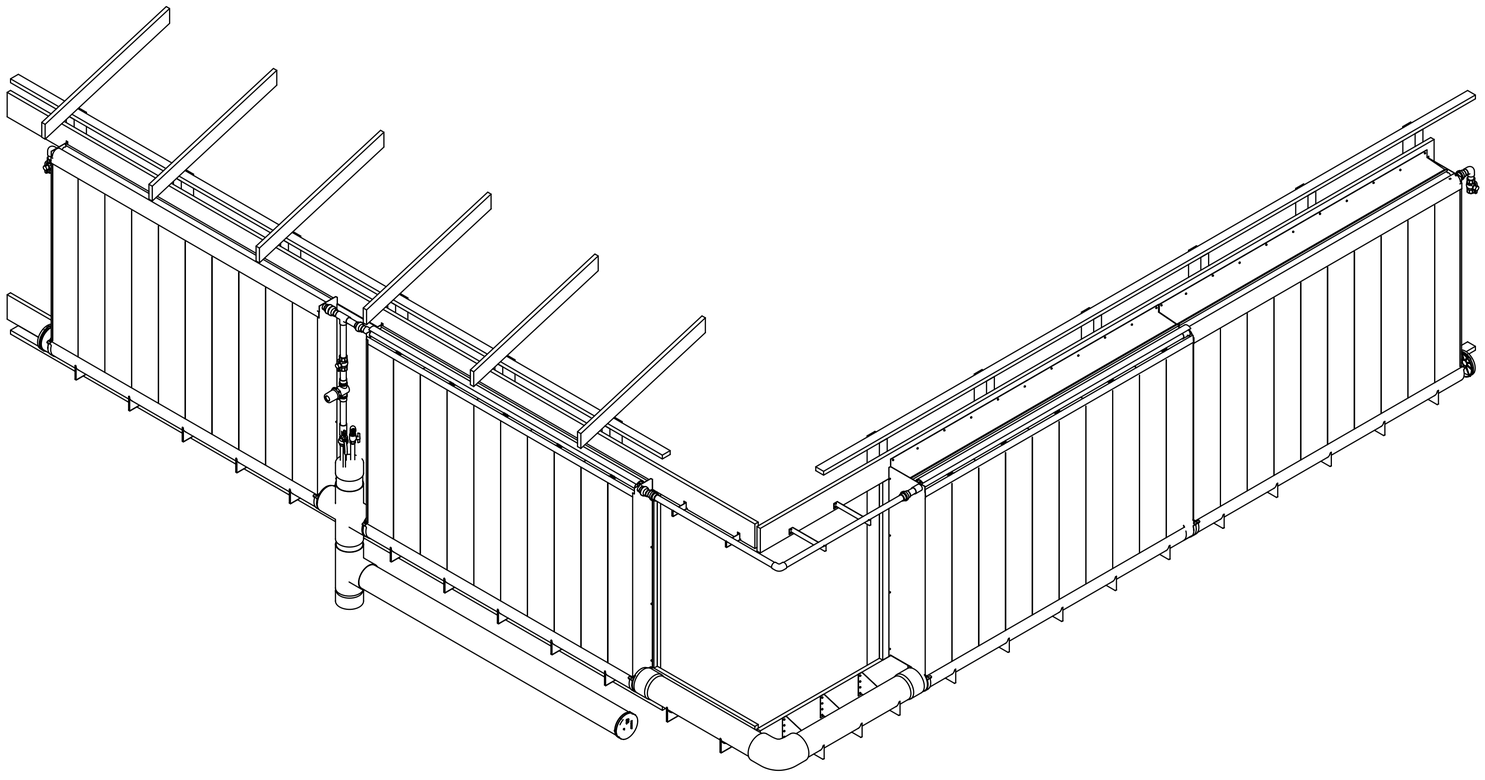
REV	ECN#	DESCRIPTION	DATE	BY
A	14336	RECREATED DRAWINGS IN SOLIDWORKS AND ADDED MORE DETAILS FOR INSTALLATION AS WELL AS ADDING A PREVENTATIVE MAINTENANCE AND REPAIR PARTS SECTION.	10/22/2018	AP
B	14956	ADDED INFORMATION FOR 200 CM TALL COOL PAD. SPECIFIED PAA15 TO BE USED WITH 60HZ PUMPS AND PAA16 WITH 50HZ PUMPS.	3/10/2020	AP
C	15348	CHANGED NOTE IN CHART COLUMN (B) IN UPPER LEFT CORNER OF PAGE 4 TO "DISTANCE BETWEEN TOP FLANGE OF PAE500 TO TOP OF PAB250 (PAD HEIGHT + 4")"	4/16/2021	AP
D	15490	CORRECTED BOM NUMBERING ERRORS ON PAGES 16 & 17.	8/3/2021	TC

EZ-COOL RECIRCULATING PAD SYSTEM: QUICKSHEET

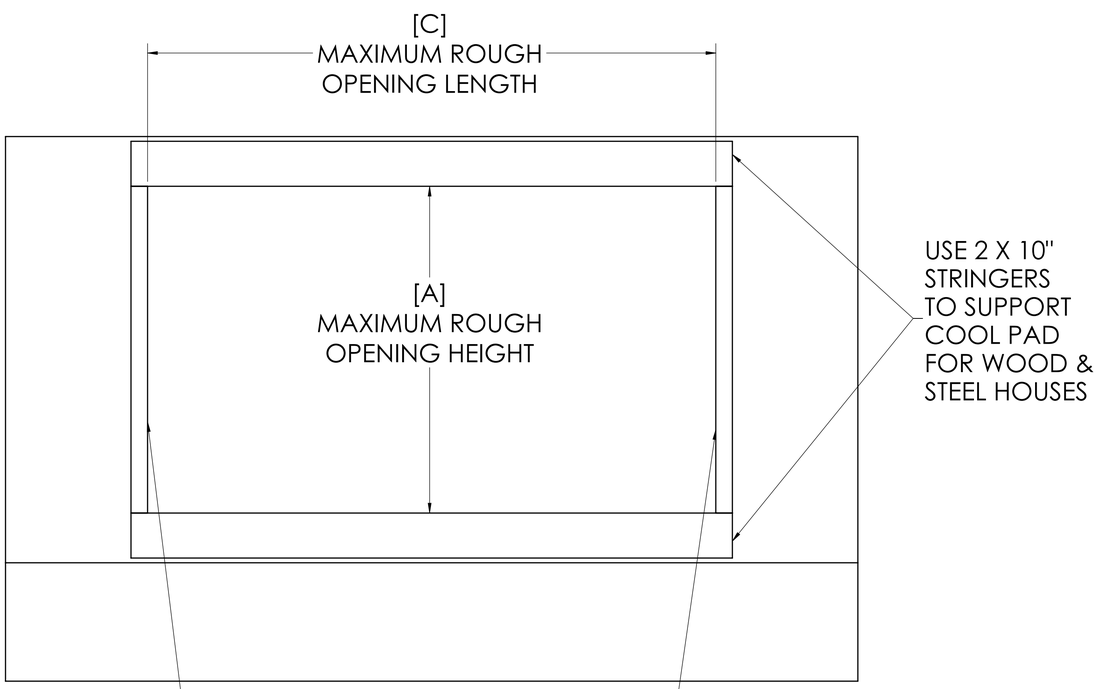
(READ THROUGH ENTIRE QUICK SHEET BEFORE BEGINNING TO INSTALL)



990131

UNSPECIFIED TOLERANCES 2 PLACE ± .060 3 PLACE ± .030 4 PLACE ± .010 HOLE DIA. ± .010 ANGULAR ± 1°	DIMENSIONS ARE IN INCHES DIMENSIONS IN ( ) ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED. DO NOT SCALE	**VALCO INDUSTRIES, INC.** PO BOX 8 NEW HOLLAND, PA 17557
	DATE 7/27/2018 DRAWN AP CHECK - WEIGHT N/A SCALE 1:8	DESCRIPTION INSTALLATION INSTR FOR EZ-COOL DESCRIPTION 2 RECIRCULATION PAD SYSTEM SHEET 1 OF 20 — 990131 — REV. D

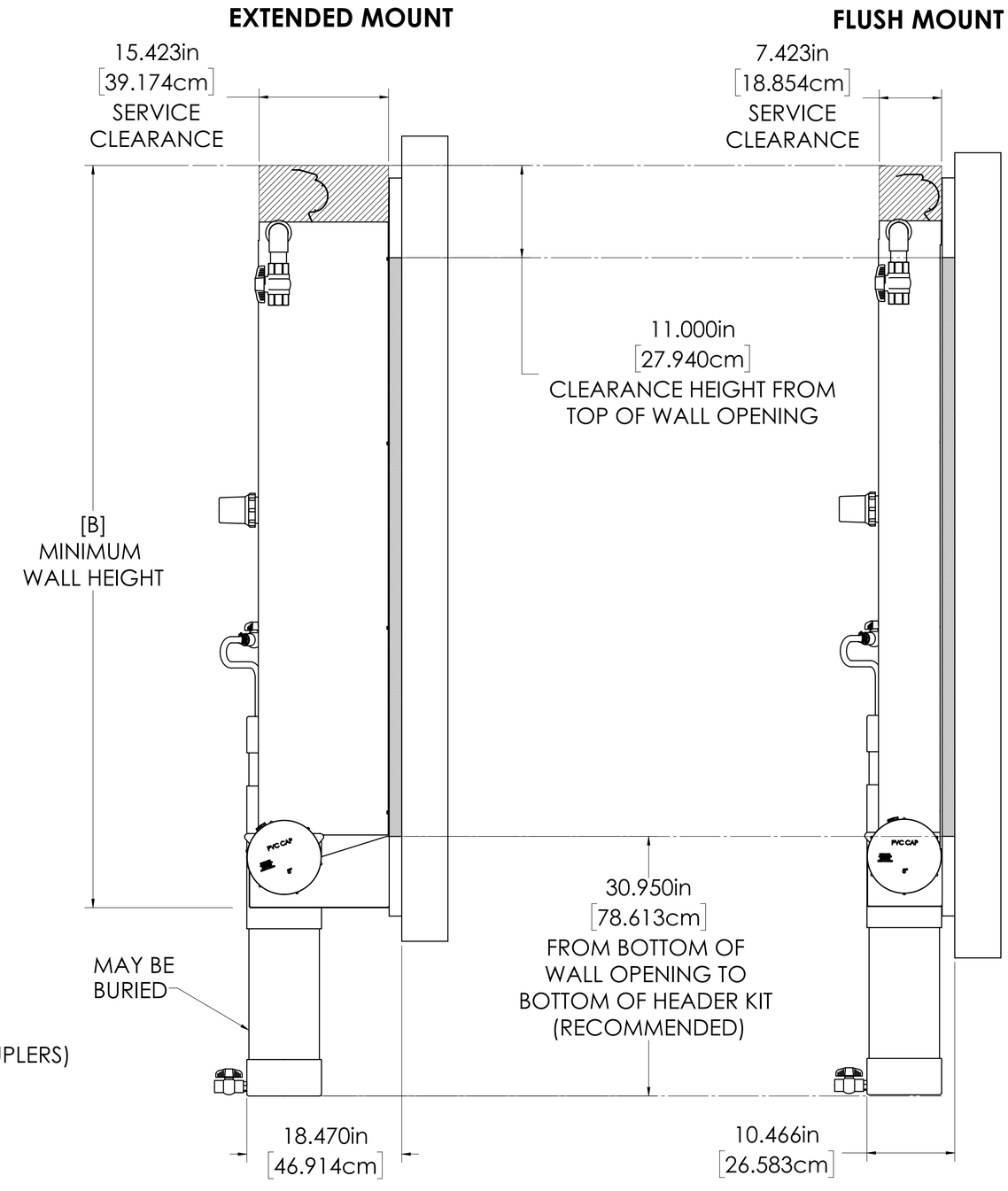
GENERAL FRAMING REQUIREMENTS



PAD HEIGHT	MAXIMUM ROUGH OPENING HEIGHT [A] (PAD HEIGHT - 3 IN)	MINIMUM WALL HEIGHT [B] (PAD HEIGHT + 18 IN)
36 IN [91.4 CM]	33 IN [83.8 CM]	54 IN [137.2 CM]
48 IN [121.9 CM]	45 IN [114.3 CM]	66 IN [167.6 CM]
60 IN [152.4 CM]	57 IN [144.8 CM]	78 IN [198.1 CM]
72 IN [182.9 CM]	69 IN [175.3 CM]	90 IN [228.6 CM]
78.7 IN [200.0 CM]	75.7 IN [192.3 CM]	96.7 IN [245.6 CM]

MAXIMUM ROUGH OPENING LENGTH [C] = SYSTEM LENGTH + 1/4 IN * (NUMBER OF TROUGH COUPLERS)

SYSTEM LENGTH	MAXIMUM ROUGH OPENING LENGTH [C]
20 FT [6M 9.6 CM]	20 FT 1/4 IN [6M 10.2 CM]
40 FT [12M 19.2 CM]	40 FT 3/4 IN [12M 21.1 CM]
60 FT [18M 28.8 CM]	60 FT 1-1/4 IN [18M 32.0 CM]
80 FT [24M 38.4 CM]	80 FT 1-3/4 IN [24M 42.8 CM]



UNSPECIFIED TOLERANCES
2 PLACE ± .060
3 PLACE ± .030
4 PLACE ± .010
HOLE DIA. ± .010
ANGULAR ± 1°

DIMENSIONS ARE IN INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS
UNLESS OTHERWISE SPECIFIED.
DO NOT SCALE

DATE 7/27/2018
DRAWN AP
CHECK -
WEIGHT N/A
SCALE 1:8

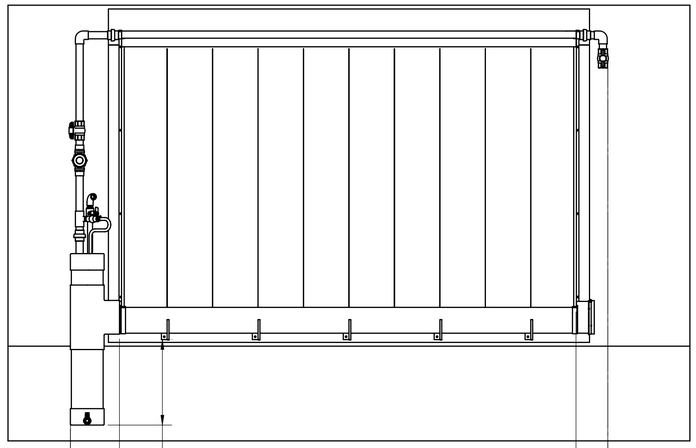
VALCO INDUSTRIES, INC.
PO BOX 8
NEW HOLLAND, PA 17557

DESCRIPTION 1 INSTALLATION INSTR FOR EZ-COOL
DESCRIPTION 2 RECIRCULATION PAD SYSTEM

SHEET 2 OF 20 | 990131 | REV. D

CLEARANCES & RELATIVE ROUGH OPENING PLACEMENT

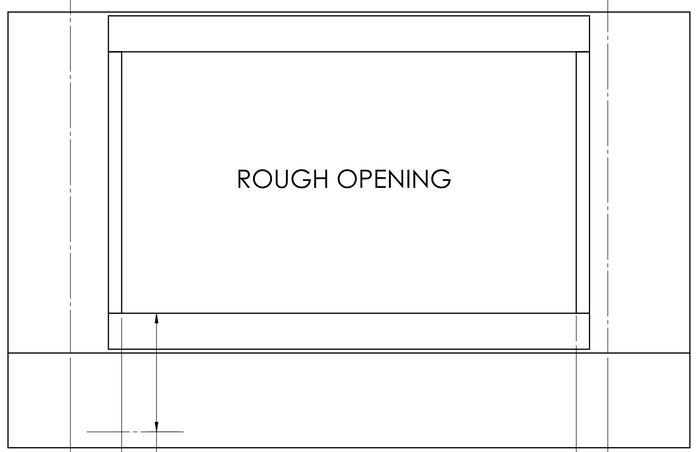
END FED SYSTEM



12.960in
[32.918cm]
WIDTH OF END FED
HEADER KIT
(TYP)

22.560in
[57.302cm]
DISTANCE FROM
BOTTOM BRACKET TO
BOTTOM OF HEADER KIT
(RECOMMENDED)

8.387in
[21.303cm]
CLEARANCE
PAST SYSTEM
LENGTH

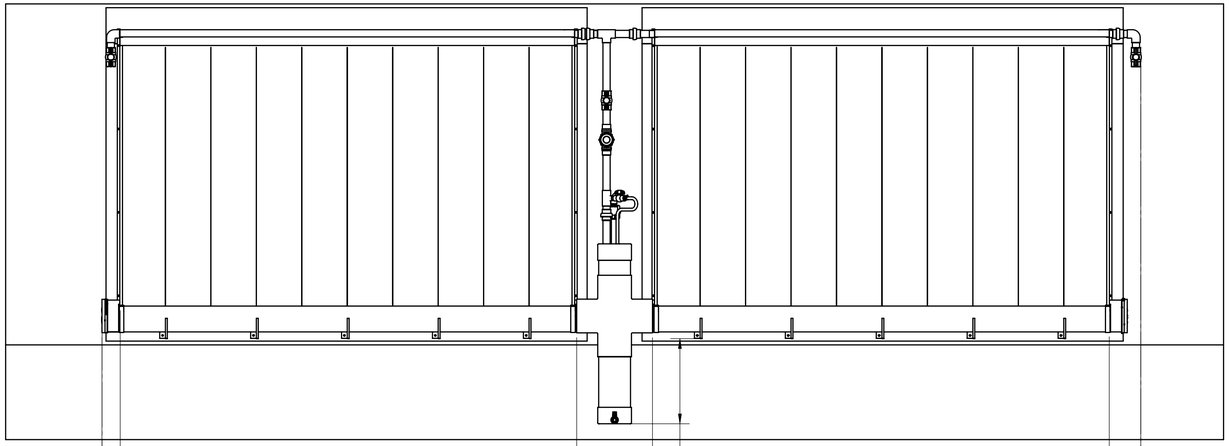


14in
[35.56cm]
CLEARANCE PAST
ROUGH OPENING
FOR HEADER KIT
INSTALLATION

31.325in
[79.566cm]
DISTANCE FROM BOTTOM
OF R.O. TO BOTTOM
OF HEADER KIT
(RECOMMENDED)

