

0		Drawing	Description
1		00	DRAWING LIST
2		01	DRAWING NOTES
3		02	MAIN POWER
4		03	24VDC AND 24VAC
5		04	HEATER
6		05	SLOT:1 INPUT MODULE
7		06	SLOT:2 SAFETY INPUT MODULE
8		07	SLOT:3 ANALOG INPUT MODULE
9		08	SLOT:4 OUTPUT MODULE
10		09	SLOT:5 SAFETY OUTPUT MODULE
11		10	PANEL INTERCONNECTIONS
12		11	TERMINAL BLOCKS
13		12	Bill Of Materials grouped by location
14		13	Bill Of Materials grouped by location
15		14	Bill Of Materials grouped by location
16		15	List of wires by line style
17		16	List of wires by line style
18		17	List of wires by line style
19		18	List of wires by line style
20		19	List of cable cores grouped by cable
21		20	List of cable cores grouped by cable
22		21	List of cable cores grouped by cable
23		22	List of cable cores grouped by cable
24		23	List of cable cores grouped by cable
25		24	List of cable cores grouped by cable
26		25	List of cable cores grouped by cable
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			
		LEGEND	
		250 & 252 = 240 OR 120 VAC 314 = 24 VAC 246 = 24 VAC COMMON	307 = 24 VDC (+) 309 = 24 VDC COMMON (-)
		ASSEMBLY: MK3 PLUS	APPROVED ENG: JS
		DRAWN BY: DR	DATE: 7/9/2025
		DWG NO: MK3 PLUS	REVISION: A
			SHEET: 00 OF 25
		CV•TEK INC.	TITLE
		THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.	DRAWING LIST

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

DRAWING NOTES:

WIRE COLOR	
24VDC +	BROWN
24VDC -	BLUE
PLC IO	RED
24VAC +	BLACK
24VAC -	GRAY
3 PHASE	BLACK
120/240VAC	BLACK
GROUND	GRN/YEL

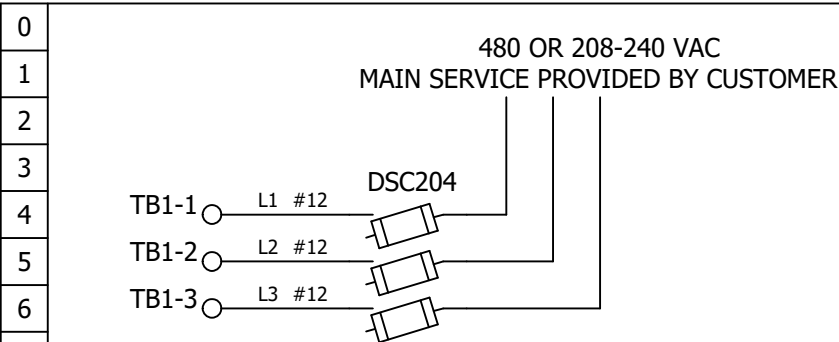
ASSUME #18 GAUGE WIRE
FOR ALL 24VDC/24VAC WIRES
UNLESS OTHERWISE SPECIFIED

ASSUME #14 GAUGE WIRE
FOR ALL 120V-480V WIRES
UNLESS OTHERWISE SPECIFIED

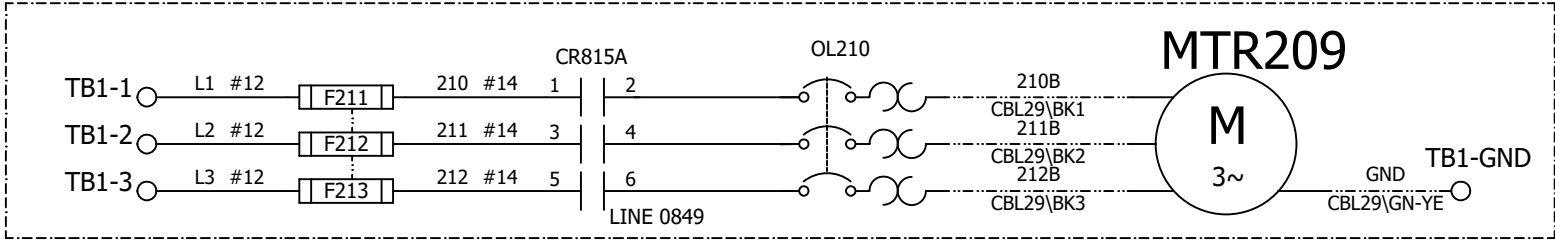
TORQUE SPECS	
DSC204	16 in-lbs
SSR809	11 in-lbs
CR815A,OL209	11 in-lbs
PS304	5 in-lbs
FUSE HOLDERS	17.7 in-lbs

COLOR ABBREVIATIONS	
BLACK	BK
WHITE	WH
RED	RD
BLUE	BU
GREEN	GN
YELLOW	YE
ORANGE	OG
BROWN	BN
GRAY	GY
PINK	PK
VIOLET	VT
TAN	TN

LEGEND 250 & 252 = 240 OR 120 VAC 314 = 24 VAC 246 = 24 VAC COMMON 307 = 24 VDC (+) 309 = 24 VDC COMMON (-)	ASSEMBLY: MK3 PLUS		APPROVED ENG: JS	
	DRAWN BY: DR		DATE: 7/10/2025	REVISION: A
	DWG NO: MK3 PLUS		SHEET: 01 OF 25	
CV•TEK INC.	THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.		TITLE	
			DRAWING NOTES	



DSC204 FUSE SIZE	
208-240V	25A
380-415V	20A
440-480V	15A



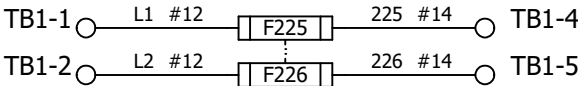
OPTIONAL
VACUUM PUMP MOTOR

F211, F212, F213 3 PHASE FUSE SIZE			
	208-240V	380-415V	440-480V
10CFM	10A	6A	6A
28CFM	20A	15A	10A
40CFM	20A	15A	10A
LEM20	15A	6A	6A
LEM60	30A	20A	15A

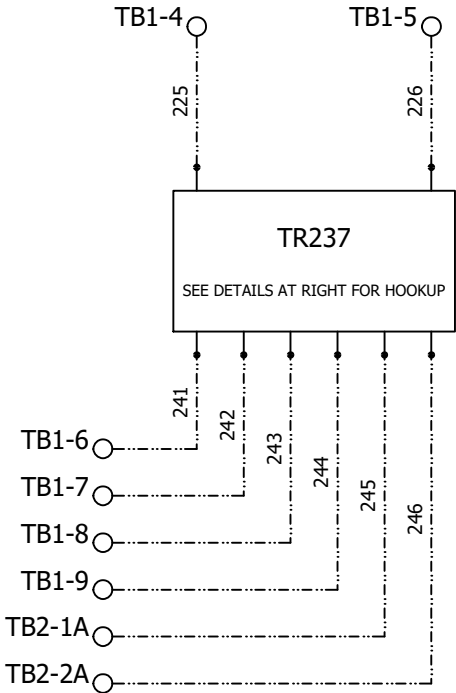
MPCB209 OVERLOAD SETTING			
	208-240V	380-415V	440-480V
10CFM	2.6	1.6	1.3
28CFM	6.0	3.3	3.0
40CFM	6.0	3.3	3.0
LEM20	4.0	2.5	2.5
LEM60	8.5	3.9	3.9

Note: F1 and F2 20A for 208-240VAC single phase and 10CFM pump. No F3 for this configuration.

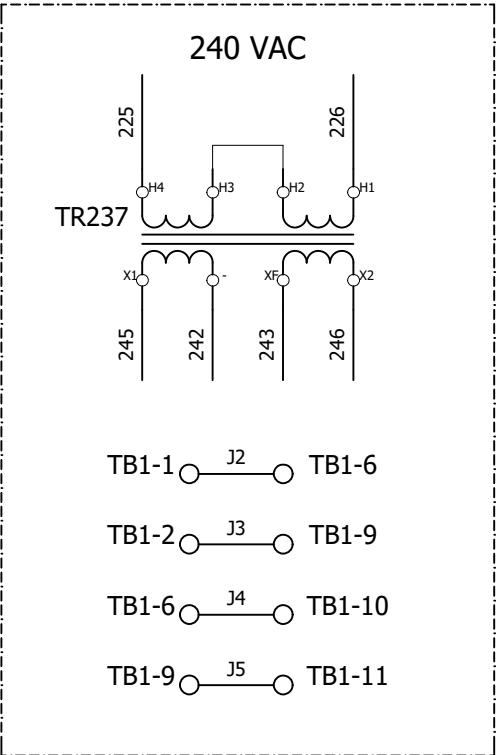
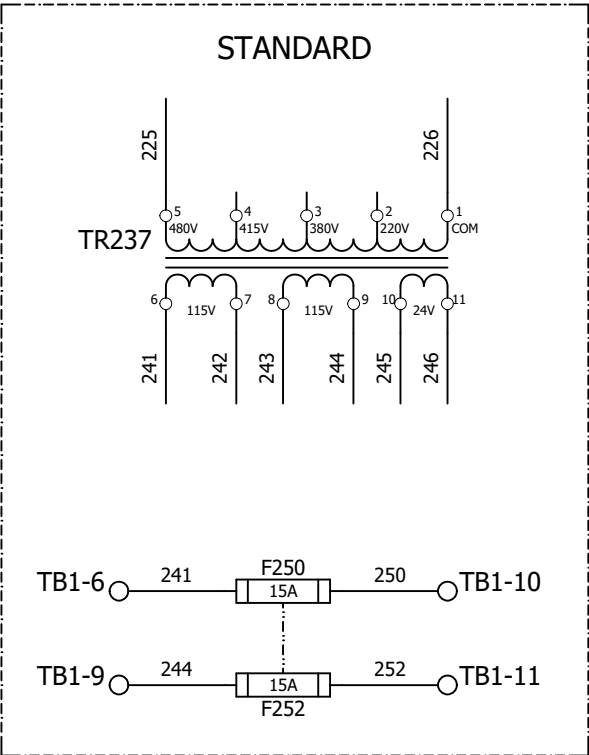
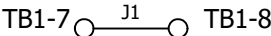
Note: Overload set to 3.8 for 208-240VAC single phase and 10CFM pump.



F225, F226 FUSE SIZE	
208-240V	1A
380-415V	15A
440-480V	10A

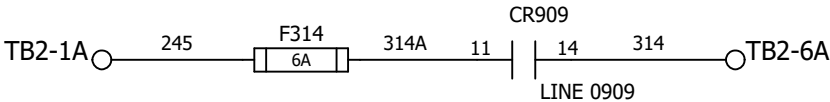
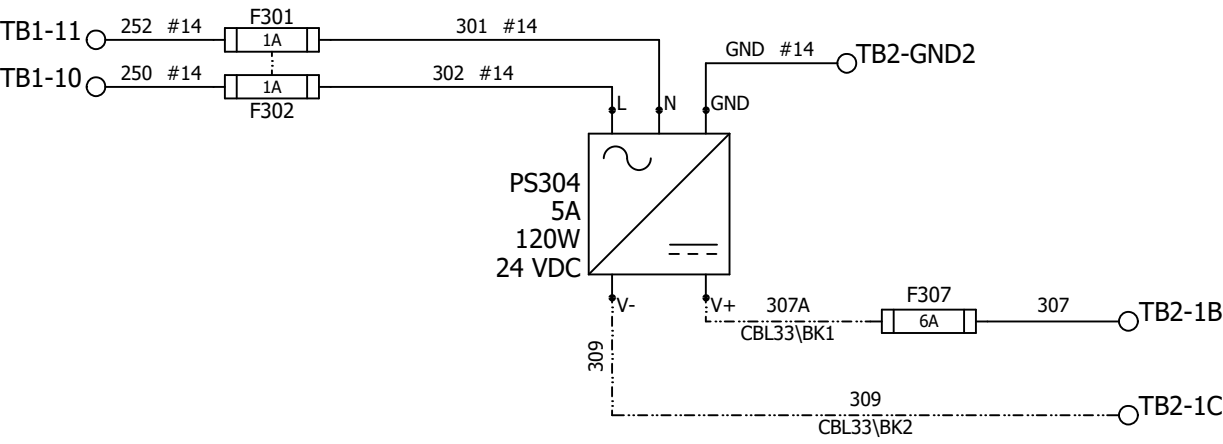


HOT BAR JUMPER

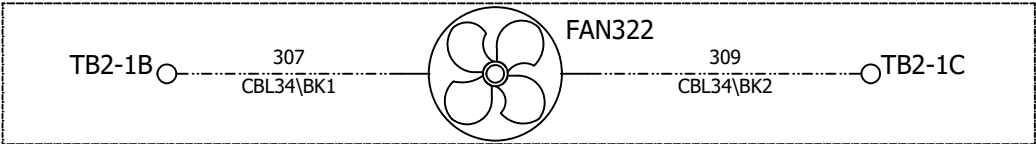


	LEGEND 250 & 252 = 240 OR 120 VAC 314 = 24 VAC 246 = 24 VAC COMMON 307 = 24 VDC (+) 309 = 24 VDC COMMON (-)	ASSEMBLY: MK3 PLUS		APPROVED ENG: JS	
		DRAWN BY: DR		DATE: 6/17/2025	REVISION: A
		DWG NO: MK3 PLUS		SHEET: 02 OF 25	
CV•TEK INC.		THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.	TITLE MAIN POWER		

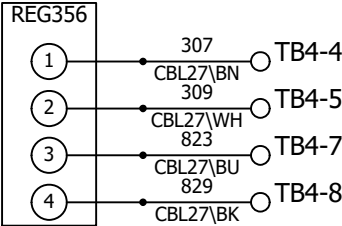
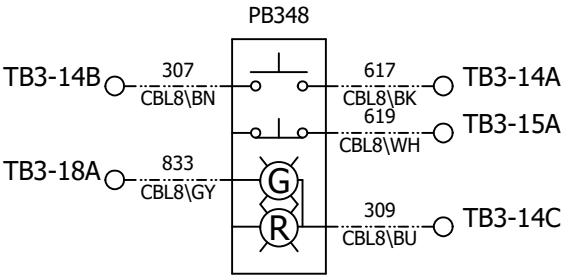
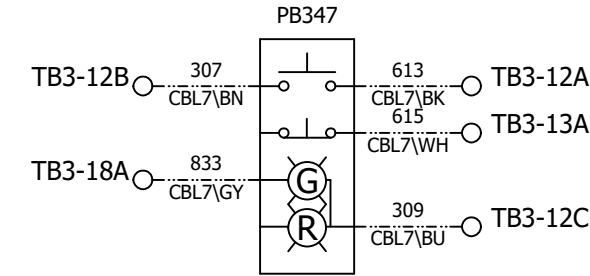
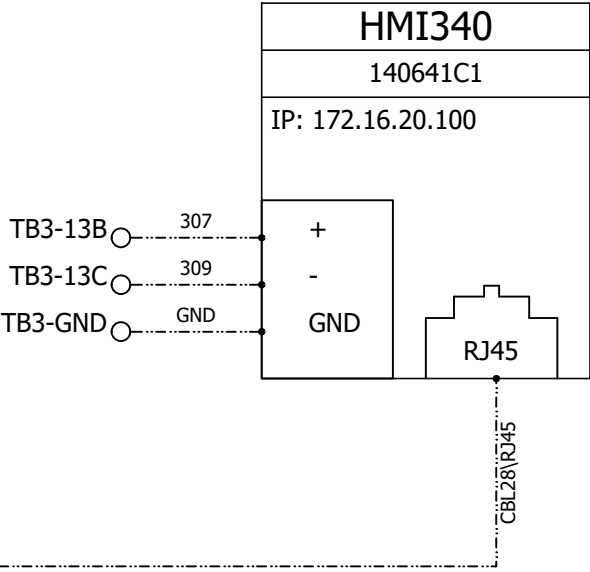
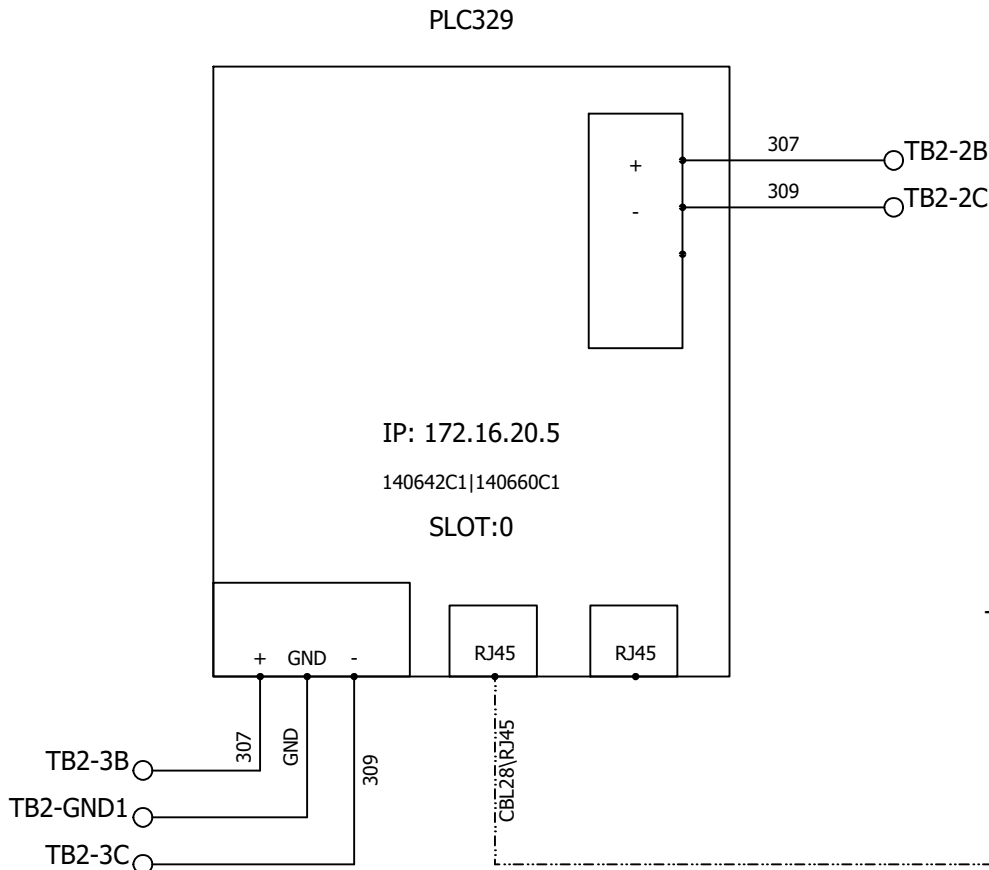
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60



WATER VALVE SOLENOID
USED WITH WATER RING PUMP

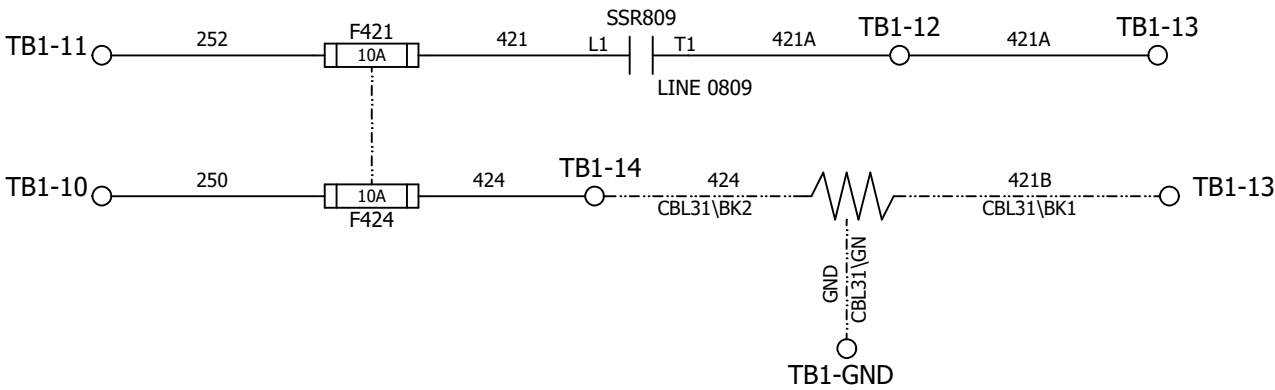


ENCLOSURE COOLING FAN
USED WITH 28/40 CFM PUMPS



LEGEND	ASSEMBLY: MK3 PLUS		APPROVED ENG: JS	
	DRAWN BY: DR		DATE: 6/17/2025	REVISION: A
	DWG NO: MK3 PLUS		SHEET: 03 OF 25	
CV-TEK INC.		THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.	TITLE 24VDC AND 24VAC	

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

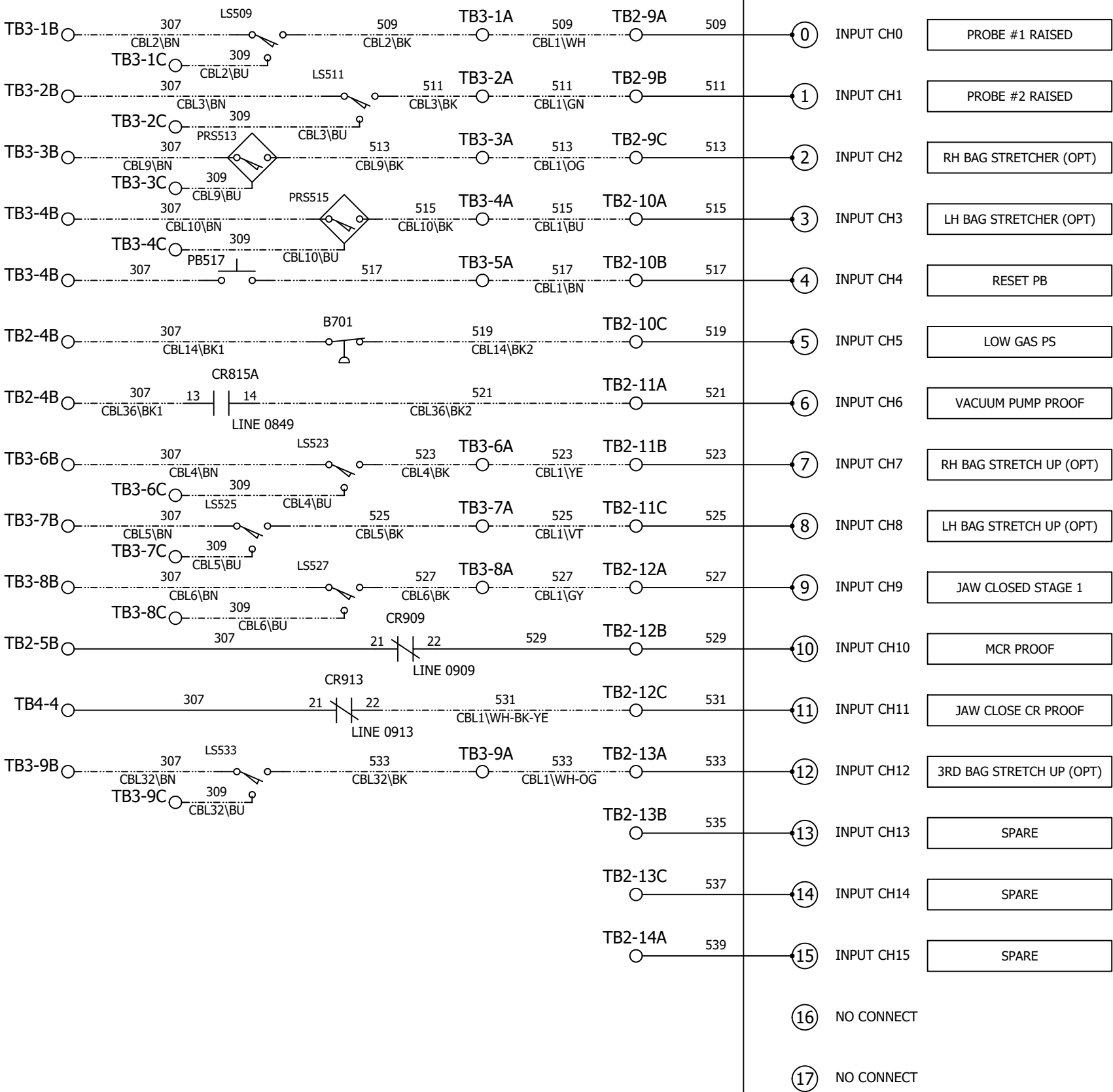


	LEGEND 250 & 252 = 240 OR 120 VAC 314 = 24 VAC 246 = 24 VAC COMMON 307 = 24 VDC (+) 309 = 24 VDC COMMON (-)	ASSEMBLY: MK3 PLUS		APPROVED ENG: JS	
		DRAWN BY: DR		DATE: 6/18/2025	REVISION: A
		DWG NO: MK3 PLUS		SHEET: 04 OF 25	
CV•TEK INC.		THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.	TITLE HEATER		

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

SLOT:1
IOM509

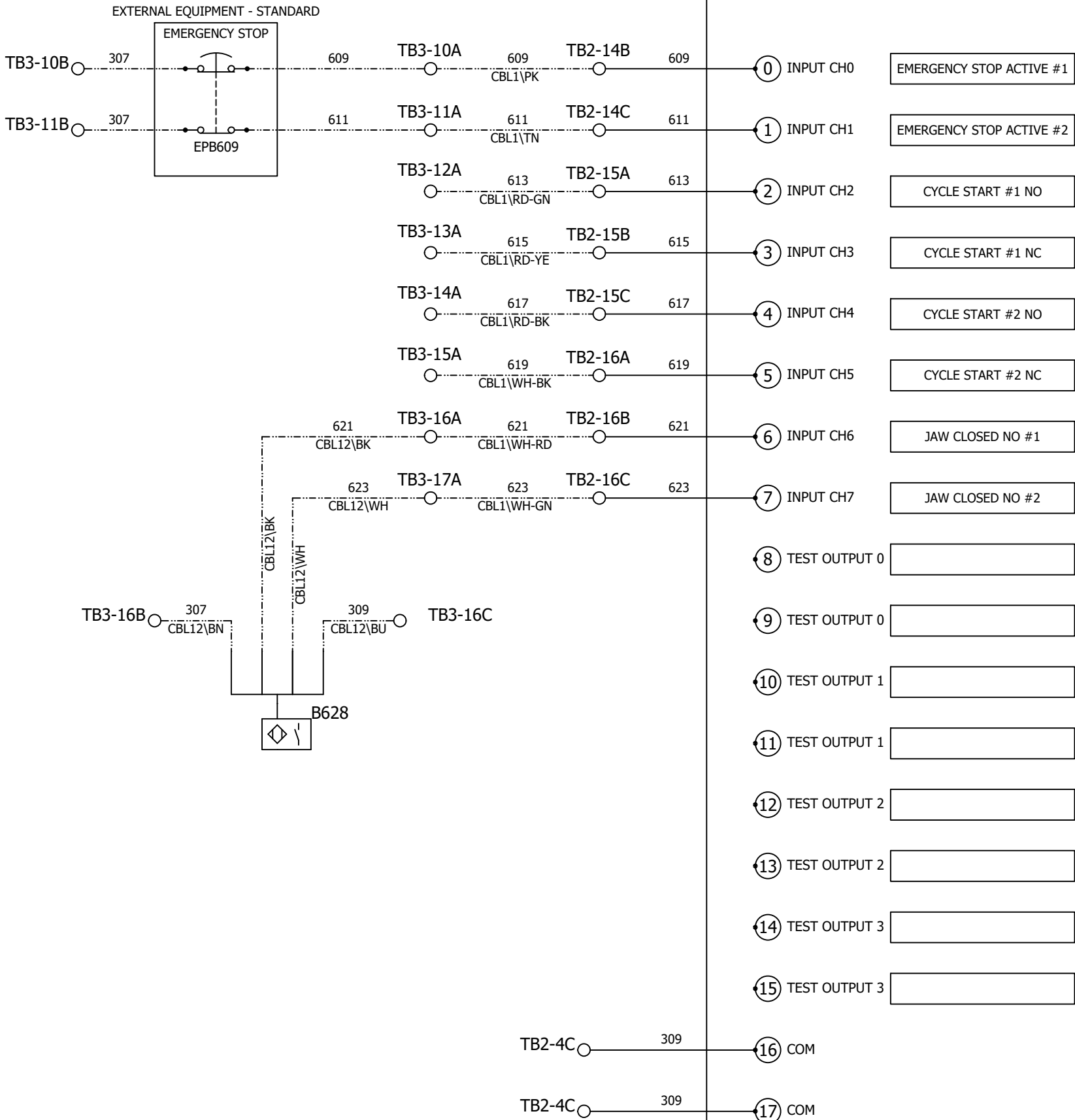
126062C1|126113C1



	LEGEND 250 & 252 = 240 OR 120 VAC 314 = 24 VAC 246 = 24 VAC COMMON 307 = 24 VDC (+) 309 = 24 VDC COMMON (-)	ASSEMBLY: MK3 PLUS		APPROVED ENG: JS	
		DRAWN BY: DR		DATE: 6/18/2025	REVISION: A
		DWG NO: MK3 PLUS		SHEET: 05 OF 25	
CV•TEK INC.		THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.	TITLE SLOT:1 INPUT MODULE		

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

SLOT:2
IOM609



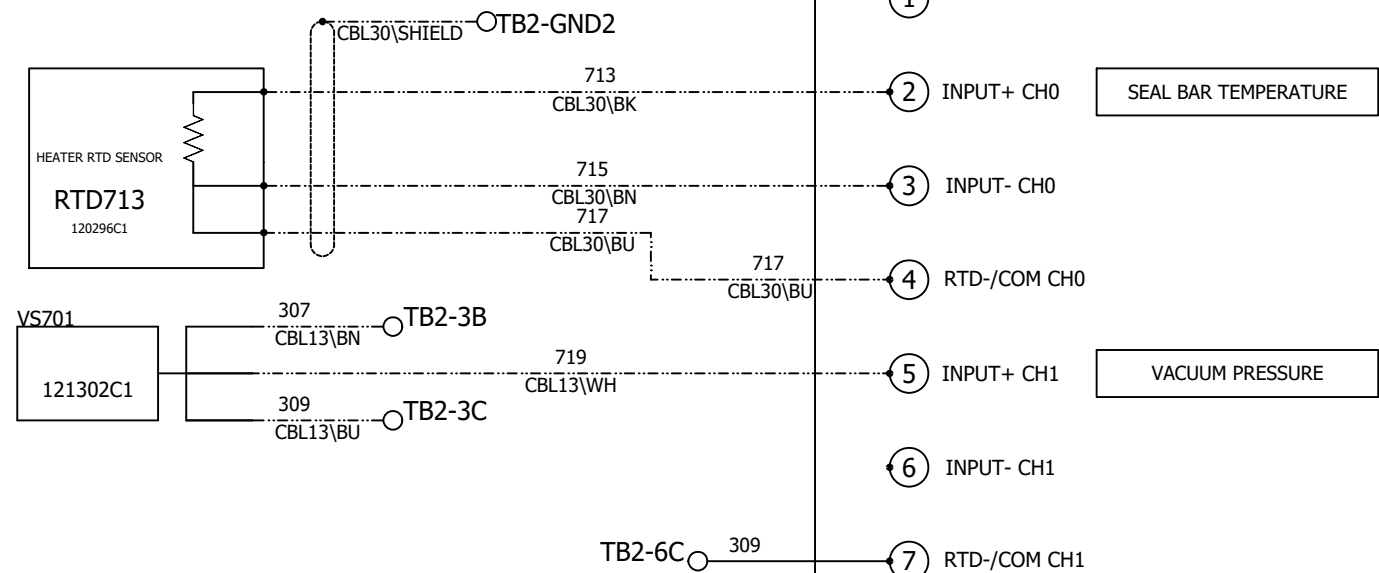
	LEGEND 250 & 252 = 240 OR 120 VAC 314 = 24 VAC 246 = 24 VAC COMMON 307 = 24 VDC (+) 309 = 24 VDC COMMON (-)	ASSEMBLY: MK3 PLUS		APPROVED ENG: JS	
		DRAWN BY: DR		DATE: 6/18/2025	REVISION: A
		DWG NO: MK3 PLUS		SHEET: 06 OF 25	
CV•TEK INC.		THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.	TITLE SLOT:2 SAFETY INPUT MODULE		

250 & 252 = 240 OR 120 VAC
314 = 24 VAC
246 = 24 VAC COMMON

307 = 24 VDC (+)
309 = 24 VDC COMMON (-)

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

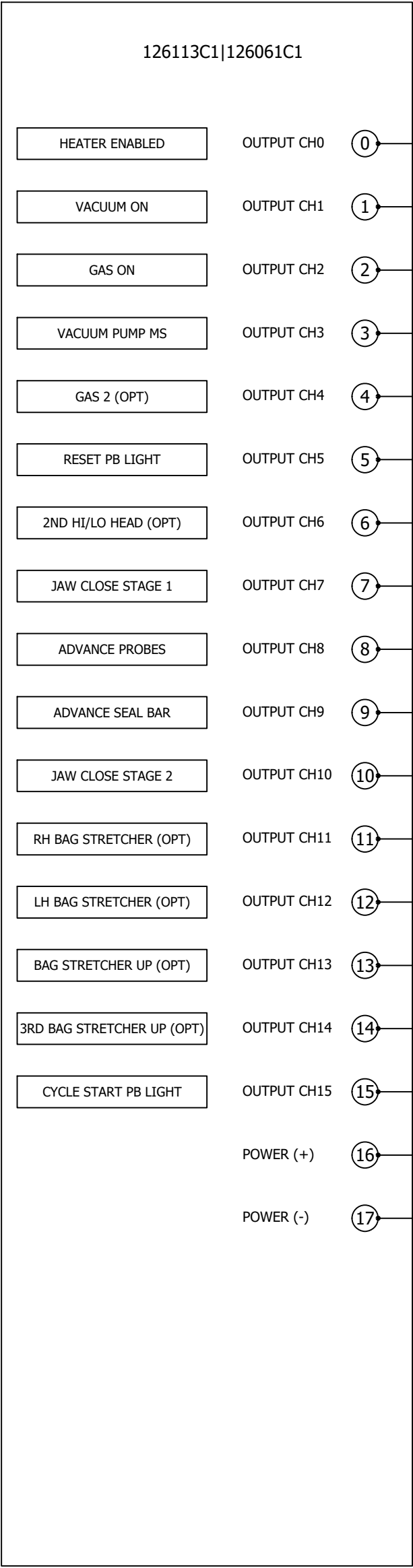
SLOT:3
IOM709



- 126192C1|126113C1
- 0 NO CONNECT
 - 1 NO CONNECT
 - 2 INPUT+ CH0 SEAL BAR TEMPERATURE
 - 3 INPUT- CH0
 - 4 RTD-/COM CH0
 - 5 INPUT+ CH1 VACUUM PRESSURE
 - 6 INPUT- CH1
 - 7 RTD-/COM CH1
 - 8 INPUT+ CH2 SPARE
 - 9 INPUT- CH2
 - 10 RTD-/COM CH2
 - 11 NO CONNECT
 - 12 NO CONNECT
 - 13 INPUT+ CH3 SPARE
 - 14 INPUT- CH3
 - 15 RTD-/COM CH3
 - 16 SHIELD
 - 17 SHIELD

