V-ARCH VACUUM STRUCTURE WITH INTELLIVAC (COIN OPERATED)
INSTALLATION INSTRUCTIONS

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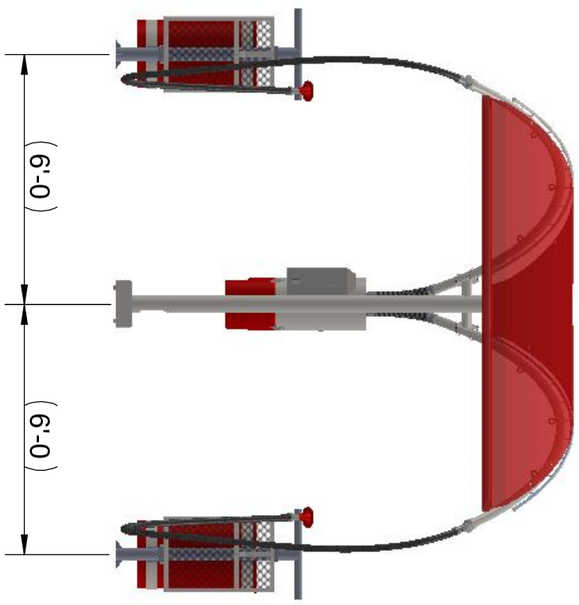
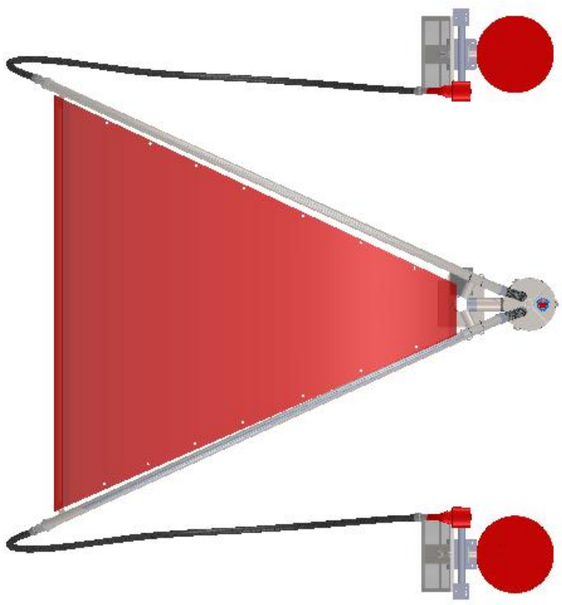
N/A