8in
[21.146cm]
CLEARANCE PAST
ROUGH OPENING

CENTER FED SYSTEM

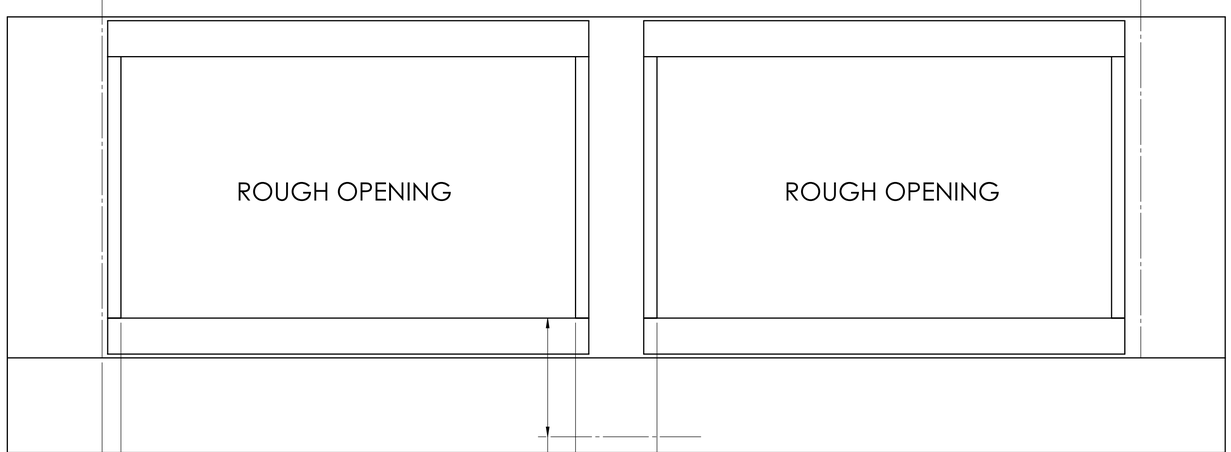


4.812in
[12.222cm]
CLEARANCE
PAST SYSTEM
LENGTH
(TYPICAL)

20.000in
[50.800cm]
WIDTH OF CENTER
FED HEADER KIT

22.45in
[57.02cm]
DISTANCE FROM
BOTTOM BRACKET TO
BOTTOM OF HEADER KIT
(RECOMMENDED)

8.325in
[21.146cm]
CLEARANCE
PAST SYSTEM
LENGTH



5in
[13cm]
CLEARANCE PAST
ROUGH OPENING

31.325in
[79.566cm]
DISTANCE FROM BOTTOM
OF R.O. TO BOTTOM
OF HEADER KIT
(RECOMMENDED)

21.500in
[54.610cm]
MINIMUM DISTANCE
BETWEEEN CENTER FED
ROUGH OPENINGS

UNSPECIFIED TOLERANCES 2 PLACE ± .060 3 PLACE ± .030 4 PLACE ± .010 HOLE DIA. ± .010 ANGULAR ± 1°	DIMENSIONS ARE IN INCHES DIMENSIONS IN ( ) ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED. DO NOT SCALE	VALCO INDUSTRIES, INC. PO BOX 8 NEW HOLLAND, PA 17557	
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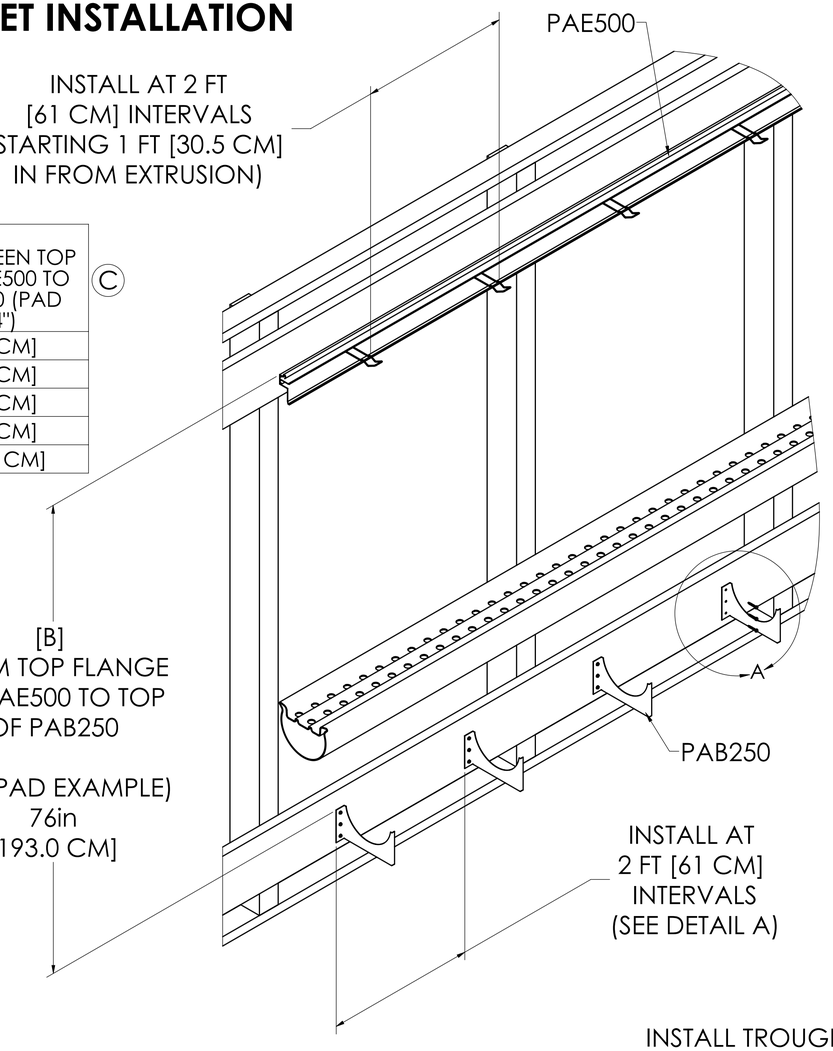
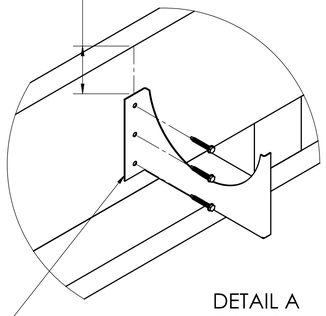
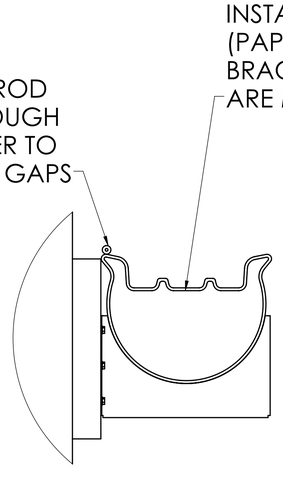
FLUSH MOUNT BRACKET INSTALLATION

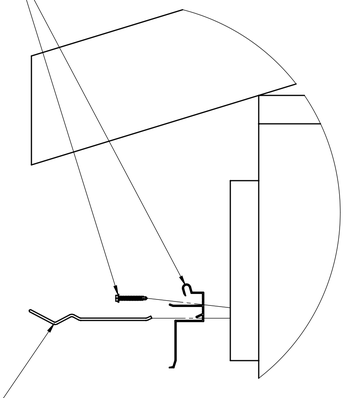
HEIGHT OF PAD	[B] DISTANCE BETWEEN TOP FLANGE OF PAE500 TO TOP OF PAB250 (PAD HEIGHT + 4")
36 IN [91.4 CM]	40 IN [101.6 CM]
48 IN [121.9 CM]	52 IN [132.1 CM]
60 IN [152.4 CM]	64 IN [162.6 CM]
72 IN [182.9 CM]	76 IN [193.0 CM]
78.7 IN [200.0 CM]	82.7 IN [210.1 CM]

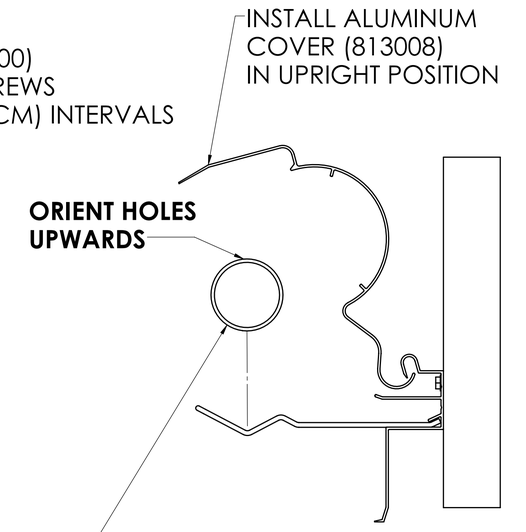




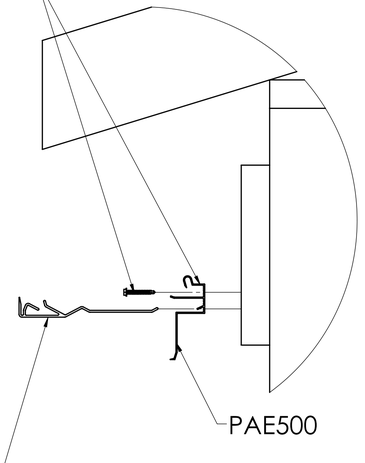


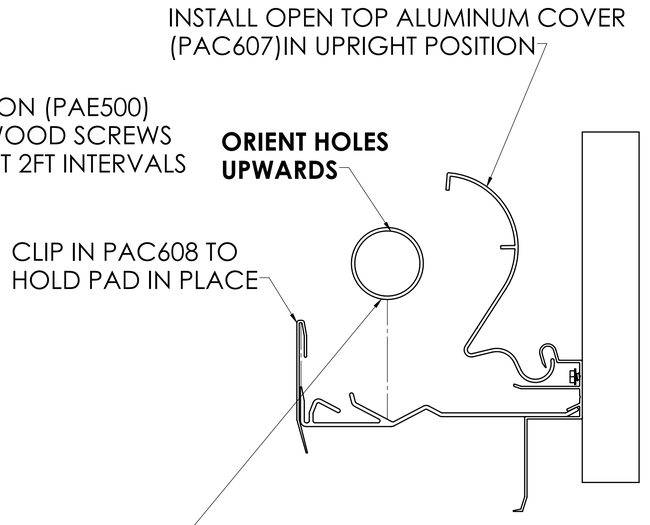
CLOSED TOP FLUSH MOUNT





OPEN TOP FLUSH MOUNT





UNSPECIFIED TOLERANCES 2 PLACE ± .060 3 PLACE ± .030 4 PLACE ± .010 HOLE DIA. ± .010 ANGULAR ± 1°	DIMENSIONS ARE IN INCHES DIMENSIONS IN ( ) ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED. DO NOT SCALE	VALCO INDUSTRIES, INC. PO BOX 8 NEW HOLLAND, PA 17557
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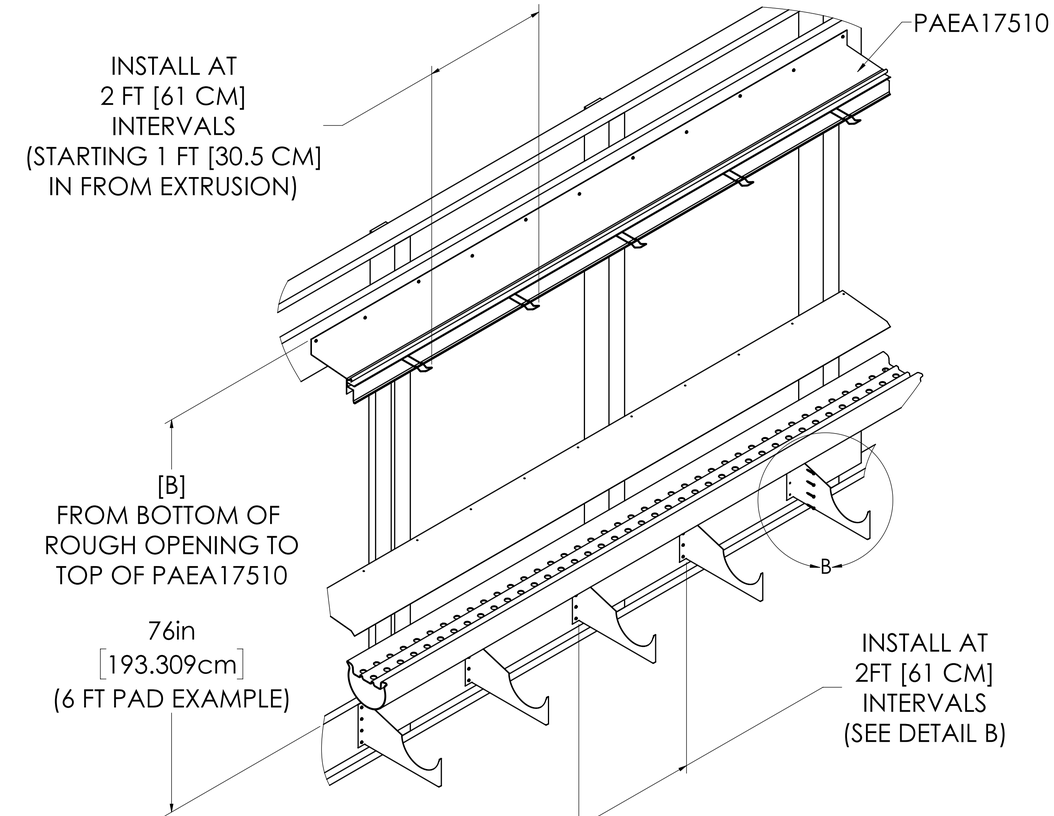
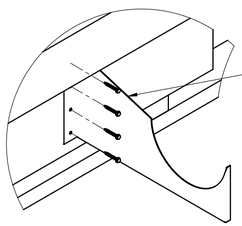
EXTENDED MOUNT BRACKET INSTALLTION



HEIGHT OF PAD	[B] DISTANCE FROM BOTTOM OF ROUGH OPENING TO TOP OF PAEA17510 (PAD HEIGHT + 4 IN [10.2 CM])
36 IN [91.44 CM]	41 IN [104.1 CM]
48 IN [121.9 CM]	53 IN [134.6 CM]
60 IN [152.4 CM]	65 IN [165.1 CM]
72 IN [182.8 CM]	76 IN [193.0 CM]
78.7 IN [200 CM]	82.7 IN [210.1 CM]

MOUNT EXTENSION PLATE (PAEZEXT) ONTO TROUGH AND STRINGER BY INSTALLING WOOD SCREWS (PAS250) USING HOLES IN PAEZEXT AS TEMPLATE

LOWER PVC TROUGH (PAP800WT) ONTO STEEL BRACKETS (PAB25010)



DETAIL B
SCALE 1 : 6

INSTALL EXTENDED BRACKETS (PAB25010) WITH TOP OF BRACKET FLUSH WITH TOP OF BOTTOM STRINGER

USE (4) WOOD SCREWS (PAS250) PER BRACKET

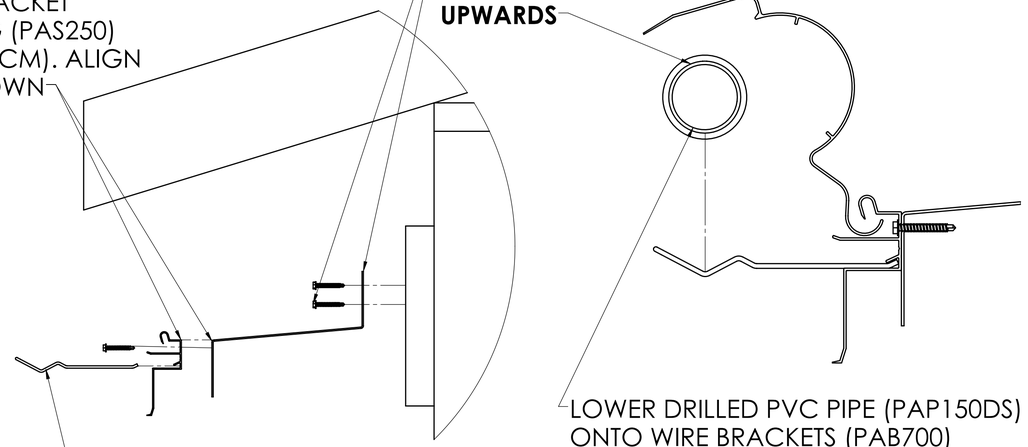
CLOSED TOP (EXTENDED MOUNT)

MOUNT EXTENSION BRACKET (PAE17510) TO TOP STRINGER USING WOOD SCREWS (PAS250) & STAGGERED HOLES AS TEMPLATE

MOUNT TOP EXTRUSION (PAE500) TO EXTENSION BRACKET (PAE17510) USING (PAS250) EVERY 12 IN (30.5 CM). ALIGN BRACKETS AS SHOWN

ORIENT HOLES UPWARDS

INSTALL ALUMINUM COVER (813008) IN UPRIGHT POSITION



LOWER DRILLED PVC PIPE (PAP150DS) ONTO WIRE BRACKETS (PAB700)

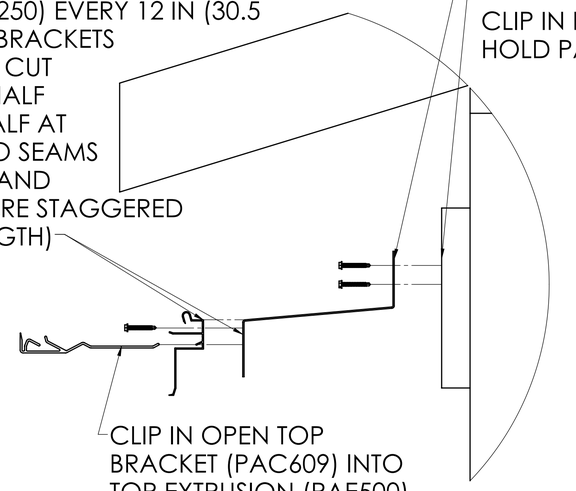
CLIP IN GAL. WIRE BRACKET (PAB700) INTO TOP EXTRUSION (PAE500) AT 2FT INTERVALS

OPEN TOP (EXTENDED MOUNT)