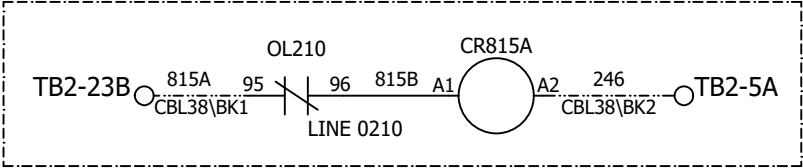
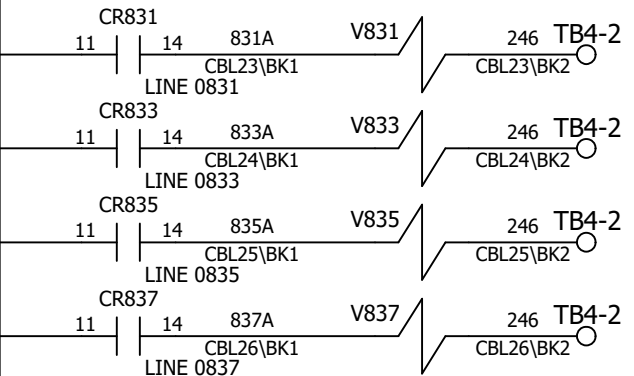
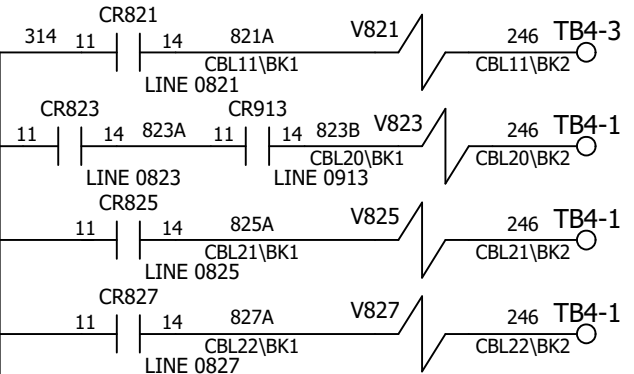
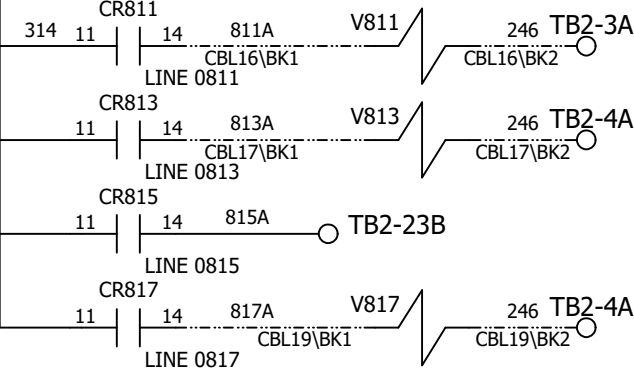
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

SLOT:4
IOM809

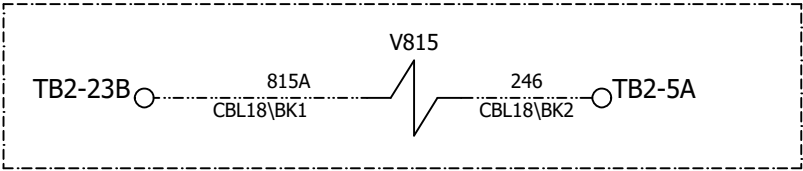


TB2-7A

314



OPTIONAL
VACUUM PUMP

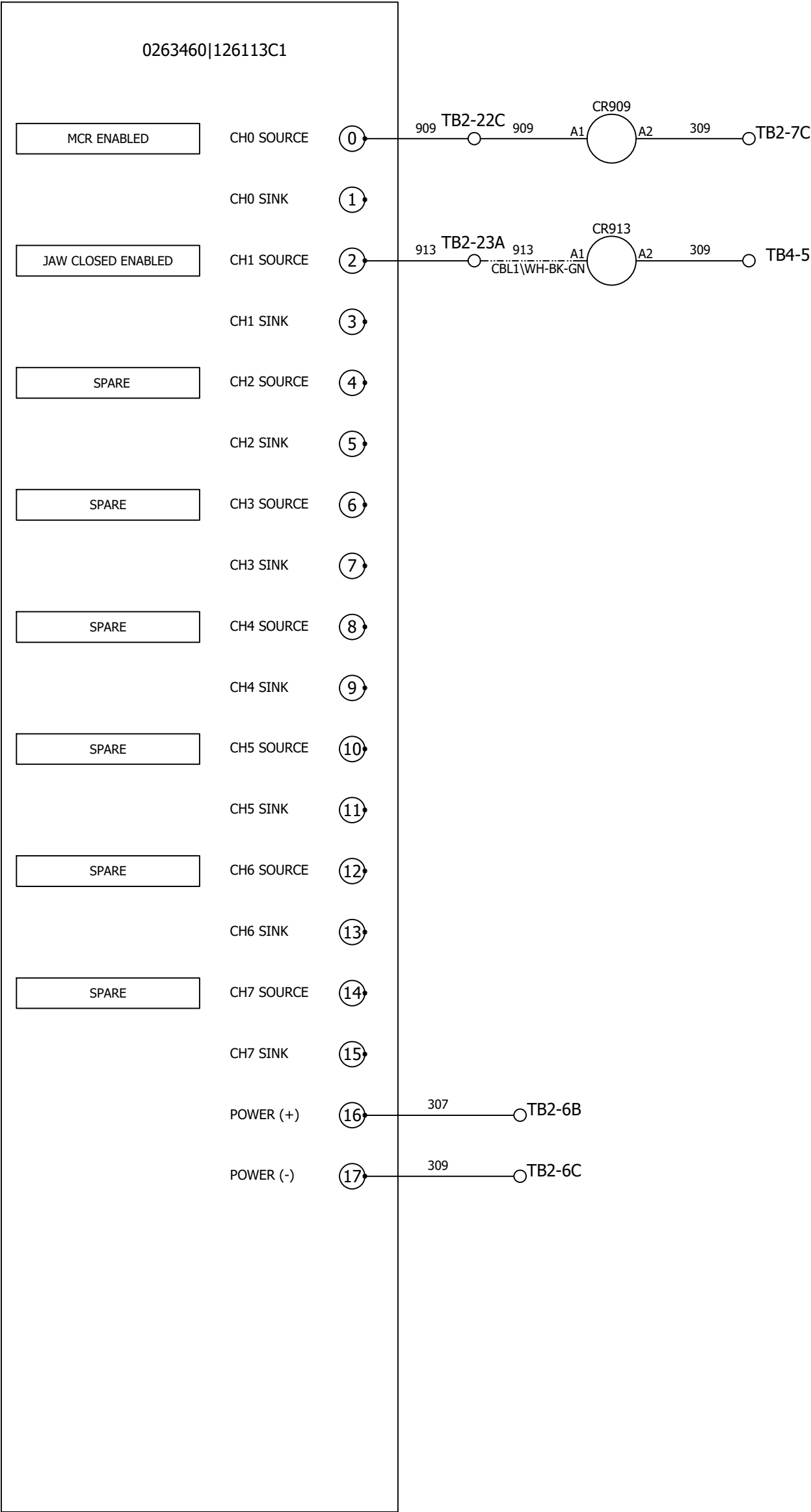


OPTIONAL
AIR PUMP

LEGEND 250 & 252 = 240 OR 120 VAC 314 = 24 VAC 246 = 24 VAC COMMON 307 = 24 VDC (+) 309 = 24 VDC COMMON (-)	ASSEMBLY: MK3 PLUS		APPROVED ENG: JS	
	DRAWN BY: DR		DATE: 6/18/2025	REVISION: A
	DWG NO: MK3 PLUS		SHEET: 08 OF 25	
CV•TEK INC.	THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.		TITLE SLOT:4 OUTPUT MODULE	

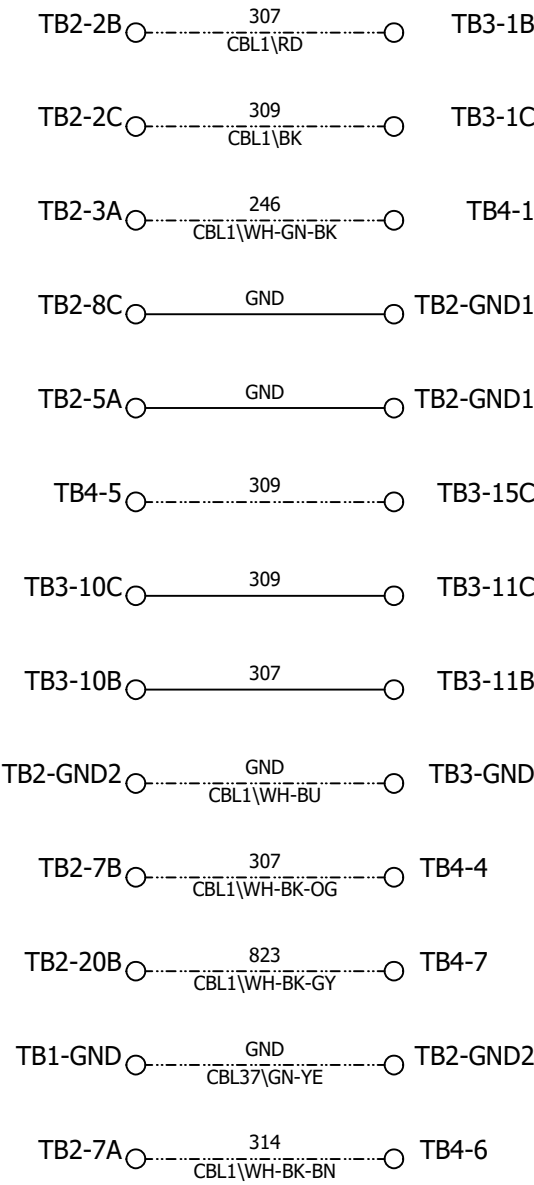
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

SLOT:5
IOM909



LEGEND 250 & 252 = 240 OR 120 VAC 314 = 24 VAC 246 = 24 VAC COMMON 307 = 24 VDC (+) 309 = 24 VDC COMMON (-)	ASSEMBLY: MK3 PLUS		APPROVED ENG: JS	
	DRAWN BY: DR		DATE: 6/18/2025	REVISION: A
	DWG NO: MK3 PLUS		SHEET: 09 OF 25	
CV•TEK INC.	THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.		TITLE	
			SLOT:5 SAFETY OUTPUT MODULE	

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60



LEGEND 250 & 252 = 240 OR 120 VAC 314 = 24 VAC 246 = 24 VAC COMMON 307 = 24 VDC (+) 309 = 24 VDC COMMON (-)	ASSEMBLY: MK3 PLUS		APPROVED ENG: JS	
	DRAWN BY: DR		DATE: 6/26/2025	REVISION: A
	DWG NO: MK3 PLUS		SHEET: 10 OF 25	
CV•TEK INC.	THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.		TITLE	
			PANEL INTERCONNECTIONS	

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

TB1 - HIGH VOLTAGE ENCLOSURE

L1	L2	L3	225	226	241	242	243	244	250	252	421A	421A	424	GND	
L1	L2								250					GND	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	GND	GND
L1	L2								250	252				GND	
L1	L2	L3	225	226	241	242	243	244	250	252	421A	421B	424	GND	

F211 VACUUM PUMP MOTOR
F212 VACUUM PUMP MOTOR
F213 VACUUM PUMP MOTOR
F225 TRANSFORMER PRIMARY
F226 TRANSFORMER PRIMARY
F250 TRANSFORMER SECONDARY
F252 TRANSFORMER SECONDARY
F421 SEAL HEATER
F424 SEAL HEATER

F301 POWER SUPPLY PRIMARY
F302 POWER SUPPLY PRIMARY

TB2 - LOW VOLTAGE ENCLOSURE

C	309	309	309	309	309	309		309	513	519	525	531	537	611	617	623	813	819	825	829	835	909				
B	307	307	307	307		307			511	517	523	529	535	609	615	621	811	817	823		833	839	815A		GND	GND
A	245	246	246	246	246	314	314	317	509	515	521	527	533	539	613	619	809	815	821	827	831	837	913		GND	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		GND	GND
A	245	246	246	246	246	314	314	317	509	515	521	527	533		613	619	809	815	821	827	831	837	913		GND	GND
B	307	307	307	307	307	307	307		511	517	523	529		609	615	621	811	817	823	823	833	839	815A		GND	GND
C	309	309	309	309	309	309	309	309	513	519	525	531		611	617	623	813	819	825	829	835	909				

A1	811	813	815	817
A2	309			
	CR811	CR813	CR815	CR817
14	811A	813A	815A	817A
11	314			
12				

F307 POWER SUPPLY SECONDARY
F314 TRANSFORMER 24VAC

TB3 - HMI ENCLOSURE

C	309										309	309									
B	307										307	307									
A	509	511	513	515	517	523	525	527	533	609	611	613	615	617	619	621	623	839		819	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
A	509	511	513	515	517	523	525	527	533	609	611	613	615	617	619	621	623	839	839	819	
B	307	307	307	307	307	307	307	307	307	307	307	307	307	307		307					
C	309	309	309	309		309	309	309	309			309	309	309	309	309				309	

TB4 - VALVE ENCLOSURE

246	246	246	307	309	314	823	829
246	246			309			
1	2	3	4	5	6	7	8
246	246		307	309			
246	246		307	309	314	823	829

A1	821	823	825	827	831	833	835	837
A2	309							
	CR821	CR823	CR825	CR827	CR831	CR833	CR835	CR837
14	821A	823A	825A	827A	831A	833A	835A	837A
11	314							
12								

0

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

EXTERNAL EQUIPMENT - OPTIONAL

	Reference	Mark	Description	QTY
1	111008C1	TR237	TRANSFORMER ALTRAN 2.5 KVA	1
2	120498C1	PRS513, PRS515	SENSOR; INDUCTIVE PROXIMITY	2
3	121846C1	LS523, LS525, LS527, LS533	SS SOURCING SWITCH (PNP)	4
4	71002302	TR237	Transformer Micron 24v 100va	1
5	71500401	FAN322	FAN; ROUND 6.75 24VDC	1
6	73102101	V811	Valve ASCO 3/4 NO brass 24v	1
7	73103701	V817	VALVE ASCO 3/8 NC BRASS 24VAC	1
8	73104303	B701	Pressure switch Hobbs NO/NC	1
9	73107501	V811, V317, V815	Valve ASCO 1/2 NC brass 24vac	3
10	73108001	V811	ASM Chemline Severe Service Valve	1

EXTERNAL EQUIPMENT - STANDARD

	Reference	Mark	Description	QTY
1	0210-1734	DSC204	SHAFT DISC. HANDLE 265mm	1
2	7707-2744	DSC204	DISCONNECT HANDLE 6MM	1
3	120296C1	RTD713	RTD 3" LONG	1
4	121302C1	VS701	Ashcroft Vacuum Sensor	1
5	121846C1	LS509, LS511	SS SOURCING SWITCH (PNP)	2
6	126048C1	B628	SAFETY PROX M12	1
7	140643C1	EPB609	E-STOP	1
8	140644C1	EPB609	NC CONTACT BLOCK	2
9	140818C1	PB517	HYGIENIC YELLOW BUTTON	1
10	140819C1	PB517	NO CONTACT BLOCK	1
11	140820C1	PB517	LIGHT TERMINAL BLOCK	1
12	140821C1	PB517	LIGHT BULB	1
13	141135C1	DSC204	DISCONNECT SWITCH, FUSED, UL	1
14	73103701	V813	VALVE ASCO 3/8 NC BRASS 24VAC	1

HIGH VOLTAGE CABINET - OPTIONAL

	Reference	Mark	Description	QTY
1	141126C1	F211, F212, F213, F250, F252	FUSE HOLDER CLASS CC UL	5
2	141131C1	F250, F252	FUSE 15A CLASS CC UL	2
3	141226C1	F211, F212, F250	FUSE HOLDER CONN. KIT	3
4	71404701	CR815A	MINI CONTACTOR; 24 VAC	1
5	71404901	OL210	Lovato Overload 0.9-1.5 Amp	1
6	71405001	OL210	Lovato Overload 1.4-2.3 Amp	1
7	71405101	OL210	Lovato Overload 2.3-3.0 Amp	1
8	71405201	OL210	Lovato Overload 3.0-5.0 Amp	1
9	71405301	OL210	Lovato Overload 4.5-7.5 Amp	1
10	71405401	OL210	Lovato Overload 9-15 Amp	1
11	71405501	CR815A	Lovato Auxiliary Contacts 2NO	1

LEGEND

250 & 252 = 240 OR 120 VAC
314 = 24 VAC
246 = 24 VAC COMMON

307 = 24 VDC (+)
309 = 24 VDC COMMON (-)

ASSEMBLY: MK3 PLUS

DRAWN BY: DR

DWG NO: MK3 PLUS

APPROVED ENG:

DATE: 8/21/2025

SHEET: 12 OF 25

REVISION: A

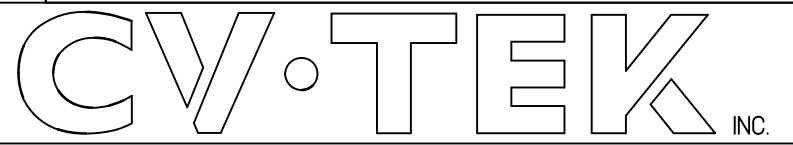
CV-TEK

INC.

THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.

TITLE

Bill Of Materials grouped by location

0					
1	HIGH VOLTAGE CABINET - STANDARD				
2		Reference	Mark	Description	QTY
3					
4	1	131287C1	J26	TERMINAL BLOCK 2 POLE JUMPER, 41 A	1
5	2	140645C1	TB1-2, TB1-1, TB1-3, TB1-6, TB1-9, TB1-7, TB1-8, TB1-5, TB1-12, TB1-13, TB1-14, TB1-4, TB1-11, TB1-10	SPRING TERMINAL BLOCK, GRAY	14
6					
7					
8	3	140646C1	TB1-GND, TB1-GND2	SPRING TERMINAL BLOCK, GND	2
9					
10	4	140647C1	X1110	TERMINAL BLOCK END PLATE, ORANGE	1
11	5	140662C1	PS304	24VDC POWER SUPPLY, 5A, 110-240VAC	1
12					
13	6	141126C1	F225, F226, F301, F421, F424, F302	FUSE HOLDER CLASS CC UL	6
14	7	141127C1	F302, F301	FUSE 1A CLASS CC UL	2
15	8	141130C1	F421, F424	FUSE 10A CLASS CC UL	2
16	9	141226C1	F225, F301, F421	FUSE HOLDER CONN. KIT	3
17					
18	10	71104502	SSR809	Relay; solid state 24-265VAC	1
19	HMI CABINET - STANDARD				
20		Reference	Mark	Description	QTY
21					
22	1	#7707-3224	TB3-GND	4-PT CLAMPING GROUND TERM BLOCK	1
23	2	#7707-3227	X1135	WAGO END PLATE, TERM BLOCK	1
24					
25	3	140641C1	HMI340	AB OPTIX HMI, 4INCH	1
26	4	140648C1	J19	TERMINAL BLOCK JUMPER, 2-POLE	1
27	5	140656C1	J16, J18, J15, J17	TERMINAL BLOCK JUMPER, 10-POLE	4
28					
29	6	140658C1	TB3-19A, TB3-20A, TB3-9A, TB3-1A, TB3-3A, TB3-4A, TB3-10A, TB3-11A, TB3-12A, TB3-13A, TB3-14A, TB3-15A, TB3-16A, TB3-17A, TB3-5A, TB3-6A, TB3-7A, TB3-8A, TB3-2A, TB3-18A	SPRING TERMINAL BLOCK, 3-TIER	20
30					
31					
32					
33	7	140659C1	X1136	TERMINAL BLOCK END PLATE, ORANGE	1
34					
35	LOW VOLTAGE CABINET - STANDARD				
36		Reference	Mark	Description	QTY
37					
38	1	#7707-3224	TB2-GND1, TB2-GND2	4-PT CLAMPING GROUND TERM BLOCK	2
39	2	#7707-3227	X1122	WAGO END PLATE, TERM BLOCK	1
40					
41	3	#7707-3232-2	J20	JUMPER BAR, 2 POLE	1
42	4	#0677730	IOM609	5069-IB8S SAFTEY INPUT	1
43	5	126061C1	IOM809	AB 5069 DIGITAL OUTPUT CARD	1
44	6	126062C1	IOM509	CMPT 5000 DC INPUT MODULE	1
45					
46	7	126113C1	IOM809, IOM709, IOM609, IOM909, IOM509	SPRING KIT GUARDLOGIX 5069	5
47					
48	8	126192C1	IOM709	PLC COMPACT 5000 I/O 4 x ANALOG INPUT	1
49	9	131934C1	CR817, CR811, CR813, CR815	MINIATURE SWITCHING RELAY	4
50					
51	10	136683C1	J21, J22	4 PIN JUMPER SLIM RELAY	2
52	11	140639C1	CR909	SAFETY RELAY 24VDC, 8A, DPDT	1
53	12	140640C1	CR909	RELAY SOCKET 8-PIN	1
54	13	140642C1	PLC329	AB GUARDLOGIX PLC	1
55					
56	14	140648C1	J10, J14	TERMINAL BLOCK JUMPER, 2-POLE	2
57	15	140650C1	J13	TERMINAL BLOCK JUMPER, 4-POLE	1
58	16	140654C1	J11, J12	TERMINAL BLOCK JUMPER, 8-POLE	2
59					
60					
	LEGEND		ASSEMBLY: MK3 PLUS	APPROVED ENG:	
	250 & 252 = 240 OR 120 VAC 314 = 24 VAC 246 = 24 VAC COMMON		307 = 24 VDC (+) 309 = 24 VDC COMMON (-)	DATE: 8/21/2025	REVISION: A
			DRAWN BY: DR		
			DWG NO: MK3 PLUS	SHEET: 13 OF 25	
			THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.	TITLE Bill Of Materials grouped by location	

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

-> LOW VOLTAGE CABINET - STANDARD

	Reference	Mark	Description	QTY
17	140658C1	TB2-8A, TB2-1A, TB2-2A, TB2-6A, TB2-4A, TB2-3A, TB2-5A, TB2-7A, TB2-9A, TB2-10A, TB2-11A, TB2-12A, TB2-13A, TB2-14A, TB2-15A, TB2-16A, TB2-17A, TB2-18A, TB2-19A, TB2-20A, TB2-21A, TB2-22A, TB2-23A	SPRING TERMINAL BLOCK, 3-TIER	23
18	140659C1	X1123	TERMINAL BLOCK END PLATE, ORANGE	1
19	140660C1	PLC329	PLC SPRING TERMINAL KIT	1
20	141126C1	F314, F307	FUSE HOLDER CLASS CC UL	2
21	141129C1	F314, F307	FUSE 6A CLASS CC UL	2
22	0263460	IOM909	PLC COMPACT 5000 I/O 8 x 24VDC SAFETY OUTPUT	1

VALVE CABINET - OPTIONAL

	Reference	Mark	Description	QTY
1	140717C1	REG356	SMC ELECTRONIC REGULATOR 1/4 NPT	1
2	73100201	V831, V833, V837, V835, V821	VALVE MAC STACK 24V DIN - 221JM	5

VALVE CABINET - STANDARD

	Reference	Mark	Description	QTY
1	#7707-3225	TB4-1, TB4-2, TB4-5, TB4-3, TB4-4, TB4-7, TB4-8, TB4-6	4-PT CLAMPING TERM BLOCK	8
2	#7707-3227	X1147	WAGO END PLATE, TERM BLOCK	1
3	#7707-3232-3	J25	JUMPER BAR, 3 POLE	1
4	131934C1	CR835, CR823, CR821, CR831, CR833, CR837, CR825, CR827	MINIATURE SWITCHING RELAY	8
5	140639C1	CR913	SAFETY RELAY 24VDC, 8A, DPDT	1
6	140640C1	CR913	RELAY SOCKET 8-PIN	1
7	140870C1	J23, J24	RELAY JUMPER, 8-POLE	2
8	73100201	V823, V825, V827	VALVE MAC STACK 24V DIN - 221JM	3

LEGEND

250 & 252 = 240 OR 120 VAC
314 = 24 VAC
246 = 24 VAC COMMON

307 = 24 VDC (+)
309 = 24 VDC COMMON (-)

ASSEMBLY: MK3 PLUS

DRAWN BY: DR

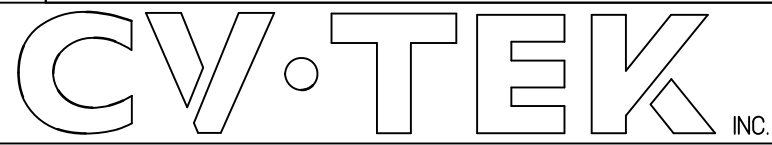
DWG NO: MK3 PLUS

APPROVED ENG:

DATE: 8/21/2025

REVISION: A

SHEET: 14 OF 25



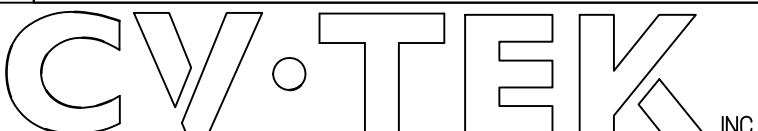
THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.

TITLE
Bill Of Materials grouped by location

0	L1-MAIN CABINET HIGH VOLTAGE CABINET - OPTIONAL				
1					
2	Origin	Destination	Wire number/ Gauge	Line style	Length (in)
3	F211	TB1-1	L1 / #12	WB12-AWG BLACK	23
4	F212	TB1-2	L2 / #12	WB12-AWG BLACK	23
5	F213	TB1-3	L3 / #12	WB12-AWG BLACK	23
6	CR815A:1	F211	210 / #14	WB14-AWG BLACK	37
7	CR815A:3	F212	211 / #14	WB14-AWG BLACK	37
8	CR815A:5	F213	212 / #14	WB14-AWG BLACK	37
9	F250	TB1-10	250 / #14	WB14-AWG BLACK	13
10	F250	TB1-6	241 / #14	WB14-AWG BLACK	26
11	F252	TB1-11	252 / #14	WB14-AWG BLACK	13
12	F252	TB1-9	244 / #14	WB14-AWG BLACK	27
13	OL210:96	CR815A:A1	815B / #18	WR18-AWG RED	0
14	F252	TB1-11	252 / #14	WB14-AWG BLACK	13
15	F252	TB1-9	244 / #14	WB14-AWG BLACK	27
16	OL210:96	CR815A:A1	815B / #18	WR18-AWG RED	0
17					

18	L1-MAIN CABINET HIGH VOLTAGE CABINET - STANDARD				
19	Origin	Destination	Wire number/ Gauge	Line style	Length (in)
20	F225	TB1-1	L1 / #12	WB12-AWG BLACK	15
21	F226	TB1-2	L2 / #12	WB12-AWG BLACK	15
22	F225	TB1-4	225 / #14	WB14-AWG BLACK	15
23	F226	TB1-5	226 / #14	WB14-AWG BLACK	15
24	TB1-1	TB1-6	J2 / #14	WB14-AWG BLACK	0
25	TB1-2	TB1-9	J3 / #14	WB14-AWG BLACK	0
26	TB1-6	TB1-10	J4 / #14	WB14-AWG BLACK	0
27	TB1-7	TB1-8	J1 / #14	WB14-AWG BLACK	7
28	TB1-9	TB1-11	J5 / #14	WB14-AWG BLACK	0
29	F301	TB1-11	252 / #14	WB14-AWG BLACK	27
30	F302	PS304:L	302 / #14	WB14-AWG BLACK	9
31	F302	TB1-10	250 / #14	WB14-AWG BLACK	27
32	PS304:N	F301	301 / #14	WB14-AWG BLACK	9
33	SSR809:L1	F421	421 / #14	WB14-AWG BLACK	45
34	SSR809:T1	TB1-12	421A / #14	WB14-AWG BLACK	24
35	F421	TB1-11	252 / #14	WB14-AWG BLACK	14
36	TB1-12	TB1-13	421A / #14	WB14-AWG BLACK	7
37	F424	TB1-10	250 / #14	WB14-AWG BLACK	14
38	F424	TB1-14	424 / #14	WB14-AWG BLACK	14
39	PS304:GND	TB2-GND2	GND / #14	WG14-AWG GREEN/YELLOW	45
40					

47	L1-MAIN CABINET LOW VOLTAGE CABINET - STANDARD				
48	Origin	Destination	Wire number/ Gauge	Line style	Length (in)
49	F314	CR909:11	314A / #18	WB18-AWG BLACK	41
50	F314	TB2-1A	245 / #18	WB18-AWG BLACK	32
51	CR909:14	TB2-6A	314 / #18	WB18-AWG BLACK	0
52	CR811:11	TB2-7A	314 / #18	WB18-AWG BLACK	30
53	PLC329:-	TB2-2C	309 / #18	WBL18-AWG BLUE	50
54	PLC329:-	TB2-3C	309 / #18	WBL18-AWG BLUE	50
55	IOM609:16	TB2-4C	309 / #18	WBL18-AWG BLUE	37
56					

LEGEND 250 & 252 = 240 OR 120 VAC 314 = 24 VAC 246 = 24 VAC COMMON 307 = 24 VDC (+) 309 = 24 VDC COMMON (-)	ASSEMBLY: MK3 PLUS		APPROVED ENG:	
	DRAWN BY: DR		DATE: 8/21/2025	REVISION: A
	DWG NO: MK3 PLUS		SHEET: 15 OF 25	
	THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.		TITLE	
			List of wires by line style	

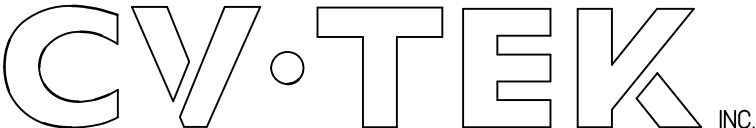
0	-> L1-MAIN CABINET LOW VOLTAGE CABINET - STANDARD				
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					
	LEGEND 250 & 252 = 240 OR 120 VAC 314 = 24 VAC 246 = 24 VAC COMMON		ASSEMBLY: MK3 PLUS DRAWN BY: DR DWG NO: MK3 PLUS		APPROVED ENG: DATE: 8/21/2025 REVISION: A SHEET: 16 OF 25
CV-TEK INC.		THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.		TITLE List of wires by line style	

0	-> L1-MAIN CABINET LOW VOLTAGE CABINET - STANDARD				
1					
2	Origin	Destination	Wire number/ Gauge	Line style	Length (in)
3	IOM809:2	TB2-17C	813 / #18	WR18-AWG RED	41
4	IOM809:3	TB2-18A	815 / #18	WR18-AWG RED	41
5	IOM809:4	TB2-18B	817 / #18	WR18-AWG RED	41
6	IOM809:5	TB2-18C	819 / #18	WR18-AWG RED	41
7	IOM809:6	TB2-19A	821 / #18	WR18-AWG RED	41
8	IOM809:7	TB2-19B	823 / #18	WR18-AWG RED	41
9	IOM809:8	TB2-19C	825 / #18	WR18-AWG RED	41
10	IOM809:9	TB2-20A	827 / #18	WR18-AWG RED	41
11	IOM809:10	TB2-20C	829 / #18	WR18-AWG RED	41
12	IOM809:11	TB2-21A	831 / #18	WR18-AWG RED	41
13	IOM809:12	TB2-21B	833 / #18	WR18-AWG RED	41
14	IOM809:13	TB2-21C	835 / #18	WR18-AWG RED	41
15	IOM809:14	TB2-22A	837 / #18	WR18-AWG RED	41
16	IOM809:15	TB2-22B	839 / #18	WR18-AWG RED	41
17	CR811:A1	TB2-17B	811 / #18	WR18-AWG RED	34
18	CR813:A1	TB2-17C	813 / #18	WR18-AWG RED	34
19	CR815:A1	TB2-18A	815 / #18	WR18-AWG RED	34
20	CR815:14	TB2-23B	815A / #18	WR18-AWG RED	12
21	CR817:A1	TB2-18B	817 / #18	WR18-AWG RED	34
22	CR909:A1	TB2-22C	909 / #18	WR18-AWG RED	0
23	IOM909:0	TB2-22C	909 / #18	WR18-AWG RED	43
24	IOM909:2	TB2-23A	913 / #18	WR18-AWG RED	43
25					

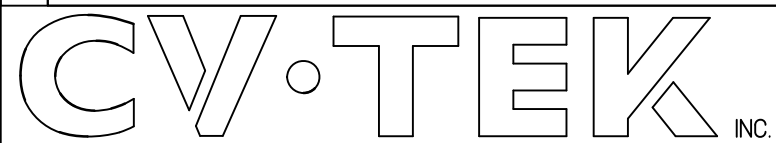
32	L2-HEAD CABINET HMI CABINET - STANDARD				
33					
34	Origin	Destination	Wire number/ Gauge	Line style	Length (in)
35	TB3-10C	TB3-11C	309 / #18	WBL18-AWG BLUE	0
36	HMI340	TB3-13C	309 / #18	WBL18-AWG BLUE (FIELD)	0
37	TB3-10B	TB3-11B	307 / #18	WBR18-AWG BROWN	0
38	HMI340	TB3-13B	307 / #18	WBR18-AWG BROWN (FIELD)	0
39	HMI340	TB3-GND	GND / #16	WG16-AWG GREEN/YELLOW (FIELD)	0
40					