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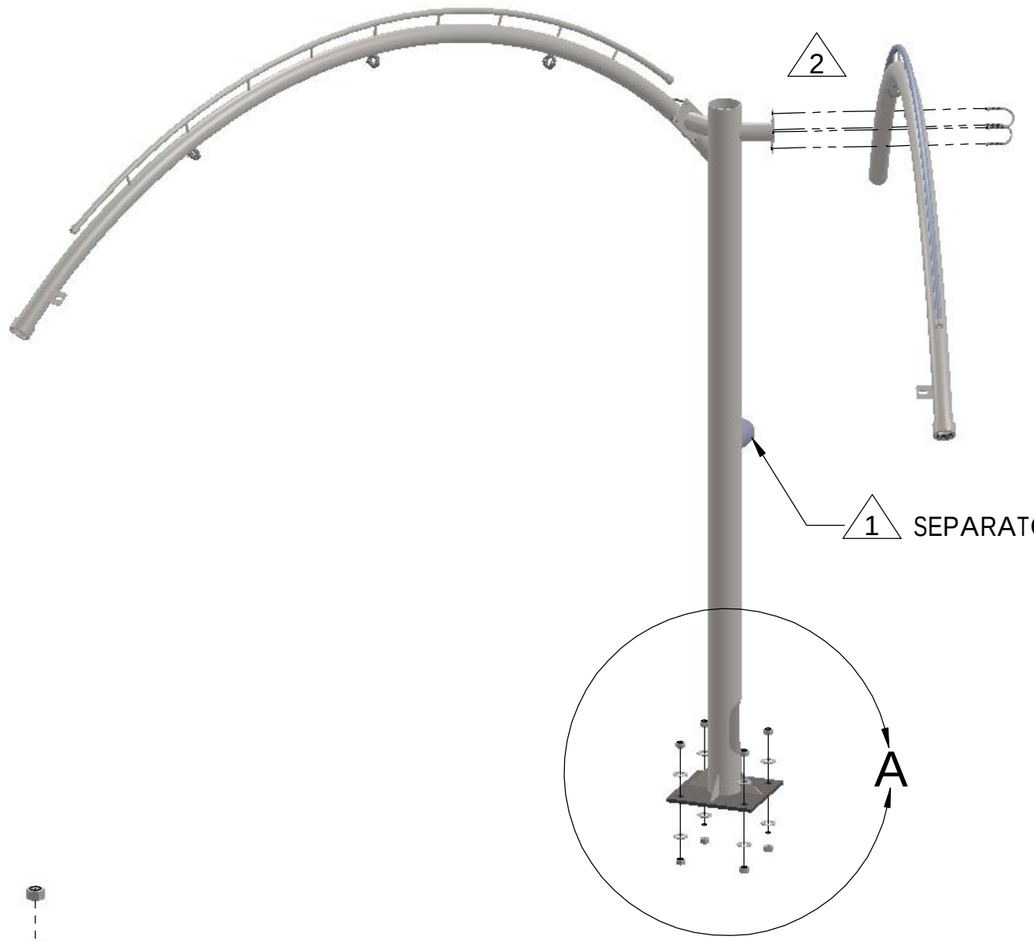
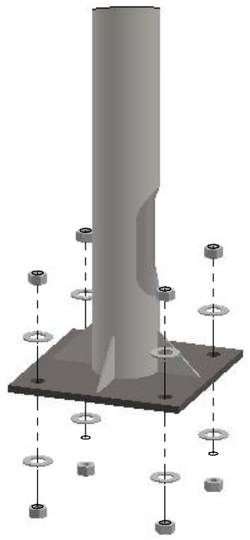
STEP	INSTRUCTIONS
1	DRY-FIT POST ASSEMBLY TO EXISTING ANCHOR BOLTS WITH SEPARATOR MOUNT FACING AWAY FROM PARKING SPACE. USE WASHER AND LEVELING NUTS TO MAKE POST PLUMB (HARDWARE NOT PROVIDED). SET POST ON FOOTING AND SECURE.
2	SECURE ARCH ON BRACKET WITH NON-THREADED END OF ARCH PROTRUDING 8" OUT TOWARDS THE REAR OF THE POST. DO NOT TIGHTEN HARDWARE.
3	ADJUST ANGLE OF ARCHES SO THAT THEY ARE PLUMB AND LEVEL TO ONE ANOTHER.