INSTALL OPEN TOP ALUMINUM COVER (PAC607) IN UPRIGHT POSITION

MOUNT EXTENSION BRACKET (PAE17510) TO TOP STRINGER USING WOOD SCREWS (PAS250) & STAGGERED HOLES AS TEMPLATE

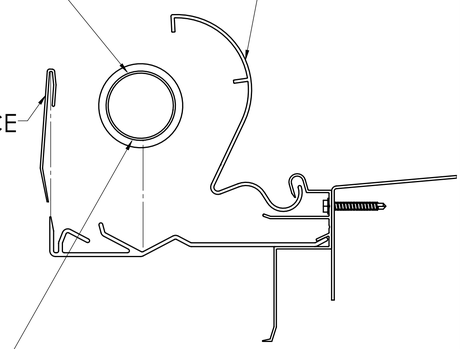
MOUNT TOP EXTRUSION (PAE500) TO EXTENSION BRACKET (PAE17510) USING (PAS250) EVERY 12 IN (30.5 CM)ALIGN BRACKETS AS SHOWN. CUT PAE500 IN HALF AND USE HALF AT ONE END SO SEAMS OF PAE500 AND PAE17510 ARE STAGGERED (FOR STRENGTH)



CLIP IN OPEN TOP BRACKET (PAC609) INTO TOP EXTRUSION (PAE500) AT 2FT (61 CM) INTERVALS

ORIENT HOLES UPWARDS

CLIP IN PAC608 TO HOLD PAD IN PLACE



LOWER DRILLED PVC PIPE (PAP150DS) ONTO WIRE BRACKETS (PAB700)

UNSPECIFIED TOLERANCES 2 PLACE ± .060 3 PLACE ± .030 4 PLACE ± .010 HOLE DIA. ± .010 ANGULAR ± 1°	DIMENSIONS ARE IN INCHES DIMENSIONS IN ( ) ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED DO NOT SCALE	VALCO INDUSTRIES, INC. PO BOX 8 NEW HOLLAND, PA 17557	
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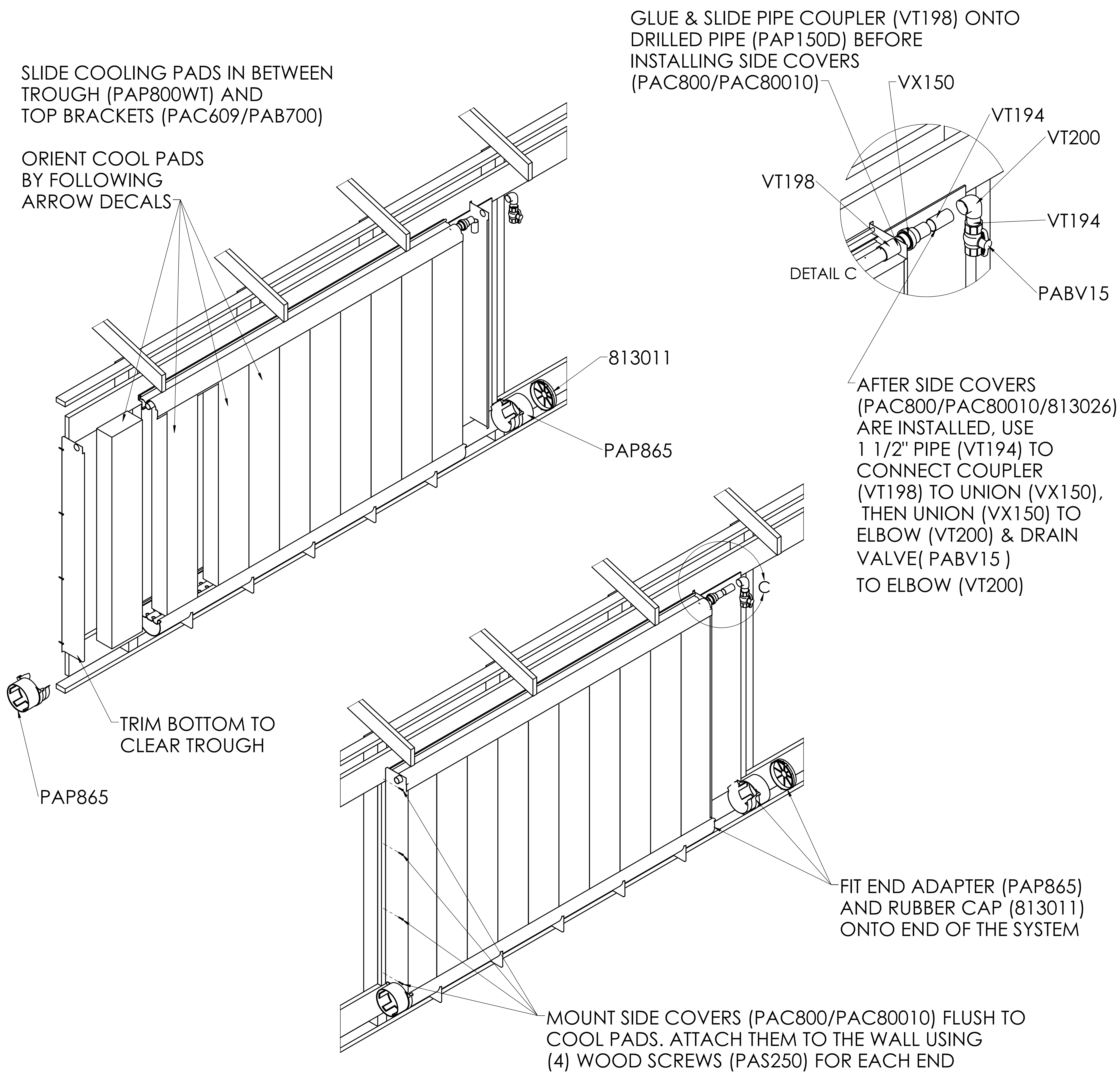
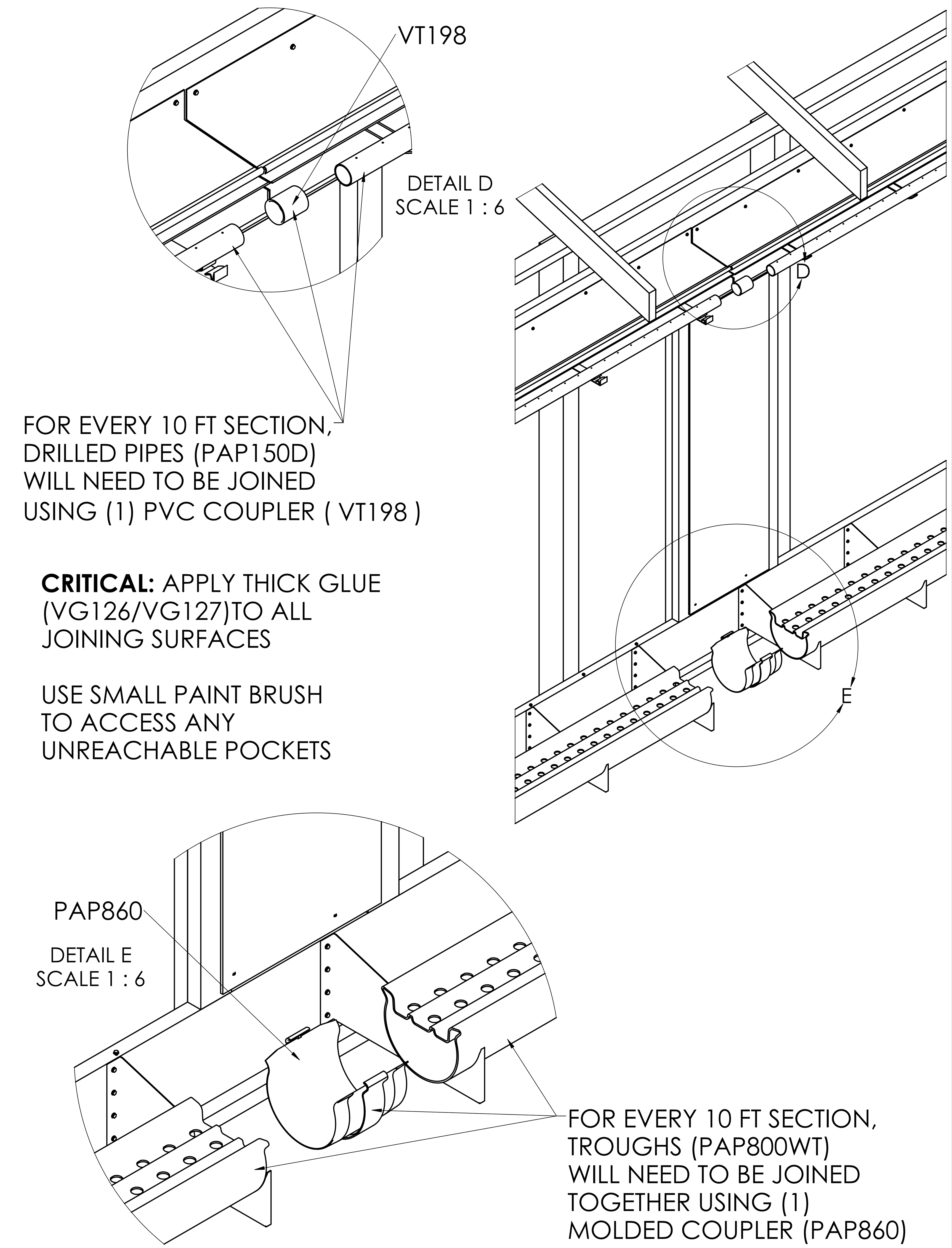
END FED HEADER KIT & COOL PADS (FLUSH MOUNT/EXTENDED MOUNT)



JOINING 10 FT SECTIONS



CRITICAL: APPLY THICK GLUE (VG126/VG127)TO ALL JOINING SURFACES

USE SMALL PAINT BRUSH TO ACCESS ANY UNREACHABLE POCKETS

UNSPECIFIED TOLERANCES 2 PLACE ± .060 3 PLACE ± .030 4 PLACE ± .010 HOLE DIA. ± .010 ANGULAR ± 1°	DIMENSIONS ARE IN INCHES DIMENSIONS IN ( ) ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED. DO NOT SCALE	VALCO	**VALCO INDUSTRIES, INC.** PO BOX 8 NEW HOLLAND, PA 17557
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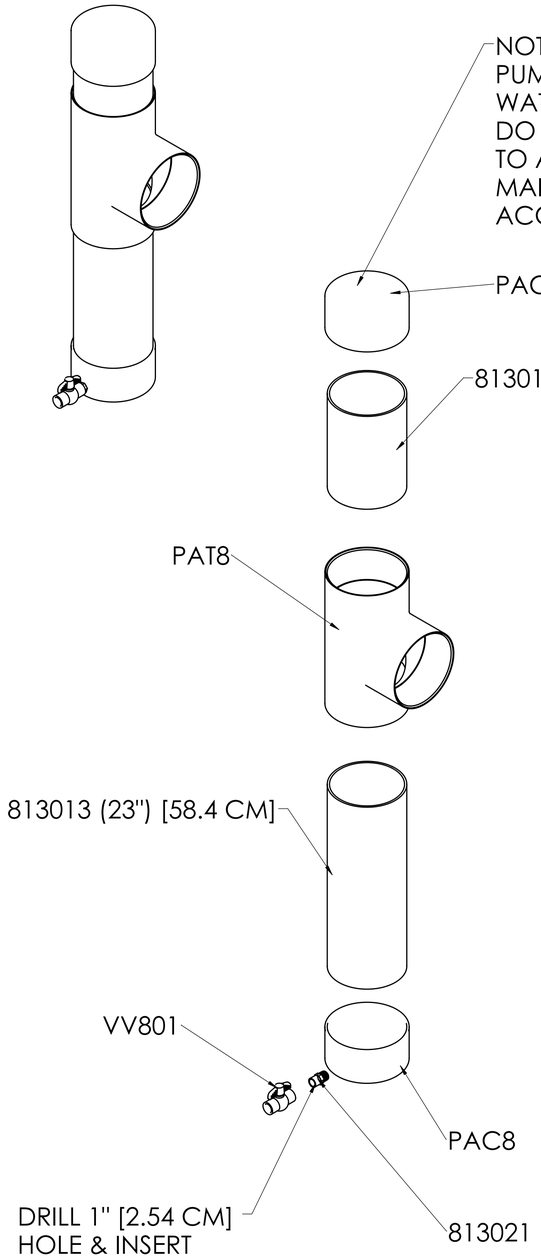
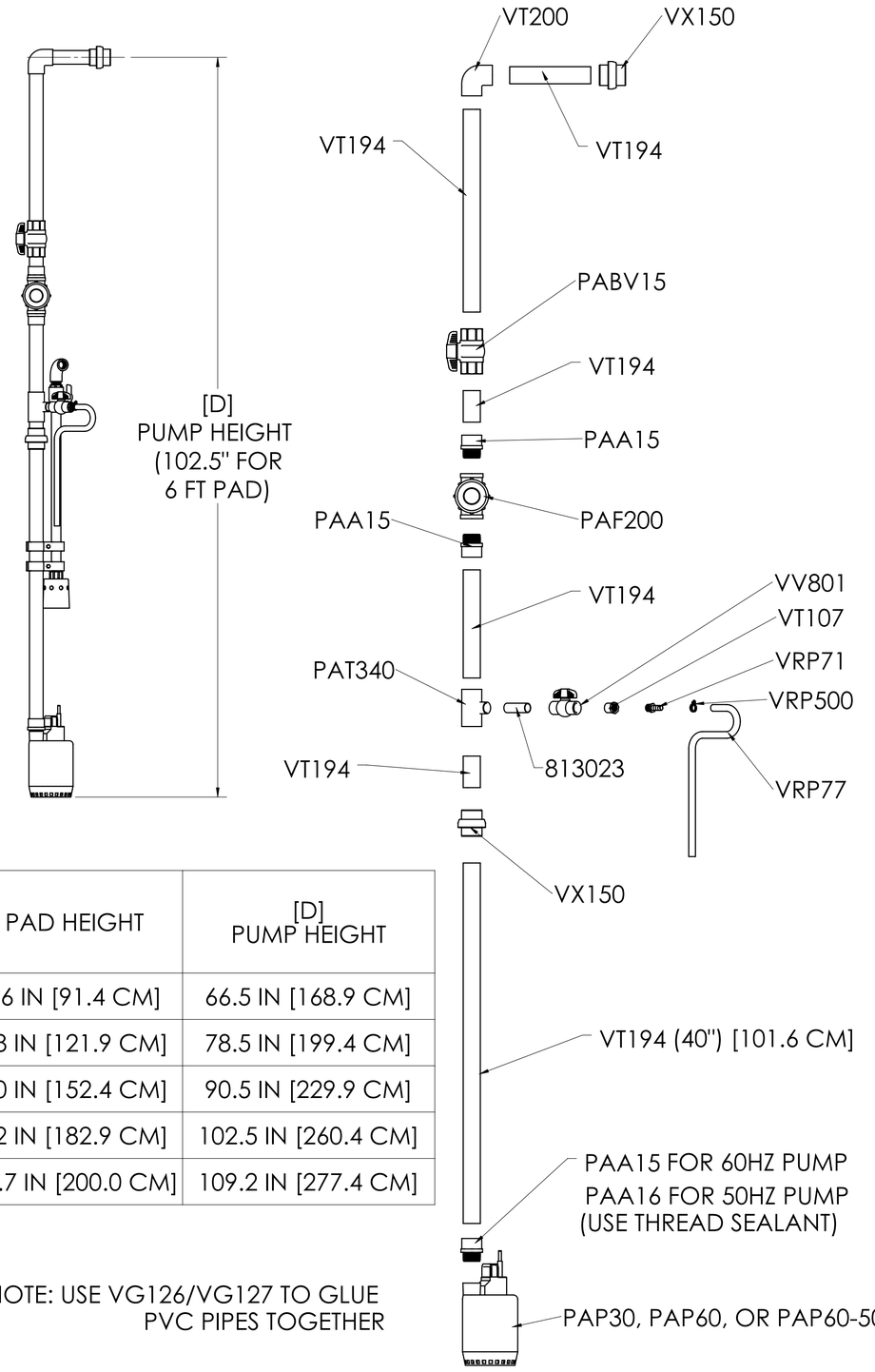
SUMP ASSEMBLY (END FED)

NOTE: USE VG126/VG127 TO GLUE PVC PIPES TOGETHER



PUMP ASSEMBLY (END FED)

FOR 6 FT PAD SHOWN BELOW

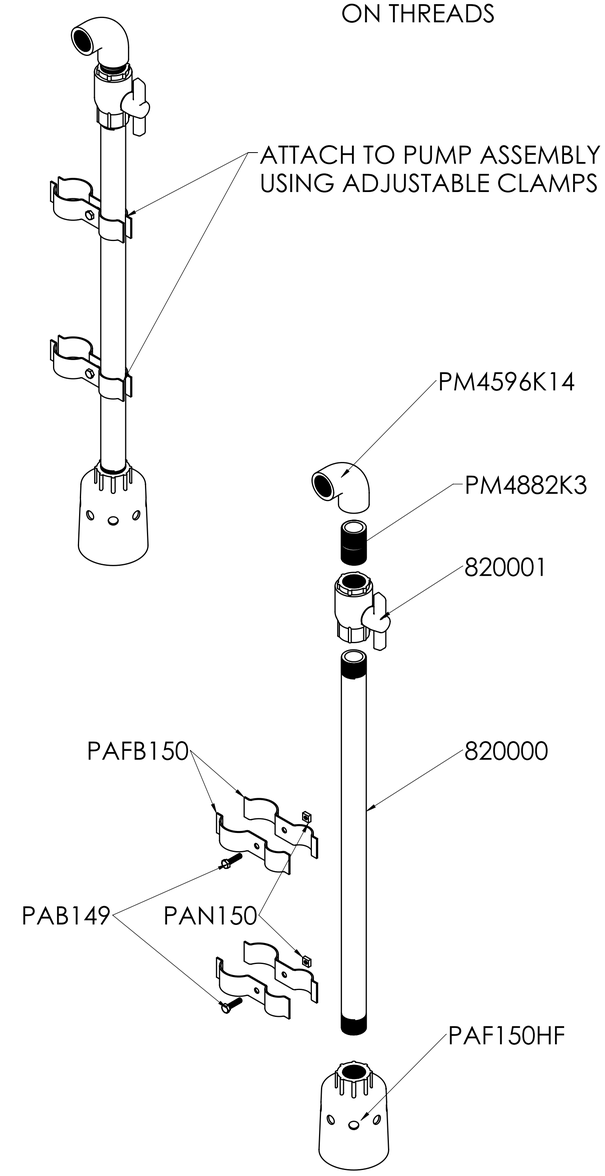


PAD HEIGHT	[D] PUMP HEIGHT
36 IN [91.4 CM]	66.5 IN [168.9 CM]
48 IN [121.9 CM]	78.5 IN [199.4 CM]
60 IN [152.4 CM]	90.5 IN [229.9 CM]
72 IN [182.9 CM]	102.5 IN [260.4 CM]
78.7 IN [200.0 CM]	109.2 IN [277.4 CM]