42	L2-HEAD CABINET VALVE CABINET - STANDARD				
43	Origin	Destination	Wire number/ Gauge	Line style	Length (in)
44	CR821:11	TB4-6	314 / #18	WB18-AWG BLACK	0
45	CR913:11	CR823:14	823A / #18	WB18-AWG BLACK	0
46	TB4-5	CR821:A2	309 / #18	WBL18-AWG BLUE	0
47	CR913:A2	TB4-5	309 / #18	WBL18-AWG BLUE	0
48	TB4-5	TB3-15C	309 / #18	WBL18-AWG BLUE (FIELD)	0
49	CR913:21	TB4-4	307 / #18	WBR18-AWG BROWN	0
50					

53	L3-EXTERNAL EQUIPMENT EXTERNAL EQUIPMENT - STANDARD				
54	Origin	Destination	Wire number/ Gauge	Line style	Length (in)
55	DSC204	TB1-1	L1 / #12	WB12-AWG BLACK	0
56	DSC204	TB1-2	L2 / #12	WB12-AWG BLACK	0
57					

LEGEND 250 & 252 = 240 OR 120 VAC 314 = 24 VAC 246 = 24 VAC COMMON 307 = 24 VDC (+) 309 = 24 VDC COMMON (-)	ASSEMBLY: MK3 PLUS		APPROVED ENG:	
	DRAWN BY: DR		DATE: 8/21/2025	REVISION: A
	DWG NO: MK3 PLUS		SHEET: 17 OF 25	
	THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.		TITLE	
			List of wires by line style	

0	-> L3-EXTERNAL EQUIPMENT EXTERNAL EQUIPMENT - STANDARD						
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							
	LEGEND 250 & 252 = 240 OR 120 VAC 314 = 24 VAC 246 = 24 VAC COMMON 307 = 24 VDC (+) 309 = 24 VDC COMMON (-)		ASSEMBLY: MK3 PLUS		APPROVED ENG:		
DRAWN BY: DR			DATE: 8/21/2025		REVISION: A		
DWG NO: MK3 PLUS			SHEET: 18 OF 25				
CV•TEK INC.			THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.	TITLE List of wires by line style			

1	CBL1 - 125488C1 - MAIN/HEAD CABINET INTERCONNECT CABLE						
2							
3	Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
4	1	BK	309	TB2-2C	LOW VOLTAGE CABINET - STANDARD	TB3-1C	HMI CABINET - STANDARD
5	2	RD	307	TB2-2B	LOW VOLTAGE CABINET - STANDARD	TB3-1B	HMI CABINET - STANDARD
6	3	WH	509	TB2-9A	LOW VOLTAGE CABINET - STANDARD	TB3-1A	HMI CABINET - STANDARD
7	4	GN	511	TB2-9B	LOW VOLTAGE CABINET - STANDARD	TB3-2A	HMI CABINET - STANDARD
8	5	OG	513	TB2-9C	LOW VOLTAGE CABINET - STANDARD	TB3-3A	HMI CABINET - STANDARD
9	6	BU	515	TB2-10A	LOW VOLTAGE CABINET - STANDARD	TB3-4A	HMI CABINET - STANDARD
10	7	BN	517	TB2-10B	LOW VOLTAGE CABINET - STANDARD	TB3-5A	HMI CABINET - STANDARD
11	8	YE	523	TB2-11B	LOW VOLTAGE CABINET - STANDARD	TB3-6A	HMI CABINET - STANDARD
12	9	VT	525	TB2-11C	LOW VOLTAGE CABINET - STANDARD	TB3-7A	HMI CABINET - STANDARD
13	10	GY	527	TB2-12A	LOW VOLTAGE CABINET - STANDARD	TB3-8A	HMI CABINET - STANDARD
14	11	PK	609	TB2-14B	LOW VOLTAGE CABINET - STANDARD	TB3-10A	HMI CABINET - STANDARD
15	12	TN	611	TB2-14C	LOW VOLTAGE CABINET - STANDARD	TB3-11A	HMI CABINET - STANDARD
16	13	RD-GN	613	TB2-15A	LOW VOLTAGE CABINET - STANDARD	TB3-12A	HMI CABINET - STANDARD
17	14	RD-YE	615	TB2-15B	LOW VOLTAGE CABINET - STANDARD	TB3-13A	HMI CABINET - STANDARD
18	15	RD-BK	617	TB2-15C	LOW VOLTAGE CABINET - STANDARD	TB3-14A	HMI CABINET - STANDARD
19	16	WH-BK	619	TB2-16A	LOW VOLTAGE CABINET - STANDARD	TB3-15A	HMI CABINET - STANDARD
20	17	WH-RD	621	TB2-16B	LOW VOLTAGE CABINET - STANDARD	TB3-16A	HMI CABINET - STANDARD
21	18	WH-GN	623	TB2-16C	LOW VOLTAGE CABINET - STANDARD	TB3-17A	HMI CABINET - STANDARD
22	19	WH-YE	839	TB2-22B	LOW VOLTAGE CABINET - STANDARD	TB3-19A	HMI CABINET - STANDARD
23	20	WH-BU	GND	TB2-GND2	LOW VOLTAGE CABINET - STANDARD	TB3-GND	HMI CABINET - STANDARD
24	21	WH-BN	819	TB2-18C	LOW VOLTAGE CABINET - STANDARD	TB3-20A	HMI CABINET - STANDARD
25	22	WH-OG	533	TB2-13A	LOW VOLTAGE CABINET - STANDARD	TB3-9A	HMI CABINET - STANDARD
26	23	WH-GY					
27	24	WH-VT					
28	25	WH-BK-RD					
29	26	WH-BK-GN	913	TB2-23A	LOW VOLTAGE CABINET - STANDARD	CR913:A1	VALVE CABINET - STANDARD
30	27	WH-BK-YE	531	TB2-12C	LOW VOLTAGE CABINET - STANDARD	CR913:22	VALVE CABINET - STANDARD
31	28	WH-BK-BU	821	TB2-19A	LOW VOLTAGE CABINET - STANDARD	CR821:A1	VALVE CABINET - STANDARD
32	29	WH-BK-BN	314	TB2-7A	LOW VOLTAGE CABINET - STANDARD	TB4-6	VALVE CABINET - STANDARD
33	30	WH-BK-OG	307	TB2-7B	LOW VOLTAGE CABINET - STANDARD	TB4-4	VALVE CABINET - STANDARD
34	31	WH-BK-GY	823	TB2-20B	LOW VOLTAGE CABINET - STANDARD	TB4-7	VALVE CABINET - STANDARD
35	32	WH-BK-VT	829	TB2-20C	LOW VOLTAGE CABINET - STANDARD	TB4-8	VALVE CABINET - STANDARD
36	33	WH-BK-BK	823	TB2-19B	LOW VOLTAGE CABINET - STANDARD	CR823:A1	VALVE CABINET - STANDARD
37	34	WH-RD-BK	825	TB2-19C	LOW VOLTAGE CABINET - STANDARD	CR825:A1	VALVE CABINET - STANDARD
38	35	WH-RD-RD	827	TB2-20A	LOW VOLTAGE CABINET - STANDARD	CR827:A1	VALVE CABINET - STANDARD
39	36	WH-RD-GN	831	TB2-21A	LOW VOLTAGE CABINET - STANDARD	CR831:A1	VALVE CABINET - STANDARD
40	37	WH-RD-BU	833	TB2-21B	LOW VOLTAGE CABINET - STANDARD	CR833:A1	VALVE CABINET - STANDARD
41	38	WH-RD-BN	835	TB2-21C	LOW VOLTAGE CABINET - STANDARD	CR835:A1	VALVE CABINET - STANDARD
42	39	WH-RD-VT	837	TB2-22A	LOW VOLTAGE CABINET - STANDARD	CR837:A1	VALVE CABINET - STANDARD
43	40	WH-GN-BK	246	TB2-3A	LOW VOLTAGE CABINET - STANDARD	TB4-1	VALVE CABINET - STANDARD
44							
45							
46							
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							
	LEGEND 250 & 252 = 240 OR 120 VAC 314 = 24 VAC 246 = 24 VAC COMMON 307 = 24 VDC (+) 309 = 24 VDC COMMON (-)			ASSEMBLY: MK3 PLUS		APPROVED ENG:	
DRAWN BY: DR				DATE: 8/21/2025		REVISION: A	
DWG NO: MK3 PLUS				SHEET: 19 OF 25			
			THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.		TITLE		
					List of cable cores grouped by cable		

0

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

CBL2 - 0651-1133 - PROBE #1 RAISED SWITCH CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BN	307	LS509	EXTERNAL EQUIPMENT - STANDARD	TB3-1B	HMI CABINET - STANDARD
2	BU	309	LS509	EXTERNAL EQUIPMENT - STANDARD	TB3-1C	HMI CABINET - STANDARD
3	BK	509	LS509	EXTERNAL EQUIPMENT - STANDARD	TB3-1A	HMI CABINET - STANDARD

CBL3 - 0651-1133 - PROBE #2 RAISED SWITCH CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BN	307	LS511	EXTERNAL EQUIPMENT - STANDARD	TB3-2B	HMI CABINET - STANDARD
2	BU	309	LS511	EXTERNAL EQUIPMENT - STANDARD	TB3-2C	HMI CABINET - STANDARD
3	BK	511	LS511	EXTERNAL EQUIPMENT - STANDARD	TB3-2A	HMI CABINET - STANDARD

CBL4 - 0651-1133 - RH BAG STRETCHER UP SWITCH CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BN	307	LS523	EXTERNAL EQUIPMENT - OPTIONAL	TB3-6B	HMI CABINET - STANDARD
2	BU	309	LS523	EXTERNAL EQUIPMENT - OPTIONAL	TB3-6C	HMI CABINET - STANDARD
3	BK	523	LS523	EXTERNAL EQUIPMENT - OPTIONAL	TB3-6A	HMI CABINET - STANDARD

CBL5 - 0651-1133 - LH BAG STRETCHER UP SWITCH CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BN	307	LS525	EXTERNAL EQUIPMENT - OPTIONAL	TB3-7B	HMI CABINET - STANDARD
2	BU	309	LS525	EXTERNAL EQUIPMENT - OPTIONAL	TB3-7C	HMI CABINET - STANDARD
3	BK	525	LS525	EXTERNAL EQUIPMENT - OPTIONAL	TB3-7A	HMI CABINET - STANDARD

CBL6 - 0651-1133 - JAW CLOSED STAGE 1 SWITCH CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BN	307	LS527	EXTERNAL EQUIPMENT - OPTIONAL	TB3-8B	HMI CABINET - STANDARD
2	BU	309	LS527	EXTERNAL EQUIPMENT - OPTIONAL	TB3-8C	HMI CABINET - STANDARD
3	BK	527	LS527	EXTERNAL EQUIPMENT - OPTIONAL	TB3-8A	HMI CABINET - STANDARD

CBL7 - 121782C1 - CYCLE START #1 CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BN	307	PB347	EXTERNAL EQUIPMENT - STANDARD	TB3-12B	HMI CABINET - STANDARD
2	WH	615	PB347	EXTERNAL EQUIPMENT - STANDARD	TB3-13A	HMI CABINET - STANDARD
3	BU	309	PB347	EXTERNAL EQUIPMENT - STANDARD	TB3-12C	HMI CABINET - STANDARD
4	BK	613	PB347	EXTERNAL EQUIPMENT - STANDARD	TB3-12A	HMI CABINET - STANDARD
5	GY	833	PB347	EXTERNAL EQUIPMENT - STANDARD	TB3-18A	HMI CABINET - STANDARD

CBL8 - 121782C1 - CYCLE START #2 CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BN	307	PB348	EXTERNAL EQUIPMENT - STANDARD	TB3-14B	HMI CABINET - STANDARD
2	WH	619	PB348	EXTERNAL EQUIPMENT - STANDARD	TB3-15A	HMI CABINET - STANDARD
3	BU	309	PB348	EXTERNAL EQUIPMENT - STANDARD	TB3-14C	HMI CABINET - STANDARD
4	BK	617	PB348	EXTERNAL EQUIPMENT - STANDARD	TB3-14A	HMI CABINET - STANDARD
5	GY	833	PB348	EXTERNAL EQUIPMENT - STANDARD	TB3-18A	HMI CABINET - STANDARD

LEGEND

250 & 252 = 240 OR 120 VAC
314 = 24 VAC
246 = 24 VAC COMMON

307 = 24 VDC (+)
309 = 24 VDC COMMON (-)

ASSEMBLY: MK3 PLUS

DRAWN BY: DR

DWG NO: MK3 PLUS

APPROVED ENG:

DATE: 8/21/2025

REVISION: A

SHEET: 20 OF 25

CV•TEK INC.

THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.

TITLE

List of cable cores grouped by cable

0

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

CBL9 - 121782C1 - RH BAG STRETCHER RETRACT PROX CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BN	307	PRS513	EXTERNAL EQUIPMENT - OPTIONAL	TB3-3B	HMI CABINET - STANDARD
2	WH					
3	BU	309	PRS513	EXTERNAL EQUIPMENT - OPTIONAL	TB3-3C	HMI CABINET - STANDARD
4	BK	513	PRS513	EXTERNAL EQUIPMENT - OPTIONAL	TB3-3A	HMI CABINET - STANDARD
5	GY					

CBL10 - 121782C1 - LH BAG STRETCHER RETRACT PROX CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BN	307	PRS515	EXTERNAL EQUIPMENT - OPTIONAL	TB3-4B	HMI CABINET - STANDARD
2	WH					
3	BU	309	PRS515	EXTERNAL EQUIPMENT - OPTIONAL	TB3-4C	HMI CABINET - STANDARD
4	BK	515	PRS515	EXTERNAL EQUIPMENT - OPTIONAL	TB3-4A	HMI CABINET - STANDARD
5	GY					

CBL11 - 71607503 - 2ND HI/LO HEAD VALVE CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	821A	CR821:14	VALVE CABINET - STANDARD	V821	VALVE CABINET - OPTIONAL
2	BK2	246	TB4-3	VALVE CABINET - STANDARD	V821	VALVE CABINET - OPTIONAL
3	GN/YE					

CBL12 - 121782C1 - JAW CLOSED PROX CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BN	307	B628	EXTERNAL EQUIPMENT - STANDARD	TB3-16B	HMI CABINET - STANDARD
2	WH	623	B628	EXTERNAL EQUIPMENT - STANDARD	TB3-17A	HMI CABINET - STANDARD
3	BU	309	B628	EXTERNAL EQUIPMENT - STANDARD	TB3-16C	HMI CABINET - STANDARD
4	BK	621	B628	EXTERNAL EQUIPMENT - STANDARD	TB3-16A	HMI CABINET - STANDARD
5	GY					

CBL13 - 121782C1 - VACUUM PRESSURE SENSOR CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BN	307	VS701	EXTERNAL EQUIPMENT - STANDARD	TB2-3B	LOW VOLTAGE CABINET - STANDARD
2	WH	719	VS701	EXTERNAL EQUIPMENT - STANDARD	IOM709:5	LOW VOLTAGE CABINET - STANDARD
3	BU	309	VS701	EXTERNAL EQUIPMENT - STANDARD	TB2-3C	LOW VOLTAGE CABINET - STANDARD
4	BK					
5	GY					

CBL14 - 71607403 - LOW GAS PS CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	307	B701	EXTERNAL EQUIPMENT - OPTIONAL	TB2-4B	LOW VOLTAGE CABINET - STANDARD
2	BK2	519	B701	EXTERNAL EQUIPMENT - OPTIONAL	TB2-10C	LOW VOLTAGE CABINET - STANDARD
3	GN/YE					

LEGEND

250 & 252 = 240 OR 120 VAC
314 = 24 VAC
246 = 24 VAC COMMON

307 = 24 VDC (+)
309 = 24 VDC COMMON (-)

ASSEMBLY: MK3 PLUS

DRAWN BY: DR

DWG NO: MK3 PLUS

APPROVED ENG:

DATE: 8/21/2025

REVISION: A

SHEET: 21 OF 25

CV•TEK

INC.

THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.

TITLE

List of cable cores grouped by cable

0

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

CBL15 - 71607503 - WATER VALVE CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	317	V317	EXTERNAL EQUIPMENT - OPTIONAL	TB2-8A	LOW VOLTAGE CABINET - STANDARD
2	BK2	246	V317	EXTERNAL EQUIPMENT - OPTIONAL	TB2-2A	LOW VOLTAGE CABINET - STANDARD
3	GN/YE					

CBL16 - 71607503 - VACUUM ON VALVE CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	811A	V811	EXTERNAL EQUIPMENT - OPTIONAL	CR811:14	LOW VOLTAGE CABINET - STANDARD
2	BK2	246	V811	EXTERNAL EQUIPMENT - OPTIONAL	TB2-3A	LOW VOLTAGE CABINET - STANDARD
3	GN/YE					

CBL17 - 71607503 - GAS ON VALVE CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	813A	V813	EXTERNAL EQUIPMENT - STANDARD	CR813:14	LOW VOLTAGE CABINET - STANDARD
2	BK2	246	V813	EXTERNAL EQUIPMENT - STANDARD	TB2-4A	LOW VOLTAGE CABINET - STANDARD
3	GN/YE					

CBL18 - 71607503 - AIR PUMP VALVE CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	815A	V815	EXTERNAL EQUIPMENT - OPTIONAL	TB2-23B	LOW VOLTAGE CABINET - STANDARD
2	BK2	246	V815	EXTERNAL EQUIPMENT - OPTIONAL	TB2-5A	LOW VOLTAGE CABINET - STANDARD
3	GN/YE					

CBL19 - 71607503 - GAS 2 VALVE CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	817A	V817	EXTERNAL EQUIPMENT - OPTIONAL	CR817:14	LOW VOLTAGE CABINET - STANDARD
2	BK2	246	V817	EXTERNAL EQUIPMENT - OPTIONAL	TB2-4A	LOW VOLTAGE CABINET - STANDARD
3	GN/YE					

CBL20 - 71607503 - JAW CLOSE STAGE 1 VALVE CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	823B	V823	VALVE CABINET - STANDARD	CR913:14	VALVE CABINET - STANDARD
2	BK2	246	V823	VALVE CABINET - STANDARD	TB4-1	VALVE CABINET - STANDARD
3	GN/YE					

CBL21 - 71607503 - ADVANCE PROBES VALVE CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	825A	V825	VALVE CABINET - STANDARD	CR825:14	VALVE CABINET - STANDARD
2	BK2	246	V825	VALVE CABINET - STANDARD	TB4-1	VALVE CABINET - STANDARD
3	GN/YE					

CBL22 - 71607503 - ADVANCE SEAL BAR VALVE CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	827A	V827	VALVE CABINET - STANDARD	CR827:14	VALVE CABINET - STANDARD
2	BK2	246	V827	VALVE CABINET - STANDARD	TB4-1	VALVE CABINET - STANDARD
3	GN/YE					

LEGEND

250 & 252 = 240 OR 120 VAC
314 = 24 VAC
246 = 24 VAC COMMON

307 = 24 VDC (+)
309 = 24 VDC COMMON (-)

ASSEMBLY: MK3 PLUS

DRAWN BY: DR

DWG NO: MK3 PLUS

APPROVED ENG:

DATE: 8/21/2025

SHEET: 22 OF 25

CV•TEK INC.

THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.

TITLE

List of cable cores grouped by cable

0

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

CBL23 - 71607503 - RH BAG STRETCHER VALVE CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	831A	V831	VALVE CABINET - OPTIONAL	CR831:14	VALVE CABINET - STANDARD
2	BK2	246	V831	VALVE CABINET - OPTIONAL	TB4-2	VALVE CABINET - STANDARD
3	GN/YE					

CBL24 - 71607503 - LH BAG STRETCHER VALVE CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	833A	V833	VALVE CABINET - OPTIONAL	CR833:14	VALVE CABINET - STANDARD
2	BK2	246	V833	VALVE CABINET - OPTIONAL	TB4-2	VALVE CABINET - STANDARD
3	GN/YE					

CBL25 - 71607503 - BAG STRETCHER UP VALVE CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	835A	V835	VALVE CABINET - OPTIONAL	CR835:14	VALVE CABINET - STANDARD
2	BK2	246	V835	VALVE CABINET - OPTIONAL	TB4-2	VALVE CABINET - STANDARD
3	GN/YE					

CBL26 - 71607503 - 3RD BAG STRETCHER UP VALVE CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	837A	V837	VALVE CABINET - OPTIONAL	CR837:14	VALVE CABINET - STANDARD
2	BK2	246	V837	VALVE CABINET - OPTIONAL	TB4-2	VALVE CABINET - STANDARD
3	GN/YE					

CBL27 - 121782C1 - REGULATOR CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BN	307	REG356	VALVE CABINET - OPTIONAL	TB4-4	VALVE CABINET - STANDARD
2	WH	309	REG356	VALVE CABINET - OPTIONAL	TB4-5	VALVE CABINET - STANDARD
3	BU	823	REG356	VALVE CABINET - OPTIONAL	TB4-7	VALVE CABINET - STANDARD
4	BK	829	REG356	VALVE CABINET - OPTIONAL	TB4-8	VALVE CABINET - STANDARD
5	GY					

CBL28 - ETHERNET - COMMUNICATION CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	RJ45	ETH	PLC329:RJ45	LOW VOLTAGE CABINET - STANDARD	HMI340	HMI CABINET - STANDARD

CBL29 - RC14-4 - 14 AWG 4 CONDUCTOR WIRE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	210B	MTR209	HIGH VOLTAGE CABINET - OPTIONAL	OL210	HIGH VOLTAGE CABINET - OPTIONAL
2	BK2	211B	MTR209	HIGH VOLTAGE CABINET - OPTIONAL	OL210	HIGH VOLTAGE CABINET - OPTIONAL
3	BK3	212B	MTR209	HIGH VOLTAGE CABINET - OPTIONAL	OL210	HIGH VOLTAGE CABINET - OPTIONAL
4	GN-YE	GND	MTR209	HIGH VOLTAGE CABINET - OPTIONAL	TB1-GND	HIGH VOLTAGE CABINET - STANDARD

LEGEND

250 & 252 = 240 OR 120 VAC
314 = 24 VAC
246 = 24 VAC COMMON

307 = 24 VDC (+)
309 = 24 VDC COMMON (-)

ASSEMBLY: MK3 PLUS

DRAWN BY: DR

DWG NO: MK3 PLUS

APPROVED ENG:

DATE: 8/21/2025

REVISION: A

SHEET: 23 OF 25

CV•TEK INC.

THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.

TITLE

List of cable cores grouped by cable

0

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

CBL30 - 121838C1 - HEATER RTD CABLE						
Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BN	715	RTD713	EXTERNAL EQUIPMENT - STANDARD	IOM709:3	LOW VOLTAGE CABINET - STANDARD
2	BU	717	RTD713	EXTERNAL EQUIPMENT - STANDARD	IOM709:4	LOW VOLTAGE CABINET - STANDARD
3	BK	713	RTD713	EXTERNAL EQUIPMENT - STANDARD	IOM709:2	LOW VOLTAGE CABINET - STANDARD
4	SHIELD		S717	LOW VOLTAGE CABINET - STANDARD	TB2-GND2	LOW VOLTAGE CABINET - STANDARD
CBL31 - HEATER - HEATER POWER CABLE						
Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	421B	J424	EXTERNAL EQUIPMENT - STANDARD	TB1-13	HIGH VOLTAGE CABINET - STANDARD
2	BK2	424	J424	EXTERNAL EQUIPMENT - STANDARD	TB1-14	HIGH VOLTAGE CABINET - STANDARD
3	GN	GND	J424	EXTERNAL EQUIPMENT - STANDARD	TB1-GND	HIGH VOLTAGE CABINET - STANDARD
CBL32 - 0651-1133 - 3RD BAG STRETCHER UP SWITCH CABLE						
Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BN	307	LS533	EXTERNAL EQUIPMENT - OPTIONAL	TB3-9B	HMI CABINET - STANDARD
2	BU	309	LS533	EXTERNAL EQUIPMENT - OPTIONAL	TB3-9C	HMI CABINET - STANDARD
3	BK	533	LS533	EXTERNAL EQUIPMENT - OPTIONAL	TB3-9A	HMI CABINET - STANDARD
CBL33 - RC18-3 - POWER SUPPLY CABLE						
Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	307A	PS304:V+	HIGH VOLTAGE CABINET - STANDARD	F307	LOW VOLTAGE CABINET - STANDARD
2	BK2	309	PS304:V-	HIGH VOLTAGE CABINET - STANDARD	TB2-1C	LOW VOLTAGE CABINET - STANDARD
3	GN-YE					
CBL34 - RC18-3 - COOLING FAN CABLE						
Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	307	FAN322	EXTERNAL EQUIPMENT - OPTIONAL	TB2-1B	LOW VOLTAGE CABINET - STANDARD
2	BK2	309	FAN322	EXTERNAL EQUIPMENT - OPTIONAL	TB2-1C	LOW VOLTAGE CABINET - STANDARD
3	GN-YE					
CBL35 - RC18-3 - WATER PUMP CR CABLE						
Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	314	CR815A:53	HIGH VOLTAGE CABINET - OPTIONAL	TB2-6A	LOW VOLTAGE CABINET - STANDARD
2	BK2	317	CR815A:54	HIGH VOLTAGE CABINET - OPTIONAL	TB2-8A	LOW VOLTAGE CABINET - STANDARD
3	GN-YE					
CBL36 - RC18-3 - VACUUM PUMP PROOF CABLE						
Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	307	CR815A:13	HIGH VOLTAGE CABINET - OPTIONAL	TB2-4B	LOW VOLTAGE CABINET - STANDARD
2	BK2	521	CR815A:14	HIGH VOLTAGE CABINET - OPTIONAL	TB2-11A	LOW VOLTAGE CABINET - STANDARD
3	GN-YE					
CBL37 - RC18-3 - HEATER ENABLED CABLE						
Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	809	SSR809:A1	HIGH VOLTAGE CABINET - STANDARD	TB2-17A	LOW VOLTAGE CABINET - STANDARD
2	BK2	309	SSR809:A2	HIGH VOLTAGE CABINET - STANDARD	TB2-8C	LOW VOLTAGE CABINET - STANDARD
3	GN-YE	GND	TB1-GND	HIGH VOLTAGE CABINET - STANDARD	TB2-GND2	LOW VOLTAGE CABINET - STANDARD

LEGEND 250 & 252 = 240 OR 120 VAC 314 = 24 VAC 246 = 24 VAC COMMON	ASSEMBLY: MK3 PLUS		APPROVED ENG:	
	DRAWN BY: DR		DATE: 8/21/2025	REVISION: A
	DWG NO: MK3 PLUS		SHEET: 24 OF 25	

CV•TEK INC.	THIS DRAWING IS THE PROPERTY OF CV-TEK INC. AND IS TO BE CONSIDERED CONFIDENTIAL. USE OR REPRODUCTION WITHOUT THE EXPRESS PERMISSION OF THE COMPANY IS STRICTLY PROHIBITED.	TITLE
		List of cable cores grouped by cable

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

CBL38 - RC18-3 - VACUUM PUMP OL CABLE

Number	Core Description	Wire Tag	Origin	Origin Location	Destination	Destination Location
1	BK1	815A	OL210:95	HIGH VOLTAGE CABINET - OPTIONAL	TB2-23B	LOW VOLTAGE CABINET - STANDARD
2	BK2	246	CR815A:A2	HIGH VOLTAGE CABINET - OPTIONAL	TB2-5A	LOW VOLTAGE CABINET - STANDARD
3	GN-YE					

LEGEND

250 & 252 = 240 OR 120 VAC
314 = 24 VAC
246 = 24 VAC COMMON

307 = 24 VDC (+)
309 = 24 VDC COMMON (-)

ASSEMBLY: MK3 PLUS

DRAWN BY: DR

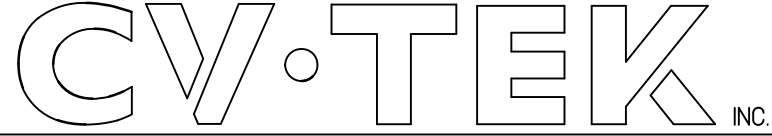
DWG NO: MK3 PLUS

APPROVED ENG:

DATE: 9/5/2025

REVISION: A

SHEET: 25 OF 25



THIS DRAWING IS THE PROPERTY OF CV-TEK INC.
AND IS TO BE CONSIDERED CONFIDENTIAL.
USE OR REPRODUCTION WITHOUT THE
EXPRESS PERMISSION OF THE COMPANY IS
STRICTLY PROHIBITED.

TITLE

List of cable cores grouped by cable

Corr-Vac® Mark III Plus+

1. OVERVIEW OF TYPICAL MAIN CABINET.

2. VACUUM/GAS FLUSH MANIFOLD PARTS.

Many drawings show a "typical" assembly. Always compare your machine with the drawings. If your machine is different from the drawings, you can select the necessary parts from the FITTINGS sections of this manual.

3. VACUUM PUMPS (INCLUDING FILTERS AND COOLING SYSTEMS).

4. PNEUMATIC PARTS.

The table at the back of this section shows the correct electrical and pneumatic fittings needed for each Mac valve, in each machine model. For example, if you are looking for the pneumatic fittings to go on solenoid valve No. 2, on a Mark IV with Micro-Controller, first turn to the drawing and parts list for PNEUMATIC SOLENOID VALVE.

Ref. No. C is 14, which is CV-TEK part No. 74204201. Ref.

No. D is 12 (74204601) and 13 (74203801).

5. FITTINGS.

This section includes full-sized templates for each size of pipe, tubing, or fittings.

You will then find drawings of each kind of fittings, with available sizes.