1 DETAIL A
SCALE 1 : 10

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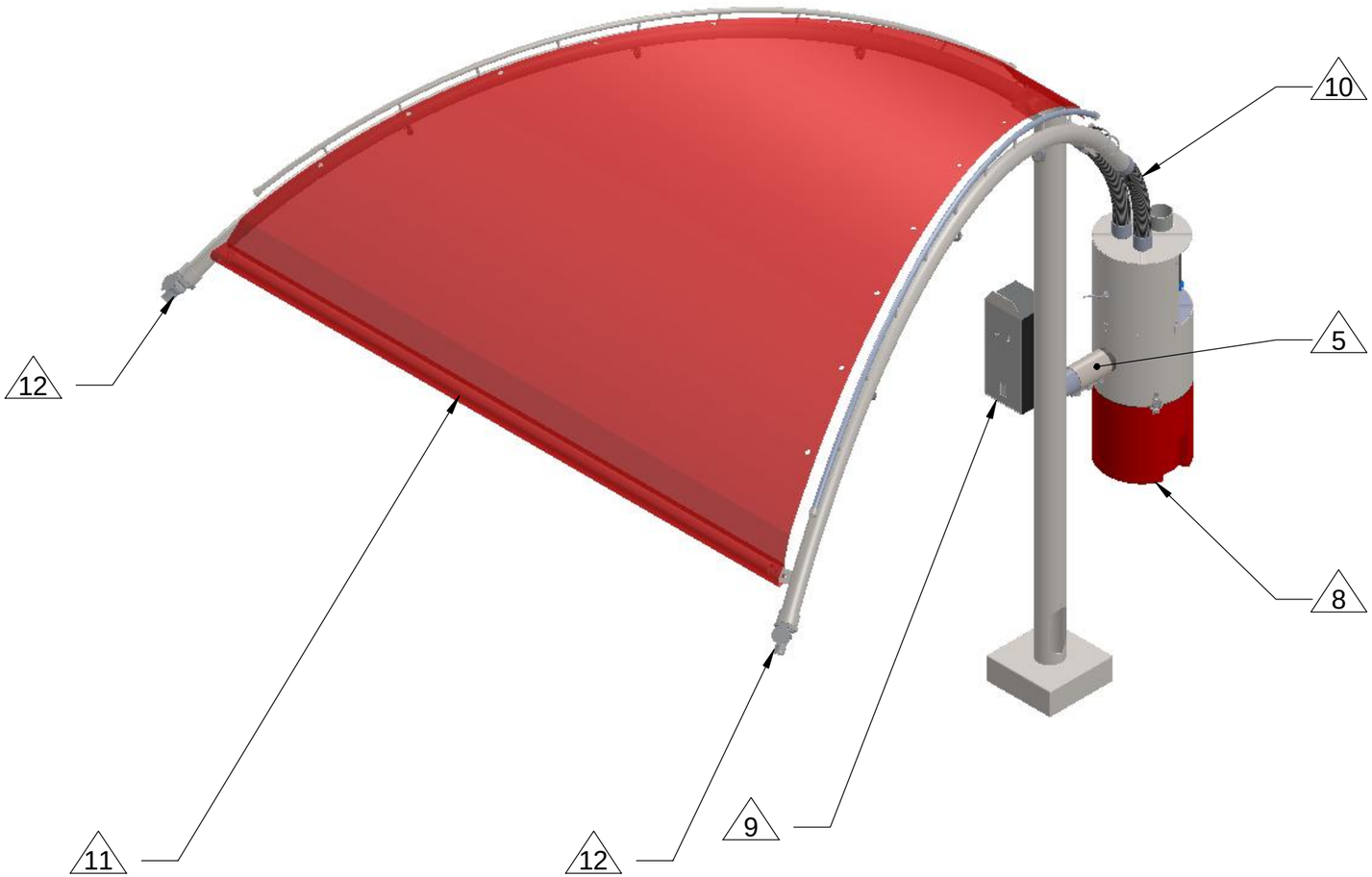
STEP	INSTRUCTIONS
5	MOUNT SEPARATOR TO ARCH ASSEMBLY WITH COMPRESSION COUPLING. PLACE COMPRESSION COUPLING OVER SEPARATOR MOUNT ON ARCH ASSEMBLY SO THAT HALF OF THE COMPRESSION COUPLING IS SECURE. HAND TIGHTEN THE BOLT THAT IS CLOSEST TO ARCH ASSEMBLY FOR A SNUG FIT.
6	ATTACH SEPARATOR MOUNT INTO COUPLING AND HAND TIGHT REMAINING HARDWARE FOR A SNUG FIT.
7	PLUMB SEPARATOR WITH ARCH ASSEMBLY AND TIGHTEN HARDWARE.
8	INSTALL DIRT BUCKE T TO SEPARATOR
9	INSTALL COIN BOX
10	INSTALL 2" FLEX HOSES BY SLIDING CUFF OVER SEPARATOR INLET PORT FIRST. THEN SLIDE OPPOSING CUFF OVER ARCH OPENING.
11	PRE-INSTALL CANOPY CROSS BAR AND VERIFY ARCHES ARE LEVEL WITH ONE ANOTHER. THEN TIGHTEN HARDWARE ON ARCH BRACKETS.
12	INSTALL INLET VALVES WITH TEFLON TAPE TO PREVENT AIR LEAKS.