NOTE: USE VG126/VG127 TO GLUE PVC PIPES TOGETHER

WATER INLET ASSEMBLY

NOTE: USE SEALANT ON THREADS



UNSPECIFIED TOLERANCES 2 PLACE ± .040 3 PLACE ± .030 4 PLACE ± .010 HOLE DIA. ± .010 ANGULAR ± 1°	DIMENSIONS ARE IN INCHES DIMENSIONS IN ( ) ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED. DO NOT SCALE	VALCO INDUSTRIES, INC. PO BOX 8 NEW HOLLAND, PA 17557
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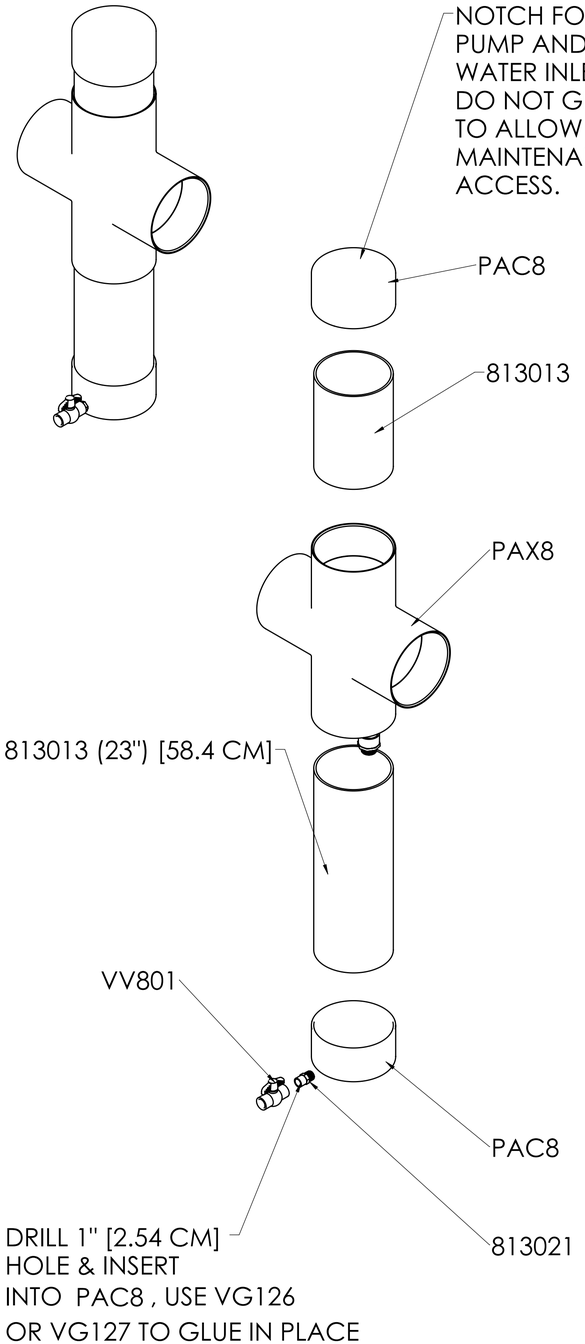
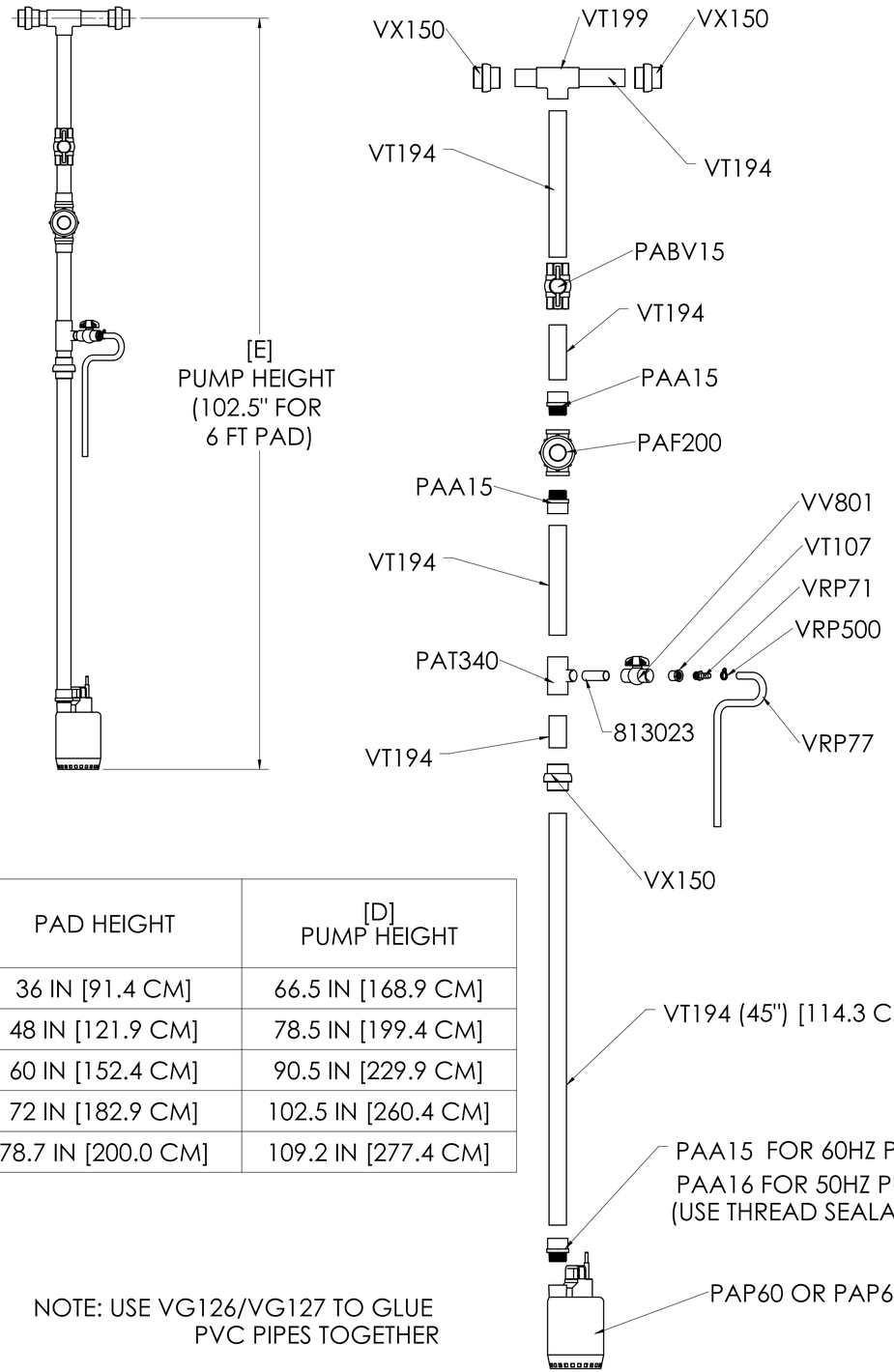
SUMP ASSEMBLY (CENTER FED)

NOTE: USE VG126/VG127 TO GLUE PVC PIPES TOGETHER



PUMP ASSEMBLY (CENTER FED)

FOR 6 FT PAD SHOWN BELOW

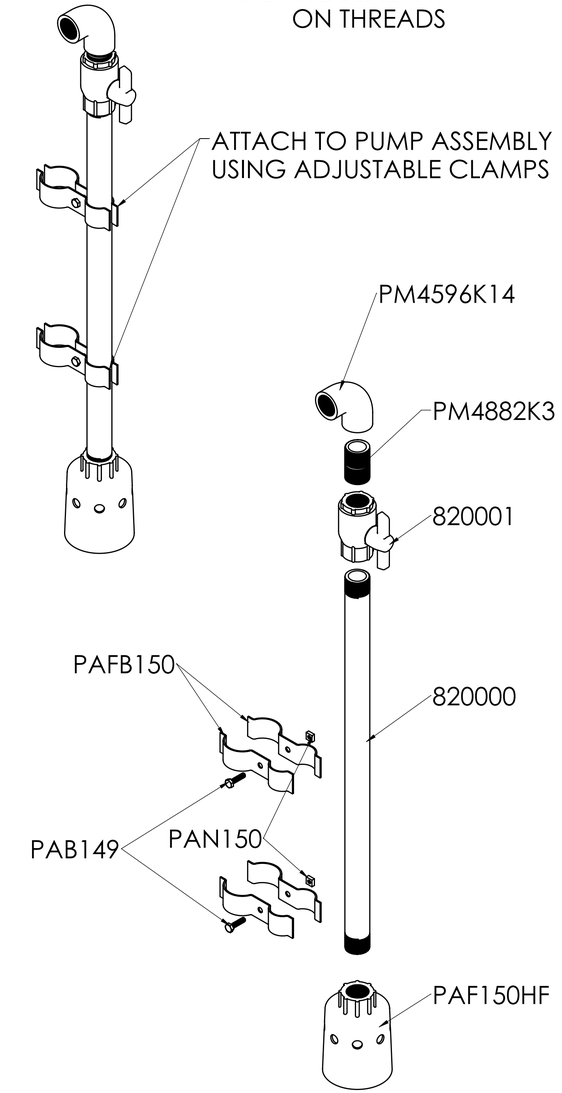


PAD HEIGHT	[D] PUMP HEIGHT
36 IN [91.4 CM]	66.5 IN [168.9 CM]
48 IN [121.9 CM]	78.5 IN [199.4 CM]
60 IN [152.4 CM]	90.5 IN [229.9 CM]
72 IN [182.9 CM]	102.5 IN [260.4 CM]
78.7 IN [200.0 CM]	109.2 IN [277.4 CM]

NOTE: USE VG126/VG127 TO GLUE PVC PIPES TOGETHER

WATER INLET ASSEMBLY

NOTE: USE SEALANT ON THREADS



UNSPECIFIED TOLERANCES: 2 PLACE ± .060, 3 PLACE ± .030, 4 PLACE ± .010, HOLE DIA ± .010, ANGULAR ± 1°	DIMENSIONS ARE IN INCHES. DIMENSIONS IN ( ) ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED. DO NOT SCALE	VALCO INDUSTRIES, INC. PO BOX 8 NEW HOLLAND, PA 17557
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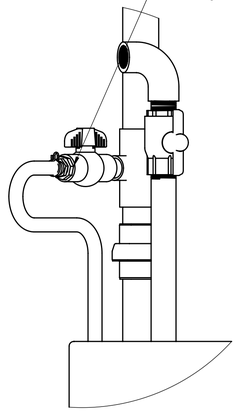
	DRAWN AP	DESCRIPTION 2: RECIRCULATION PAD SYSTEM
	CHECK "	
	WEIGHT N/A	SHEET 8 OF 20 — 990131 — REV. D
	SCALE 1:8	

HEADER KIT ASSEMBLY (END FED & CENTER FED)

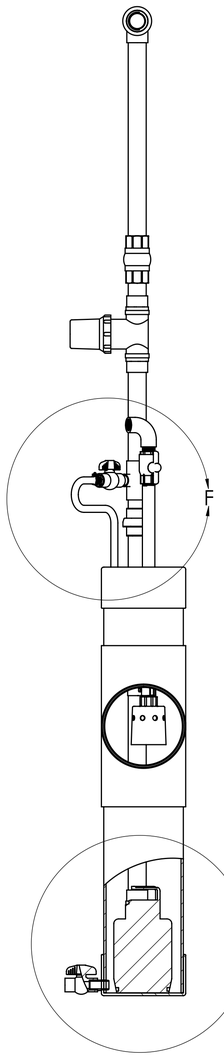
CREATE BYPASS SYSTEM BY RUNNING YELLOW HOSE BACK INTO SUMP ASSEMBLY.
OPEN VALVE IF PUMP IS PROVIDING TOO MUCH WATER.

BY PULLING YELLOW HOSE OUT AND SHUTTING OFF TOP VALVE (PABV15) AND WATER INLET, THE SYSTEM CAN BE DRAINED OF WATER WHILE PUMP IS RUNNING.

(NOTE: BOTTOM VALVE CAN ALSO BE USED TO DRAIN SYSTEM WITHOUT THE USE OF PUMP)

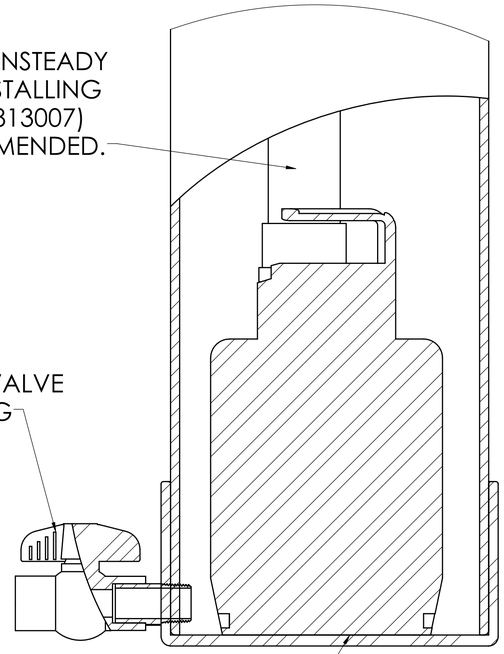


DETAIL F
SCALE 1 : 4



FOR AREAS WITH UNSTEADY WATER SUPPLY, INSTALLING A FLOAT SWITCH (813007) IS HIGHLY RECOMMENDED.

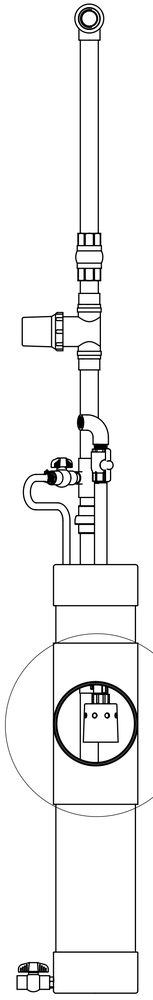
INSTALL DRAIN VALVE FOR WINTERIZING



DETAIL G
SCALE 1 : 2

INSERT PUMP ASSEMBLY INTO SUMP CONTAINER

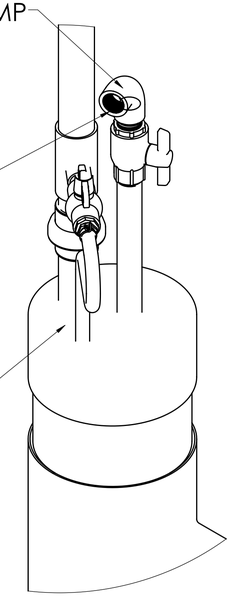
PUMP SHOULD BE SITTING ON THE FLOOR OF THE SUMP (PAC8) TO COLLECT ALL AVAILABLE WATER

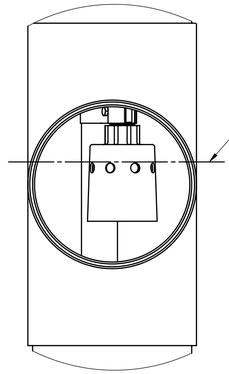


ATTACH WATER INLET ASSEMBLY TO PUMP ASSEMBLY BEFORE LOWERING INTO THE SUMP

ATTACH TO WATER SUPPLY

CUT NOTCH INTO PAC8 TO ACCOMODATE PUMP, WATER INLET & PUMP WIRING





SITUATE FLOAT VALVE ORIFICES BELOW WHERE COOLING PAD SITS ON THE TROUGH

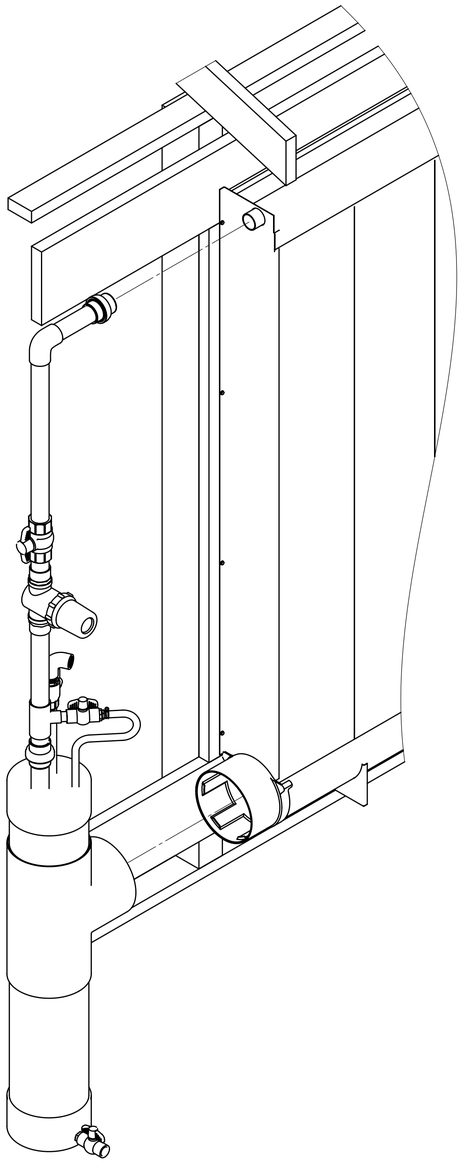
THIS WILL PREVENT WATER RESERVE FROM WATERLOGGING THE COOL PADS

DETAIL H
SCALE 1 : 4

UNSPECIFIED TOLERANCES 2 PLACE ± .060 3 PLACE ± .030 4 PLACE ± .010 HOLE DIA. ± .010 ANGULAR ± 1°	DIMENSIONS ARE IN INCHES DIMENSIONS IN ( ) ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED. DO NOT SCALE	VALCO INDUSTRIES, INC. PO BOX 8 NEW HOLLAND, PA 17557	
	DATE 7/27/2018 DRAWN AP CHECK _ WEIGHT N/A SCALE 1:8	DESCRIPTION 1 INSTALLATION INSTR FOR EZ-COOL DESCRIPTION 2 RECIRCULATION PAD SYSTEM SHEET 9 OF 20 990131 REV. D	

END FED HEADER KIT INSTALLATION

PROCESS IDENTICAL FOR
(FLUSH MOUNT / EXTENDED MOUNT)