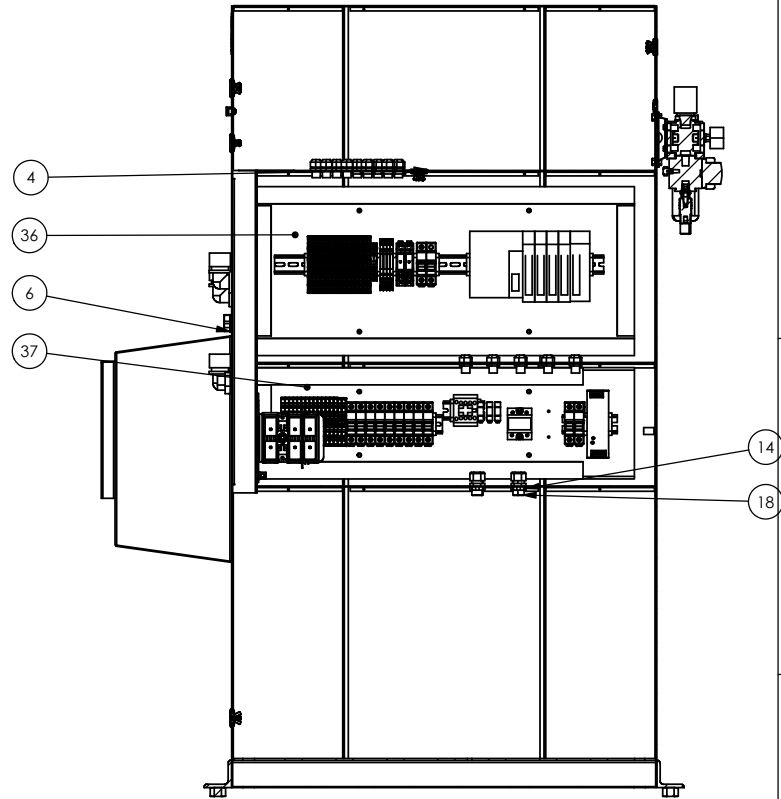
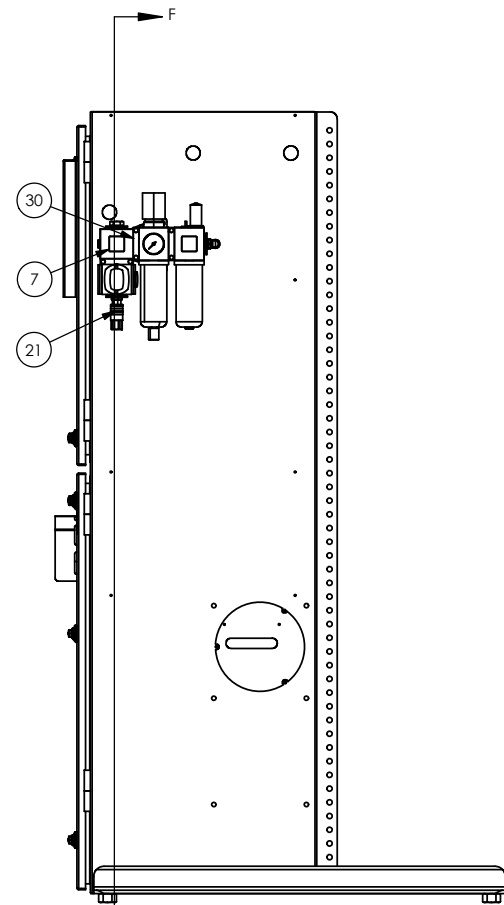
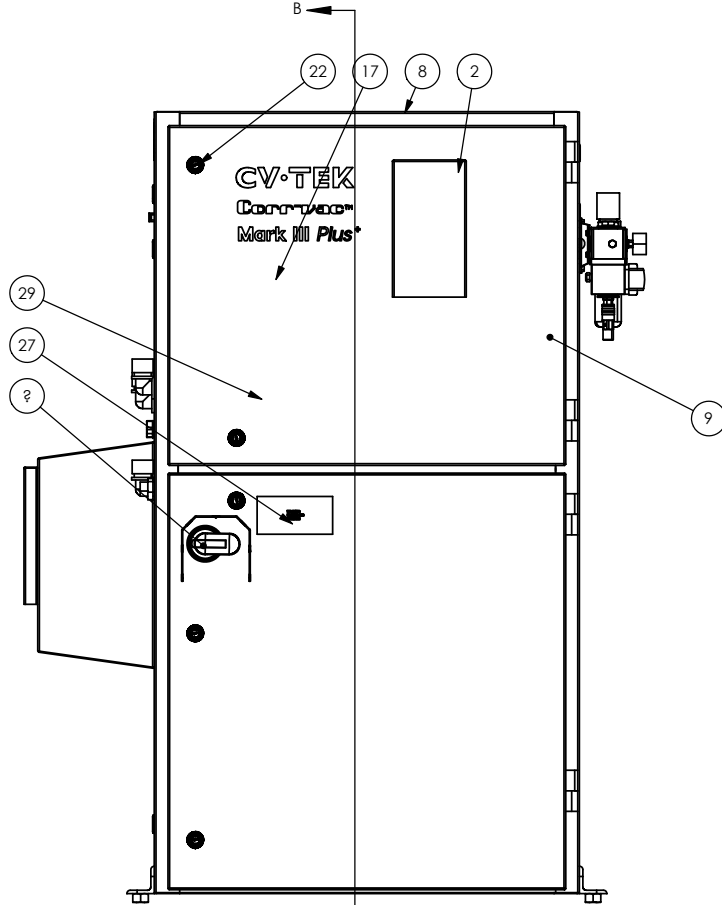
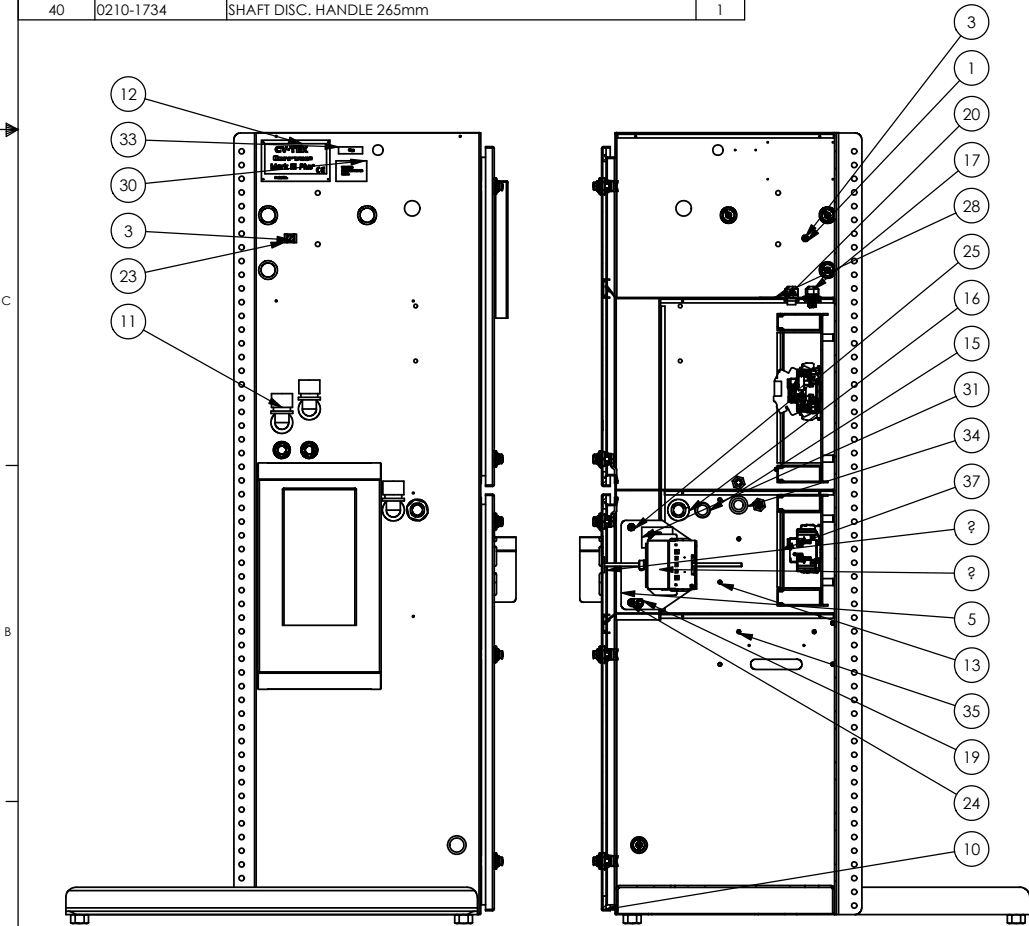
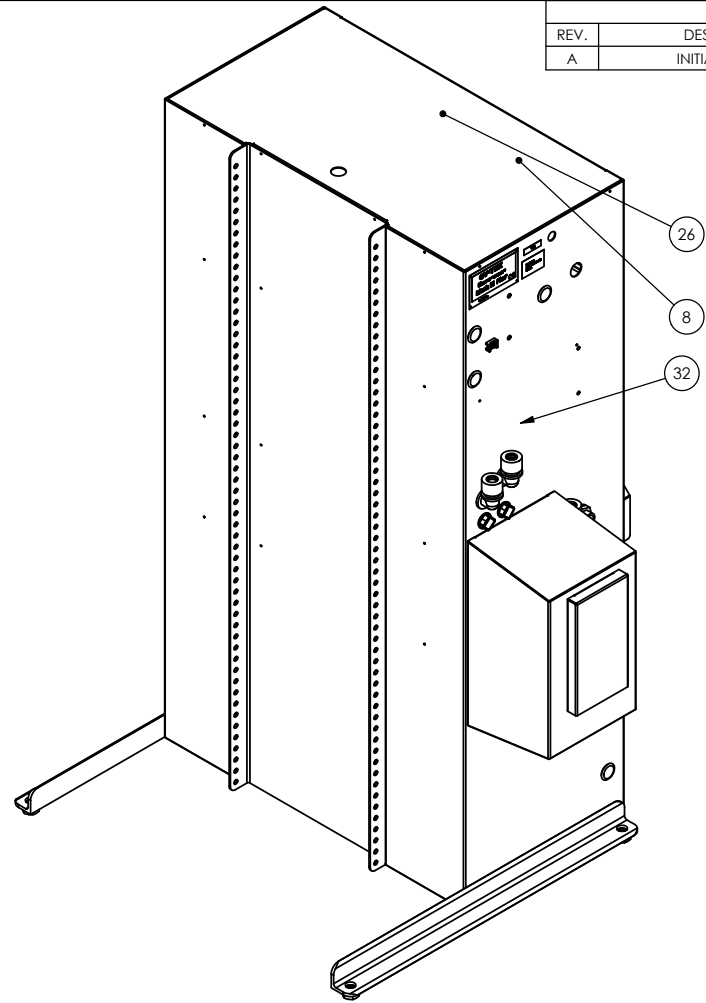
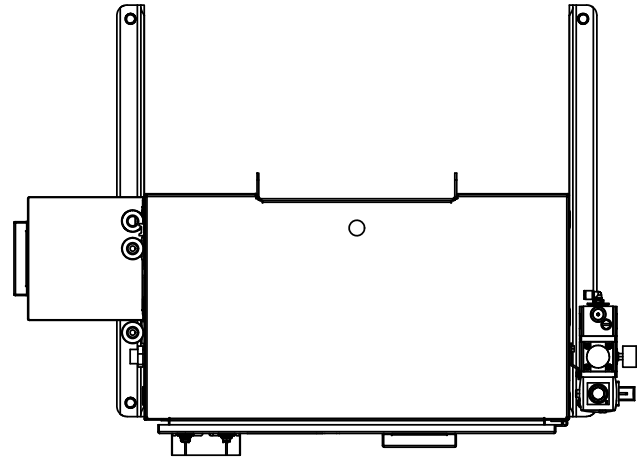
6. ELECTRICAL CONTROL PARTS.

7. CONTROL BOX PARTS.

8. HEAD PARTS.

9. MISCELLANEOUS.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	0013011	1/4-20 HEX JAM NUT SS	1
2	110519C1	1/4-20 X 3/8 Hex Head Cap Screw	4
3	110624C1	1/4-20 x 3/8 PAN HEAD SCREW	1
4	122266C1	HOLE SEAL, 1/2", S/S	8
5	141184C1	DISCONNECT MOUNT BRACKET	1
6	126102C1	ICOTEK QVT 20 SPLIT CORD GRIP	2
7	129809C1	MARK III / MAPVAC FRL ASSEMBLY	1
8	140392C1	PYLON, MK III PLUS	1
9	113066C2 LV	LV DOOR SEAL	1
10	113066C2 HV	HV DOOR SEAL	1
11	140661C1	CORD GRIP .625-.750 3/4 90DEG	1
12	140751C1	CV-TEK CORR-VAC MKIII PLUS NAME PLATE	1
13	140792C1	COVER - TRANSFORMER - WELDMENT	1
14	71601401	1/2 NPT SEALING NUT	2
15	71604701	CORD GRIP 0.250-.375 3/4 90 DEG CE RATED	2
16	71604901	CORD GRIP, .375-.437, 3/4 WOOD	1
17	71605001	CORD GRIP GREY 3/8 NPT STANDARD DIAMETER GROMMENT	16
18	71605201	CORD GRIP, .35 - .47 DIA., 1/2 NPT GREY	2
19	71605701	GROUND LUG, COPPER 1-4, 1/4 SCREW	1
20	71607301	3/8 NPT CONDUIT SQUARE LOCKNUT	5
21	74300301	1/4F PARKER COUPLER	1
22	75002801A	CAB DOOR LATCH 1/4 TURN HYGIENIC MIDD	5
23	75003001	CABLE TIE MOUNTING BASE, 1/4 SCREW SIZE, PANDUIT #TM3S25-C	1
24	75103801	1/4-20 HEX NUT, SS	2
25	75118001	1/4 FLAT WASHER (.281 I.D. x .500 O.D. x .078 THK.)	2
26	76203201	DOOR VENT COVER, HI- OXYGEN MK III/MK IV, WELDMENT	2
27	79000601	CAUTION LABEL FOR WIRES	1
28	79001101	DECAL, PROGRAM 1-4 WRITE-ON	4
29	79001501	DECAL24 VAC COMPONENTS	1
30	79002301	WARNING COMPRESSED AIR LABEL	2
31	79002401	ELECTRICAL HAZARD LABEL	1
32	79002501	WARNING HAZARDOUS VOLTAGE LABEL	1
33	79200501	NAME PLATE GAS 1/2 X 1-3/4	1
34	110605C1	Grommet .688 ID .078 Groove	1
35	MA110-0035	MK3 ALTRAN POWER ASSEMBLY	1
36	MA110-0052	BASE MKIII PLUS ELECTRICAL PANEL - LV	1
37	MA110-0053	BASE MKIII PLUS ELECTRICAL PANEL - HV	1
38	7707-2744	DISCONNECT HANDLE 6MM	1
39	141135C1	DISCONNECT SWITCH, FUSED, UL	1
40	0210-1734	SHAFT DISC, HANDLE 265mm	1



SECTION B-B

MATERIAL: SEE NOTE
STOCK NO: SEE BOM
STOCK SIZE: SEE BOM
MASS [LBS]: 376.36

FINISH:

UNLESS OTHERWISE SPECIFIED:
1. BREAK ALL SHARP CORNERS
2. TOLERANCES:
FRACT.= ±1/64 .XXX= ±.005
.XX= ±.015 .XXXX= ±.0005
ANGLES= ±0°30'
DRILLED HOLE: STANDARD S.A.E.

CV-TEK
440 S MCLEAN BLVD. ELGIN, ILL. 60123
PHONE: 847.741.3500 | WWW.CV-TEK.COM

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.

DRAWN
adejkovic

DATE
2025-07-02

SCALE
1:7

SHEET
1 OF 1

MK3 PLUS BASE
MACHINE

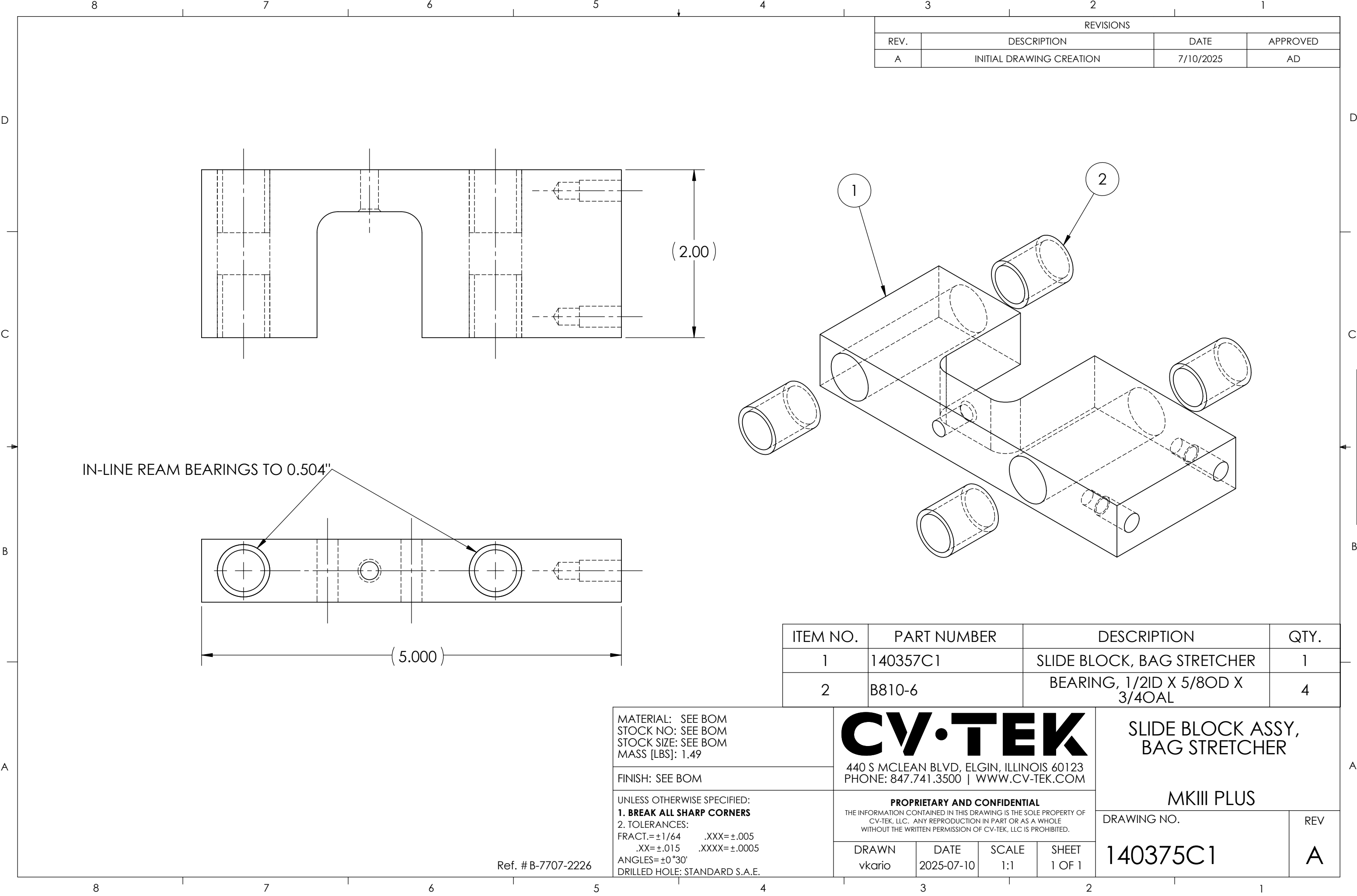
DRAWING NO.

MA080-0018

REV

A

MA080-0018 REV-A



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL DRAWING CREATION	7/10/2025	AD

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	140357C1	SLIDE BLOCK, BAG STRETCHER	1
2	B810-6	BEARING, 1/2ID X 5/8OD X 3/4OAL	4

MATERIAL: SEE BOM
STOCK NO: SEE BOM
STOCK SIZE: SEE BOM
MASS [LBS]: 1.49

FINISH: SEE BOM

UNLESS OTHERWISE SPECIFIED:
1. **BREAK ALL SHARP CORNERS**
2. TOLERANCES:
FRACT.=±1/64 .XXX=±.005
.XX=±.015 .XXXX=±.0005
ANGLES=±0°30'
DRILLED HOLE: STANDARD S.A.E.

CV•TEK
440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123
PHONE: 847.741.3500 | WWW.CV-TEK.COM

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.

DRAWN
vkario

DATE
2025-07-10

SCALE
1:1

SHEET
1 OF 1

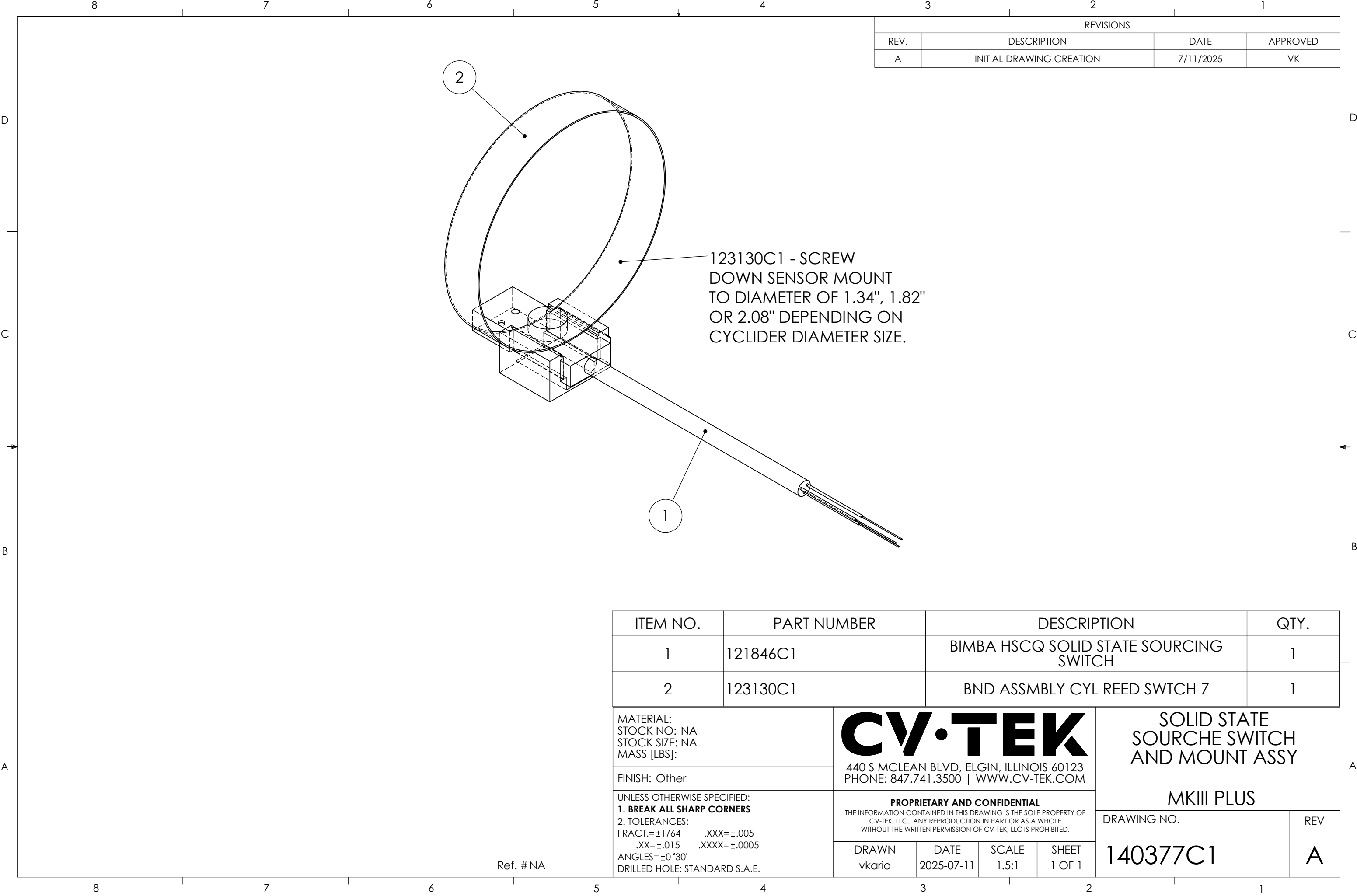
SLIDE BLOCK ASSY,
BAG STRETCHER

MKIII PLUS

DRAWING NO.
140375C1

REV
A

Ref. #B-7707-2226



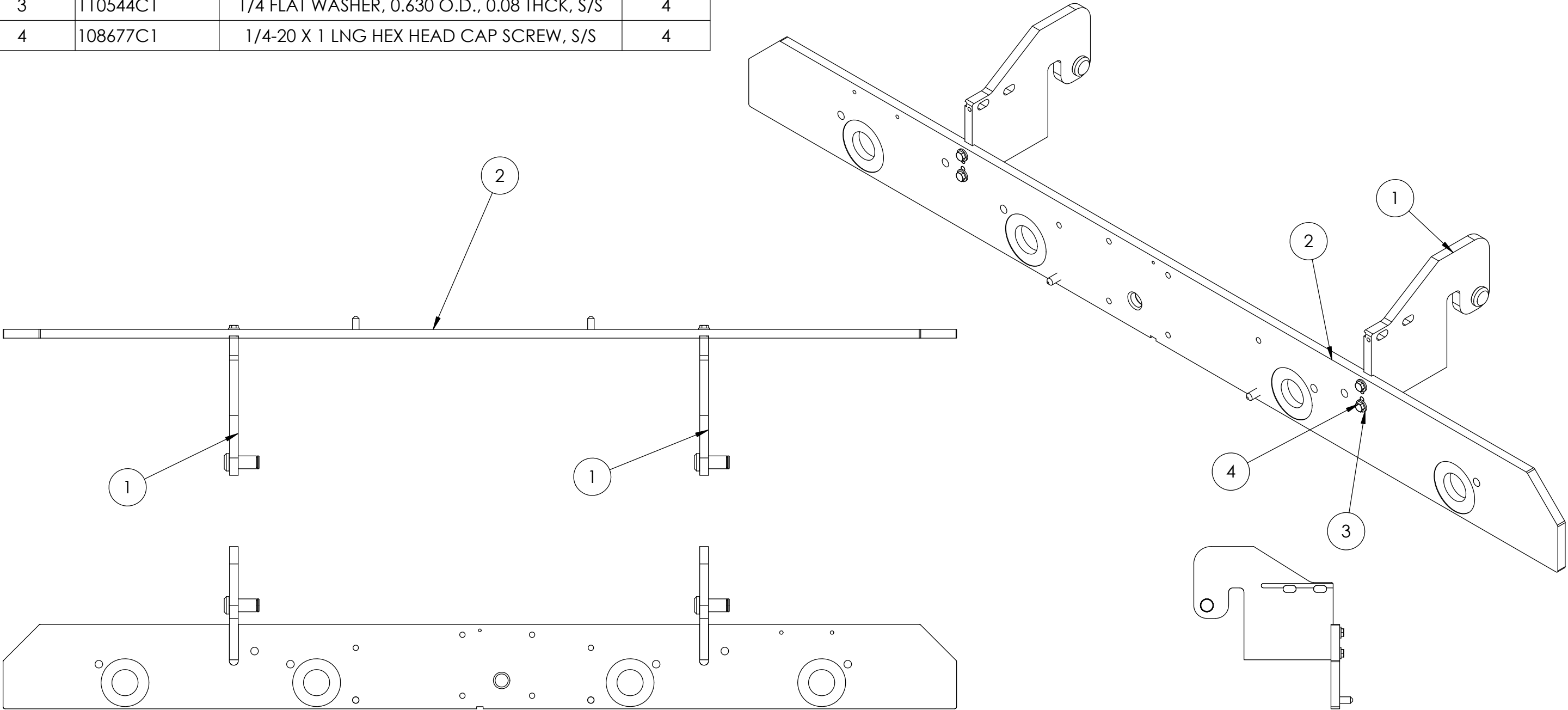
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL DRAWING CREATION	7/11/2025	VK

123130C1 - SCREW
DOWN SENSOR MOUNT
TO DIAMETER OF 1.34", 1.82"
OR 2.08" DEPENDING ON
CYCLIDER DIAMETER SIZE.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	121846C1	BIMBA HSCQ SOLID STATE SOURCING SWITCH	1
2	123130C1	BND ASSMBLY CYL REED SWITCH 7	1
MATERIAL: STOCK NO: NA STOCK SIZE: NA MASS [LBS]: FINISH: Other		CV•TEK 440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123 PHONE: 847.741.3500 WWW.CV-TEK.COM	
UNLESS OTHERWISE SPECIFIED: 1. BREAK ALL SHARP CORNERS 2. TOLERANCES: FRACT.=±1/64 .XXX=±.005 .XX=±.015 .XXXX=±.0005 ANGLES=±0°30' DRILLED HOLE: STANDARD S.A.E.		SOLID STATE SOURCHE SWITCH AND MOUNT ASSY	
		MKIII PLUS	
Ref. #NA		DRAWING NO.	
		140377C1	
		REV	
		A	

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	140666C1	BUTTRESS WELDMENT	2
2	140382C1	FRAME PLATE WITH PINS	1
3	110544C1	1/4 FLAT WASHER, 0.630 O.D., 0.08 THCK, S/S	4
4	108677C1	1/4-20 X 1 LNG HEX HEAD CAP SCREW, S/S	4

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



NOTES:
FINISH: THE FRAME PLATE WITH LOCATING PINS, AND TWO BUTTRESSES WITH BUTTRESS PINS, ARE ELECTRO POLISHED PRIOR TO ASSEMBLY. REFER TO 8610091- 54" FRAME PLATE AND BUTTRESS DRAWING
BREAK AND DEBURR ALL EDGES AND CORNERS
MATERIAL: STAINLESS STEEL; REFER TO DETAIL DRAWINGS

MATERIAL: SEE BOM
STOCK NO: SEE BOM
STOCK SIZE: SEE BOM
MASS [LBS]: 46.91

FINISH:

UNLESS OTHERWISE SPECIFIED:
1. **BREAK ALL SHARP CORNERS**
2. TOLERANCES:
FRACT.=±1/64 .XXX=±.005
.XX=±.015 .XXXX=±.0005
ANGLES=±0°30'
DRILLED HOLE: STANDARD S.A.E.

CV·TEK
440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123
PHONE: 847.741.3500 | WWW.CV-TEK.COM

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.

DRAWN adejkovic	DATE 2025-07-07	SCALE 1:5	SHEET 1 OF 1
--------------------	--------------------	--------------	-----------------

FRAME PLATE
ASSEMBLY

DRAWING NO.

140665C1

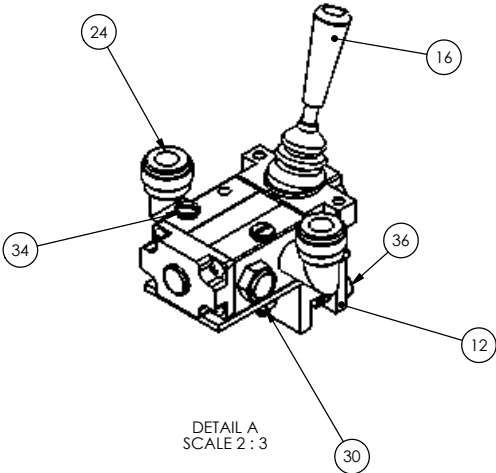
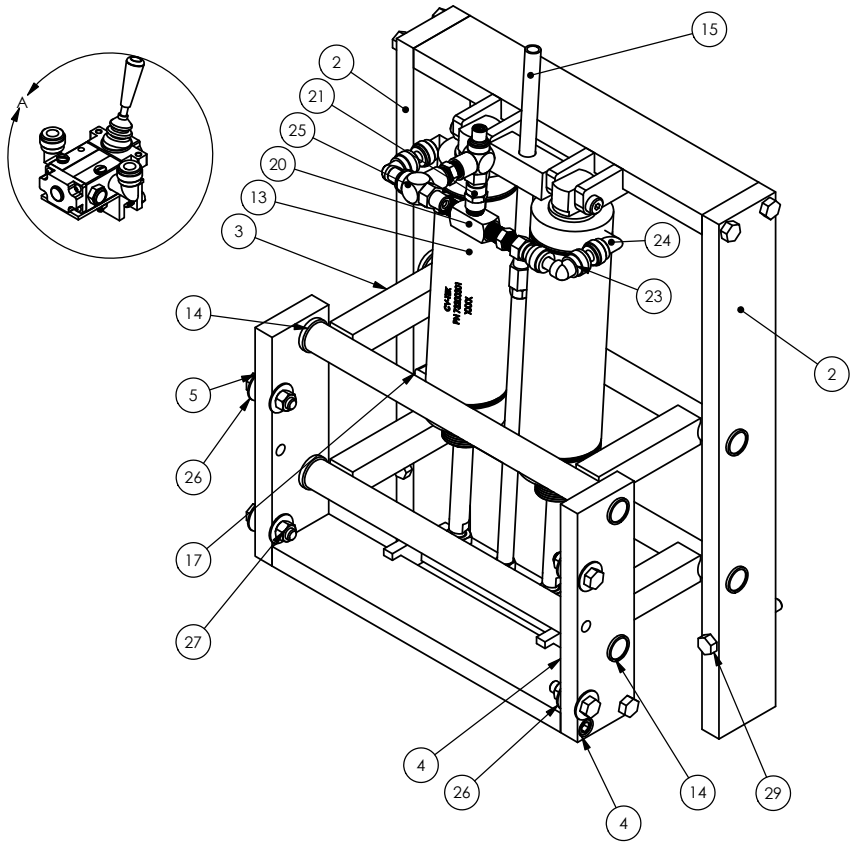
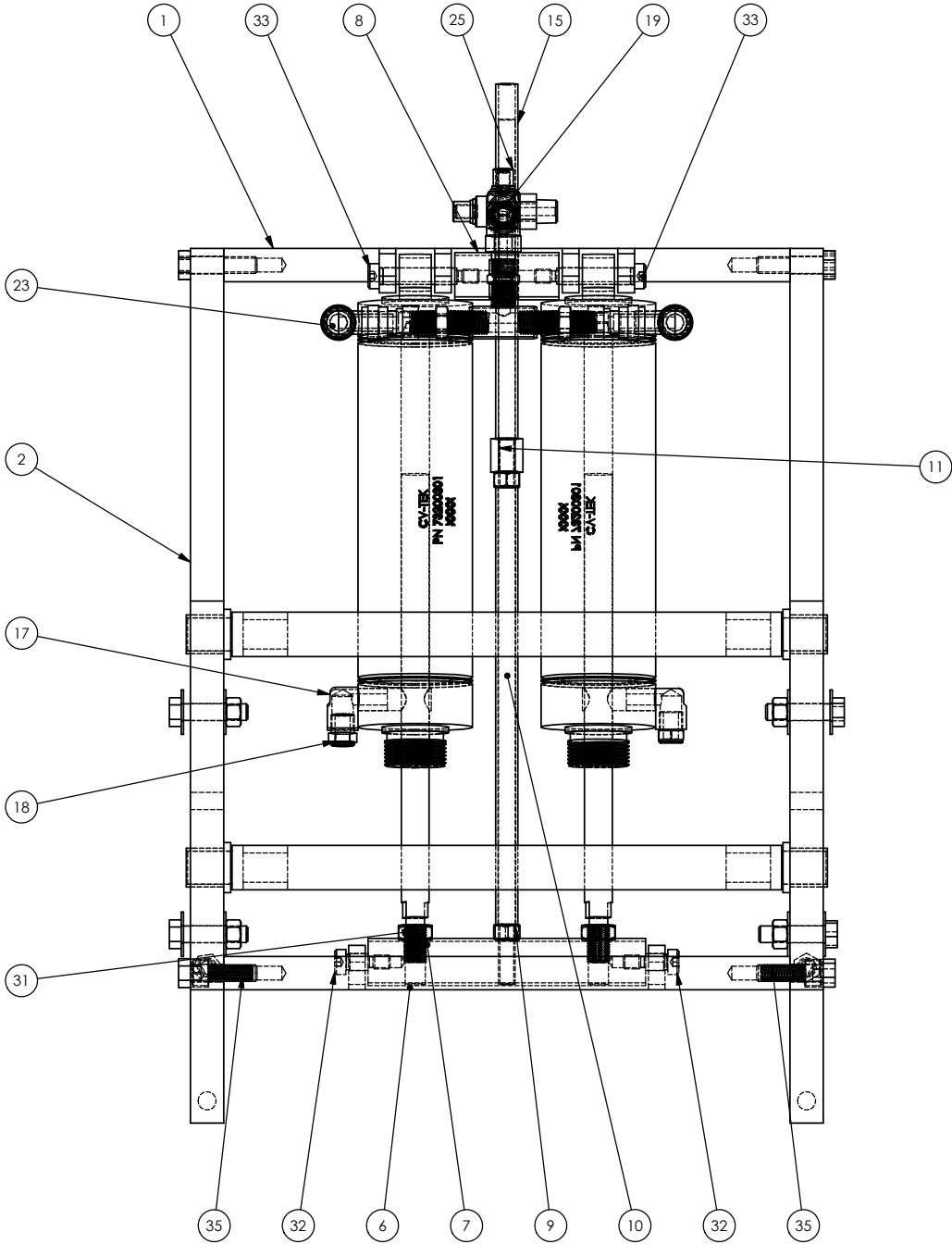
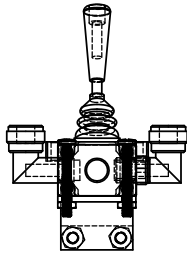
REV