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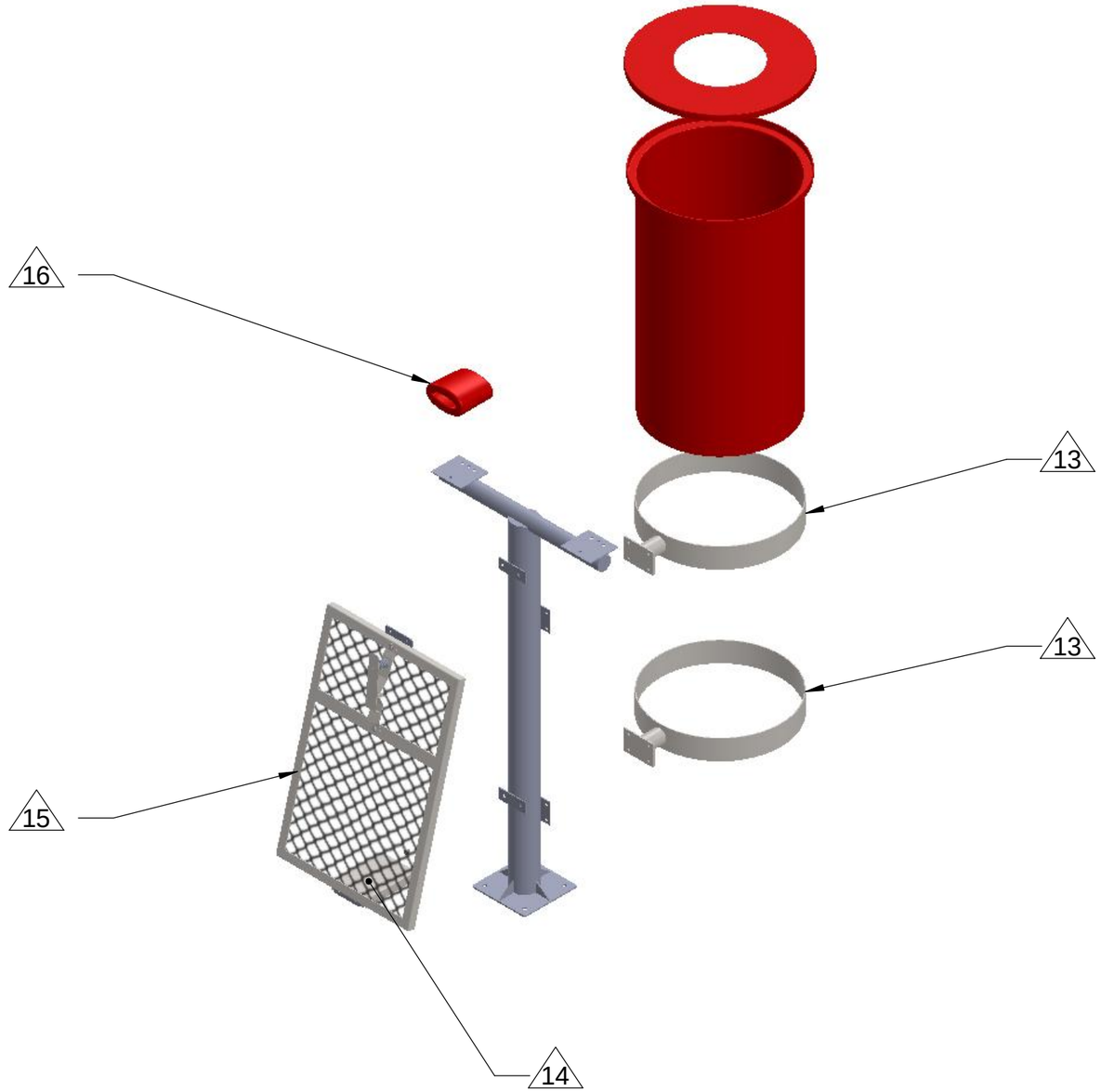
STEP	INSTRUCTIONS
13	INSTALL BOTH TRASH CAN HOLDER BRACKETS ONTO ACCESSORY POST WITH PROVIDED HARDWARE
14	INSTALL MATHOLDER SPACER TO ACCESSORY POST WITH PROVIDED HARDWARE.
15	INSTALL MAT HOLDER AND MAT CLAMP TO ACCESSORY POST WITH PROVIDED HARDWARE.
16	INSTALL NOZZLE HOLDER TO ACCESSORY POST WITH PROVIDED HARDWARE.
17	INSERT TRASH BUCKET INTO TRASH CAN HOLDERS
18	PLACE TRASH CAN LID OVER OPENING OF TRASH BUCKET.



