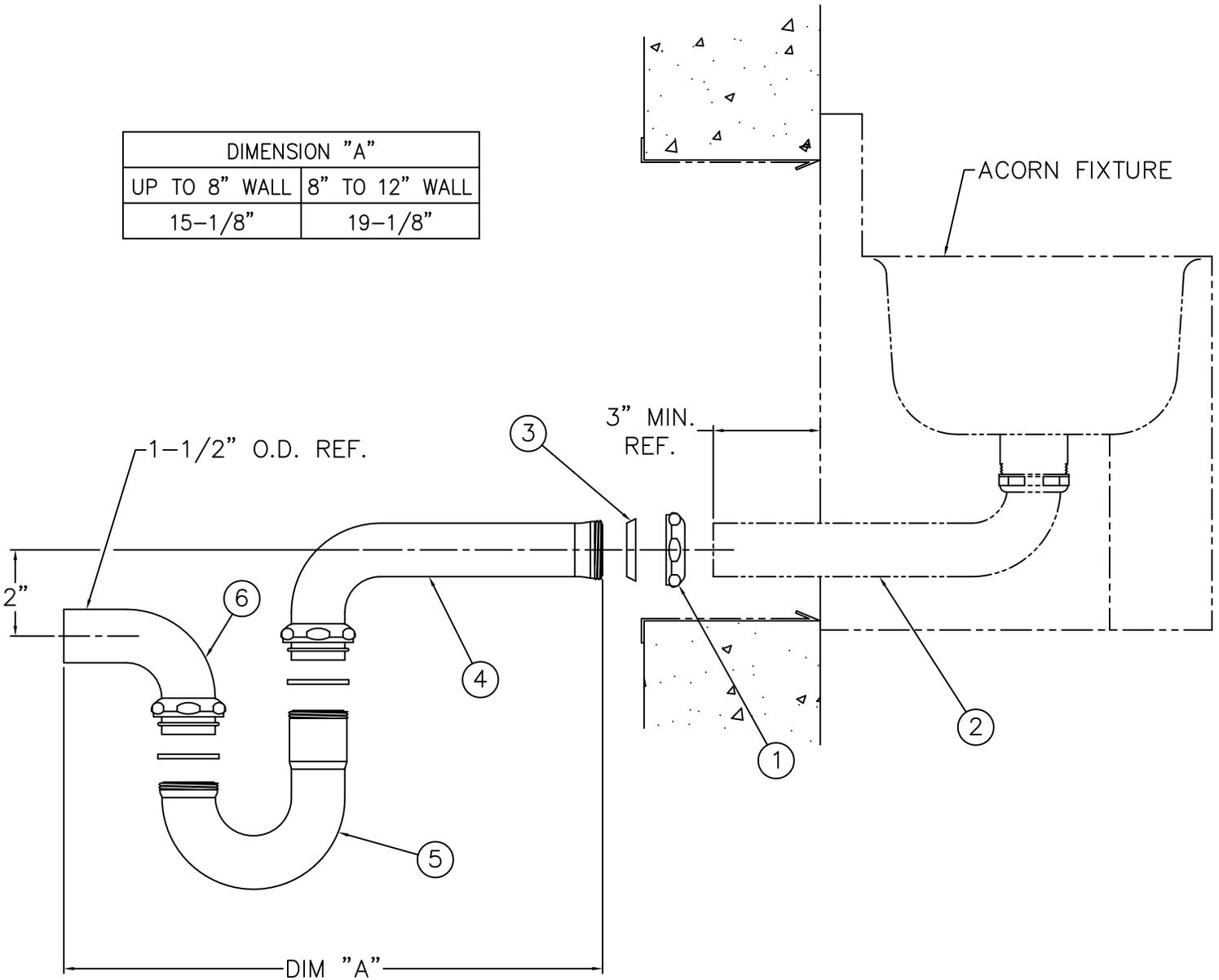
- A- PRIOR TO INSTALLATION OF THE FIXTURE, MOUNT PUSHBUTTONS ① AND BUBBLER ② TO THE BACKSPLASH.
- B- INSTALL THE PLUMBING FIXTURE TO THE WALL INCLUDING UPPER SUPPORT PLATE ③.
- C- MOUNT THE AIR-CONTROL VALVE ASSEMBLY ④. LOCATE AS REQUIRED. MAXIMUM ALLOWABLE DISTANCE BETWEEN PUSHBUTTON ① AND AIR-CONTROL 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.

- 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.
- 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. FOR OPTIONAL -04-BRS BRASS BODY VALVE, MAKE UP CONNECTION TO CHECK STOPS ⑫.
 - G- SEE APPROPRIATE SERVOMOTOR REFERENCE DRAWING FOR DETAILS AND TIMING INSRUCTIONS.

ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200	TITLE (04-SERIES) HOT & COLD AIR-CONTROL VALVE ASSEMBLY - NEW STYLE		
	MANUFACTURE DATE SEPT 1995 TO PRESENT	DATE ISSUED 11/1/95	DRAWING NUMBER 9905-000-003
		DATE REVISED 11/18/13 F	



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.