A

140665C1

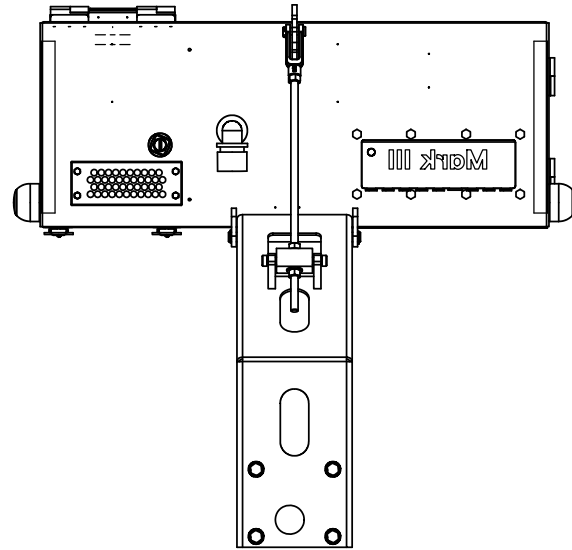
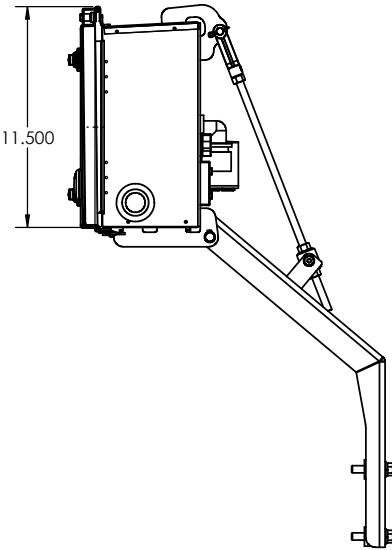
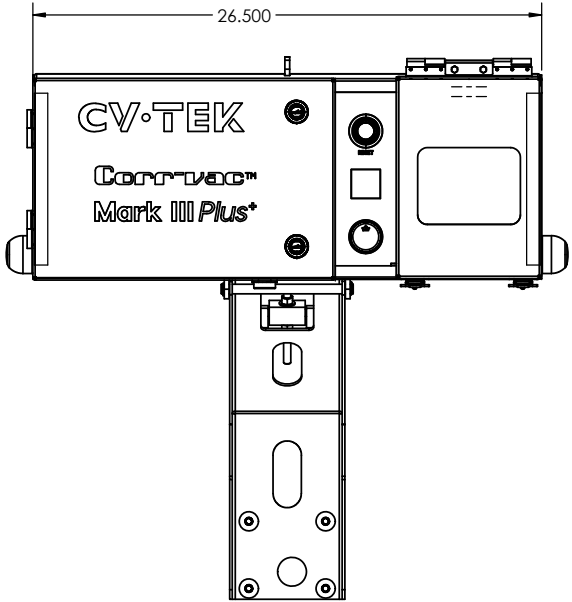
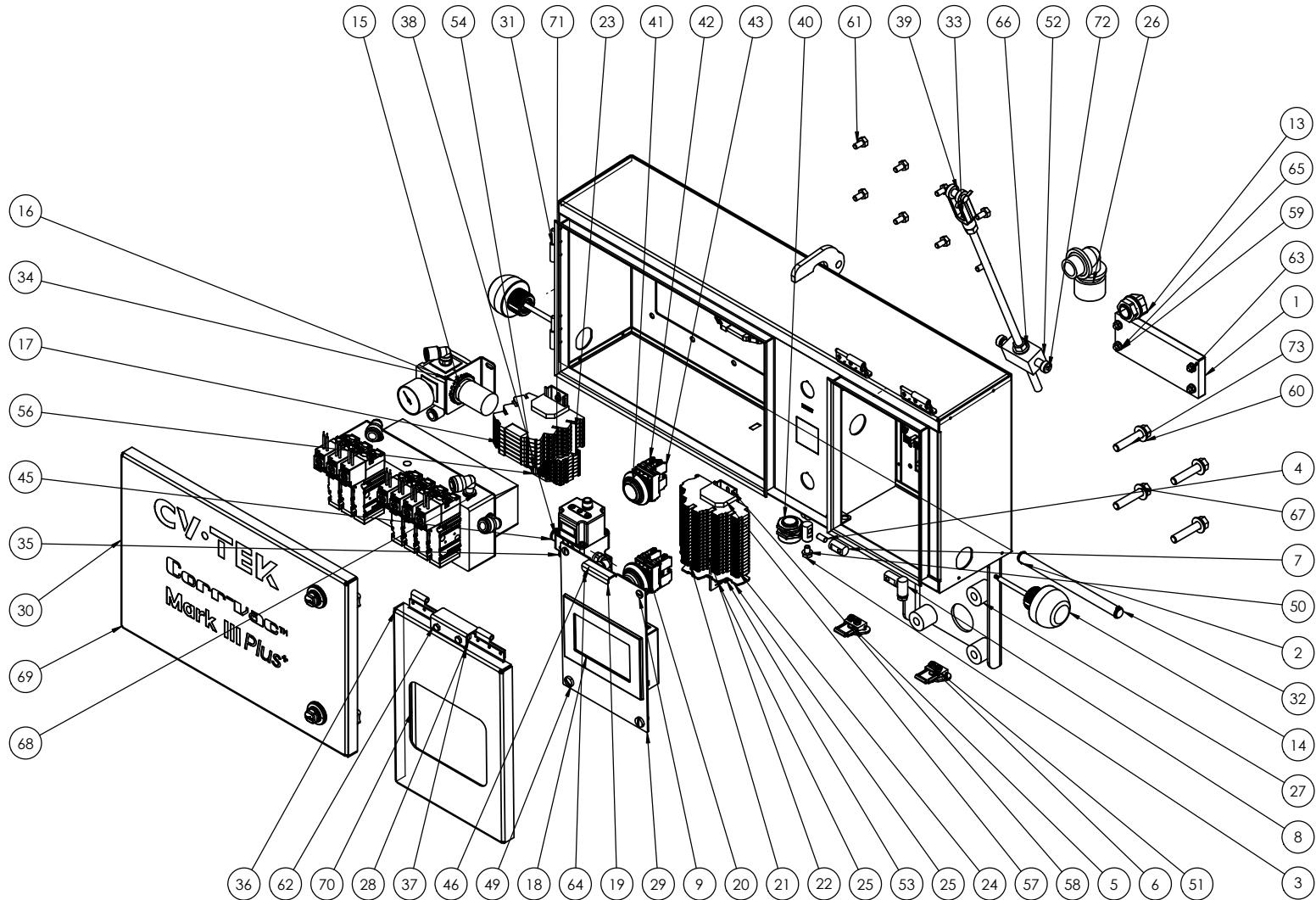
REV A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	76123601	UPPER CYLINDER MOUNTING FRAME HI-LO HEAD	1
2	76107601	FRAME, HEAD MOUNT, HI-LO HEAD	2
3	76107501	PARALLEL LINK HI-LO HEAD	2
4	76107702	FRAME, HI-LO HEAD MARK III/IV PYLON MOUNT LEFT HAND	1
5	76107802	FRAME, HI-LO HEAD MARK III/IV PYLON MOUNT RIGHT HAND	1
6	76123701	LOWER CYLINDER MOUNTING FRAME HI-LO HEAD	1
7	76123501	CYLINDER ROD TRUNNION, HI-LO HEAD	1
8	76123401	STOP ROD TRUNION HI-LO HEAD	1
9	76118201	THREADED ROD FOR HI-LO HEAD	1
10	76108001	SUPPORT TUBE HI-LO HEAD	1
11	76109201	ROD STOP NUT HI-LO HEAD	1
12	76109701	JOYSTICK MTG. BRACKET	1
13	73200301	CYLINDER; HI-LO HD	2
14	79100101	BUSHING, BRONZE 3/4 ID X 7/8 OD	8
15	73300301	TUBING 1/2 OD NYLON	1
16	73101501	Schrader Bellows joystick control valve, with internal spring	1
17	74304401	1/4 street elbow; ext.-long	2
18	74300101	1/4 NPT BREATHER VENT	3
19	74303701	1/4 NPT hex nipple - long	3
20	74306301	1/4 MALE BRANCH TEE EXTRUDED	1
21	74301101	1/4 FEMALE HEX COUPLING	1
22	74204301	3/8 OD TUBE x 1/4 NPT FEMALE CONNECTOR, PLASTIC	2
23	74204001	3/8 X 3/8 plug in el.; plastic	2
24	74204201	3/8 OD TUBE X 1/4 NPT MALE FIXED ELBOW, PLASTIC	4
25	73501101	Flow control; 1/4 NPT; Bimba	2
26	FW3/8-A	WASHER, FLAT	8
27	HN3/8-16	NUT, HEX.	6
28	HH3/8-16X1-1/2	SCREW, HEX HEAD	10
29	HBOLT 0.3750-16x3x1-N	SCREW, HEX HEAD	2
30	HN10-32	NUT, HEX	2
31	JN1/2-20	NUT, JAM	2
32	75104701	3/8 X 1/2 SHOULDER BOLT	2
33	75104801	3/8 X 1-3/4 SHOULDER BOLT	2
34	75114801	10-32X1-1/2 SLOTTED PAN HEAD	2
35	75108401	3/8-16 X 1 SOCKET HEAD CAP SCREW, S/S	2
36	75106601	1/4-28 UNF X 1/2 LG. HHCS	2



MATERIAL: SEE BOM STOCK NO: SEE BOM STOCK SIZE: SEE BOM MASS [LBS]: 72.78841448		CV·TEK 440 S MCLEAN BLVD. ELGIN, ILLINOIS 60123 PHONE: 847.741.3500 WWW.CV-TEK.COM		MK3 HILO HEAD MOUNT WITH JOYSTICK ASSEMBLY	
FINISH: SEE BOM		UNLESS OTHERWISE SPECIFIED: 1. BREAK ALL SHARP CORNERS 2. TOLERANCES: FRACT.= ±1/64 .XXX= ±.005 .XX= ±.015 .XXXX= ±.0005 ANGLES= ±0°30' DRILLED HOLE: STANDARD S.A.E.		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CV·TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CV·TEK, LLC IS PROHIBITED.	
DRAWN AD	DATE 07/15/2025	SCALE 1:2	SHEET 1 OF 1	DRAWING NO. MA015-0018	REV A

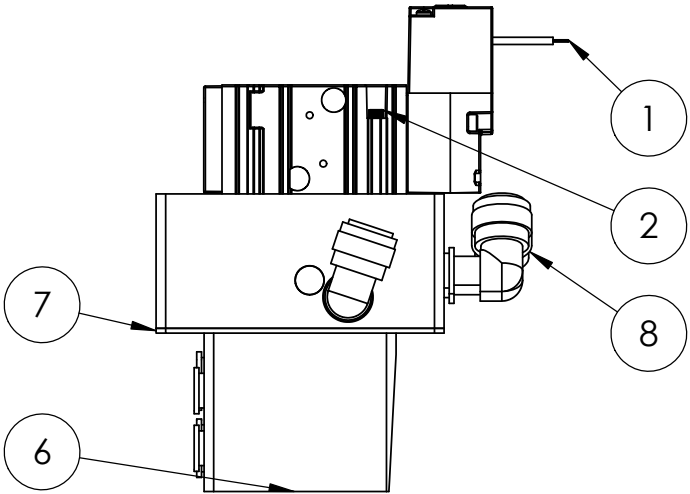
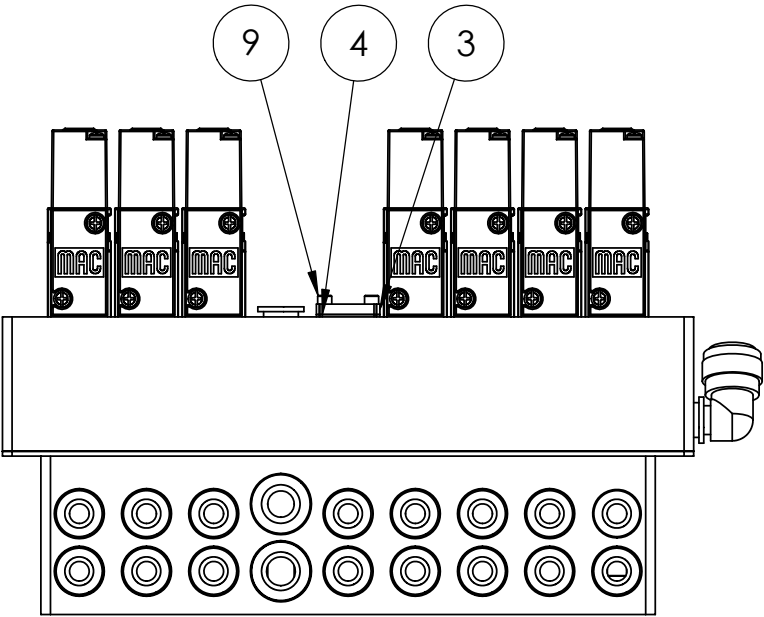
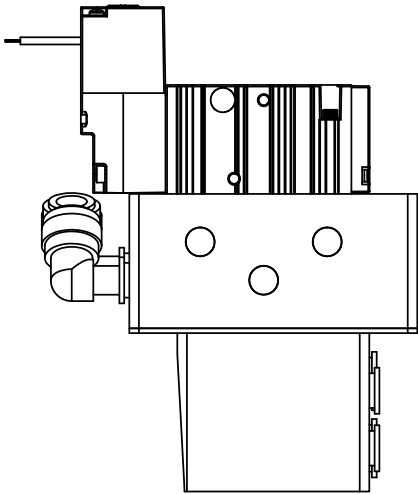
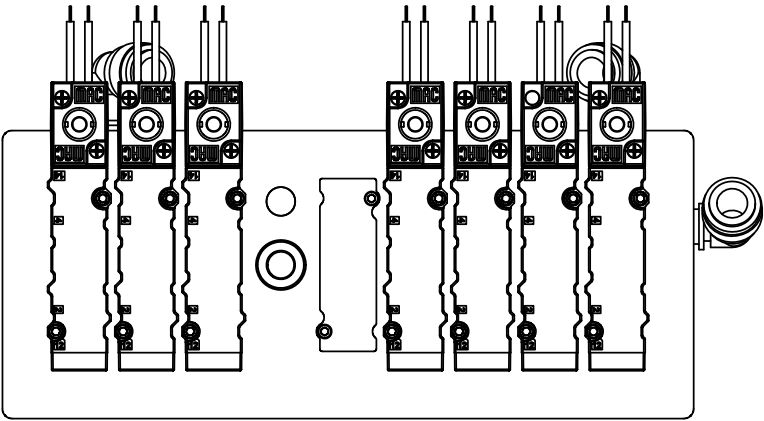
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	0214400-1-A	CABLE ENTRY PLATE, ICOTEK 43715 (42 X 3.2)	1
2	109177C1	EXT RETAINING RING 1/2 SHAFT	2
3	110519C1	1/4-20 X 3/8 HEX HEAD CAP SCREW	2
4	113517C1	1/4 X 1/2 DOWEL PIN	2
5	120144C1	SOUTHCO DRAW LATCH S/S	2
6	120401C1	6-32 X 3/8 PAN HEAD SEALING SCREW	4
7	122088C1	MK3 DISPLAY BOX HINGE FLAG	2
8	122089C1	MK3 DISPLAY BOX HINGE POST	2
9	122091C1	MK3 HMI PANEL LATCH	2
10	122092C1	CLIP ON QUARTER TURN DZUZ PLATE	2
11	122093C1	QUARTER TURN DZUZ RETAINER	2
12	122095C1	QUARTER TURN WEAR WASHER	2
13	126102C1	ICOTEK QVT 20 SPLIT CORD GRIP	1
14	126512C1	TOUCH BUTTON	2
15	129647C1	AVENTICS 651 REGULATOR	1
16	129919C1	651 REGULATOR NUT RING	1
17	131934C1	MINIATURE SWITCHING RELAY	8
18	140641C1	AB OPTIX HMI, 4INCH	1
19	140643C1	E-STOP	1
20	140644C1	NC CONTACT BLOCK	2
21	140648C1	TERMINAL BLOCK JUMPER, 2-POLE	1
22	140656C1	TERMINAL BLOCK JUMPER, 10-POLE	4
23	140870C1	WAGO JUMPER 8 POS 18A GRAY	2
24	140658C1	SPRING TERMINAL BLOCK, 3-TIER	20
25	140659C1	TERMINAL BLOCK END PLATE, ORANGE	1
26	140661C1	CORD GRIP .625-.750 3/4 90DEG	1
27	140685C1	MKIII PLUS ECLOSURE FIXED MOUNT WELDMENT	1
28	140688C1	MKIII PLUS HMI DOOR WELDMENT	1
29	140690C1	MKIII PLUS HMI MOUNT	1
30	140691C1	MKIII PLUS VALVES ENCLOSURE DOOR WELDMENT	1
31	140700C1	MKIII PLUS FRONT ENCLOSURE WELDMENT	1
32	140702C1	MKIII PLUS DISPLAYBOX TILT SHAFT	1
33	140703C1	MKIII PLUS DISPLAYBOX TILT ROD	1
34	140704C1	MKIII PLUS DISPLAYBOX REGULATOR BRACKET	1
35	140705C1	MKIII PLUS ELECTRONIC REGULATOR BRACKET	1
36	140706C1	MKIII PLUS HMI DOOR WINDOW	1
37	140707C1	MKIII PLUS HMI DOOR STOP	1
38	140717C1	SMC ELECTRONIC REGULATOR 1/4 NPT	1
39	140718C1	CLEVIS ROD END 3/8-16	1
40	140740C1	ENCLOSURE DRAIN VENT SS	1
41	140818C1	HYGIENIC YELLOW BUTTON	1
42	140819C1	NO CONTACT BLOCK	1
43	140820C1	LIGHT TERMINAL BLOCK	1
44	140821C1	LIGHT BULB	1
45	268P-06-04	FITTING.TBG.STR.3/8OD X 1/4NPT	1
46	269P-06-04	FITTING.TBG.ELB.3/8OD X 1/4NPT	3
47	71612701	GROMMET GRAY 1/2-5/8 CORD, 3/4 GRIP	1
48	75002801A	CAB DOOR LATCH 1/4 TURN HYGIENIC MIDD	2
49	75106001	1/4-20X1/2 PAN HEAD MACHINE SCREW, SLOTTED S/S	2
50	75110201	1/4 FLAT WASHER	2
51	75200401	6-32 HEX NUT S/S	4
52	76109001	STOP ROD TRUNION HI-LO HEAD	1
53	7707-3224	4-PT CLAMPING GROUND TERM BLOCK	1
54	7707-3225	4-PT CLAMPING TERM BLOCK	8
55	7707-3227	END PLATE, TERM BLOCK	2
56	7707-3232-3	JUMPER BAR, 3-POLE	1
57	7707-3233	END STOP	4
58	DIN RAIL	DIN RAIL, 5.00	2
59	FW10-B	WASHER, FLAT	4
60	FW3/8-C	WASHER, FLAT	6
61	HH1/4-20X1/2	SCREW, HEX HEAD	8
62	HH10-24X1/2	SCREW, HEX HEAD	2
63	HH10-32X7/8	SCREW, HEX HEAD	4
64	HMM4X0.7X10	HEX HEAD, METRIC	4
65	HN10-32	NUT, HEX	4
66	HN3/8-16	NUT, HEX.	3
67	LW3/8	WASHER, LOCK	4
68	MA020-0117	MKIII PLUS MANIFOLD VALVES ASSEMBLY	1
69	113066C2	DOOR SEAL	1
70	113066C2	DOOR SEAL	1
71	PH8-32X3/8	SCREW, PAN HEAD	6
72	SHSSCREW 0.375X0.5-N		2
73	HEX BOLT .AI	SCREW, HEX HEAD	4



MATERIAL: SEE BOM STOCK NO: SEE BOM STOCK SIZE: SEE BOM MASS [LBS]: 47.83		CV·TEK 440 S MCLEAN BLVD. ELGIN, ILLINOIS 60123 PHONE: 847.741.3500 WWW.CV-TEK.COM		MKIII PLUS DISPLAY BOX	
FINISH:					
UNLESS OTHERWISE SPECIFIED: 1. BREAK ALL SHARP CORNERS 2. TOLERANCES: FRACT.= ±1/64 .XXX= ±.005 .XX= ±.015 .XXXX= ±.0005 ANGLES= ±0°30' DRILLED HOLE: STANDARD S.A.E.					
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.					
DRAWN cllonta/admin		DATE 2025-06-19		SCALE 1:5	SHEET 1 OF 1
DRAWING NO. MA020-0116				REV A	

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	114224C3	MAC SMALL 4-WAY AIR VALVE 400	7
2	120283C1	4-40 X 1-1/4 SOCKET HEAD CAP	14
3	120336C1	VALVE MANIFOLD BLOCK PLATE	1
4	120337C1	VALVE MANIFOLD BLOCK GASKET	1
5	125307C1	400 SERIES VALVE GASKET	7
6	140720C1	MKIII PLUS VALVES MANIFOLD ASSEMBLY	1
7	140793C1	MKIII PLUS VALVES MANIFOLD GASKET	1
8	74204001	3/8 X 3/8 PLUG IN EL.; PLASTIC	3
9	SH4-10X3/8	SCREW, SOCKET HEAD	2

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

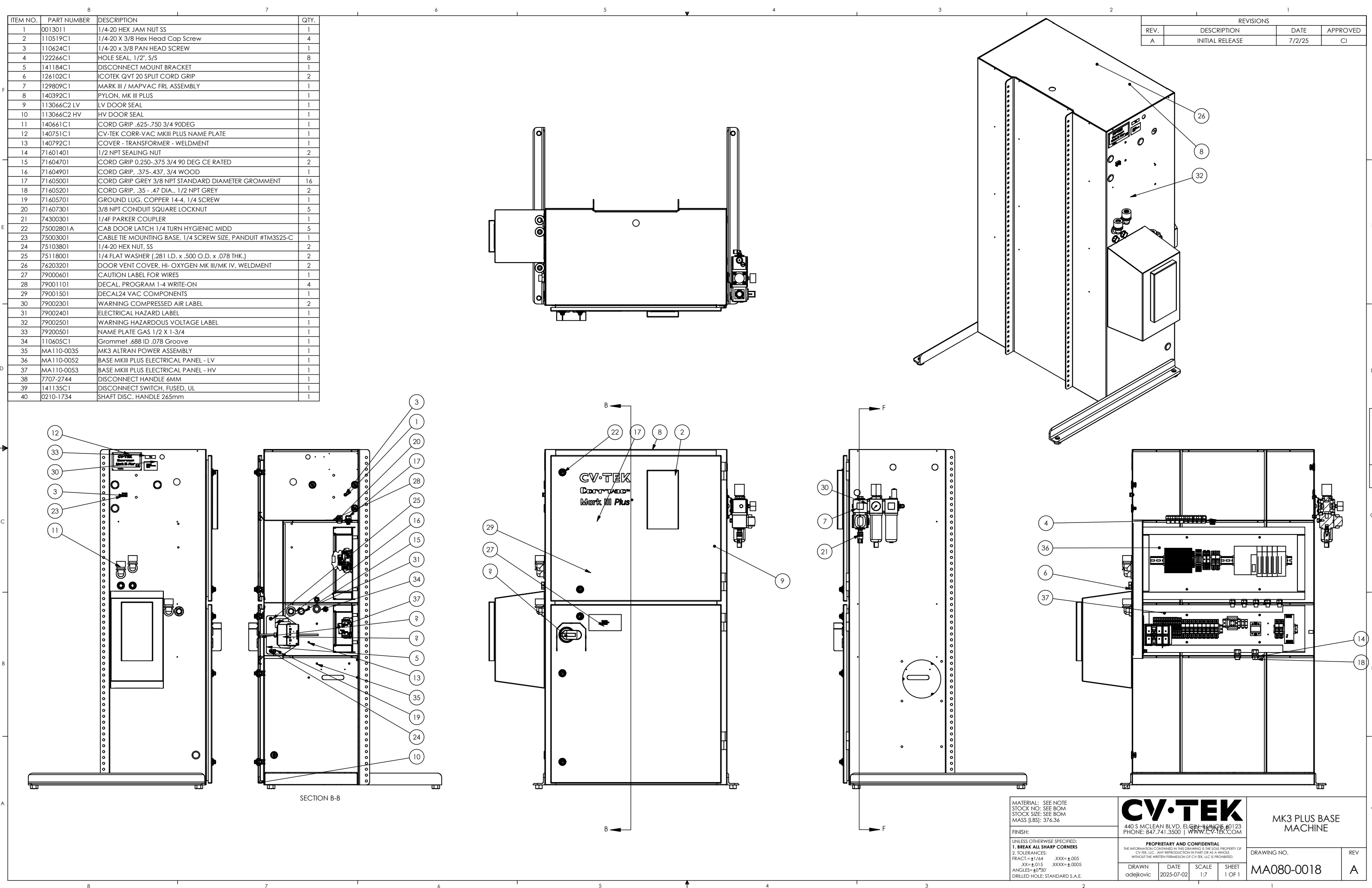


MATERIAL: STOCK NO: STOCK SIZE: MASS [LBS]: 6.25
FINISH:
UNLESS OTHERWISE SPECIFIED: 1. BREAK ALL SHARP CORNERS 2. TOLERANCES: FRACT.=±1/64 .XXX=±.005 .XX=±.015 .XXXX=±.0005 ANGLES=±0°30' DRILLED HOLE: STANDARD S.A.E.

CV·TEK 440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123 PHONE: 847.741.3500 WWW.CV-TEK.COM			
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.			
DRAWN CI	DATE 2025-07-10	SCALE 1:2.5	SHEET 1 OF 1

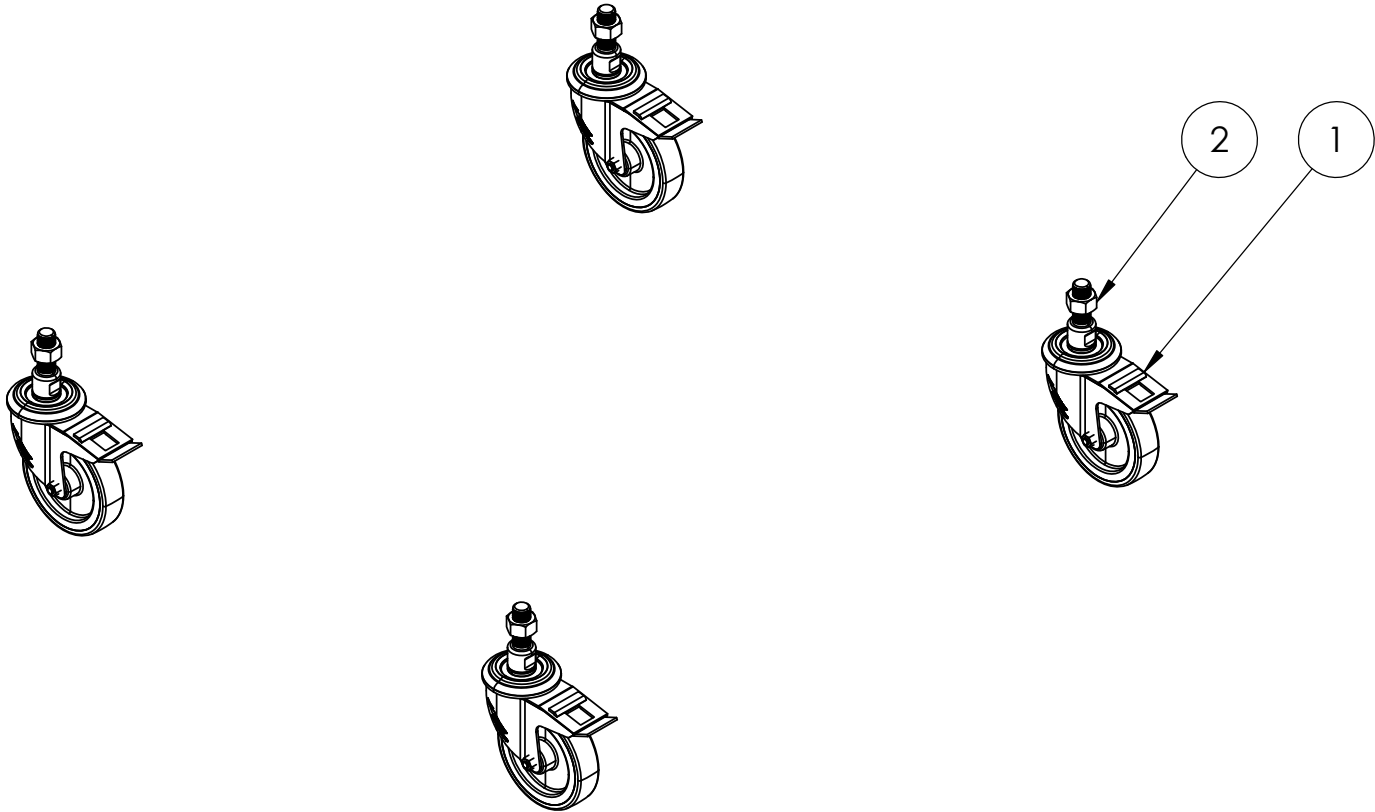
MKIII PLUS MANIFOLD VALVES ASSEMBLY	
MKIII PLUS	
DRAWING NO. MA020-0117	REV A

MA020-0117
REV A



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	79201902	CASTER; 5" WHEEL 3/4-10 X 2" STEM	4
2	75104501	3/4-10 UNC HEX NUT	4

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/02/2018	CI



Ref. #

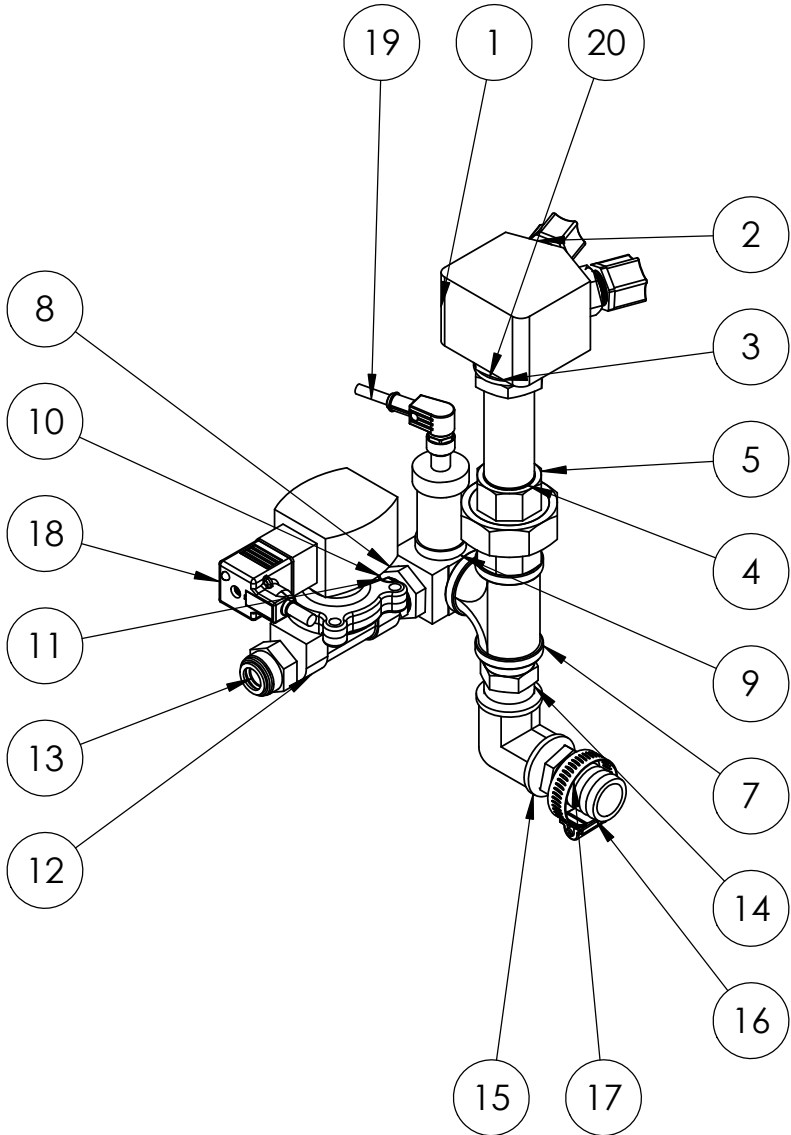
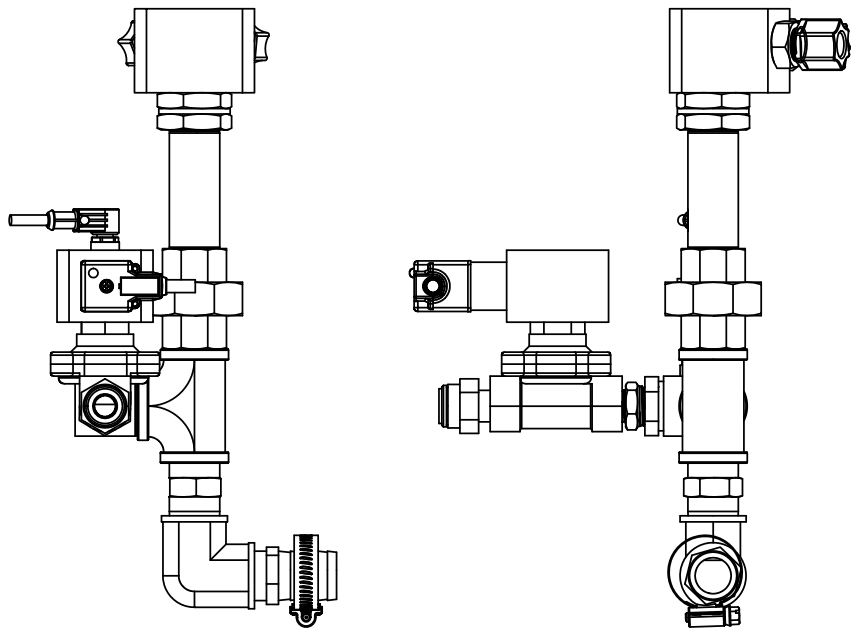
MATERIAL: STOCK NO: STOCK SIZE: MASS [LBS]:
FINISH:
UNLESS OTHERWISE SPECIFIED: 1. BREAK ALL SHARP CORNERS 2. TOLERANCES: FRACT.=±1/64 .XXX=±.005 .XX=±.015 .XXXX=±.0005 ANGLES=±0°30' DRILLED HOLE: STANDARD S.A.E.