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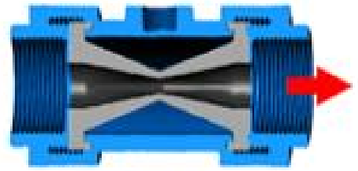
STEP	INSTRUCTIONS
	OPERATION PRESSURE FOR CONTROLLED MATERIAL CAN RANGE FROM A MODERATE VACUUM (UP TO 26" Hg) TO A MAXIMUM OF 90 PSI WHEN CONTROLLING WITH AIR.
	REQUIRED CONTROL PRESSURE IS NORMALLY 20 TO 40 PSI GREATER THAN THE MATERIAL PRESSURE. USE OF EXCESSIVE ACTUATION PRESSURE THAN THAT WHICH RESULTS IN COMPLETE VAVLE CLOSURE WILL IMPACT SLEEVE LIFE. USE OF ACTUATION PRESSURE ABOVE 90 PSI IS NOT RECOMMENDED.
A	RECOMMENDED CONFIGURATION
	AIR PINCH VALVES ARE NORMALLY OPEN AND REQUIRE CONSTANT PRESSURE FOR COMPLETE CLOSURE. THEREFORE, A LOSS OF CONTROL PRESSURE WILL ALLOW THE VALVE TO OPEN.
	IN THE EVENT OF SLEEVE FAILURE, THE DESIGNATED VACUUM NOZZLES WILL CONTINUE TO VACUUM AS LONG AS THE ENTIRE SYSTEM IS OPERATING.
	THE MAC VALVE CONTROLLING THE PINCH VALVE MUST HAVE FREE EXHAUST TO ALLOW THE PINCH VALVE TO OPEN.

NORMALLY OPEN



Air

NORMALLY CLOSED

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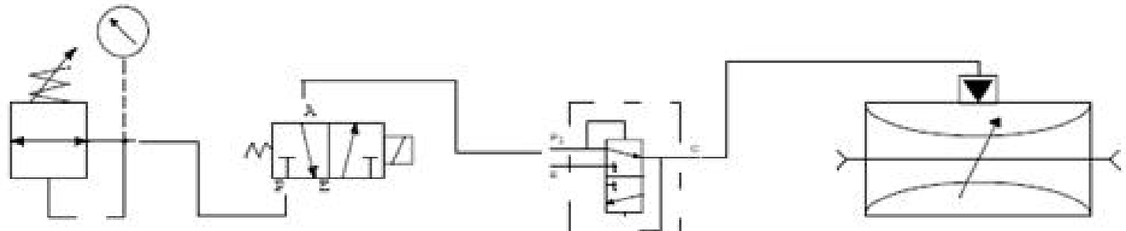