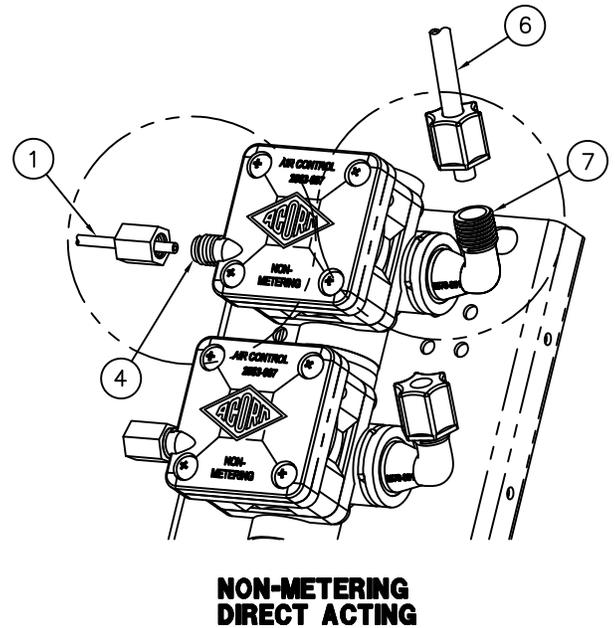
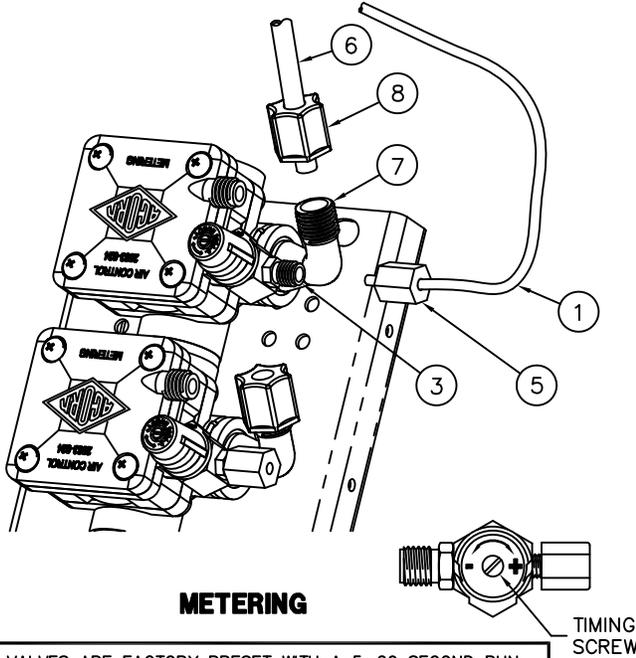
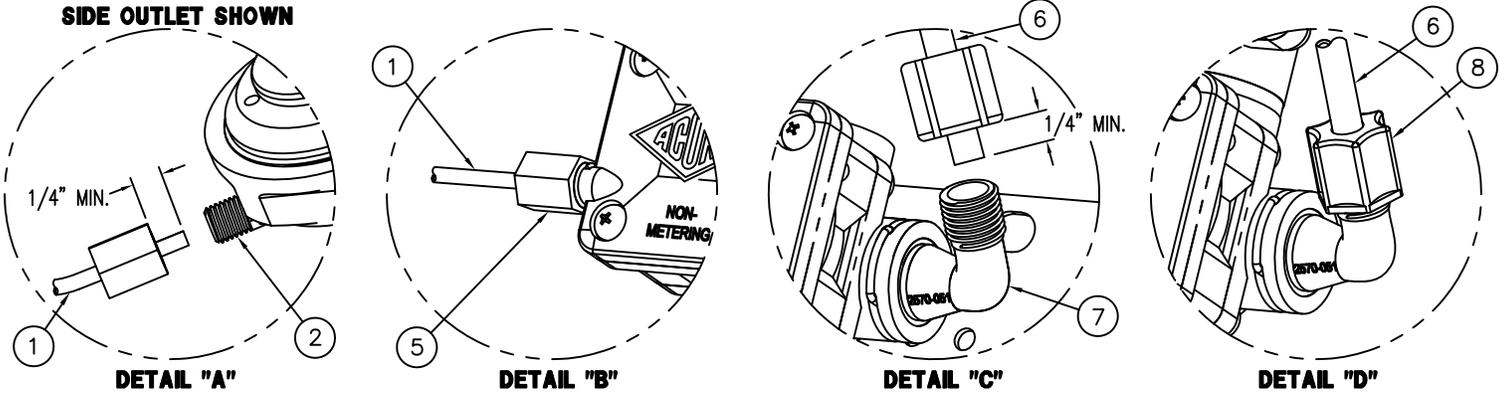
NOTE: TUBULAR P-TRAP IS REMOVABLE IN ORDER TO ALLOW FOR WASTE CLEANOUT.



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

TITLE 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



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>	