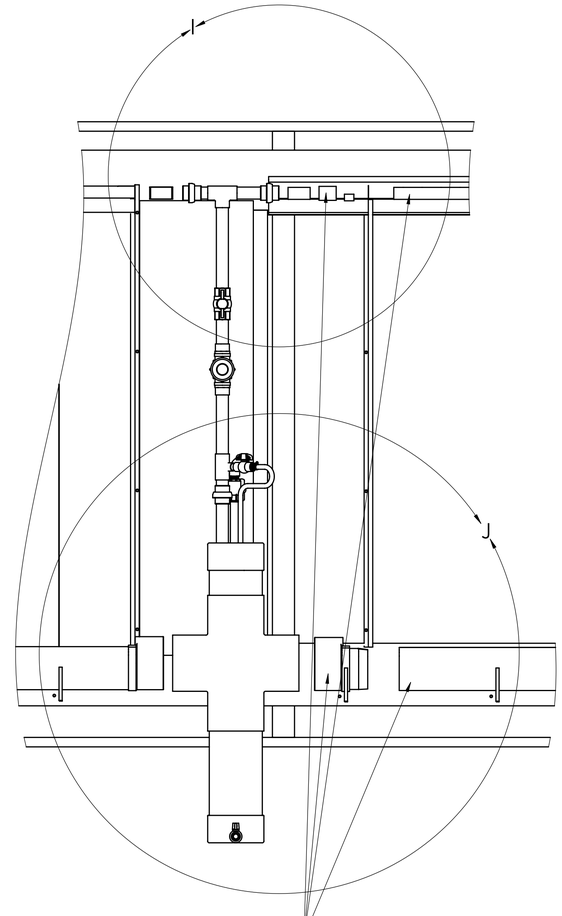


ONCE SIDE COVERS (PAC800/PAC80010/813026)
ARE INSTALLED, SLIDE END FED HEADER KIT
OVER TROUGH END ADAPTER (PAP865)
AND INTO DRILLED PIPE (PAP150DS)

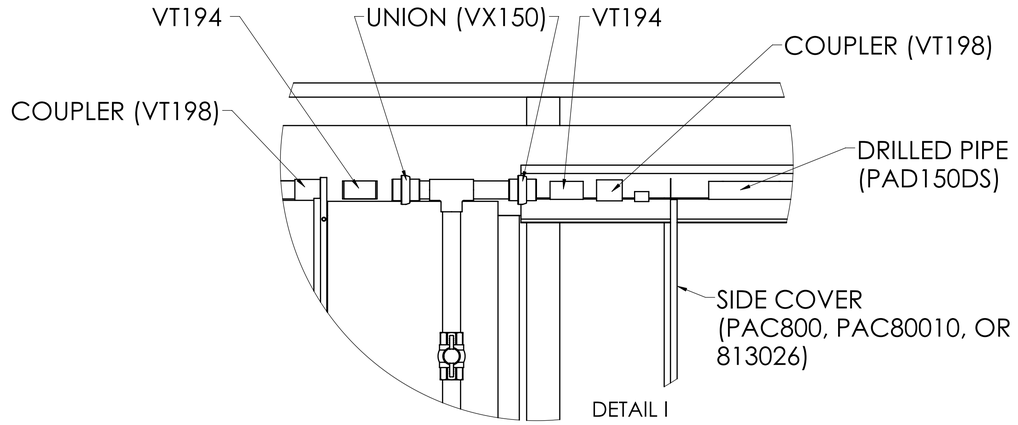
CENTER FED HEADER KIT INSTALLATION

PROCESS IDENTICAL FOR
(FLUSH MOUNT / EXTENDED MOUNT)

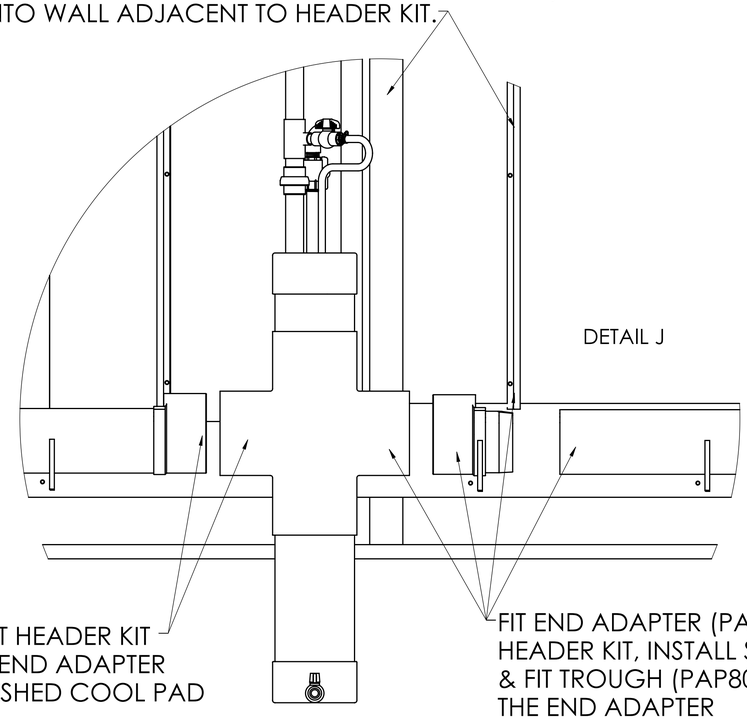
NOTE: WHEN INSTALLING A CENTER FED SYSTEM, FINISH ASSEMBLING ONE SIDE OF THE COOLING PAD ARRAY AND LEAVE THE OTHER SIDE EQUIPPED WITH BRACKETS. TROUGHS AND DRILLED PIPES ONLY. (AS ILLUSTRATED IN PAGE 2 & 3)



SLIDE TROUGH, DRILLED PIPE
AND COUPLERS AWAY FROM
FINISHED COOL PAD ARRAY
TO MAKE ROOM FOR
CENTER FED HEADER KIT



MOUNT SIDE COVER (PAC800/PAC80010/813026)
ONTO WALL ADJACENT TO HEADER KIT.



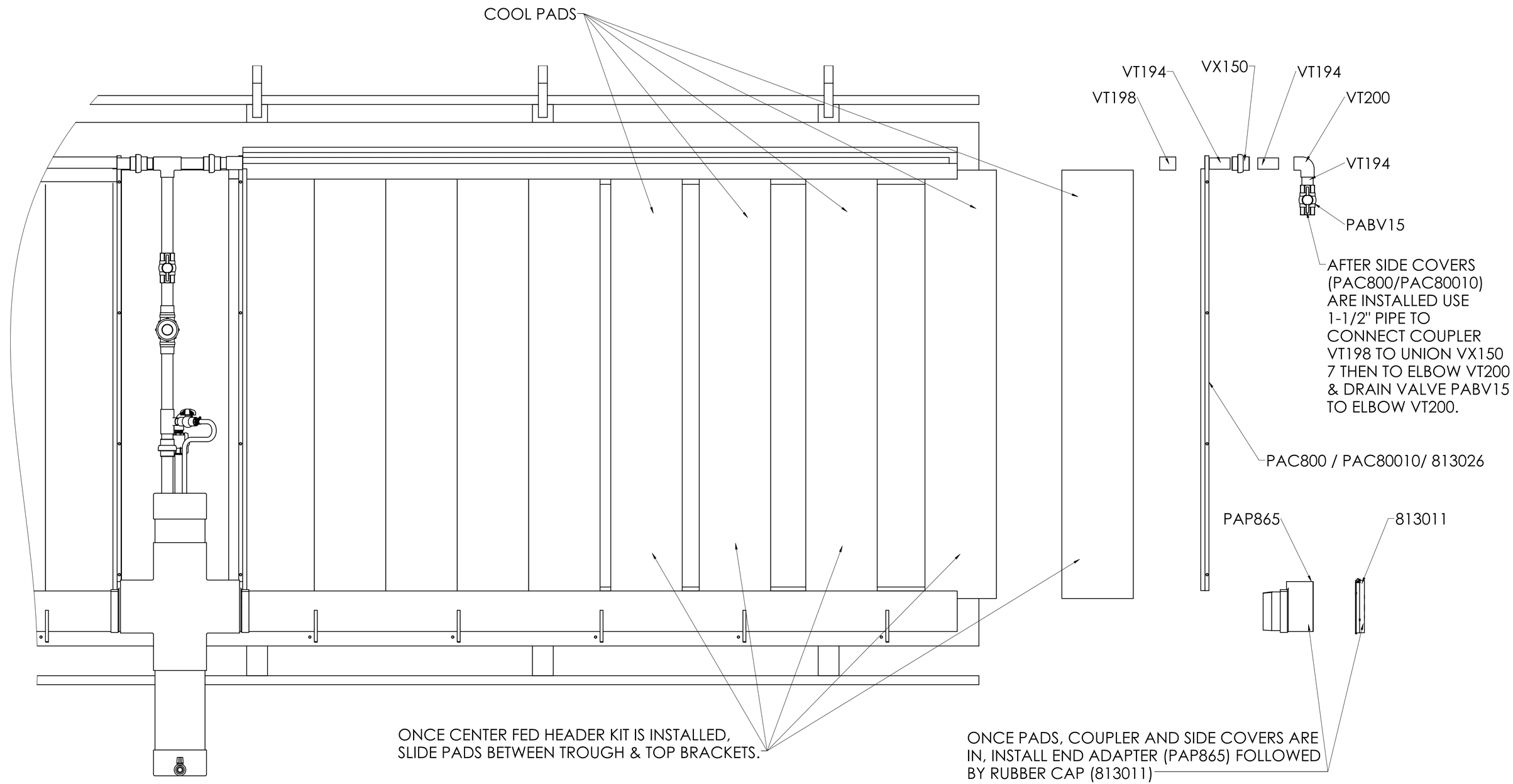
MOUNT HEADER KIT
ONTO END ADAPTER
OF FINISHED COOL PAD

FIT END ADAPTER (PAP865) INTO
HEADER KIT, INSTALL SIDE COVER
& FIT TROUGH (PAP800WT)OVER
THE END ADAPTER

NOTE: USE THICK GLUE (VG126 OR VG127)
WHEN JOINING PVC PIPES

UNSPECIFIED TOLERANCES 2 PLACE ± .060 3 PLACE ± .030 4 PLACE ± .010 HOLE DIA. ± .010 ANGULAR ± 1°	DIMENSIONS ARE IN INCHES DIMENSIONS IN ( ) ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED. DO NOT SCALE	VALCO INDUSTRIES, INC.	
This drawing and any print thereof is the property of VALCO COMPANIES INC. and is subject to return on request by this company. The information shown is confidential and the recipient by accepting this drawing agrees not to use or disclose the information thereon in any manner which will be detrimental to VALCO COMPANIES INC.	DATE 7/27/2018 DRAWN AP CHECK – WEIGHT N/A SCALE 1:8	PO BOX 8 NEW HOLLAND, PA 17557 DESCRIPTION 1 INSTALLATION INSTR FOR EZ-COOL DESCRIPTION 2 RECIRCULATION PAD SYSTEM SHEET 10 OF 20	990131 REV. D

CENTER FED PAD & SIDE COVER INSTALLATION (FLUSH MOUNT / EXTENDED MOUNT)



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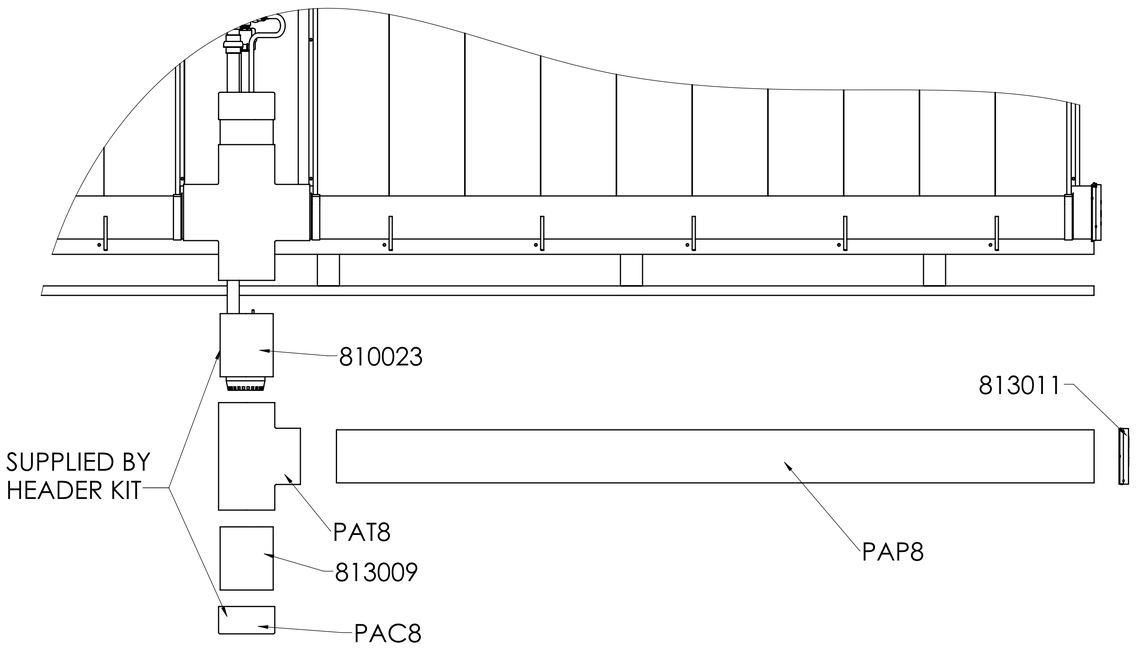
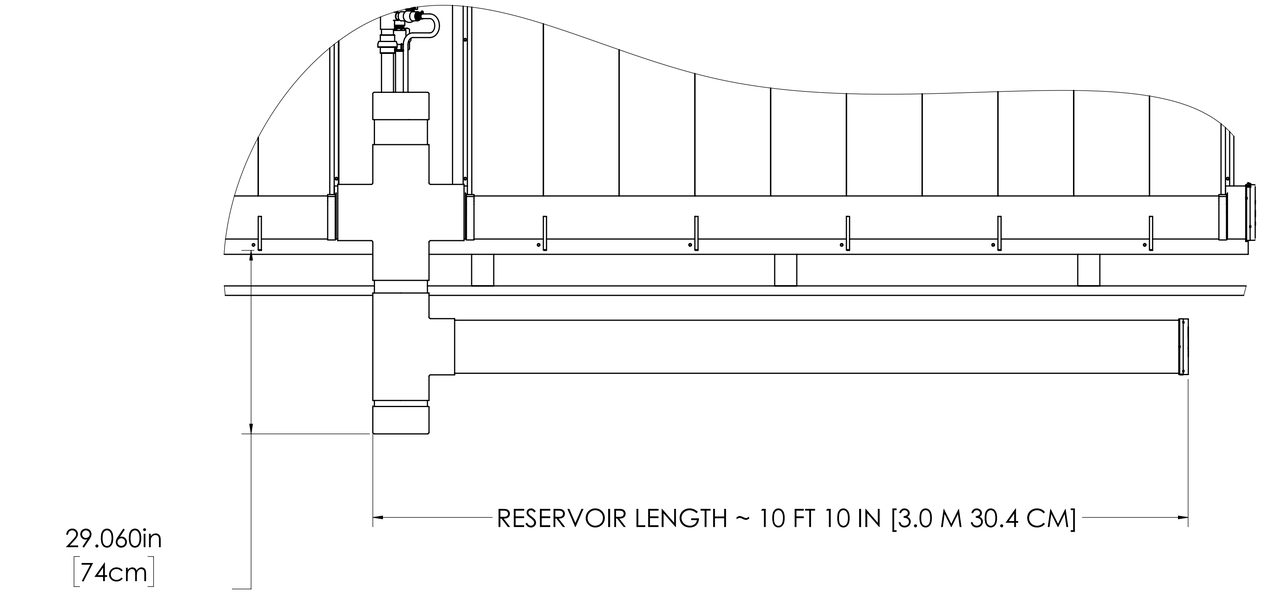
	DATE 7/27/2018 DRAWN AP CHECK - WEIGHT N/A SCALE 1:8	DESCRIPTION 1 INSTALLATION INSTR FOR EZ-COOL DESCRIPTION 2 RECIRCULATION PAD SYSTEM SHEET 11 OF 20 990131 REV. D