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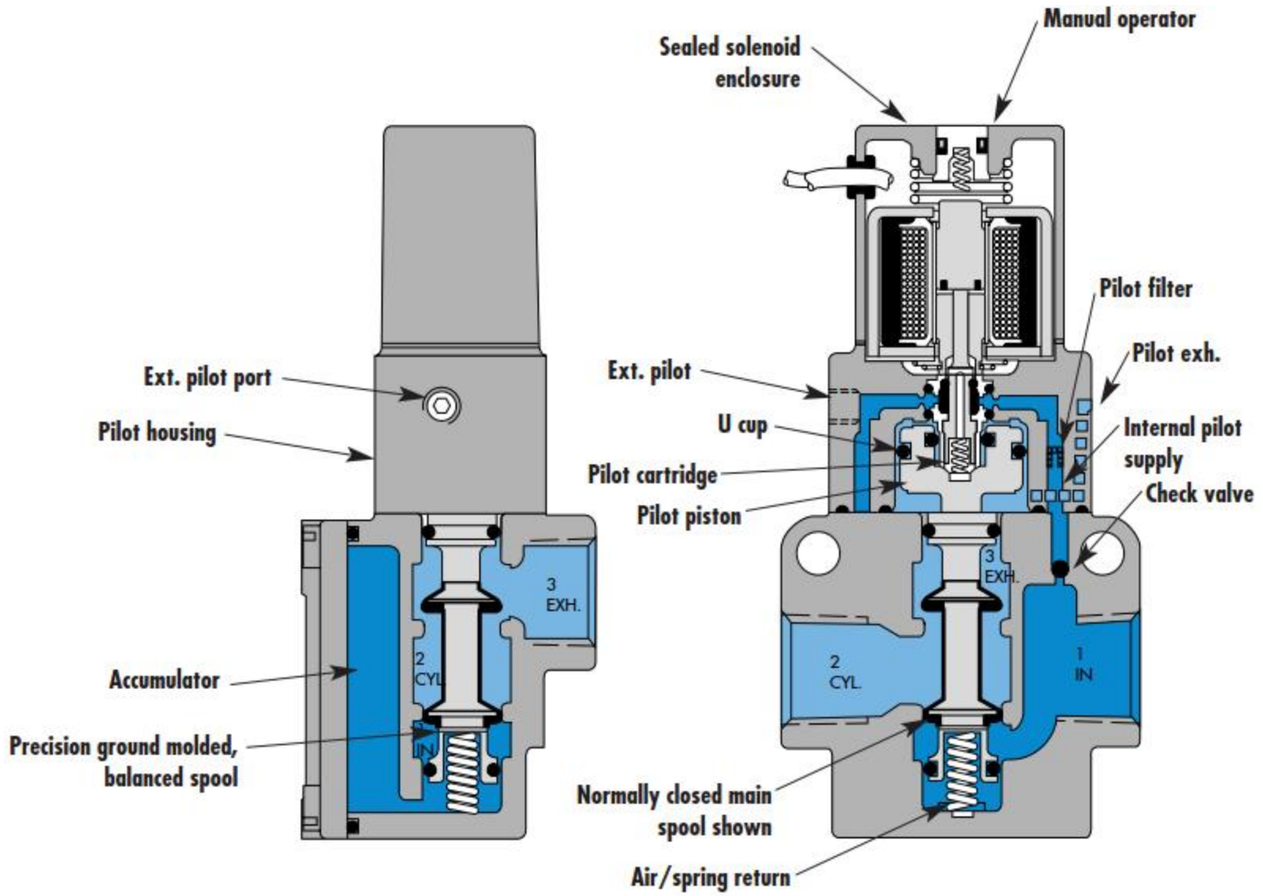
TECHNICAL DATA	
MFR/MODEL	MAC VALVE - INLINE SERIES 55 MODEL #55B-21-PI-221BA
CONNECTION	CONNECT VACUUM SOURCE TO PORT #3 WITH PORT #1 OPEN TO ATMOSPHERE, AND USE EXTERNAL PILOT ON SOLENOID PILOT OPERATED MODELS.
VOLTAGE	VOLTAGE: 24/60, 24/50 VOLTAGE RANGE: -15% TO +10% OF NOMINAL VOLTAGE ELECTRICAL CONNECTION: FLYING LEADS
PRESSURE RANGE	INTERNAL PILOT: 30 TO 150 PSI EXTERNAL PILOT: VACUUM TO 150 PSI
NOTE	IN THE EVENT OF SLEEVE FAILURE, THE DESIGNATED VACUUM NOZZLES WILL CONTINUE TO VACUUM AS LONG AS THE ENTIRE SYSTEM IS OPERATING.
NOTE	THE MAC VALVE CONTROLLING THE PINCH VALVE MUST HAVE FREE EXHAUST TO ALLOW THE PINCH VALVE TO OPEN.
TEMPERATURE RANGE	0˚F TO 120˚F (-18˚C TO 50˚C)
POWER	-INRUSH: 14.8 VA HOLDING: 10.9 VA = 1 TO 17 W