CV•TEK 440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123 PHONE: 847.741.3500 WWW.CV-TEK.COM			
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.			
DRAWN adejkovic	DATE 2025-05-16	SCALE 1:8	SHEET 1 OF 1

CASTER ASSEMBLY 4X	
MARK III	
DRAWING NO. MA082-0001	REV A

MA082-0001
REV A

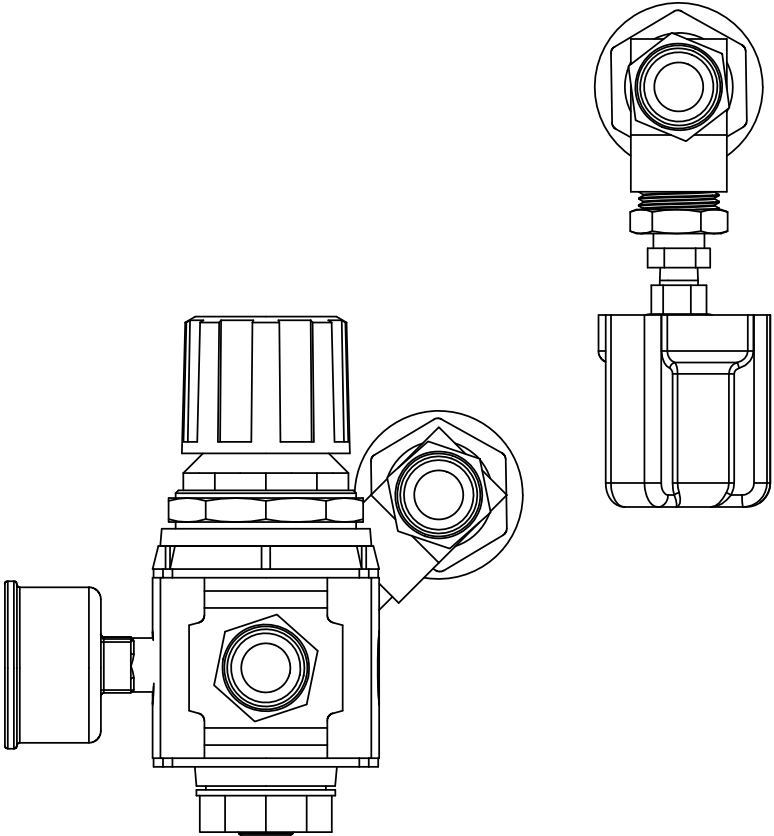
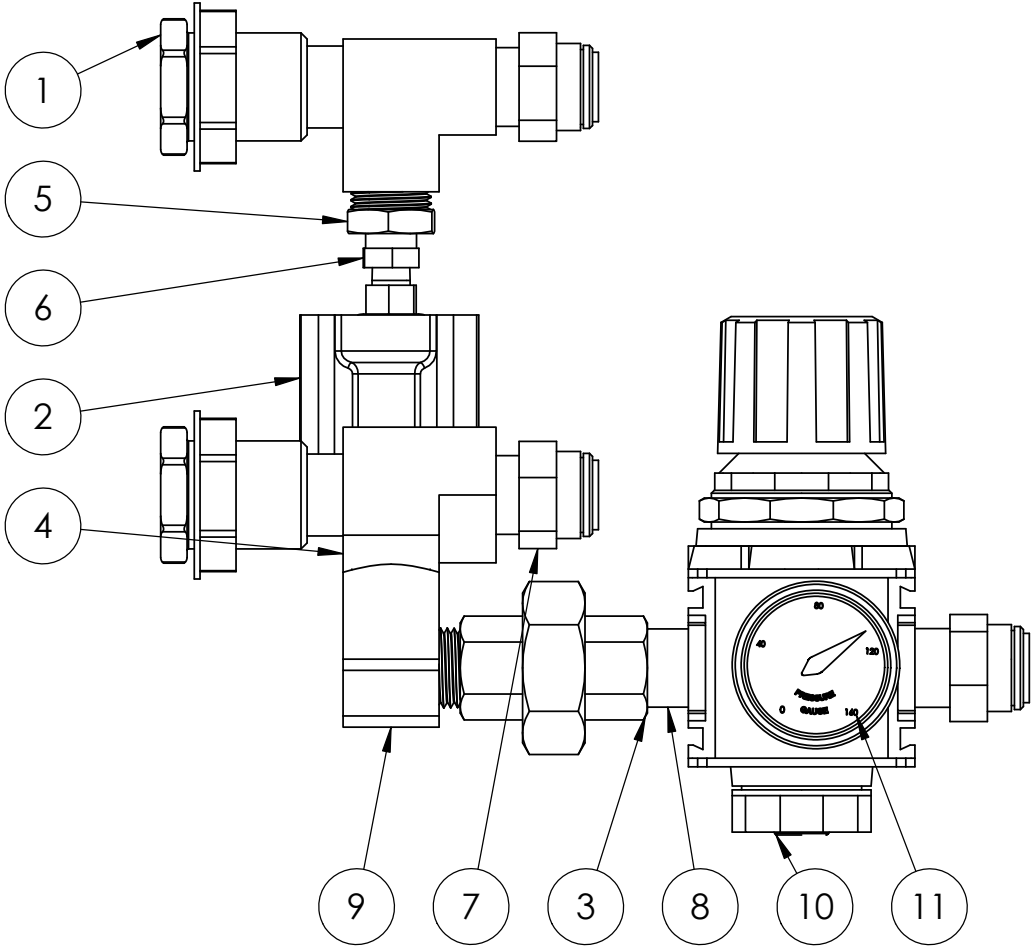
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	140680C1	MKIII PLUS VACUUM Y HORIZONTAL	1
2	74200601	1/2 X 1/2 JACO MALE CONN.	2
3	74303001	3/4 LOCKNUT; BRASS; EXTRUDED	2
4	74305701	3/4 X 4 NIPPLE W/2-1/2 EXTENDED THREAD ON ONE END, BRASS	1
5	74301501	3/4 UNION; CAST	1
6	74303401	3/4 CLOSE NIPPLE	1
7	74300901	3/4 FEM. TEE; FORGED	1
8	74304601	3/4 STREET ELBOW; EXTRUDED	1
9	121302C1	ASHCROFT VACUUM SENSOR	1
10	74302401	3/4M X 1/2F HEX HEAD BUSHING	1
11	74303601	1/2M X 3/8M HEX REDUCER NIPPLE	1
12	73103701	ASCO VALVE 3/8 NPT BRASS N.C. 24 VAC	1
13	74203101	1/2 OD TUBE X 3/8 NPT MALE CONN. PLASTIC	1
14	74304101	3/4 NPT HEX NIPPLE, BRASS	1
15	74300701	3/4 FEM. ELBOW; FORGED	1
16	74103301	1 X 3/4 NPT MALE HOSE BARB	1
17	75001701	HOSE CLAMP; #16 WORM GEAR S/S	1
18	71607403	ASCO VALVE PLUG CABLE 18mm 3M	1
19	121501C1	M12 5-5 PIN 90DEGREE 1.5METER BLACK CABLE (FOR ASHCROFT)	1
20	71601101	3/4 SEAL RING	1



MATERIAL: SEE BOM STOCK NO: SEE BOM STOCK SIZE: SEE BOM MASS [LBS]: 8.47	CV•TEK 440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123 PHONE: 847.741.3500 WWW.CV-TEK.COM	VACUUM CONTROL PIPING OPTION FOR GAS FLUSH				
FINISH: AS NOTED						
UNLESS OTHERWISE SPECIFIED: 1. BREAK ALL SHARP CORNERS 2. TOLERANCES: FRACT.=±1/64 .XXX=±.005 .XX=±.015 .XXXX=±.0005 ANGLES=±0°30' DRILLED HOLE: STANDARD S.A.E.	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.		MKIII PLUS			
	DRAWN adejkovic	DATE 2025-07-09		SCALE 1:4	SHEET 1 OF 1	DRAWING NO. MA101-0022

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	74300401	1/2 NPT X 1 1/2 BULK HEAD COUPLING	2
2	63100301	HOBBS PRESSURE SWITCH ASSEMBLY	1
3	74301401	1/2 UNION, MACHINED	1
4	74306102	1/2 MALE RUN TEE, EXTRUDED BRASS	2
5	74307801	1/2M X 1/4F PIPE BUSHING	1
6	74302501	1/4 NPT MALE X 1/8 NPT FEMALE HEX HEAD BUSHING	1
7	110556C1	1/2 NPT AMLE X 1/2 STEM ADAPTER SWIVEL	3
8	74303301	1/2 NPT CLOSE NIPPLE	2
9	110828C1	1/2 NPT 90 DEG BRASS ELBOW	1
10	7707-2974	REGULATOR, COMPACT, 1/2" NPT	1
11	7501-162	GAUGE.PRESSURE.0.25NPT	1

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



MATERIAL:
STOCK NO:
STOCK SIZE:
MASS [LBS]:

FINISH:

UNLESS OTHERWISE SPECIFIED:
1. BREAK ALL SHARP CORNERS
2. TOLERANCES:
FRACT.=±1/64 .XXX=±.005
.XX=±.015 .XXXX=±.0005
ANGLES=±0°30'
DRILLED HOLE: STANDARD S.A.E.

CV•TEK

440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123
PHONE: 847.741.3500 | WWW.CV-TEK.COM

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.

DRAWN CI	DATE 2025-07-16	SCALE 1:2	SHEET 1 OF 1
-------------	--------------------	--------------	-----------------

GAS PRESSURE
REGULATOR AND
PIPING 1/2

MKIII PLUS

DRAWING NO.

MA101-0023

REV

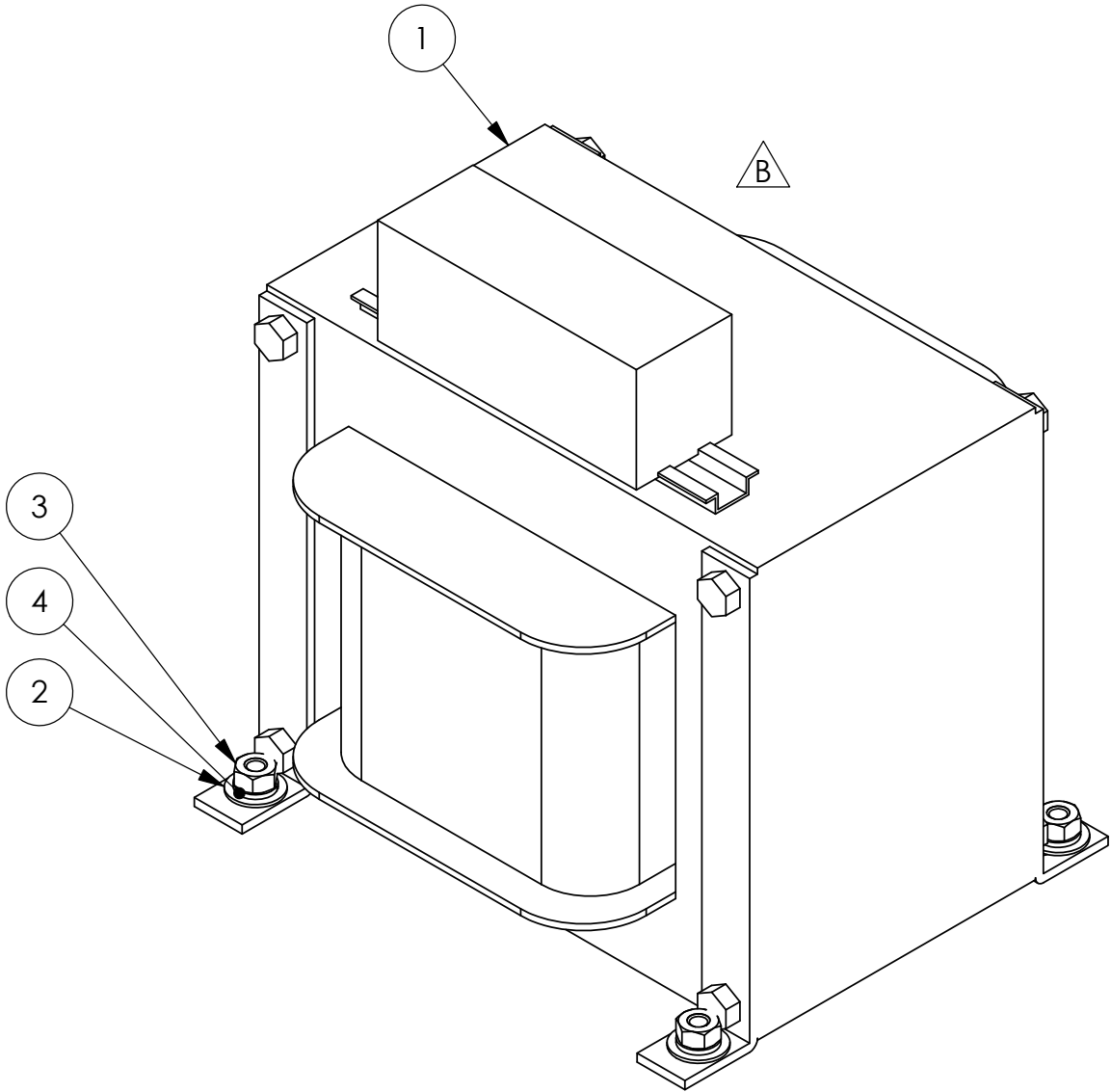
A

MA101-0023

REV A

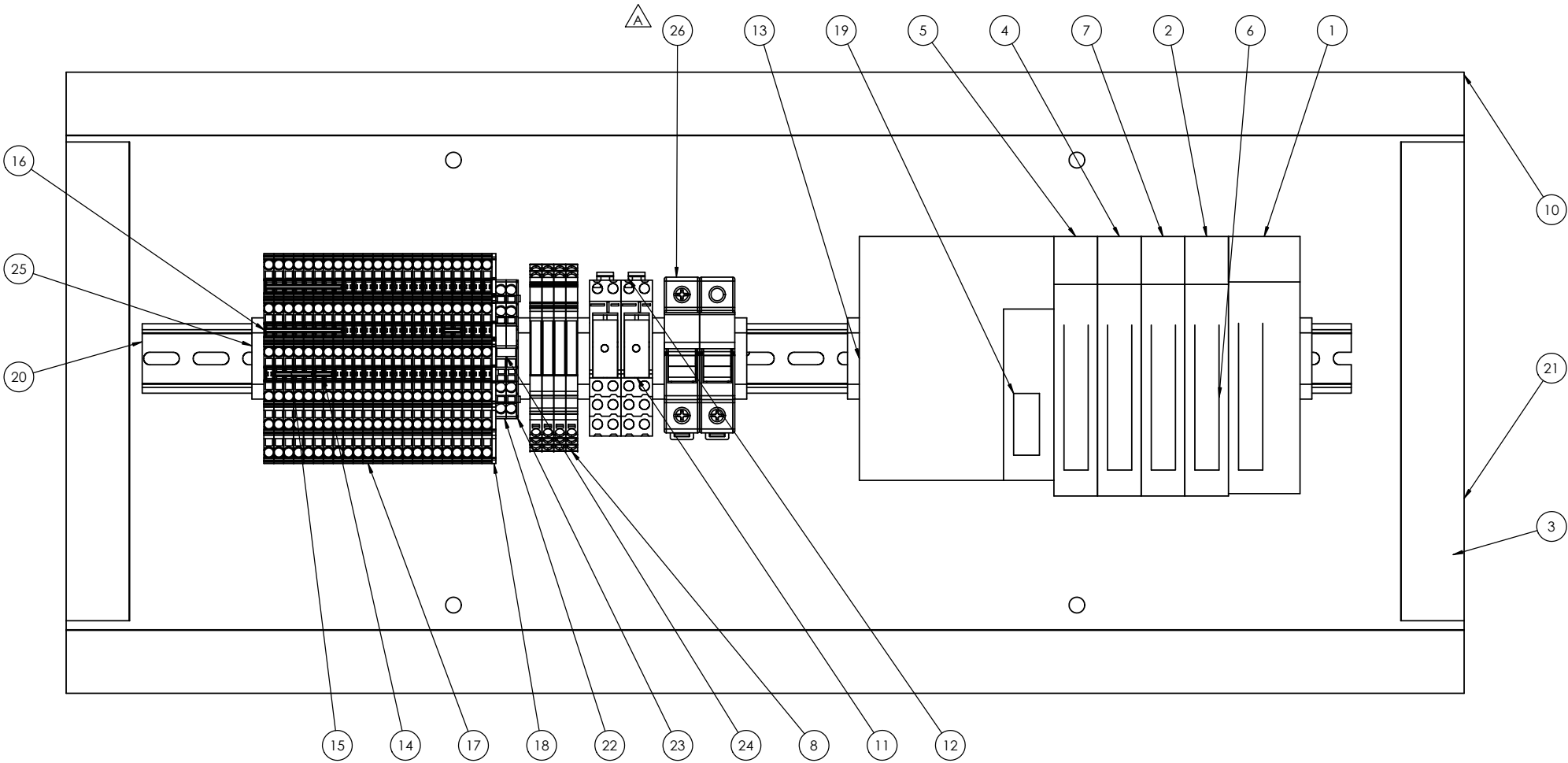
ITEM NO.	PART NUMBER	DESCRIPTION	
1	111008C1	TRANSFORMER ALTRAN 2.5KVA	1
2	FW1/4-A	WASHER, FLAT	4
3	HN1/4-20	NUT, HEX	4
4	LW1/4	WASHER, LOCK	4

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/02/2018	CI
B	FUSES MOVED TO THE PYLON ASSY	8/11/2025	AD



MATERIAL: SEE BOM STOCK NO: STOCK SIZE: MASS [LBS]:		CV•TEK 440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123 PHONE: 847.741.3500 WWW.CV-TEK.COM		MK3 ALTRAN POWER ASSEMBLY	
FINISH: SEE BOM					
UNLESS OTHERWISE SPECIFIED: 1. BREAK ALL SHARP CORNERS 2. TOLERANCES: FRACT.=±1/64 .XXX=±.005 .XX=±.015 .XXXX=±.0005 ANGLES=±0°30' DRILLED HOLE: STANDARD S.A.E.		PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.		DRAWING NO.	REV
		DRAWN C.ILONTA	DATE 12/11/2020	SCALE 1:2	MA110-0035 A
				SHEET 1 OF 1	

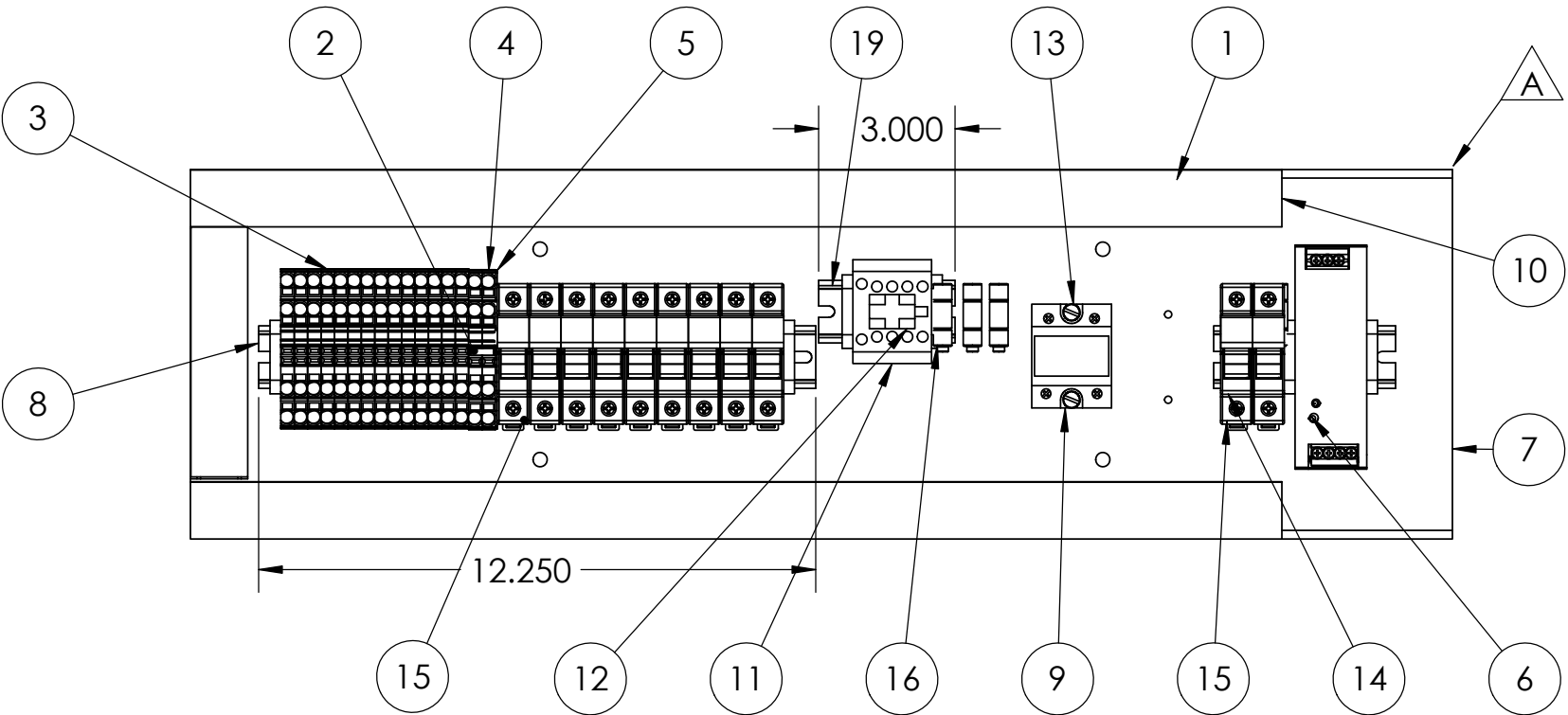
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	0263460	COMPACT 5000 8 CHANNEL 24VDC SAFETY CONFIGURABLE OUTPUT MODULE	1
2	0677730	COMPACT 5000 8 CHANNEL 24VDC SAFETY CONFIG	1
3	122621C1	1 X 3 WIRE DUCT, WHITE	6.30
4	126061C2	AB 5069 DIGITAL OUTPUT CARD	1
5	126062C2	CMPT 5000 DC INPUT MODULE	1
6	126113C1	TERMINAL STRIP	5
7	126192C1	COMPACT 5000 ANLG INPUT MODULE	1
8	131934C1	MINIATURE SWITCHING RELAY	4
9	136683C1	4 PIN JUMPER SLIM RELAY	2
10	140431C1	MKIII PLUS ELECT. PANEL - LV	1
11	140639C1	RELAY	2
12	140640C1	RELAY SOCKET	2
13	140642C1	COMPACT GUARDLOGIX CONTROLLER	1
14	140648C1	TERMINAL BLOCK JUMPER, 2-POLE	2
15	140650C1	TERMINAL BLOCK JUMPER, 4-POLE	1
16	140654C1	TERMINAL BLOCK JUMPER, 8-POLE	2
17	140658C1	SPRING TERMINAL BLOCK, 3-TIER	23
18	140659C1	TERMINAL BLOCK END PLATE, ORANGE	1
19	140660C1	TERMINAL STRIP	1
20	71002701	RAIL DIN MOUNTING ALUM 35MM WIDE	0.61
21	71300901	WIRE DUCT COVER 1" WIDE, WHITE T&B	6.30
22	7707-3224	4-PT CLAMPING GROUND TERM BLOCK	2
23	7707-3227	END PLATE, TERM BLOCK	1
24	7707-3232-2	JUMPER BAR, 2-POLE	1
25	7707-3233	END STOP	7
26	141126C1	FUSE HOLDER CLASS CC UL	2
27	141129C1	FUSE 6A CLASS CC UL	2



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	FUSE AND FUSE HOLDER CHANGED, QTY CHANGED TO 2	8/11/2025	AD

MATERIAL: SEE BOM STOCK NO: SEE BOM STOCK SIZE: SEE BOM MASS [LBS]: 23.16		CV·TEK 440 S MCLEAN BLVD. ELGIN, ILLINOIS 60123 PHONE: 847.741.3500 WWW.CV-TEK.COM		BASE MKIII PLUS ELECTRICAL PANEL - LV	
FINISH: UNLESS OTHERWISE SPECIFIED: 1. BREAK ALL SHARP CORNERS 2. TOLERANCES: FRACT.= ±1/64 .XXX= ±.005 .XX= ±.015 .XXXX= ±.0005 ANGLES= ±0°30' DRILLED HOLE: STANDARD S.A.E.		PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CV·TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CV·TEK, LLC IS PROHIBITED.		DRAWING NO. MA110-0052	REV A
DRAWN adejkovic	DATE 2025-07-07	SCALE 2:3	SHEET 1 OF 1		

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	122621C1	1 X 3 WIRE DUCT, WHITE	1
2	131287C1	TERMINAL BLOCK 2 POLE JUMPER, 41 A	1
3	140645C1	SPRING TERMINAL BLOCK, GRAY	14
4	140646C1	SPRING TERMINAL BLOCK, GND	2
5	140647C1	TERMINAL BLOCK END PLATE, ORANGE	1
6	140662C1	24VDC POWER SUPPLY, 5A, 110-240VAC	1
7	140790C1	MK III PLUS ELECT. PANEL - HV	1
8	71002701	RAIL DIN MOUNTING ALUM 35MM WIDE	0.42
9	71104502	RELAY, SOLID STATE 24-265VAC	1
10	71300901	WIRE DUCT COVER 1" WIDE, WHITE T&B	1
11	71404701	MINI CONTACTOR 24VAC	1
12	71405501	AUXILIARY CONTACT 2NO	1
13	75112101	10-32 X 3/8 PAN HEAD MACHINE	2
14	7707-3233	END STOP	7
15	141126C1	FUSE HOLDER CLASS CC UL	11
16	141131C1	FUSE 15A CLASS CC UL	5
17	141127C1	FUSE 1A CLASS CC UL	2
18	141130C1	FUSE 10A CLASS CC UL	4
19	71002701	RAIL DIN MOUNTING ALUM 35MM WIDE	1



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PANEL REDESIGNED	8/11/2025	AD
B	CHANGE ALL WIREWAYS	08/13/2025	CI

MATERIAL: SEE BOM
STOCK NO: SEE BOM
STOCK SIZE: SEE BOM
MASS [LBS]: SEE BOM

FINISH:

UNLESS OTHERWISE SPECIFIED:
1. **BREAK ALL SHARP CORNERS**
2. TOLERANCES:
FRACT.=±1/64 .XXX=±.005
.XX=±.015 .XXXX=±.0005
ANGLES=±0°30'
DRILLED HOLE: STANDARD S.A.E.

CV•TEK
440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123
PHONE: 847.741.3500 | WWW.CV-TEK.COM

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.

DRAWN adejkovic	DATE 2025-07-18	SCALE 1:4	SHEET 1 OF 1
--------------------	--------------------	--------------	-----------------

BASE MKIII PLUS
ELECTRICAL PANEL -
HV

MKIII PLUS

DRAWING NO.

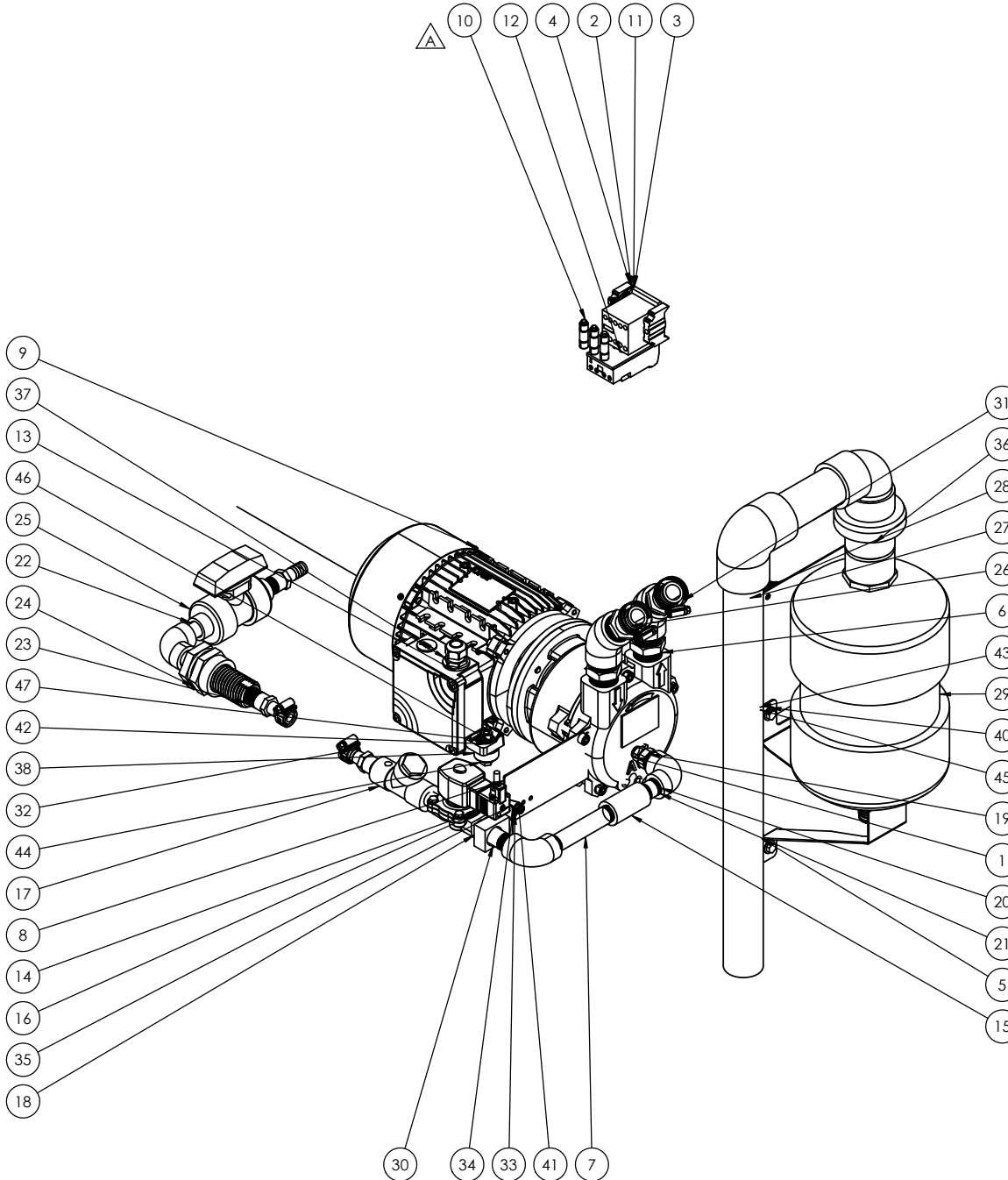
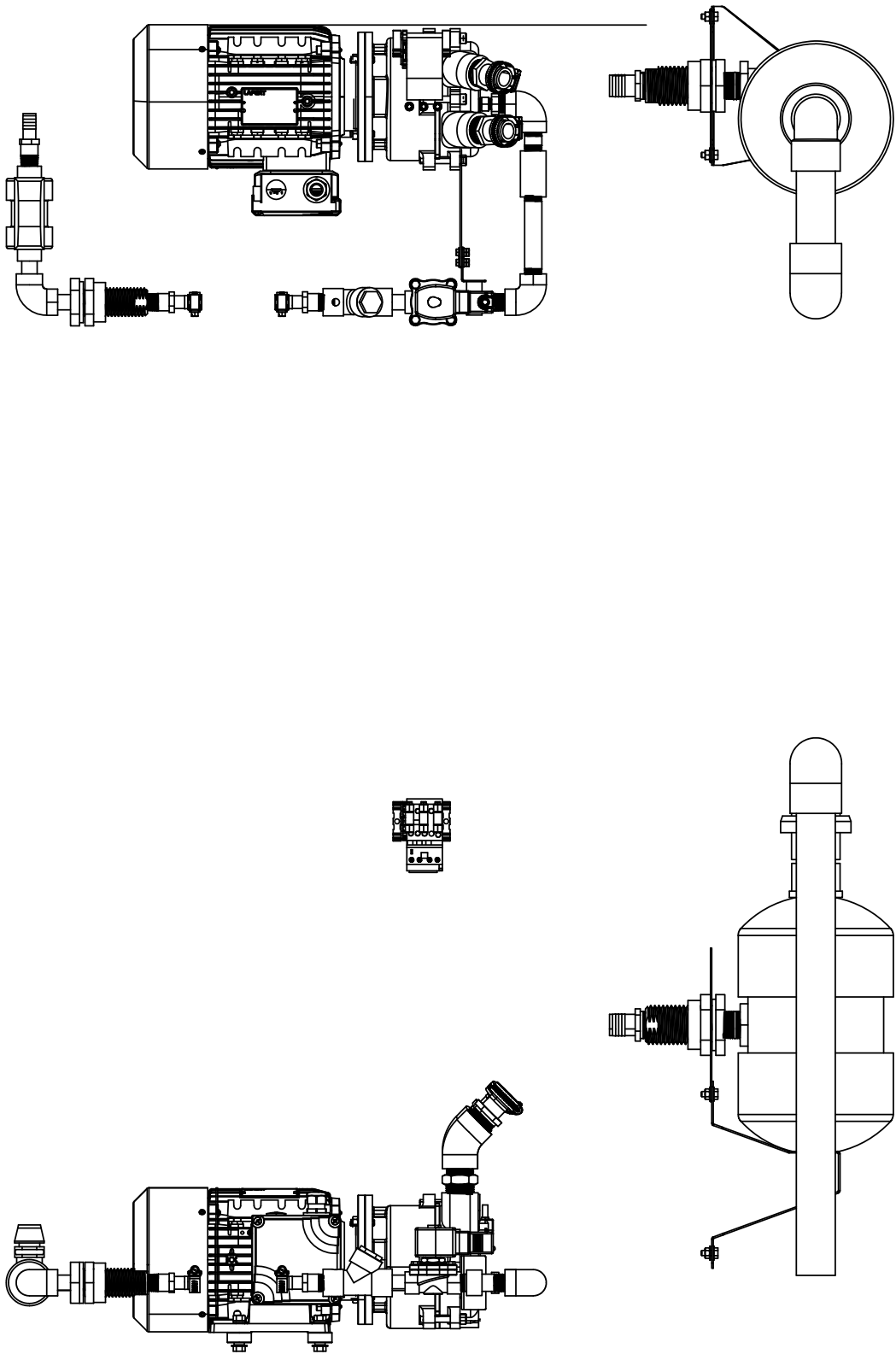
MA110-0053