OPTIONAL ADD-ON KIT (PAHT) OPTION 1

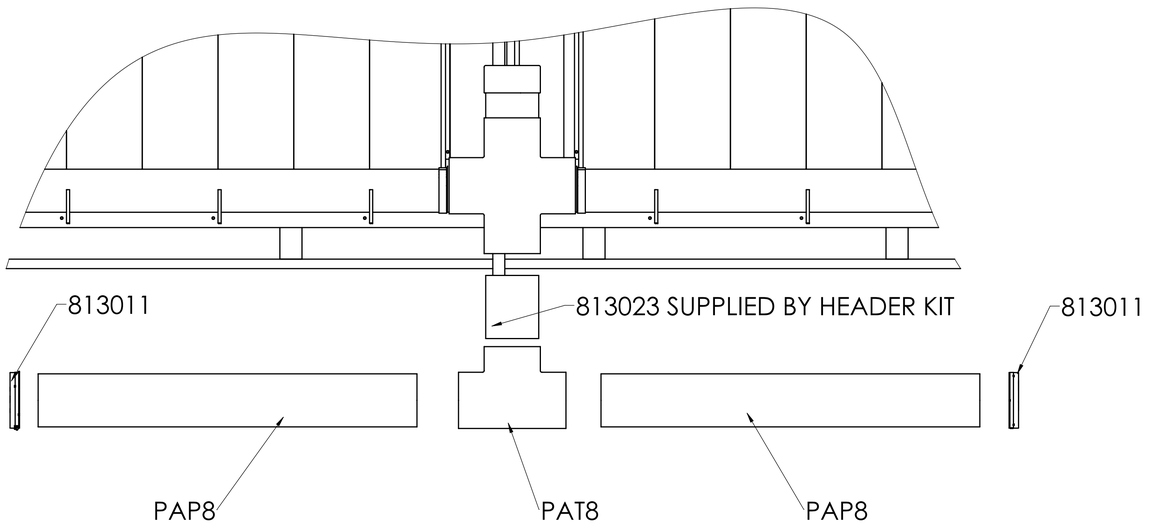
IDENTICAL FOR END/CENTER FED & FLUSH/EXTENDED MOUNT

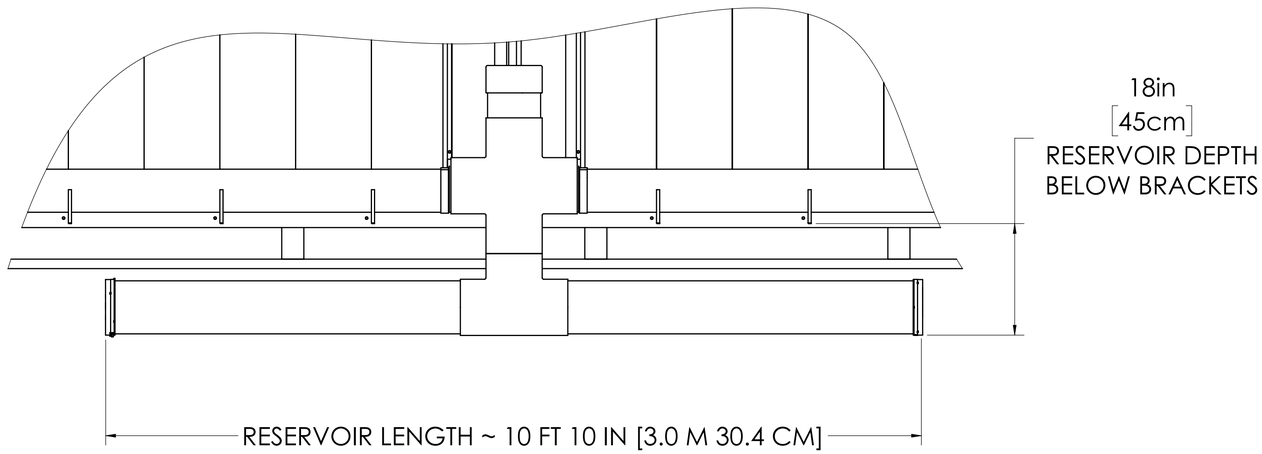




OPTIONAL ADD-ON KIT (PAHT) OPTION 2

IDENTICAL FOR END/CENTER FED & FLUSH/EXTENDED MOUNT





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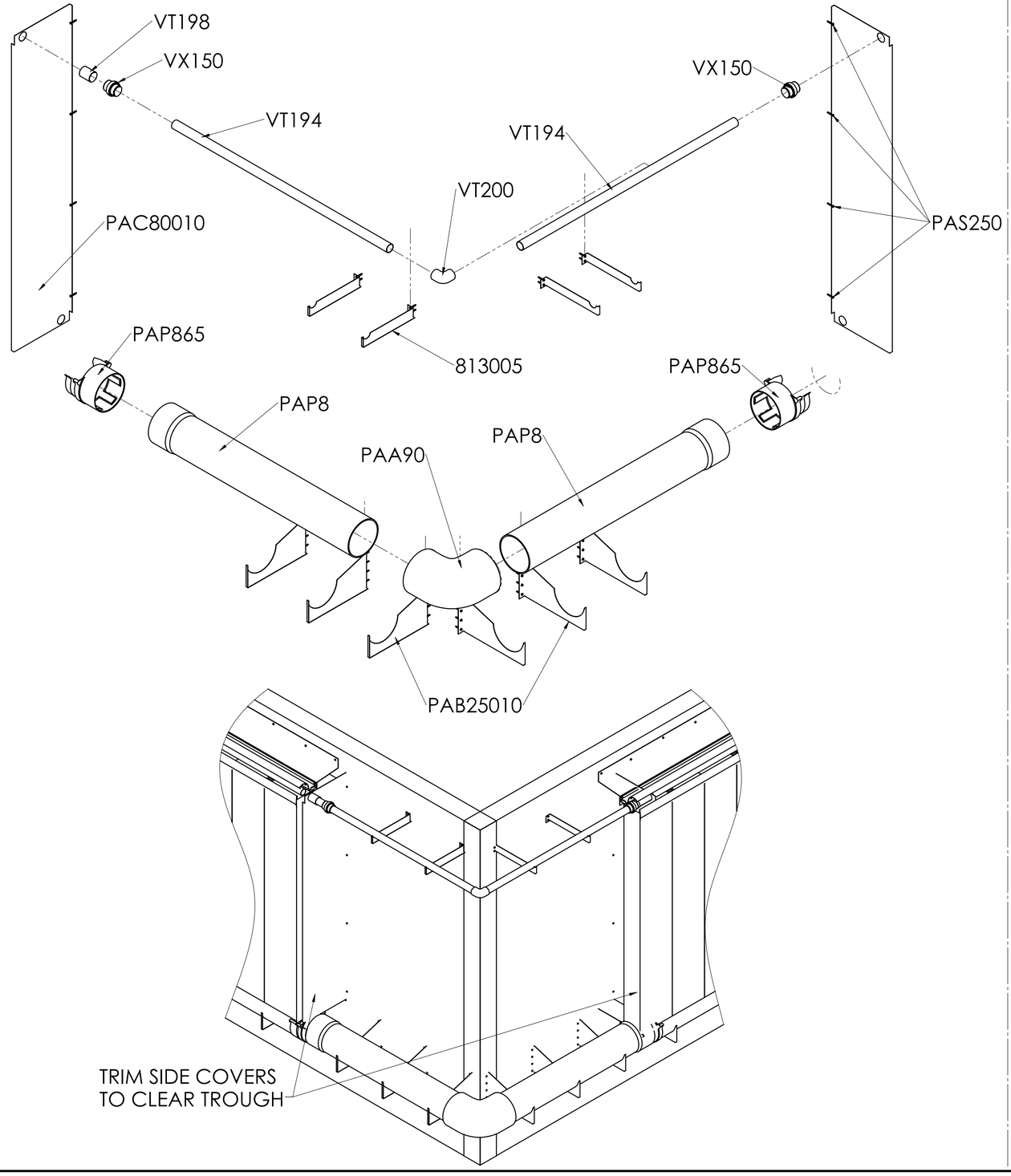
	DATE 7/27/2018 DRAWN AP CHECK _ WEIGHT N/A SCALE 1:8	DESCRIPTION 1 DESCRIPTION 2	INSTALLATION INSTR FOR EZ-COOL RECIRCULATION PAD SYSTEM
		SHEET 12 OF 20	990131 REV. D

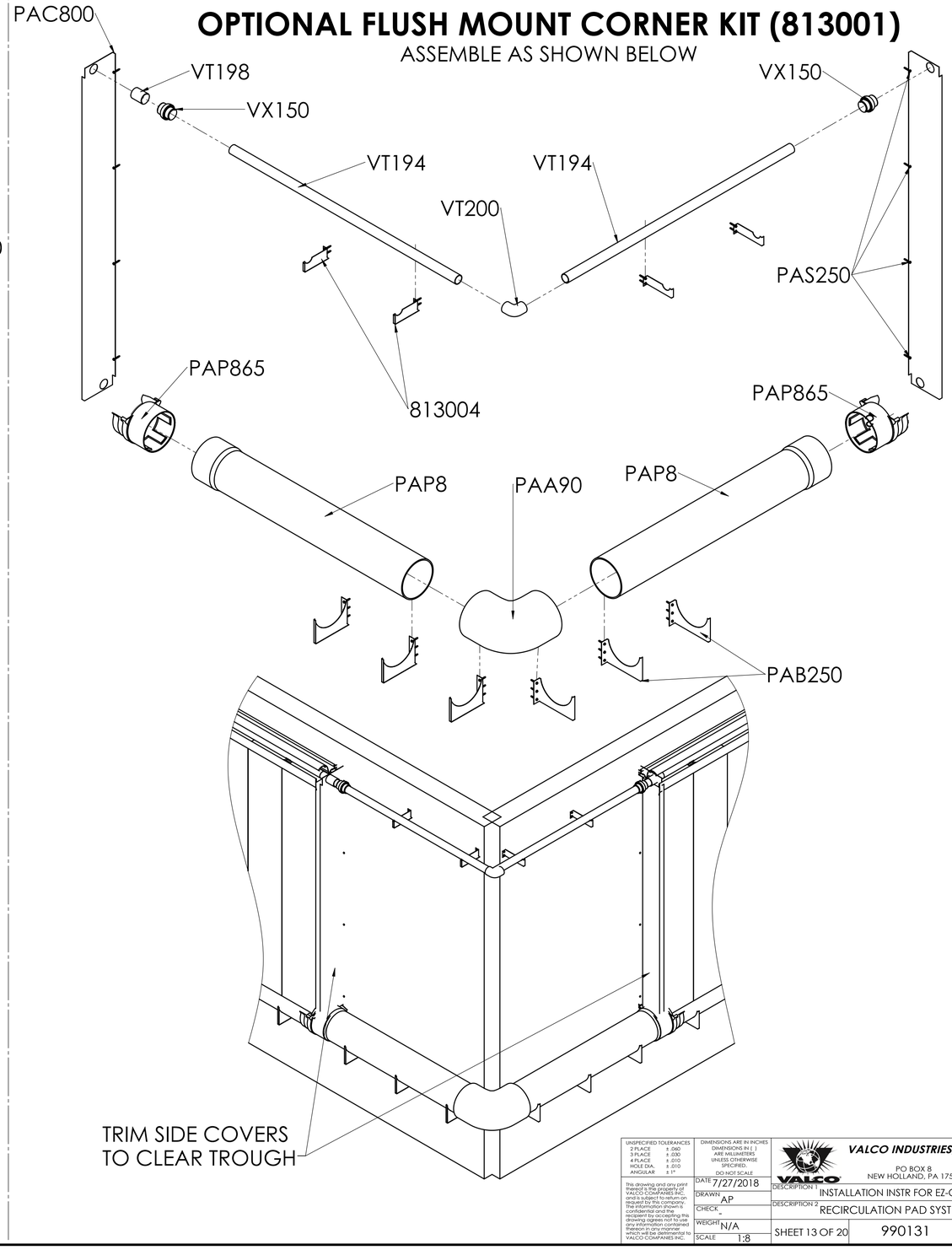
OPTIONAL EXTENDED MOUNT CORNER KIT (813002)

ASSEMBLE AS SHOWN BELOW



OPTIONAL FLUSH MOUNT CORNER KIT (813001)

ASSEMBLE AS SHOWN BELOW



UNSPECIFIED TOLERANCES 2 PLACE ± .060 3 PLACE ± .030 4 PLACE ± .010 HOLE DIA. ± .010 ANGULAR ± 1°	DIMENSIONS ARE IN INCHES DIMENSIONS IN ( ) ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED. DO NOT SCALE	VALCO	VALCO INDUSTRIES, INC. PO BOX 8 NEW HOLLAND, PA 17557
	DATE 7/27/2018 DRAWN AP CHECK - WEIGHT N/A SCALE 1:8	DESCRIPTION 1 DESCRIPTION 2	INSTALLATION INSTR FOR EZ-COOL RECIRCULATION PAD SYSTEM
		SHEET 13 OF 20	990131 REV. D

SYSTEM OPERATION & MAINTENANCE

INITIAL STARTUP:
(NEW PADS NEED MORE TIME TO SATURATE DUE TO SLEEK SURFACES)

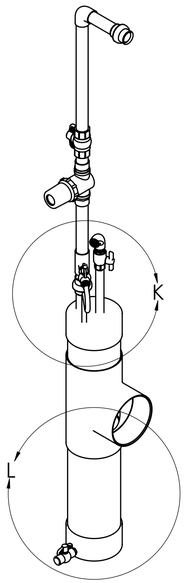
1. TURN ON WATER SUPPLY UNTIL STOPPED BY FLOAT VALVE.
2. TURN ON PUMP TO RUN WATER OVER THE TOP OF COOL PADS.
3. LEAVE SYSTEM RUNNING FOR 48 HRS TO BREAK IN NEW PADS.

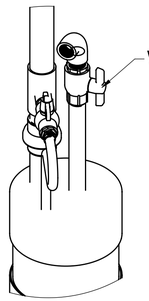
IF AFTER THE 48 HR PERIOD DRY STREAKS ARE FOUND ON PAD SURFACE, MAKE SURE WATER IS EVENLY DISTRIBUTED THROUGH DRILLED HEADER PIPE BY UNCLOGGING DRILLED HOLES WITH A 1/8" DRILL BIT.

NOTE: IF THE WATER LEVEL IN THE RESERVOIR IS TOO HIGH, THE BOTTOM OF THE PAD WILL BE WATERLOGGED AND WILL BREAK DOWN PREMATURELY. (SEE SHEET 9 FOR ADJUSTING WATER LEVEL)

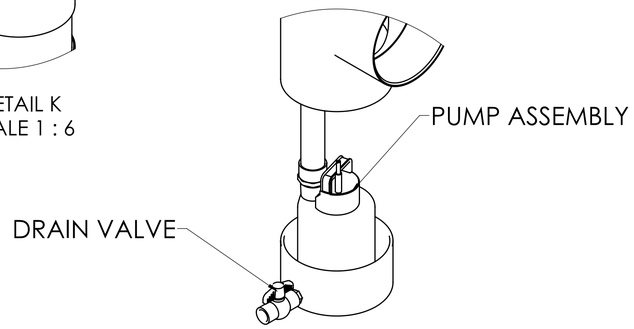
WATER BLEED-OFF:
TO LIMIT ACCUMULATION OF MINERAL BUILD UP IN THE SYSTEM AS WATER IS BEING RECIRCULATED, IT IS IMPORTANT TO REPLACE THE WATER IN THE RESERVOIR AT REGULAR INTERVALS.

OPTION 1: REPLACE ALL THE WATER IN THE SYSTEM ONCE A WEEK (SEE SHEET 15 - WINTERIZING FOR DETAILS)
OPTION 2: DRAIN WATER DURING NORMAL OPERATIONS AT .25 GPM/100 SQUARE FOOTAGE OF COOLPAD DEPENDING ON THE AMOUNT OF BUILD UP. PULL OUT BYPASS HOSE AND TURN THE BYPASS VALVE SLIGHTLY OR OPEN THE VALUE AT THE END OF THE SYSTEM SLIGHTLY.





DETAIL K
SCALE 1 : 6



DETAIL L
SCALE 1 : 6

NORMAL OPERATION:

1. FOLLOW INITIAL STARTUP PROCEDURE.

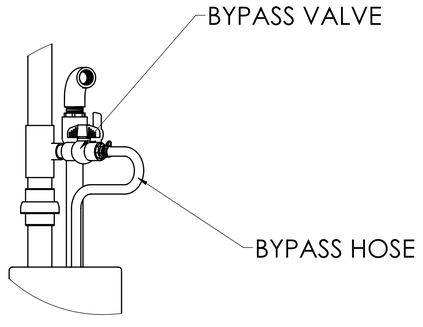
2. TO CONTROL THE VOLUME OF WATER BEING PUMPED OVER THE COOL PADS, PLACE BYPASS HOSE INTO HEADER TANK AND ADJUST THE BYPASS VALVE.

   *IF WATER IS SPRAYING INTO BUILDING, EITHER ADJUST BYPASS VALVE OR ROTATE DRILLED HEADER PIPE (PAP150DS) SLIGHTLY INTO AIRFLOW.

3. ALLOW THE PADS TO DRY OUT COMPLETELY ONCE EVERY 24 HRS TO ENTEND THEIR LIFE.

4. MAINTAIN WATER PH LEVEL BETWEEN 6 AND 8.

5. EVAPORATION RATE = (AREA OF PAD IN SQ. FT. * AVG. AIR SPEED THROUGH THE PAD IN FT/MIN * AVG. TEMP. DROP ACROSS THE PAD IN °F) / 500,000



DIMENSIONS ARE IN INCHES
DIMENSIONS IN ( ) ARE MILLIMETERS
UNLESS OTHERWISE SPECIFIED.
DO NOT SCALE

DATE 7/27/2018
DRAWN AP
CHECK _
WEIGHT N/A
SCALE 1:8

VALCO INDUSTRIES, INC.
PO BOX 8
NEW HOLLAND, PA 17557

DESCRIPTION 1 INSTALLATION INSTR FOR EZ-COOL
DESCRIPTION 2 RECIRCULATION PAD SYSTEM

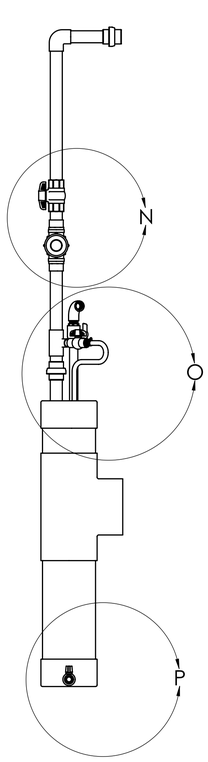
990131
REV. D

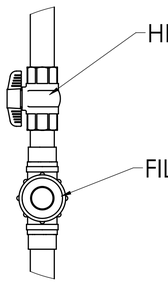
SYSTEM OPERATION & MAINTENANCE (CONT.)

WINTERIZING:
(PREPARING COOL PAD SYSTEM FOR WINTER)

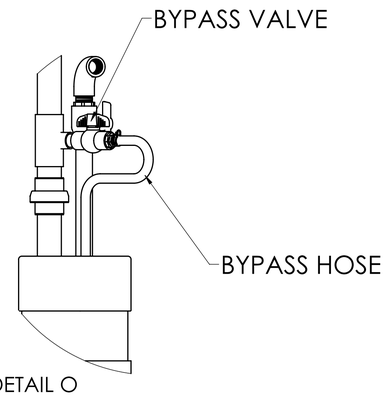
FOR BURIED PUMPS:
1. SHUT OFF PUMP AND WATER SUPPLY. LET WATER DRAIN INTO TROUGH AND SUMP.
2. OPEN END-MOUNTED BALL VALVES TO DRAIN LEFTOVER WATER IN HEADER PIPE.
3. CLOSE BALL VALVE ABOVE WATER FILTER, OPEN BYPASS VALVE, PULL BYPASS HOSE OUT OF SUMP AND TURN ON PUMP. (THIS WILL PUMP ALL THE WATER OUT OF THE SYSTEM)
4. LEAVE ALL FITTINGS OPEN TO PREVENT THEM FROM BURSTING IN FREEZING TEMPERATURES.
5. STORE PUMP IN AREA THAT WILL NOT FREEZE.

FOR ABOVE-GROUND PUMPS:
1. SHUT OFF PUMP AND LET WATER DRAIN INTO TROUGH AND SUMP.
2. OPEN END-MOUNTED BALL VALVES TO DRAIN LEFTOVER WATER IN HEADER PIPE.
3. OPEN BOTTTOM DRAIN VALVE TO DRAIN ALL WATER FROM SYSTEM.
4. LEAVE ALL FITTINGS OPEN TO PREVENT THEM FROM BURSTING IN COLD WEATHER.
5. STORE PUMP IN AREA THAT WILL NOT FREEZE.