MAC VALVE - INLINE SERIES 55



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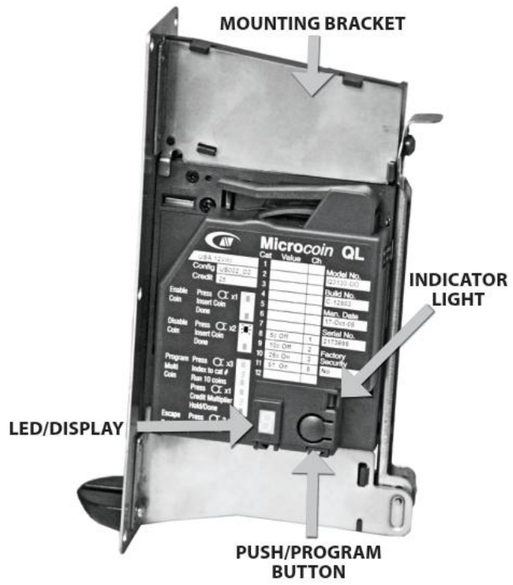
STEP	PROGRAMMING INSTRUCTIONS
	DO NOT PROGRAM IN NICKELS, DIMES, QUARTERS OR DOLLAR COINS. THEY ARE PROGRAMMED ON LINES 7-12 AND CAN BE TURNED ON/OFF INFINITELY. THE BLUE AND GREEN WIRES ARE HOOKED UP TO NORMALLY OPEN RELAY.
NOTE 1	COINS THAT ARE PROGRAMMED SHOULD NOT BE PROGRAMMED A SECOND TIME.
NOTE 2	PROGRAMMED COINS CAN BE TURNED ON/OFF WITHOUT REPROGRAMMING BY USING THE ENABLE OR DISABLE FUNCTIONS.
	IF YOU NEED A 24 V AC PULSE FOLLOW STEPS 1-3.
1	PRESS THE PUSH/PROGRAM BUTTON 3 TIMES, QUICKLY. THE INDICATOR LIGHT WILL FLASH YELLOW. THE LED/DISPLAY WILL SHOW "1" TO REPRESENT CATEGORY NUMBER 1.
2	PRESSING THE PUSH/PROGRAM BUTTON A SECOND TIME WILL PROGRAM THE COIN TO THE NEXT CATEGORY NUMBER, UP TO CATEGORY 5.
3	WHEN THE APPROPRIATE CATEGORY IS SHOWING ON THE LED/DISPLAY, DROP 10 DIFFERENT COINS THROUGH THE ACCEPTOR. (THE COINS WILL DROP THROUGH THE COIN REJECT SLOT.)
4	WHEN THE 10TH COIN HAS BEEN SAMPLED THE INDICATOR LIGHT WILL TURN SOLID YELLOW.
5	PRESS THE PUSH/PROGRAM BUTTON ONCE. THE LED/DISPLAY WILL READ "0". THIS IS THE VALUE.
6	PRESS THE PUSH/PROGRAM BUTTON ONE TIME FOR EVERY 0.25 INCREMENT THE TOKEN IS WORTH, I.E.. "4" GIVES THE TOKEN A $1.00 VALUE (PRESS THE PUSH/PROGRAM BUTTON 6 TIMES AND THE LED WILL READ "6", THE TOKEN VALUE WILL BE $1.50), UP TO $2.50 VALUE.
7	WHEN THE APPROPRIATE VALUE IS ASSIGNED, PRESS AND HOLD THE PUSH/PROGRAM BUTTON FOR 2 FULL SECONDS.
8	WHEN THE PUSH/PROGRAM BUTTON IS RELEASED THE INDICATOR LIGHT WILL BE SOLID GREEN.
9	TEST THE QL. WHEN COMPLETE, NOTE THE TOKEN AND VALUE ON THE SIDE OF THE MICROCOIN QL.
DISABLE	THE DISABLE FUNCTION IS USED TO DISABLE A COIN TEMPORARILY OR FOR LONG PERIODS OF TIME. 1. PRESS PUSH/PROGRAM BUTTON 2 TIMES, QUICKLY. THE INDICATOR LIGHT WILL FLASH RED. 2. DROP COIN 1 TIME. THE INDICATOR LIGHT WILL TURN SOLID GREEN.
ENABLE	THE ENABLE FUNCTION IS USED TO REACTIVATE A COIN THAT IS ALREADY PROGRAMMED. 1. PRESS PUSH/PROGRAM BUTTON 1 TIME. THE INDICATOR LIGHT WILL FLASH GREEN. 2. DROP COIN 1 TIME, THE INDICATOR LIGHT WILL TURN SOLID GREEN.