REV

B

Ref. #

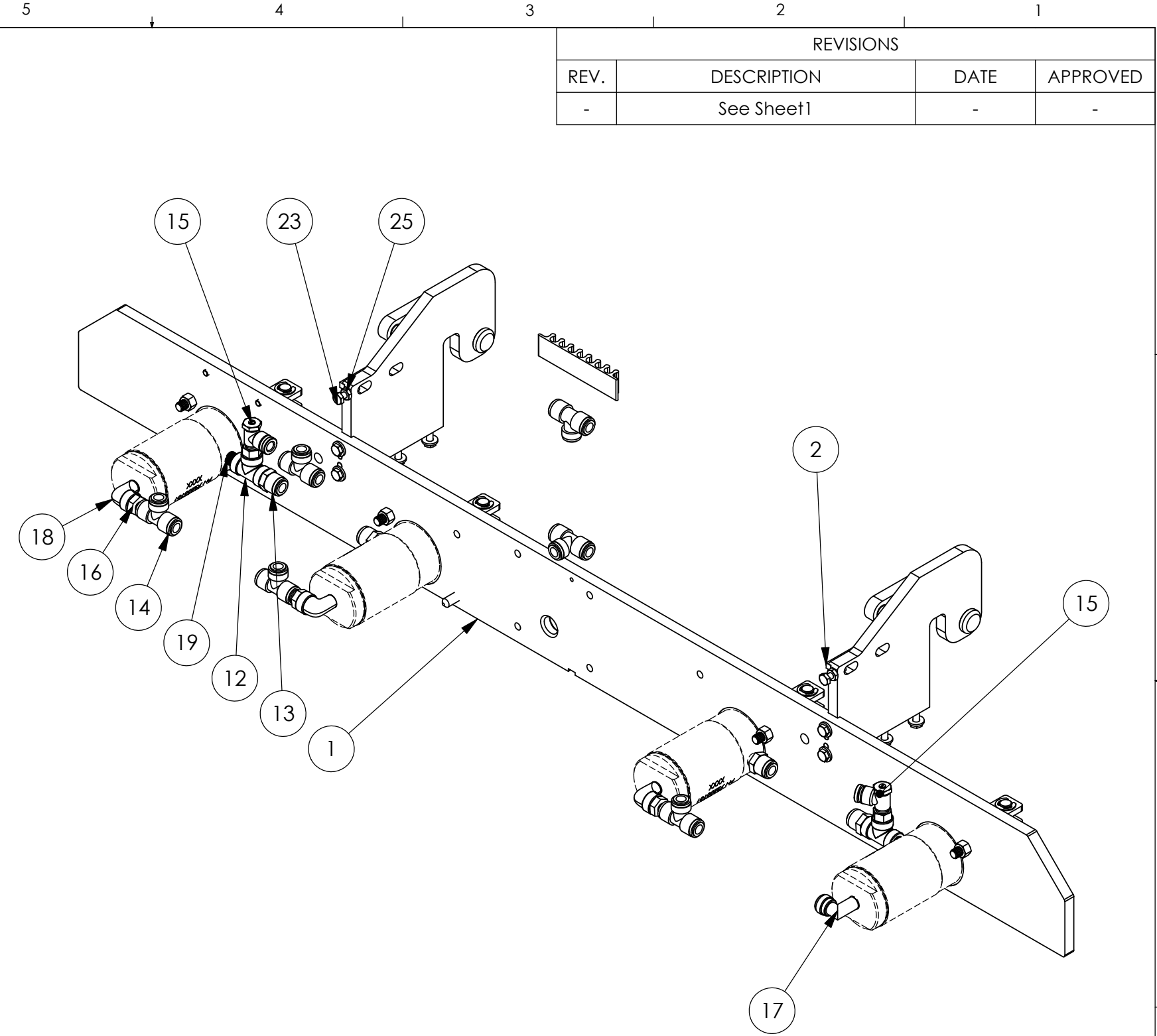
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	0019500	NIPPLE 1/4" NPT X 1/4" BSPP	1
2	120747C1	END COVER, L: 65.4 MM, W: 2.2 MM, H: 47.5 MM, COLOR: GRAY	1
3	120751C1	1 TIER PE FEED THROUGH TERMINAL BLOCK; AWG:26-12; W:5.2MM; GRN/YEL	1
4	120752C1	END CLAMP, WIDTH: 9.5 MM, COLOR: GRAY	2
5	124800C1	MK3 WATER RING PUMP TANK SUPPORT	1
6	140281C1	1 BSPP X 1 NPT MALE PIPE COUPLER	2
7	140287C1	NIPPLE - 1/2NPT - 4.5"L	1
8	140637C1	MTG BRKT PIPE HANGER LEMD 52	1
9	140732C1	WATER RING PUMP 34 CFM	1
10	141131C1	FUSE 15A CLASS CC UL	3
11	71404701	MINI CONTACTOR 24VAC	1
12	71405201	LOVATO OVERLOAD 3.0-5.0 AMP	1
13	71601001	SEAL RING; 1/2 S/S	1
14	71607403	ASCO VALVE PLUG CABLE 18mm 3M	1
15	73107301	1/2 NPT, .75 GPM, EPR SEAL, PVC FLOW CONTROL VALVE	1
16	73107501	VALVE, 1/2 NPT BRASS N.C. 24VAC W/ DIN	1
17	74000101	PVC Y-STRAINER 1/2 NPT PIPE 150 PSI	1
18	74000301	LOCKING NYLON PIPE HANGER 3/4 TO 7/8 O.D.	1
19	74500101	1/2 NPT MALE X 1/4 NPT FEMALE REDUCING HEX BUSHING SCHEDULE 80, DARK GRAY PVC	1
20	74500201	1/2 NPT FEMALE X 1/2 NPT FEMALE 90 DEGREE ELBOW SCHEDULE 80 DARK GRAY PVC	3
21	74500301	1/2 NPT X 1/2 NPT X 2 INCH LONG THREADED PIPE NIPPLE SCHEDULE 80 DARK GRAY PVC	1
22	74500401	1/2 NPT X 1/2 NPT X 1-1/8 INCH LONG THREADED PIPE NIPPLE SCHEDULE 80 DARK GREY PVC	3
23	74500601	ADAPTER 1/2 INCH BARBED (.635 O.D.) X 1/2 NPT MALE SCHEDULE 80 DARK GRAY PVC	3
24	74500701	1/2 NPT FEMALE BULKHEAD FITTING 1/2 NPT FEMALE X 1/2 NPT FEMALE GRAY PVC 1-3/8 INCH HOLE REQUIRED	1
25	74500801	1/2 NPT FEMALE BALL VALVE SCHEDULE 80 GRAY CPVC VITO O-RINGS	1
26	74501101	1 NPT 45 DEG ELBOW PVC	2
27	74501201	1" BARBED X 1 NPT MALE ADAPTER PVC	4
28	74501301	1 NPT X 1 NPT FEMALE BULKHEAD FITTING GRAY PVC, 1-7/8 INCH HOLE DIAMETER REQUIRED	1
29	74501801	WATER AND AIR SEPARATOR WELDMENT (PVC)	1
30	74501901	1/2 NPT X 1/2 NPT X 3 INCH LONG THREADED PIPE NIPPLE SCHEDULE 80 DARK GRAY PVC	1
31	75001701	HOSE CLAMP; #16 WORM GEAR S/S	2
32	75003201	HOSE CLAMP, #8 WORM GEAR S/S	2
33	75110701	10-32 X 1/2 HEX HEAD CAP SCREW	2
34	75118601	10-32 HEX NUT 18.8 S/S	4
35	76000701A	PIPE HANGER MOUNTING BRACKET LEM60	1
36	76209901	MK III COVER EXHAUST PORT WATER RING PUMP	1
37	7707-1705	CORD GRIP, 1/2"	1
38	79501701	PVC VIBRATION MOUNTS	4
39	84400101	1 INCH NPT CLOSE 304/304L STAINLESS STEEL PIPE NIPPLE, 1-1/2 INCH LONG SCHEDULE 40 CLOSE	1
40	FW1/4-A	WASHER, FLAT	8
41	FW10-A	WASHER, FLAT	4
42	FW5/16-A	WASHER, FLAT	5
43	HH1/4-20X5/8	SCREW, HEX HEAD	4
44	HHS1/16-18X1-1/2	SCREW, HEX HEAD	4
45	HN1/4-20	NUT, HEX	4
46	HN5/16-18	NUT, HEX	4
47	LW5/16	WASHER, LOCK	4



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	FUSE CHANGED	8/11/2025	AD

MATERIAL: STOCK NO: STOCK SIZE: MASS [LBS]:		CV·TEK 440 S MCLEAN BLVD. ELGIN, ILLINOIS 60123 PHONE: 847.741.3500 WWW.CV-TEK.COM		MKIII PLUS 34 CFM WATER RING PUMP ASM	
FINISH:		UNLESS OTHERWISE SPECIFIED: 1. BREAK ALL SHARP CORNERS 2. TOLERANCES: FRACT.= ±1/64 .XXX= ±.005 .XX= ±.015 .XXXX= ±.0005 ANGLES= ±0°30' DRILLED HOLE: STANDARD S.A.E.		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.	
DRAWN adejkovic		DATE 2025-07-02	SCALE 1:4	SHEET 1 OF 1	DRAWING NO. MA250-0034
				REV A	

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	140665C1	FRAME PLATE ASSEMBLY	1
2	76102401A	KEY, BEARING BLOCK/BUTTRESS	2
3	76125301A	M SHORT CLEVIS; HEAT SEAL BAR; M	4
4	140742C1	LINK; PIVOT SHAFT TO BACKUP	2
5	76102501A	PIN; SEAL BAR CLEVIS	4
6	79101201	FLNG BRNG 1/2ID 1/2 LNG	4
7	75117201	1-3/8-12 Nut Cylinder Mount	4
8	75102201	E-ring retainer for 1/2 rod #5133- 50H	8
9	75102301	E-RING RETAINER FOR 3/4 ROD	2
10	79002201	WARNING MOVING PARTS LABEL	2
11	79002101	WARNING AVOID BURNS LABEL	2
12	74400501	1/4 NPT female tee s/s	2
13	74203001	3/8 X 1/4 male conn. plastic	4
14	74203501	3/8 OD TUBE, UNION TEE, PLASTIC	6
15	73501102	FLOW CONTROL, 1/4 NPT X 3/8 TUBE	2
16	74204601	3/8 OD X 1/4 NPT STEM ADAPTER	3
17	74204201	3/8 OD TUBE X 1/4 NPT MALE FIXED ELBOW, PLASTIC	1
18	74400701	1/4 NPT 90 Deg. street el s/s	3
19	74400601	1/4 NPT close nipple s/s	2
20	79000801	TUBE HOLDER; PLASTIC 7 POS 3/8	1
21	75104201	3/8-16 HEX NUT, S/S	8
22	110544C1	1/4 FLAT WASHER, 0.630 O.D., 0.08 THCK, S/S	6
23	75113401	1/4-28 X 1 LNG HEX HEAD CAP SCREW, S/S	8
24	75108501	3/8-16 X 2-1/4 Threaded rod	4
25	75118101	1/4-28 HEX JAM NUT, S/S	2
26	108586C1	1/4-20 X 5/8 LNG HEX HEAD CAP SCREW, S/S	2
27	75105101	1/2-20 HEX JAM NUT, S/S	4



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
-	See Sheet1	-	-

MATERIAL: SEE BOM
STOCK NO: SEE BOM
STOCK SIZE: SEE BOM
MASS [LBS]: 150.5

FINISH:

UNLESS OTHERWISE SPECIFIED:
1. **BREAK ALL SHARP CORNERS**
2. TOLERANCES:
FRACT.=±1/64 .XXX=±.005
.XX=±.015 .XXXX=±.0005
ANGLES=±0°30'
DRILLED HOLE: STANDARD S.A.E.

CV·TEK

440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123
PHONE: 847.741.3500 | WWW.CV-TEK.COM

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.

DRAWN adejkovic	DATE 2025-07-07	SCALE 1:5	SHEET 2 OF 2
--------------------	--------------------	--------------	-----------------

MK III PLUS 54inch
HEAD ASSEMBLY
BASE

DRAWING NO.

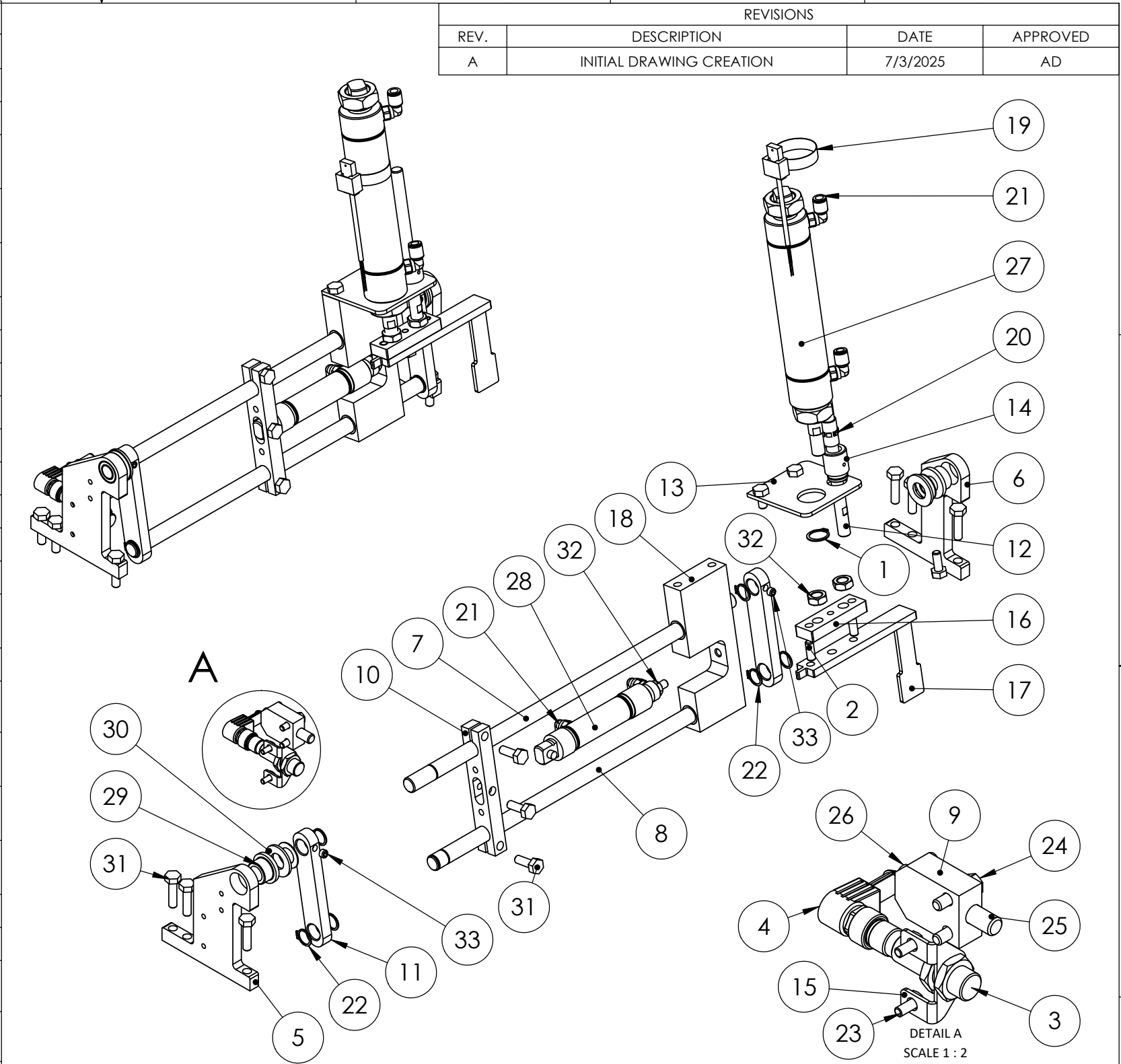
MA260-0021

REV

A

SHEET 2: REF. PARTS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	108654C1	EXTERNAL RETAINING RING	1
2	108767C1	1/4" X 5/8" SS DOWEL PIN	2
3	120498C1	SENSOR; INDUCTIVE PROXIMITY	1
4	120586C1	M12 4 PIN 90DEGREE 1.5METER BLACK CABLE	1
5	140350C1	BRACKET, BAG STRETCHER SUPPORT	1
6	140351C1	BRACKET, BAG STRETCHER SUPPORT	1
7	140352C1	SHAFT, GUIDE TOP	1
8	140353C1	SHAFT, GUIDE BOTTOM	1
9	140354C1	PIN BLOCK	1
10	140355C1	BAR, ADJUST	1
11	140356C1	PIVOT ARM	2
12	140358C1	GUIDE ROD	1
13	140359C1	BRACKET, CYLINDER	1
14	140360C1	GUIDE ROD	1
15	140361C1	SENSOR MOUNT	1
16	140362C1	CENTER BAG STRETCHER MOUNT BLOCK	1
17	140365C1	BAG STRETCHER SUPPORT ASSY	1
18	140375C1	SLIDE BLOCK ASSY, BAG STRETCHER	1
19	140377C1	SOLID STATE SOURCHE SWITCH AND MOUNT ASSY	1
20	140378C1	DRYLIN R LINER - CLOSED, INCH DIMENSIONS - 3/8" ID	1
21	269P-04-02	FITTING, TBG, ELBOW, 1/4 OD X 1/8 NPT	4
22	5100-50H	RING RETAINING,1/2" OD	6
23	75106101	10-32 X 3/8 HHCS TRIMMED S/S	2
24	75106201	10-32 X 3/4 HEX HEAD CAP SCREW	2
25	75117601	5/16 DIA X 1 IN LONG DOWEL PIN	1
26	75117701	PIVOT SPRING BAG STRETCHER	1
27	7707-979	AIR CYLINDER 3" STROKE	1
28	8013-716	CYLINDER BIMBA	1
29	FP812-4	BEARING,FLG,PTFE,1/2ID X 1/2LG	2
30	FW1/2-A	WASHER, FLAT	4
31	HH1/4-20X1	SCREW, HEX HEAD	12
32	JN3/8-24	NUT, JAM	3
33	ST1/4-20X3/16	SCREW, SET, CUP POINT Ref. #NA	2



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL DRAWING CREATION	7/3/2025	AD

MATERIAL: SEE BOM STOCK NO: SEE BOM STOCK SIZE: SEE BOM MASS [LBS]: 7.07
FINISH: SEE BOM
UNLESS OTHERWISE SPECIFIED: 1. BREAK ALL SHARP CORNERS 2. TOLERANCES: FRACT.=±1/64 .XXX=±.005 .XX=±.015 .XXXX=±.0005 ANGLES=±0°30' DRILLED HOLE: STANDARD S.A.E.

CV•TEK
440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123
PHONE: 847.741.3500 | WWW.CV-TEK.COM

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.

DRAWN AD	DATE 7/3/2025	SCALE 1:4	SHEET 1 OF 1
-------------	------------------	--------------	-----------------

ASSY, BAG STRETCHER, LEFT

MKIII

DRAWING NO. MA261-0010	REV A
----------------------------------	-----------------

MA261-0010
REV A

ITEM NO.				PART NUMBER				DESCRIPTION				QTY.			
1				108654C1				EXTERNAL RETAINING RING				1			
2				108767C1				1/4" X 5/8" SS DOWEL PIN				2			
3				120498C1				SENSOR; INDUCTIVE PROXIMITY				1			
4				120586C1				M12 4 PIN 90DEGREE 1.5METER BLACK CABLE				1			
5				140350C1				BRACKET, BAG STRETCHER SUPPORT				1			
6				140351C1				BRACKET, BAG STRETCHER SUPPORT				1			
7				140354C1				PIN BLOCK				1			
8				140355C1				BAR, ADJUST				1			
9				140356C1				PIVOT ARM				2			
10				140358C1				GUIDE ROD				1			
11				140359C1				BRACKET, CYLINDER				1			
12				140360C1				GUIDE ROD				1			
13				140361C1				SENSOR MOUNT				1			
14				140362C1				CENTER BAG STRETCHER MOUNT BLOCK				1			
15				140365C1				BAG STRETCHER SUPPORT ASSY				1			
16				140375C1				SLIDE BLOCK ASSY, BAG STRETCHER				1			
17				140377C1				SOLID STATE SOURCHE SWITCH AND MOUNT ASSY				1			
18				140378C1				DRYLIN R LINER - CLOSED, INCH DIMENSIONS - 3/8" ID				1			
19				140744C1				SHAFT, GUIDE TOP - R				1			
20				140745C1				SHAFT, GUIDE BOTTOM - R				1			
21				269P-04-02				FITTING, TBG, ELBOW, 1/4 OD X 1/8 NPT				4			
22				5100-50H				RING RETAINING, 1/2" OD				6			
23				75106101				10-32 X 3/8 HHCS TRIMMED S/S				2			
24				75106201				10-32 X 3/4 HEX HEAD CAP SCREW				2			
25				75117601				5/16 DIA X 1 IN LONG DOWEL PIN				1			
26				75117701				PIVOT SPRING BAG STRETCHER				1			
27				7707-979				AIR CYLINDER 3" STROKE				1			
28				8013-716				CYLINDER BIMBA				1			
29				FP812-4				BEARING,FLG,PTFE,1/2ID X 1/2LG				2			
30				FW1/2-A				WASHER, FLAT				4			
31				HH1/4-20X1/2				SCREW, HEX HEAD				12			
32				JN3/8-24				NUT, JAM				3			
33				ST1/4-20X3/16				SCREW, SET, CUP POINT				2			

MA261-0011

REV A

CV•TEK

440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123
PHONE: 847.741.3500 | WWW.CV-TEK.COM

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.

DRAWN
AD

DATE
6/23/2025

SCALE
1:4

SHEET
1 OF 1

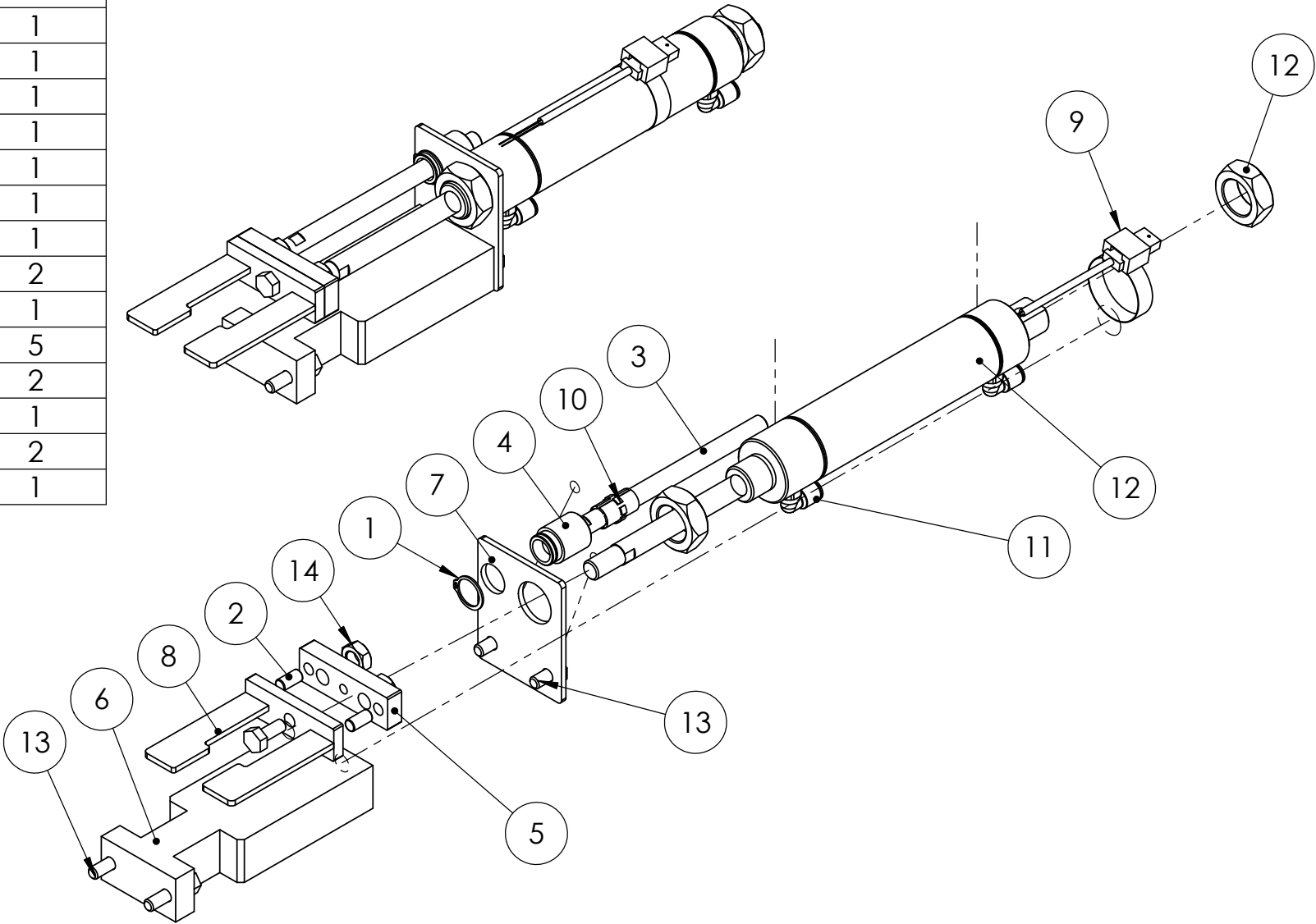
ASSY, BAG
STRETCHER, RIGHT

MKIII

DRAWING NO.
MA261-0011

REV
A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	108654C1	EXTERNAL RETAINING RING	1
2	113517C1	1/4 X 1/2 DOWEL PIN	2
3	140358C1	GUIDE ROD	1
4	140360C1	GUIDE ROD	1
5	140362C1	CENTER BAG STRETCHER MOUNT BLOCK	1
6	140366C1	SPACER, TRUNNION BRACKET, JAW CLOSER CYLINDER	1
7	140368C1	BRACKET, CYLINDER	1
8	140372C1	BAG STRETCH 23	1
9	140377C1	SOLID STATE SOURCHE SWITCH AND MOUNT ASSY	1
10	140378C	DRYLIN R LINER - CLOSED, INCH DIMENSIONS - 3/8" ID	1
11	269P-04-02	FITTING, TBG, ELBOW, 1/4 OD X 1/8 NPT	2
12	7707-979	AIR CYLINDER 3" STROKE	1
13	HH1/4-20X1/2	SCREW, HEX HEAD	5
14	JN3/8-24	NUT, JAM	2
15	114224C3	VALVE MAC; 24 VAC V60 & MHSP	1
16	120283C1	4-40 X 1-1/4 SOCKET HEAD CAP	2
17	125307C1	MAC 400 SERIES VALVE GASKET	1



MATERIAL: SEE BOM
STOCK NO: SEE BOM
STOCK SIZE: SEE BOM
MASS [LBS]: 3.90

FINISH: SEE BOM

UNLESS OTHERWISE SPECIFIED:
1. **BREAK ALL SHARP CORNERS**

2. TOLERANCES:
FRACT.=±1/64 .XXX=±.005
.XX=±.015 .XXXX=±.0005
ANGLES=±0°30'
DRILLED HOLE: STANDARD S.A.E.

Ref. #NA

CV·TEK

440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123
PHONE: 847.741.3500 | WWW.CV-TEK.COM

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.

DRAWN
AD

DATE
07/08/2025

SCALE
1:3

SHEET
1 OF 1

MKIII PLUS - ASSY,
BAG STRETCHER,
FIXED

MARK III PLUS

DRAWING NO.

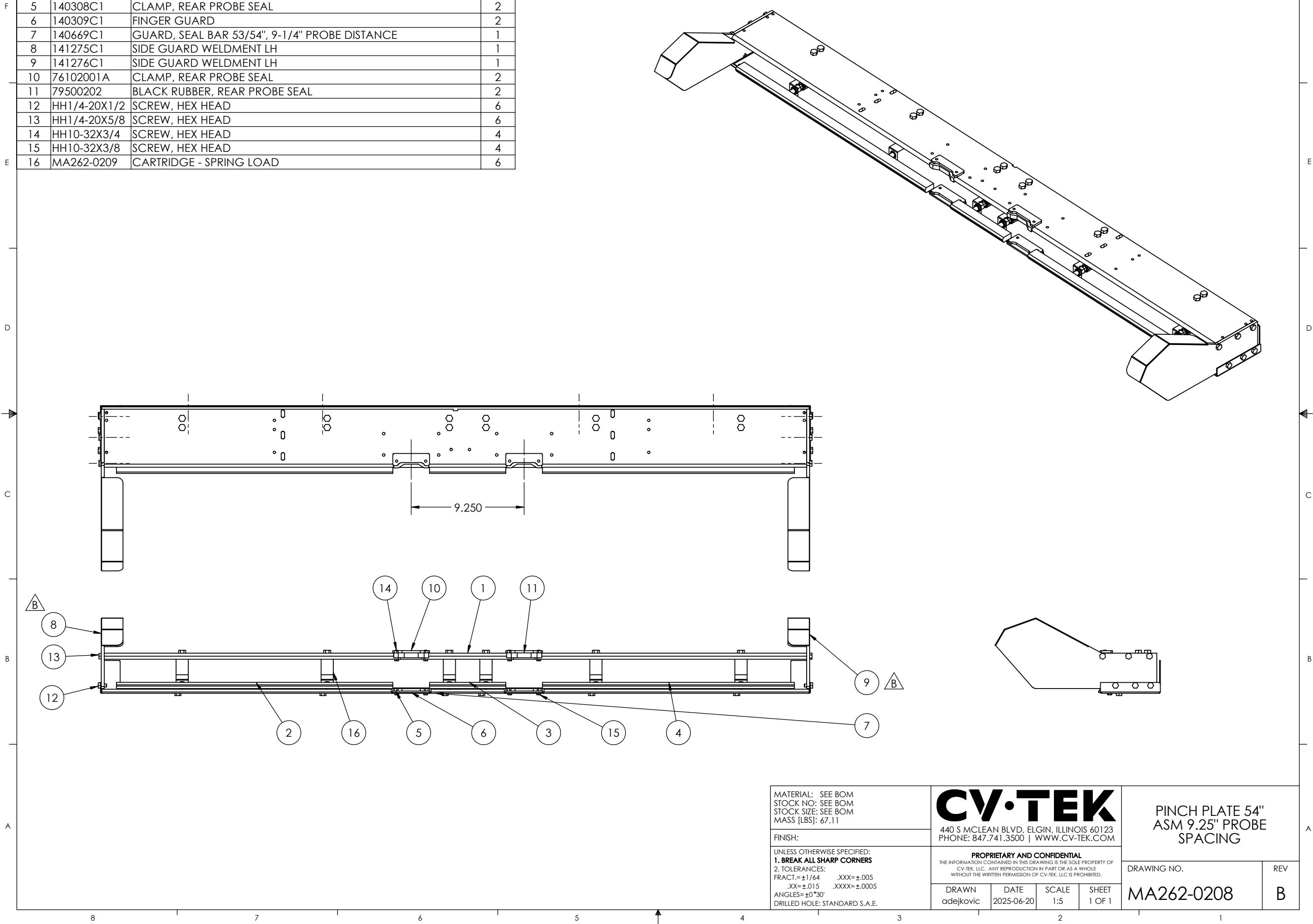
MA261-0012

REV

A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	140289C1	PINCH PLATE 54", 9-1/4" PROBE L DIST. - W/STRETCHER	1
2	140290C1	PINCH BAR - BOTTOM - L	1
3	140291C1	PINCH BAR - BOTTOM - C	1
4	140296C1	PINCH BAR - BOTTOM - R	1
5	140308C1	CLAMP, REAR PROBE SEAL	2
6	140309C1	FINGER GUARD	2
7	140669C1	GUARD, SEAL BAR 53/54", 9-1/4" PROBE DISTANCE	1
8	141275C1	SIDE GUARD WELDMENT LH	1
9	141276C1	SIDE GUARD WELDMENT RH	1
10	76102001A	CLAMP, REAR PROBE SEAL	2
11	79500202	BLACK RUBBER, REAR PROBE SEAL	2
12	HH1/4-20X1/2	SCREW, HEX HEAD	6
13	HH1/4-20X5/8	SCREW, HEX HEAD	6
14	HH10-32X3/4	SCREW, HEX HEAD	4
15	HH10-32X3/8	SCREW, HEX HEAD	4
16	MA262-0209	CARTRIDGE - SPRING LOAD	6

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	REPLACE ENG GUARD WITH WLEDMENTS	9/18/2025	CI



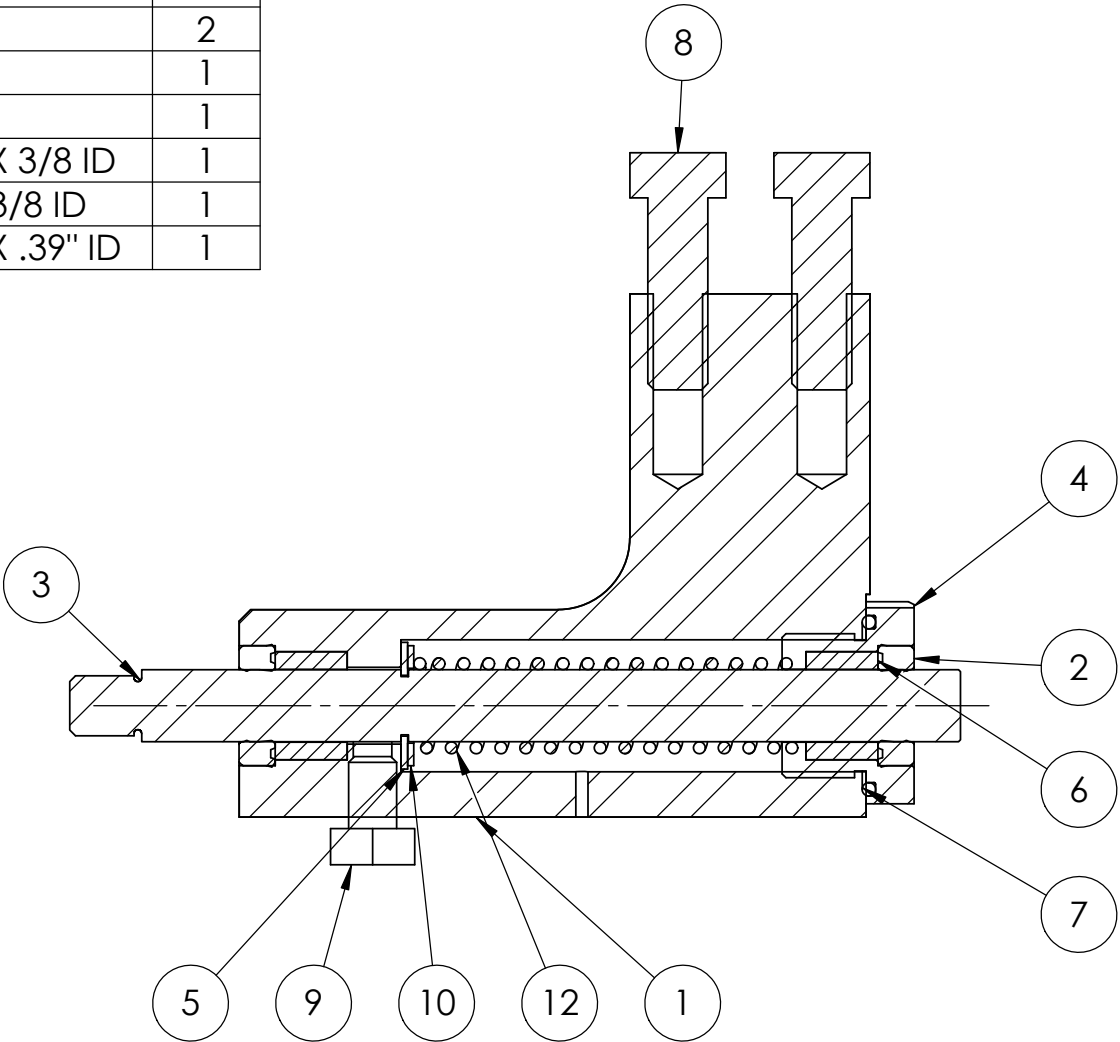
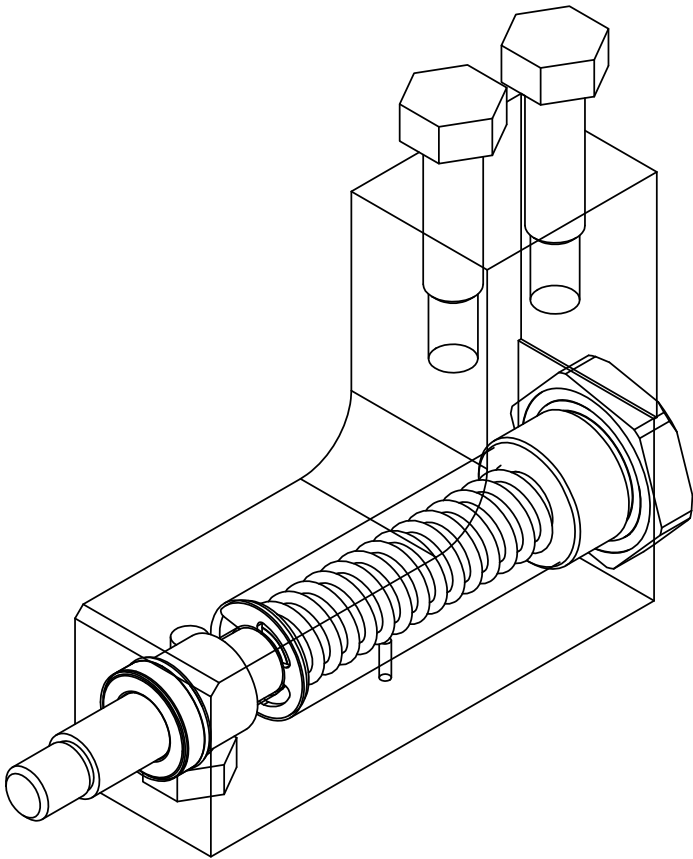
MATERIAL: SEE BOM STOCK NO: SEE BOM STOCK SIZE: SEE BOM MASS [LBS]: 67.11
FINISH:
UNLESS OTHERWISE SPECIFIED: 1. BREAK ALL SHARP CORNERS 2. TOLERANCES: FRACT.= ± 1/64 .XXX= ± .005 .XX= ± .015 .XXXX= ± .0005 ANGLES= ± 0°30' DRILLED HOLE: STANDARD S.A.E.