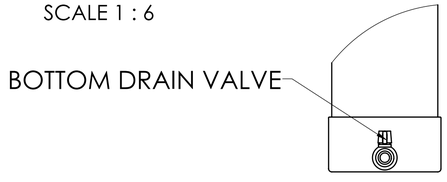




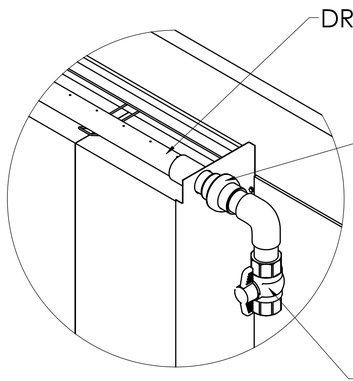
DETAIL N
SCALE 1 : 6

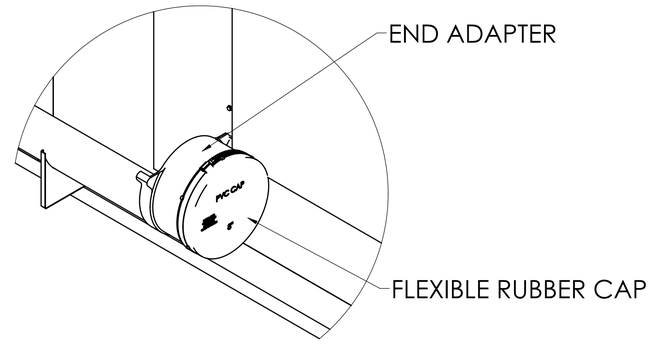


DETAIL O
SCALE 1 : 6



DETAIL P
SCALE 1 : 6





CLEANING THE SYSTEM:

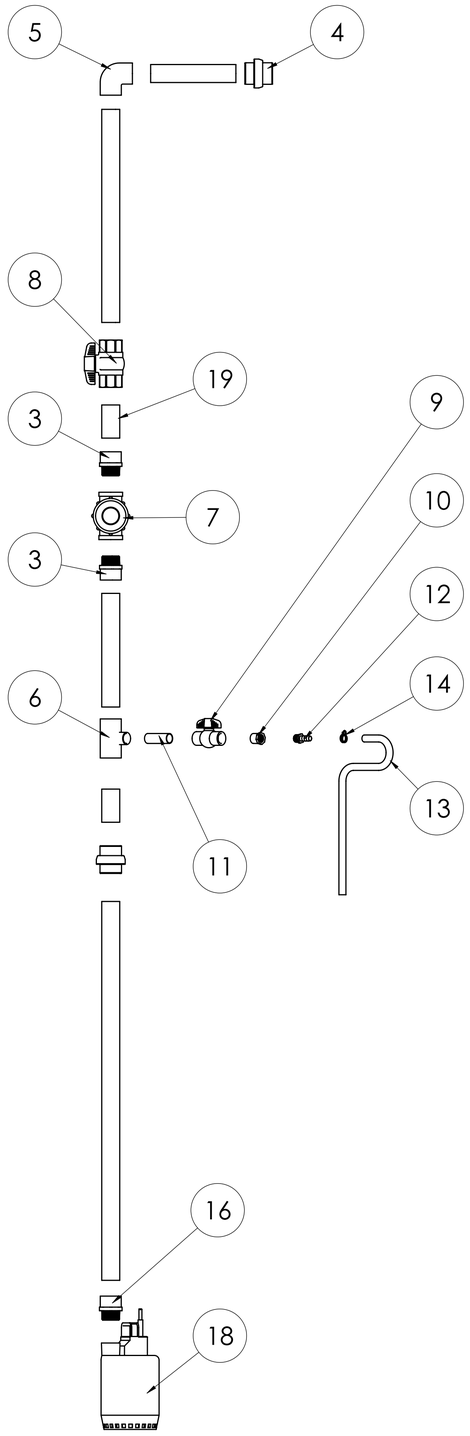
1. DRAIN THE ENTIRE SYSTEM (FOLLOW WINTERIZING PROCESS)
2. OPEN FILTER COVER AND CLEAN/REPLACE FILTER.
3. GENTLY HOSE AND BRUSH ALGAE AND DEPOSITED MINERALS OFF PAD. (IF EXCESSIVE ALGAE, CONSIDER WATER TREATMENT OPTIONS)
4. REMOVE UNION MOUNTED TO DRILLED HEADER PIPES. CLEAN INSIDE OF HEADER PIPE USING A LONG BRUSH AND RINSE WITH HOSE. MOUNT UNION BACK ONTO DRILLED HEADER PIPES.
5. REMOVE FLEXIBLE RUBBER CAPS INSTALLED ON THE END ADAPTERS. CLEAN TROUGH USING A LONG BRUSH AND RINSE OUT WITH HOSE. REINSTALL FLEXIBLE RUBBER CAPS AND RESUME NORMAL OPERATION.

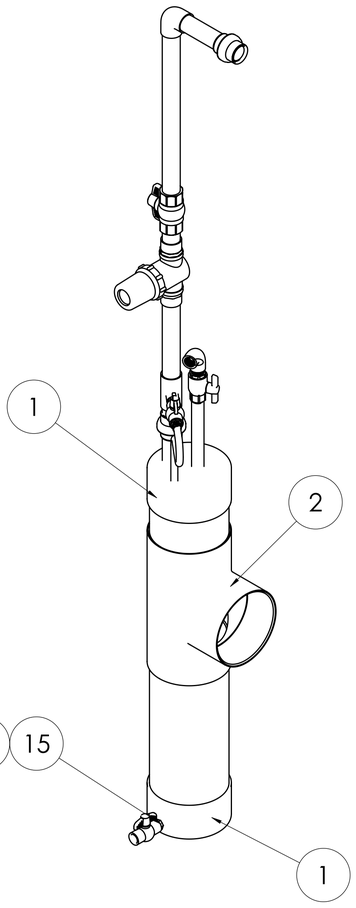
UNSPECIFIED TOLERANCES 2 PLACE ± .040 3 PLACE ± .030 4 PLACE ± .010 HOLE DIA. ± .010 ANGULAR ± 1°	DIMENSIONS ARE IN INCHES DIMENSIONS IN ( ) ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED. DO NOT SCALE	VALCO	VALCO INDUSTRIES, INC. PO BOX 8 NEW HOLLAND, PA 17557
	DATE 7/27/2018 DRAWN AP CHECK - WEIGHT N/A SCALE 1:8	DESCRIPTION 1	INSTALLATION INSTR FOR EZ-COOL
		DESCRIPTION 2	RECIRCULATION PAD SYSTEM
		SHEET 15 OF 20	990131 REV. D

BILL OF MATERIALS (END-FED HEADER KIT)			
ITEM #	PART #	QTY	DESCRIPTION
1	PAC8	2	8" PVC CAP
2	PAT8	1	8" PVC TEE
3	PAA15	2	1 1/2" PVC MALE ADAPTER
4	VX150	2	1 1/2" PVC UNION
5	VT200	3	1 1/2" 90 DEGREE PVC ELL
6	PAT340	1	1 1/2" X 1 1/2" X 3/4" SXSXS
7	PAF200	1	LINE FILTER FOR RECIRCULATING 6" PAD SYSTEM
8	PABV15	1	1-1/2" PVC BALL VALVE
9	VV801	2	3/4" BALL VALVE SCHEDULE 80
10	VT107	1	3/4" MALE SLIP X 1/2" FPT PVC
11	813023	1	3/4" PLAIN PVC PIPE (3" LG)
12	VRP71	1	1/2" THREADED MALE HOSE CONNECTOR (1/2" BARB)
13	VRP77	6	1/2" ID YELLOW PVC DROP HOSE
14	VRP500	1	1/2" HOSE CLAMP (USE W/ VRP77)
15	813021	1	3/4" PVC PIPE ADAPTER
16	SEE CHART	1	REDUCING MALE ADAPTER
17	813013	1	PVC PIPE, 8" SDR-35, 39.5" LG
18	SEE CHART	1	SUBMERSIBLE PUMP
19	VT194	1	1 1/2" PLAIN PVC PIPE (10 FT.)

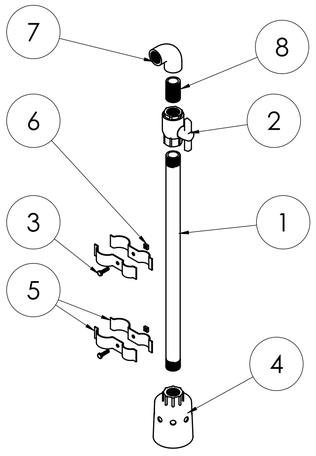
ITEM #	ASSEMBLY PART NUMBER		
	PAHD30	PAHD60	PAHD60-50
16	PAA15	PAA15	PAA16
18	PAP30	PAP60	PAP60-50

REPAIR PARTS: END-FED HEADER KIT





REPAIR PARTS: FLOAT KIT



BILL OF MATERIALS (PAF150K) FLOAT KIT, WATER INLET			
ITEM #	PART #	QTY	DESCRIPTION
1	820000	1	NIPPLE, 1" X 24" LONG MNPT
2	820001	1	BALL VALVE, 1" FNPT
3	PAB149	2	1/4"-20 x 1" SS BOLT
4	PAF150HF	1	FLOAT VALVE, 1" FNPT
5	PAFB150	4	BRACKET FOR FLOAT VALVE
6	PAN150	2	1/4"-20 STAINLESS STEEL NUT
7	PM4596K14	1	SCH 80 PVC 1" 90 THREADED
8	PM4882K3	1	SCH 80 1" NIPPLE X 2" LONG PVC

UNSPECIFIED TOLERANCES
2 PLACE ± .060
3 PLACE ± .030
4 PLACE ± .010
HOLE DIA. ± .010
ANGULAR ± 1°

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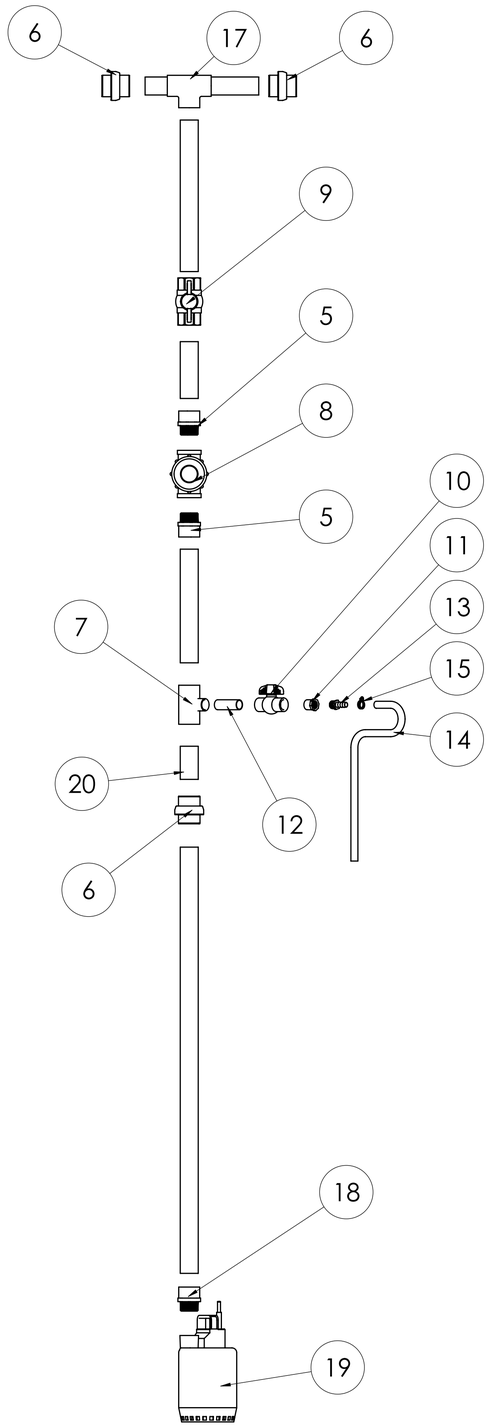
DESCRIPTION 1 INSTALLATION INSTR FOR EZ-COOL
DESCRIPTION 2 RECIRCULATION PAD SYSTEM

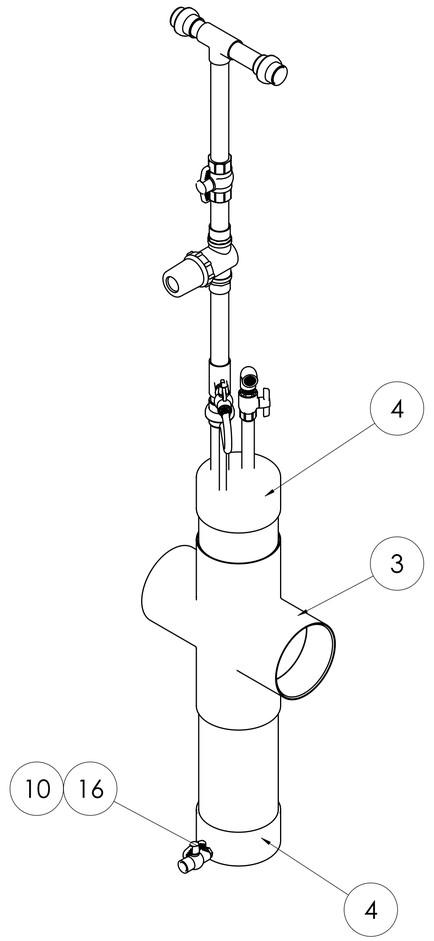
SHEET 16 OF 20 | 990131 | REV. D

BILL OF MATERIALS (CENTER-FED HEADER KIT)			
ITEM #	PART #	QTY	DESCRIPTION
1	813013	1	PVC PIPE, 8" SDR-35, 39.5" LG
2	813014	1	CARTON, CENTER FED HEADER KIT
3	PAX8	1	8" PVC CROSS, SDR 35
4	PAC8	2	8" PVC CAP
5	PAA15	2	1 1/2" PVC MALE ADAPTER
6	VX150	3	1 1/2" PVC UNION
7	PAT340	1	1 1/2" X 1 1/2" X 3/4" SXSXS
8	PAF200	1	LINE FILTER FOR RECIRCULATING 6" PAD SYSTEM
9	PABV15	1	1-1/2" PVC BALL VALVE
10	VV801	2	3/4" BALL VALVE SCHEDULE 80
11	VT107	1	3/4" MALE SLIP X 1/2" FPT PVC
12	813023	1	3/4" PLAIN PVC PIPE (3" LG)
13	VRP71	1	1/2" THREADED MALE HOSE CONNECTOR (1/2" BARB)
14	VRP77	6	1/2" ID YELLOW PVC DROP HOSE
15	VRP500	1	1/2" HOSE CLAMP (USE W/ VRP77)
16	813021	1	3/4" PVC PIPE ADAPTER
17	VT199	1	1 1/2" PVC TEE
18	SEE CHART	1	REDUCING MALE ADAPTER
19	SEE CHART	1	SUBMERSIBLE PUMP
20	VT194	1	1 1/2" PLAIN PVC PIPE (10 FT.)

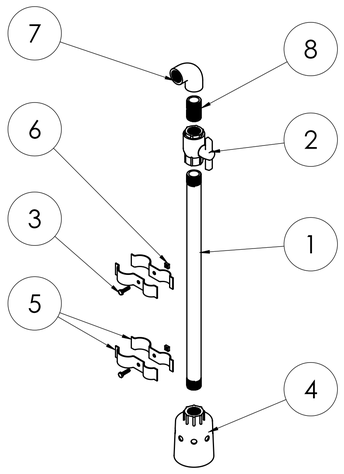
ITEM #	ASSEMBLY PART NUMBERS	
	813016	813018
18	PAA15	PAA16
19	PAP60	PAP60-50

REPAIR PARTS: CENTER-FED HEADER KIT





REPAIR PARTS: FLOAT KIT



BILL OF MATERIALS (PAF150K) FLOAT KIT, WATER INLET			
ITEM #	PART #	QTY	DESCRIPTION
1	820000	1	NIPPLE, 1" X 24" LONG MNPT
2	820001	1	BALL VALVE, 1" FNPT
3	PAB149	2	1/4"-20 x 1" SS BOLT
4	PAF150HF	1	FLOAT VALVE, 1" FNPT
5	PAFB150	4	BRACKET FOR FLOAT VALVE
6	PAN150	2	1/4"-20 STAINLESS STEEL NUT
7	PM4596K14	1	SCH 80 PVC 1" 90 THREADED
8	PM4882K3	1	SCH 80 1" NIPPLE X 2" LONG PVC

UNSPECIFIED TOLERANCES
2 PLACE ± .060
3 PLACE ± .030
4 PLACE ± .010
HOLE DIA. ± .010
ANGULAR ± 1°

DIMENSIONS ARE IN INCHES
DIMENSIONS IN ( ) ARE MILLIMETERS
UNLESS OTHERWISE SPECIFIED.
DO NOT SCALE

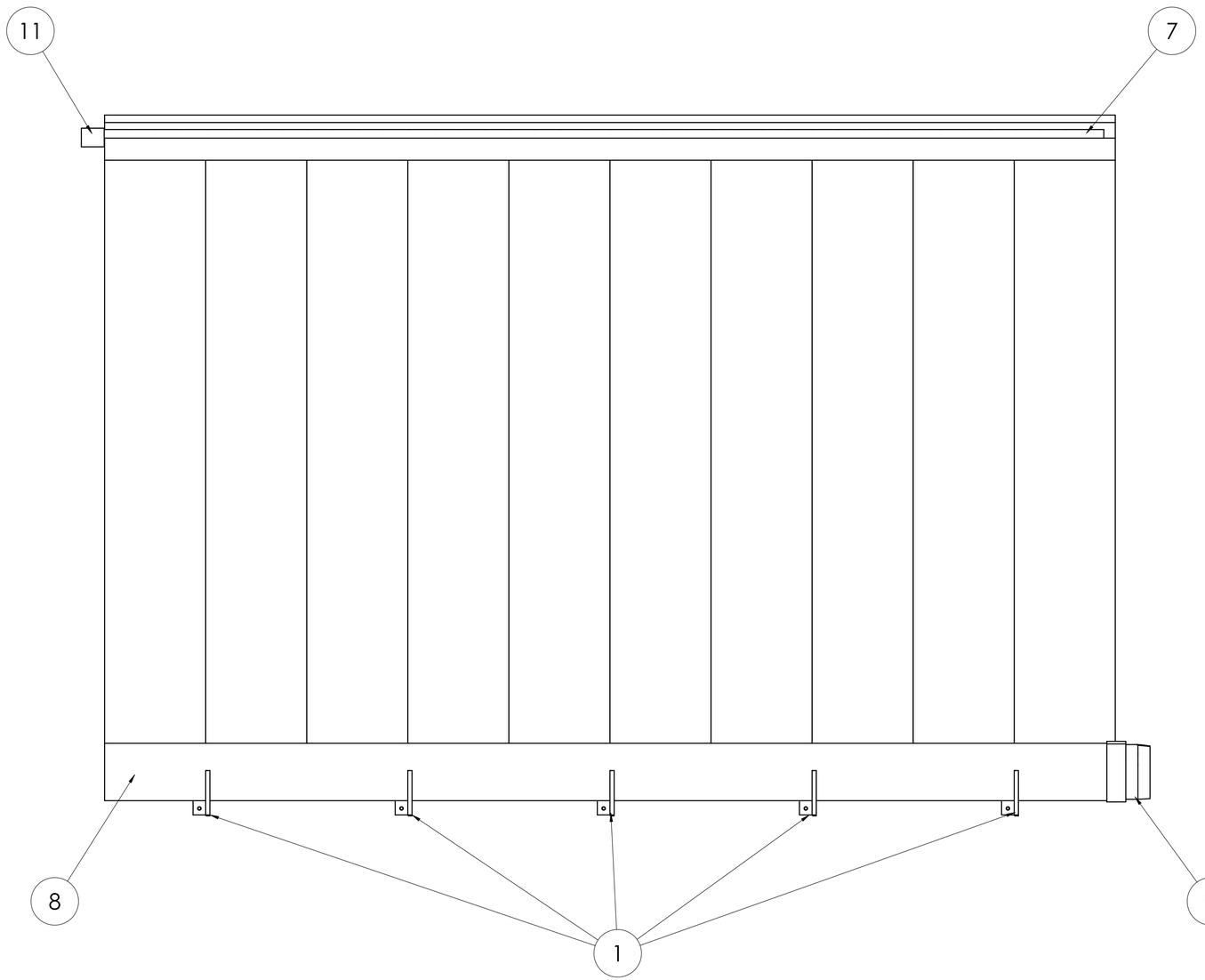
DATE 7/27/2018
DRAWN AP
CHECK -
WEIGHT N/A
SCALE 1:8