MICROCOIN ACCEPTOR



KLEEN-RITECORP TIMER

STEP	WIRING INSTRUCTIONS
NOTE 1	THE BLUE AND GREEN WIRES ARE INTERCHANGEABLE
1	CONNECT THE BLACK AND A BLUE OR GREEN WIRE TO THE 24VAC
2	CONNECT THE YELLOW WIRE TO THE NEUTRAL
3	THE OTHER BLUE OR GREEN WIRE (SEE NOTE 1) CONNECTS TO THE TIMER COIN PULSE.

TROUBLE SHOOTING GUIDE

PROBLEM - *ALL COINS REJECTING*

Cause	Action
No power, no Indicator Light	Check incoming voltage
Low voltage	Monitor voltage
Water in coin path	Allow to dry
Programming mode interrupted	Return to programming mode and follow guide to reprogram most recent coin (If is mode started and not completed all coins reject)

PROBLEM - *TIMER NOT COUNTING*

24 V/Common reversed	Refer to wiring section

PROBLEM - *ONE COIN REJECTING*

Cause	Action
Coin disabled	Enable coin
Not programmed	Program coin
Slightly different coin	Re-program coin using 10 different samples
"Look alike" coin	Coin is actually different and can be accepted by programming an additional category

PROBLEM - *COIN JAM*

Cause	Action
Full coin box	Empty box and QL
QL sitting crooked	Re-insert into bracket
Coin path obstructed	Remove foreign object

PROGRAMMING AND TROUBLE SHOOTING INFORMATION AVAILABLE AT WWW.HPWS.COM. IF YOU HAVE QUESTIONS YOU CAN EMAIL THEM TO ELECTRONICSDEPT@HPWS.COM

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