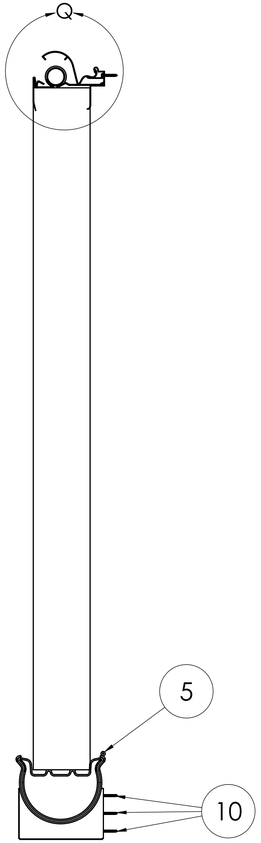
VALCO INDUSTRIES, INC.
PO BOX 8
NEW HOLLAND, PA 17557

DESCRIPTION 1 INSTALLATION INSTR FOR EZ-COOL
DESCRIPTION 2 RECIRCULATION PAD SYSTEM

SHEET 17 OF 20 | 990131 | REV. D

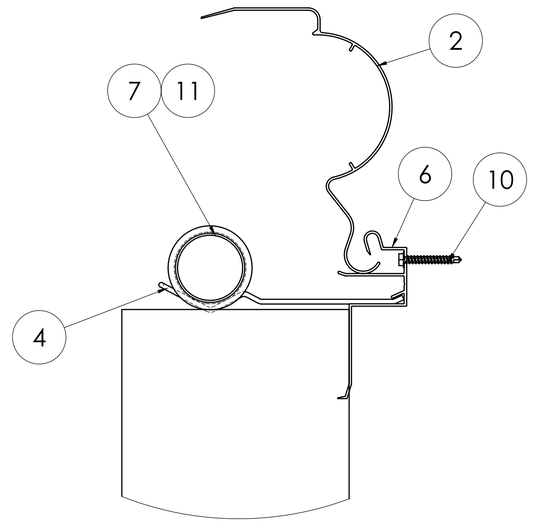
BILL OF MATERIALS (OPEN TOP PAK610EZO / CLOSED TOP PAK610EZ)				
ITEM #	OPEN TOP PT #	CLOSED TOP PT #	QTY	DESCRIPTION
1	PAB250	PAB250	5	PIPE BRACKET FOR 6" RECIRCULATING SYSTEM - 8" PIPE
2	PAC607	813008	1	TOP ALUMINUM PAD COVER
3	PAC608	-	1	OPEN TOP PAD RETAINER 120" LONG
4	PAC609	PAB700	5	TOP PIPE BRACKET 1-1/2" LONG
5	PACROD	PACROD	1	SEAL BETWEEN TROUGH AND WALL (10 FT)
6	PAE500	PAE500	1	ALUM TOP EXTRUSION FOR
7	PAP150DS	PAP150DS	1	1 1/2" PVC(10')W/ 7/64" HOLE
8	PAP800WT	PAP800WT	1	8" PLAIN PVC PIPE 10FT WITH TROUGH
9	PAP860	PAP860	1	COUPLER FOR PAP800WT
10	PAS250	PAS250	20	#12 x 1 1/2" SELF-DRILLING
11	VT198	VT198	1	1 1/2" PVC COUPLER



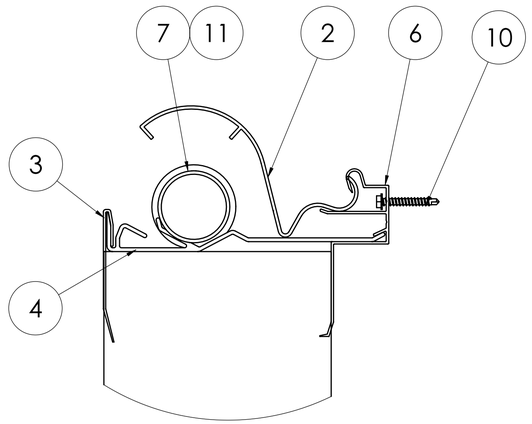


DETAIL Q
SCALE 1 : 2

CLOSED TOP



OPEN TOP



UNSPECIFIED TOLERANCES 2 PLACE ± .060 3 PLACE ± .030 4 PLACE ± .010 HOLE DIA. ± .010 ANGULAR ± 1°	DIMENSIONS ARE IN INCHES DIMENSIONS IN ( ) ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED. DO NOT SCALE	VALCO INDUSTRIES, INC. PO BOX 8 NEW HOLLAND, PA 17557	
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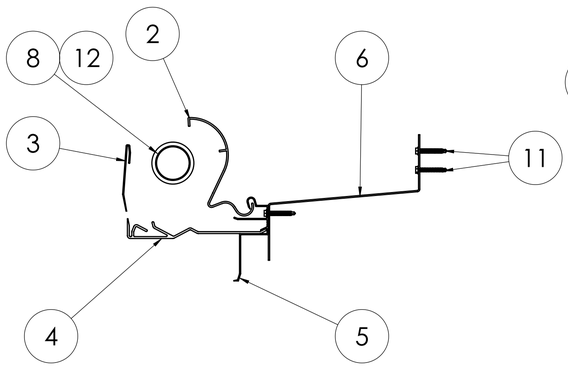
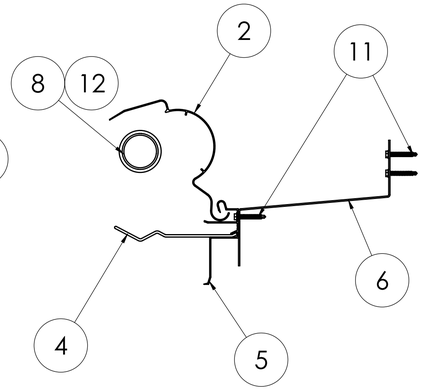
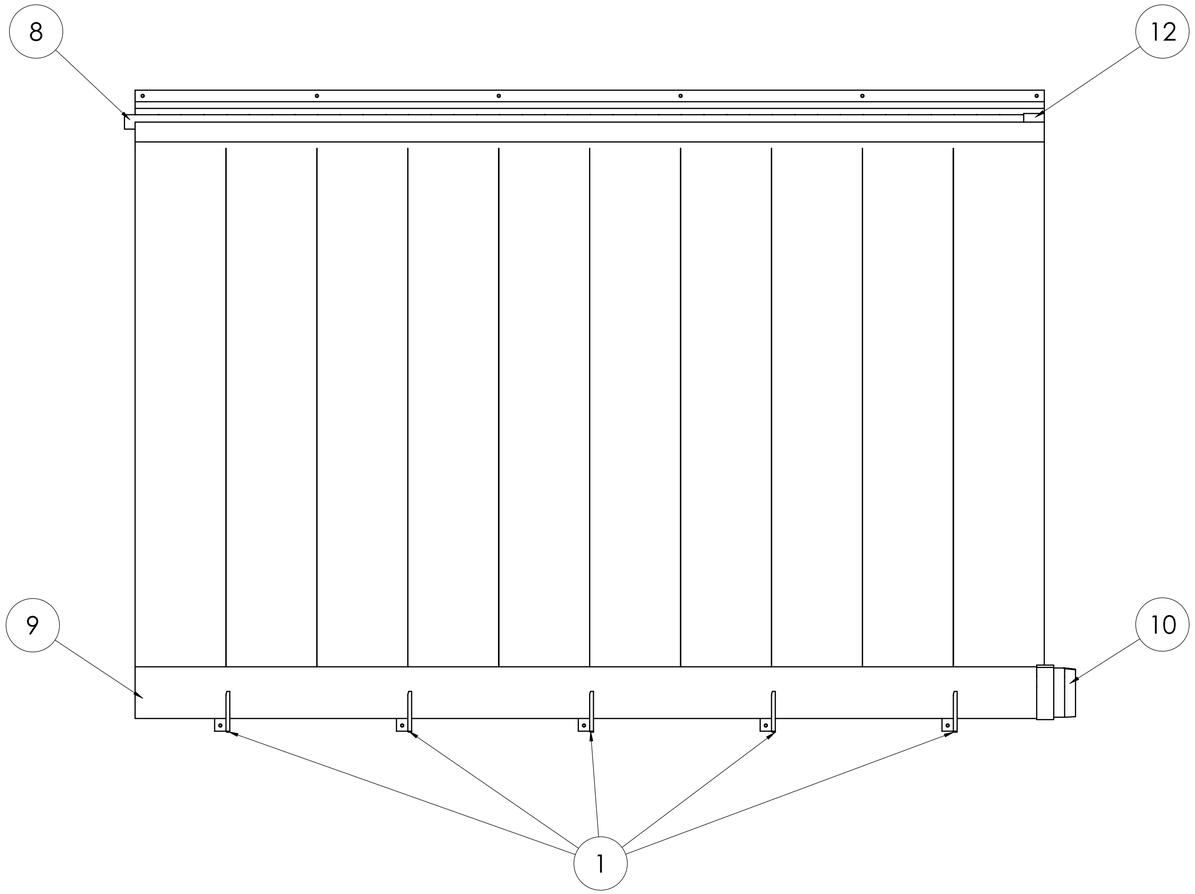
BILL OF MATERIALS (OPEN TOP PAK610EZO-E / CLOSED TOP PAK610EZ-E)				
ITEM #	OPEN TOP PART #	CLOSED TOP PART #	QTY	DESCRIPTION
1	PAB25010	PAB25010	5	PIPE BRACKET FOR EXTENDED 6"
2	PAC607	813008	1	OPEN TOP ALUMINUM PAD COVER
3	PAC608	-	1	OPEN TOP PAD RETAINER 120" LONG
4	PAC609	PAB700	5	OPEN TOP PIPE BRACKET 1-1/2" LONG
5	PAE500	PAE500	1	ALUM TOP EXTRUSION FOR
6	PAEA17510	PAEA17510	1	8" EXTENDED TOP ADAPTER PLATE
7	PAEZEXT	PAEZEXT	1	EXTENDER PLATE FOR EZ TROUGH
8	PAP150DS	PAP150DS	1	1 1/2" PVC(10')W/ 7/64" HOLE
9	PAP800WT	PAP800WT	1	8" PLAIN PVC PIPE 10FT WITH TROUGH
10	PAP860	PAP860	1	COUPLER FOR PAP800WT
11	PAS250	PAS250	53	#12 x 1 1/2" SELF-DRILLING
12	VT198	VT198	1	1 1/2" PVC COUPLER

OPEN TOP



CLOSED TOP





EXPLODED SIDE VIEW

UNSPECIFIED TOLERANCES
2 PLACE ± .060
3 PLACE ± .030
4 PLACE ± .010
HOLE DIA. ± .010
ANGULAR ± 1°

DIMENSIONS ARE IN INCHES
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DO NOT SCALE

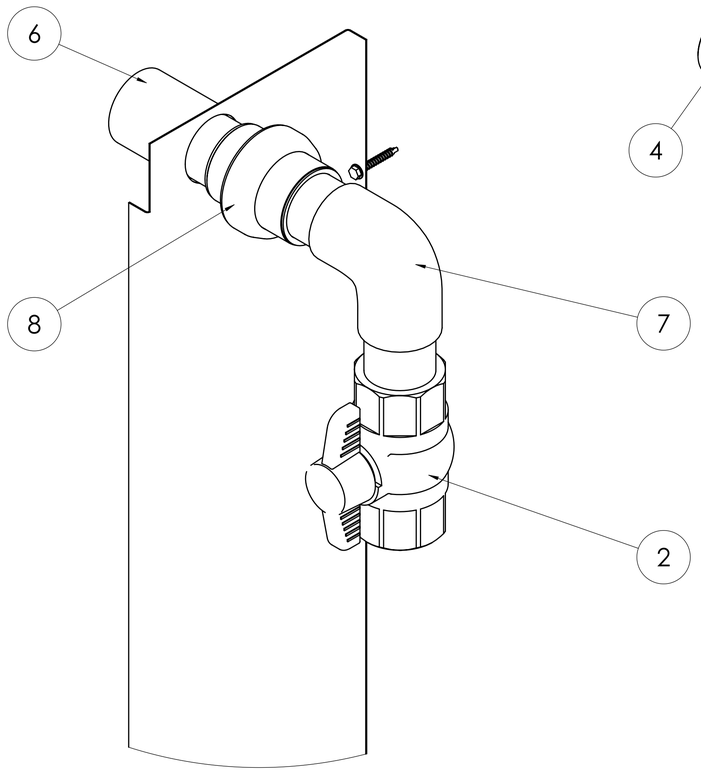
DATE 7/27/2018
DRAWN AP
CHECK -
WEIGHT N/A
SCALE 1:8

VALCO INDUSTRIES, INC.
PO BOX 8
NEW HOLLAND, PA 17557

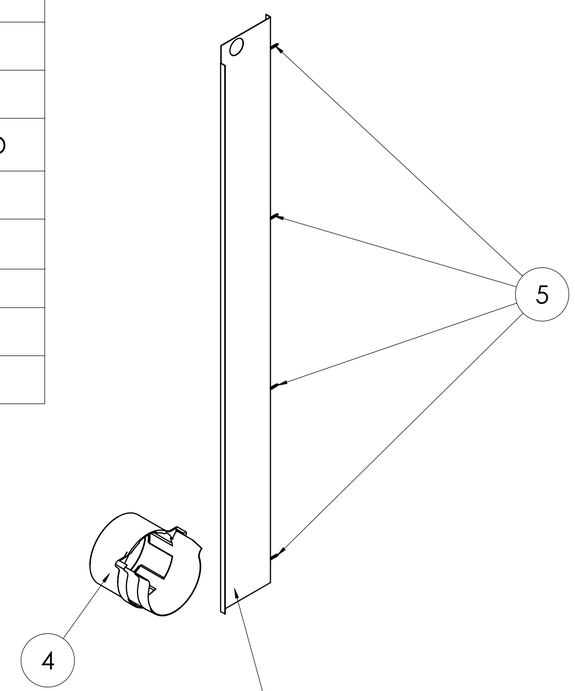
DESCRIPTION 1 INSTALLATION INSTR FOR EZ-COOL
DESCRIPTION 2 RECIRCULATION PAD SYSTEM

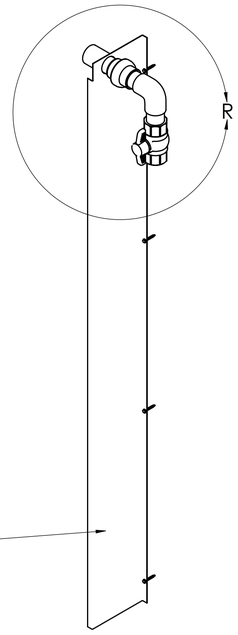
990131 REV. D

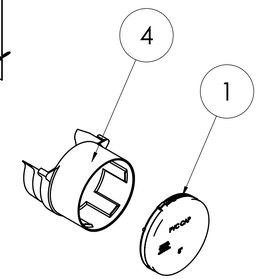
BILL OF MATERIALS (PAEC6/PAEC6-E/813025))					
ITEM #	FLUSH MOUNT PART #	EXTENDED MOUNT PART #	FLUSH MOUNT (2 M TALL) PART #	QTY	DESCRIPTION
1	813011	813011	813011	1	FLEXIBLE 8" PVC CAP
2	PABV15	PABV15	PABV15	1	1-1/2" PVC BALL VALVE
3	PAC800	PAC80010	813026	2	ALUM. SIDE COVER FOR 6" PAD
4	PAP865	PAP865	PAP865	2	END ADAPTER FOR PAP800WT
5	PAS250	PAS250	PAS250	8	#12 x 1 1/2" SELF-DRILLING
6	VT198	VT198	VT198	1	1 1/2" PVC COUPLER
7	VT200	VT200	VT200	1	1 1/2" 90 DEGREE PVC ELL
8	VX150	VX150	VX150	1	1 1/2" PVC UNION



DETAIL R
SCALE 1 : 2







UNSPECIFIED TOLERANCES 2 PLACE ± .040 3 PLACE ± .030 4 PLACE ± .010 HOLE DIA. ± .010 ANGULAR ± 1°	DIMENSIONS ARE IN INCHES DIMENSIONS IN ( ) ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED. DO NOT SCALE	VALCO INDUSTRIES, INC. PO BOX 8 NEW HOLLAND, PA 17557	
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	DRAWN AP	DESCRIPTION 2 RECIRCULATION PAD SYSTEM	
	CHECK -		
	WEIGHT N/A	SHEET 20 OF 20	990131 REV. D
	SCALE 1:8		