CV·TEK 440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123 PHONE: 847.741.3500 WWW.CV-TEK.COM			
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.			
DRAWN adejkovic	DATE 2025-06-20	SCALE 1:5	SHEET 1 OF 1

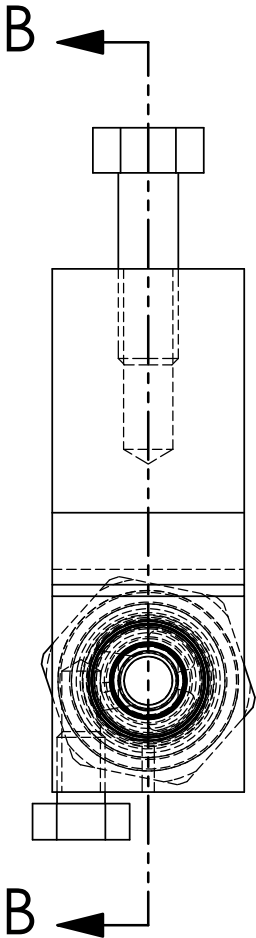
PINCH PLATE 54" ASM 9.25" PROBE SPACING	
DRAWING NO. MA262-0208	REV B

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	140670C1	HOUSING - CARTRIDGE	1
2	140673C1	SEAL - 3/8 ID	2
3	140671C1	SHAFT - CARTRIDGE	1
4	140672C1	NUT - CARTRIDGE	1
5	140674C1	RETAINING RING 3/8 ID	1
6	140675C1	SLEEVE BEARING 3/8 ID	2
7	140676C1	O-RING .801" OD X .941" OD	1
8	HH5/16-18X1	SCREW, HEX HEAD	2
9	HH1/4-20X3/8	SCREW, HEX HEAD	1
10	109064C1	3/8 NAS SPEC FLAT WASHER	1
11	140678C1	COMPRESSION SPRING 2.5" L X 3/8 ID	1
12	140677C1	COMPRESSION SPRING 2" L X 3/8 ID	1
13	140741C1	COMPRESSION SPRING 2.5" L X .39" ID	1

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



SECTION B-B



MATERIAL:
STOCK NO: ???
STOCK SIZE: ???
MASS [LBS]:

FINISH:

UNLESS OTHERWISE SPECIFIED:
1. BREAK ALL SHARP CORNERS
2. TOLERANCES:
FRACT.=±1/64 .XXX=±.005
.XX=±.015 .XXXX=±.0005
ANGLES=±0°30'
DRILLED HOLE: STANDARD S.A.E.

CV·TEK
440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123
PHONE: 847.741.3500 | WWW.CV-TEK.COM

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.

DRAWN adejkovic	DATE 2025-07-07	SCALE 1:1	SHEET 1 OF 1
--------------------	--------------------	--------------	-----------------

CARTRIDGE -
SPRING LOAD

MKIII PLUS

DRAWING NO.

MA262-0209

REV

A

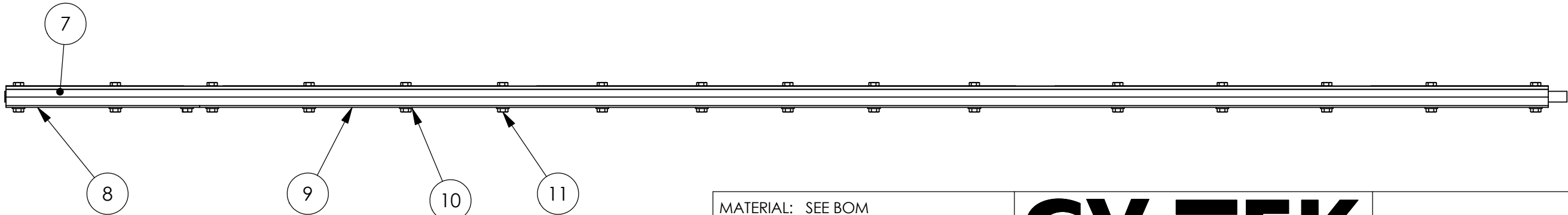
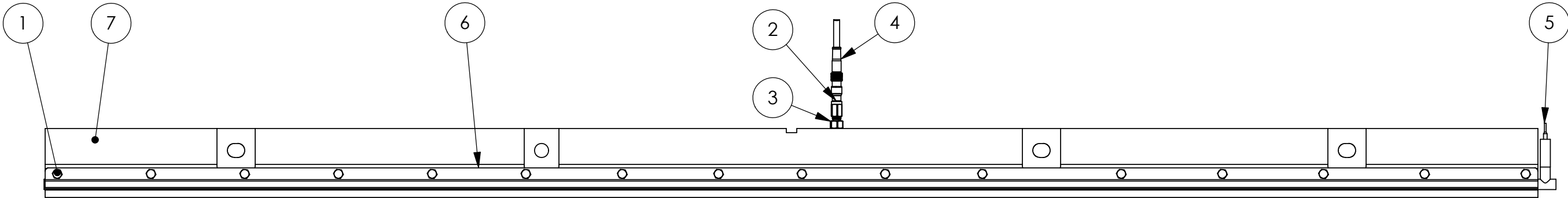
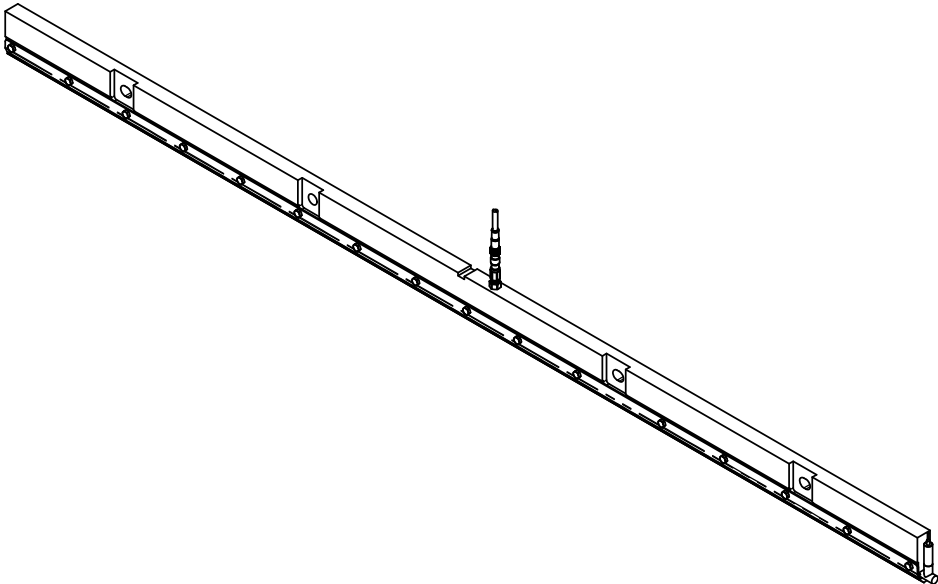
Ref. #

MA262-0209

REV A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	110221C1	#10-24 X 3/8 LNG HEX HEAD MACHINE SCREW, S/S	16
2	120296C1	RTD 3"LONG; M8 CONNECTOR	1
3	120297C1	COUPLING 1/8"	1
4	133182C1	M8 4 PIN PICO CABLE	1
5	71200102	54"Heater Cartridge w/heat sh	1
6	76125801	54 INCH CARTRIDGE RETAINER STAINLESS STEEL FOR CHISEL FACE, COOL EDGE SEAL BAR	1
7	76126201A	CHISEL FACE; COOL EDGE 54 INCH	1
8	79102301	RIGHT HAND 54" CHISEL FACE COOL EDGE	1
9	79102302	LEFT HAND 54" CHISEL FACE COOL EDGE	1
10	FW10-B	WASHER, FLAT	17
11	HH10-32X3/8	SCREW, HEX HEAD	17

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL DRAWING RELEASE	7/7/25	AD



MATERIAL: SEE BOM
STOCK NO: SEE BOM
STOCK SIZE: SEE BOM
MASS [LBS]: 25.39496645

FINISH: SEE BOM

UNLESS OTHERWISE SPECIFIED:
1. BREAK ALL SHARP CORNERS
2. TOLERANCES:
FRACT.=±1/64 .XXX=±.005
.XX=±.015 .XXXX=±.0005
ANGLES=±0°30'
DRILLED HOLE: STANDARD S.A.E.

CV·TEK

440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123
PHONE: 847.741.3500 | WWW.CV-TEK.COM

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.

DRAWN AD	DATE 07/07/2025	SCALE 1:4	SHEET 1 OF 1
-------------	--------------------	--------------	-----------------

MKIII PLUS 54" CHISEL
FACE SEAL BAR
ASSEMBLY

DRAWING NO.

MA263-0029

REV

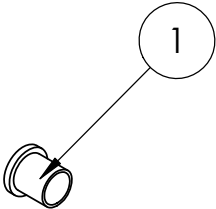
A

MA263-0029

REV A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	79100101	BUSHING, BRONZE 3/4 ID X 7/8 OD	2

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/01/2018	CI



MATERIAL: STOCK NO: STOCK SIZE: MASS [LBS]:	
FINISH:	
UNLESS OTHERWISE SPECIFIED: 1. BREAK ALL SHARP CORNERS 2. TOLERANCES: FRACT.=±1/64 .XXX=±.005 .XX=±.015 .XXXX=±.0005 ANGLES=±0°30' DRILLED HOLE: STANDARD S.A.E.	

CV•TEK 440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123 PHONE: 847.741.3500 WWW.CV-TEK.COM			
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.			
DRAWN adejkovic	DATE 2025-05-28	SCALE 1:4	SHEET 1 OF 1

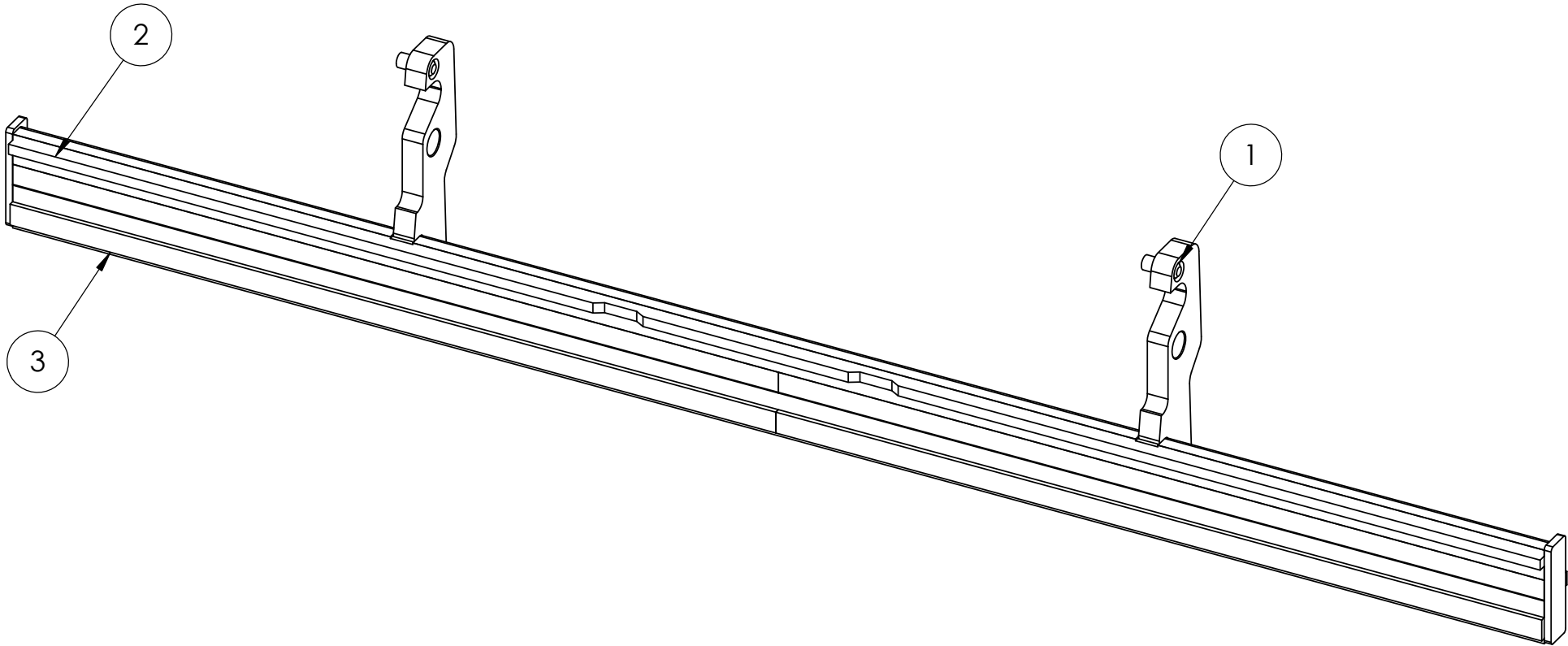
BACKUP BAR BRONZE BUSHING SET	
MARK III	
DRAWING NO. MA264-0025	REV A

MA264-0025

REV A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	140293C1	BACKUP BAR 54" WELDMENT	1
2	79500302	BLACK RUBBER, BAG CLAMP, FRONT	1
3	79501102	BLACK SEAL BAR RUBBER, 54 HEAD ACTUAL LENGTH 70"	2

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



MATERIAL:
STOCK NO: SEE BOM
STOCK SIZE: SEE BOM
MASS [LBS]:

FINISH:

UNLESS OTHERWISE SPECIFIED:
1. **BREAK ALL SHARP CORNERS**
2. TOLERANCES:
FRACT.=±1/64 .XXX=±.005
.XX=±.015 .XXXX=±.0005
ANGLES=±0°30'
DRILLED HOLE: STANDARD S.A.E.

CV·TEK

440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123
PHONE: 847.741.3500 | WWW.CV-TEK.COM

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.

DRAWN adejkovic	DATE 2025-06-20	SCALE 1:5	SHEET 1 OF 1
--------------------	--------------------	--------------	-----------------

54" AUTO JAW
HOTBAR BACKUP
BAR ASSEMBLY

MKIII PLUS

DRAWING NO.

MA264-0032

REV

A

Ref. #

MA264-0032

REV A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	120586C1	M12 4 PIN 90DEGREE 1.5METER BLACK CABLE	1
2	126048C1	SAFETY PROX M12	1
3	128566C1	M19733; 1-3/4" BORE, STAINLESS CUSTOM CYLINDER	1
4	140377C1	SOLID STATE SOURCE SWITCH AND MOUNT ASSY	1
5	140708C1	BEARING BLOCK, LH PIVOT SHAFT W/JAW CLOSER	1
6	140709C1	AUTO JAW CLOSER MOD	1
7	140711C1	PIVOT SHAFT LH 54/61-1/2 W/JAW CLOSER	1
8	140713C1	PIVOT SHAFT RIGHT HAND 54" / 61-1/2"	1
9	140714C1	BEARING BLOCK, LH/RH PIVOT SHAFT	1
10	140716C1	BRACKET-END TRAVEL STOP	1
11	140743C1	GUARD - CYLINDER	1
12	73501102	FLOW CONTROL, 1/4 NPT X 3/8 TUBE	2
13	75101901	1/4-20 X 3/8 - 18-8 STAINLESS STEEL CUP-POINT SET SCREW	1
14	75103901	1/4-28 HEX NUT, S/S	2
15	75108201	3/8-16 X 1-1/2 LNG SPECIAL 7/8 SHANK HEX HEAD CAP SCREW, S/S	4
16	75111501	5/16 X .75 SHOULDER BOLT	1
17	76103102A	STOP, PIVOT SHAFT	1
18	76118501A	CLEVIS, JAW CLOSER CYLINDER	1
19	76118601A	TRUNNION BLOCK, JAW CLOSER CYLINDER	1
20	76118801A	TIE BAR; PIVOT SHAFT	1
21	79101001	BEARING SLEEVE	1
22	FW3/8-C	WASHER, FLAT	10
23	HH1/4-20X1/2	SCREW, HEX HEAD	14
24	JN7/16-20	NUT, JAM	1
25	SB5/16X1/2	BOLT, SHOULDER	2

MATERIAL: SEE BOM
STOCK NO: SEE BOM
STOCK SIZE: SEE BOM
MASS [LBS]: 20.97

FINISH: SEE BOM

UNLESS OTHERWISE SPECIFIED:
1. BREAK ALL SHARP CORNERS
2. TOLERANCES:
FRACT.=±1/64 .XXX=±.005
.XX=±.015 .XXXX=±.0005
ANGLES=±0°30'
DRILLED HOLE: STANDARD S.A.E.

CV•TEK
440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123
PHONE: 847.741.3500 | WWW.CV-TEK.COM

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.

DRAWN
AD

DATE
07/07/2025

SCALE
1:4

SHEET
1 OF 1

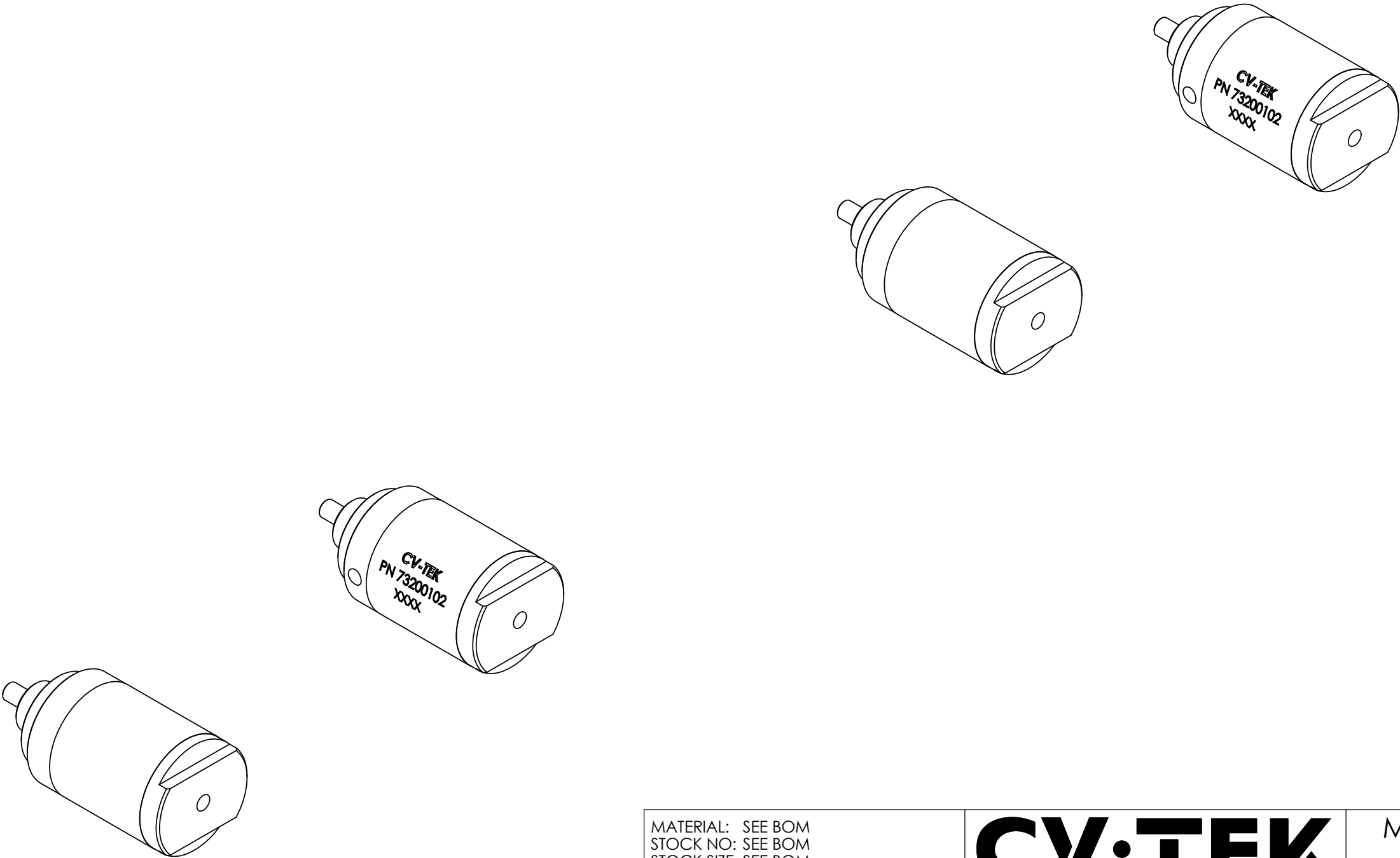
**MKIII PLUS 54" AUTO
BACKUP CLOSE
ASSEMBLY**

DRAWING NO.
MA265-0024

REV
A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	73200102	3" LARGE BORE CYLINDER	4

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



MATERIAL: SEE BOM
STOCK NO: SEE BOM
STOCK SIZE: SEE BOM
MASS [LBS]: 28.23

FINISH: SEE BOM

UNLESS OTHERWISE SPECIFIED:
1. **BREAK ALL SHARP CORNERS**
2. TOLERANCES:
FRACT.=±1/64 .XXX=±.005
.XX=±.015 .XXXX=±.0005
ANGLES=±0°30'
DRILLED HOLE: STANDARD S.A.E.

CV-TEK

440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123
PHONE: 847.741.3500 | WWW.CV-TEK.COM

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.

DRAWN	DATE	SCALE	SHEET
cilonta/admin	2025-06-03	1:3	1 OF 1

MK3 54/62 SEAL BAR
LARGE BORE
CYLINDERS 4X

DRAWING NO.

MA266-0011

REV

A

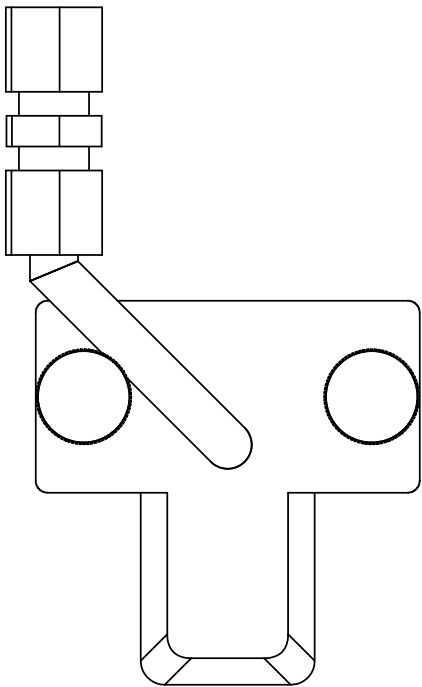
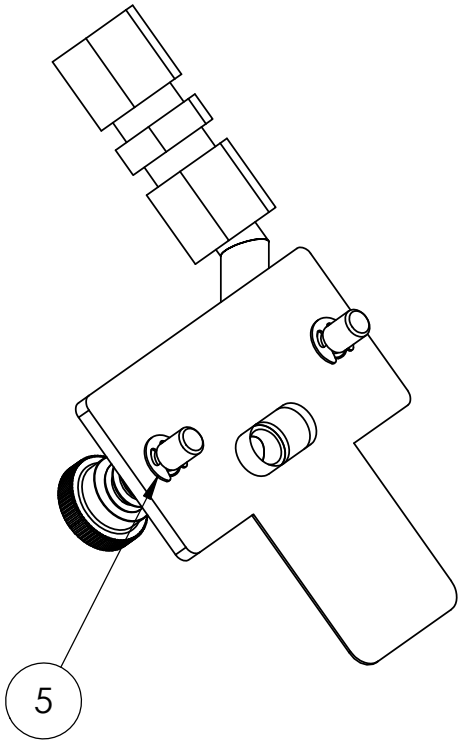
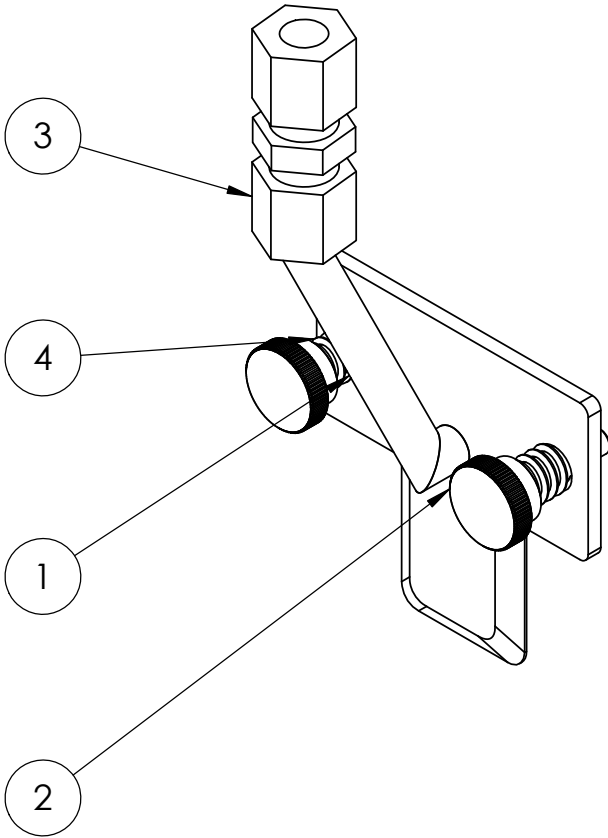
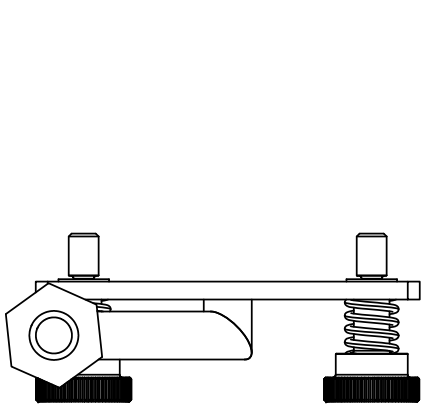
Ref. #

MA266-0011

REV A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	76101001	COVER PLATE, PROBE	1
2	75100401A	BOLT, PROBE COVER PLATE	2
3	74200701	1/2 OD TUBE UNION	1
4	75100201	SPRING, PROBE COVER PLATE	2
5	75102101	E-RING RETAINER 1/4	2

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10/29/2018	CI



MATERIAL:
STOCK NO:
STOCK SIZE:
MASS [LBS]:

FINISH:

UNLESS OTHERWISE SPECIFIED:
1. **BREAK ALL SHARP CORNERS**
2. TOLERANCES:
FRACT.=±1/64 .XXX=±.005
.XX=±.015 .XXXX=±.0005
ANGLES=±0°30'
DRILLED HOLE: STANDARD S.A.E.

CV·TEK
440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123
PHONE: 847.741.3500 | WWW.CV-TEK.COM

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.

DRAWN CI	DATE 05/23/2025	SCALE 1:2	SHEET 1 OF 1
-------------	--------------------	--------------	-----------------

COVER PLATE
ASSEMBLY

DRAWING NO.

MA271-0002

REV

A

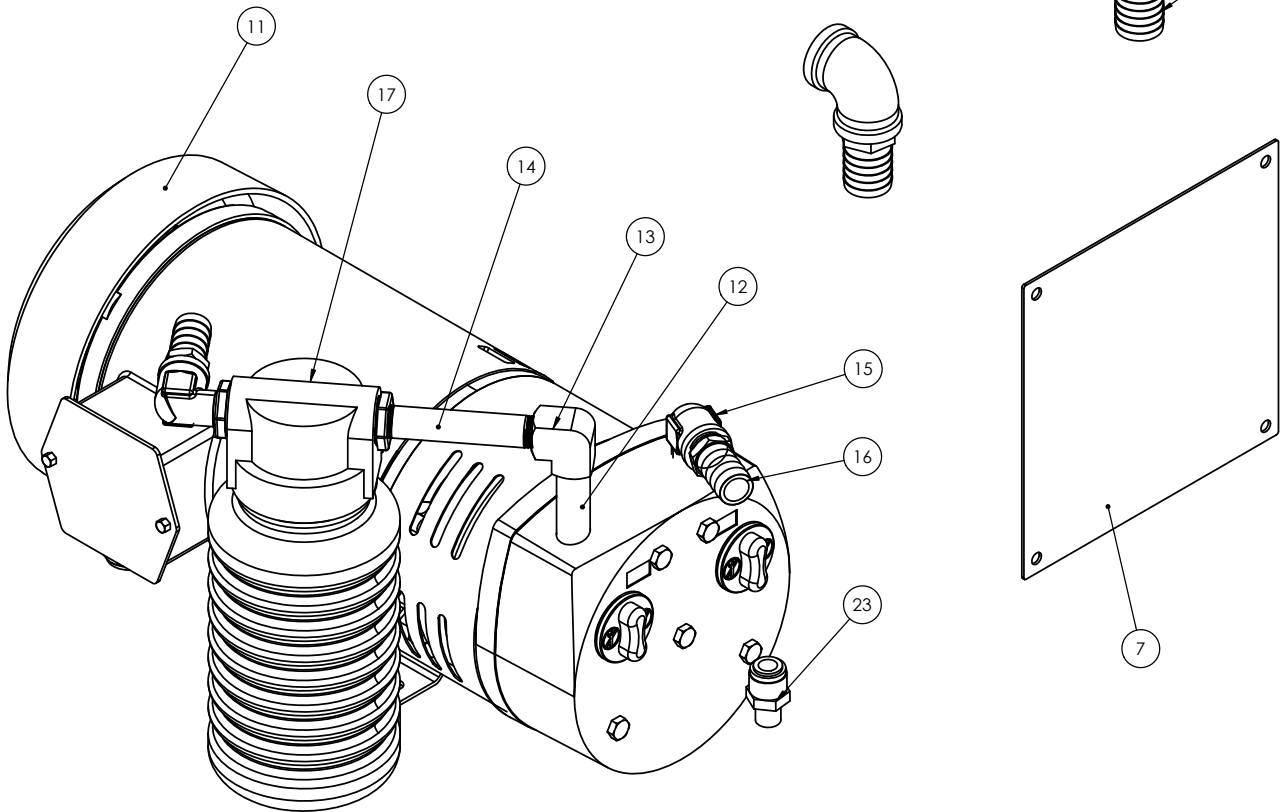
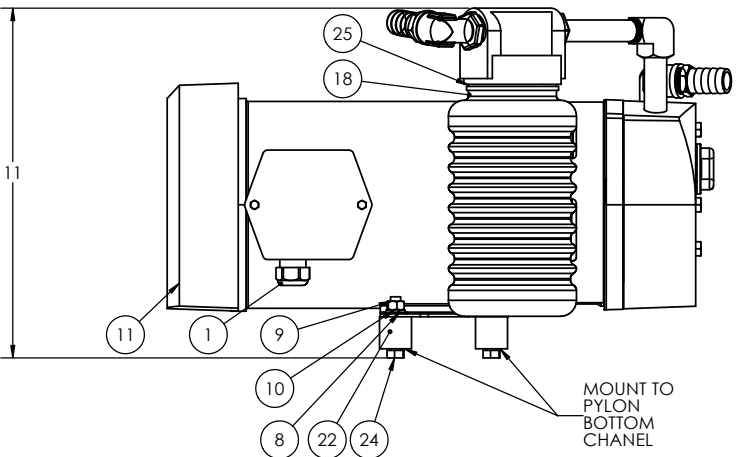
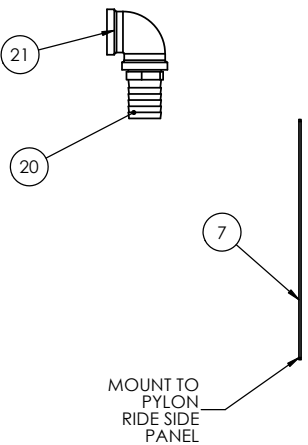
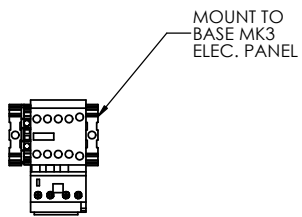
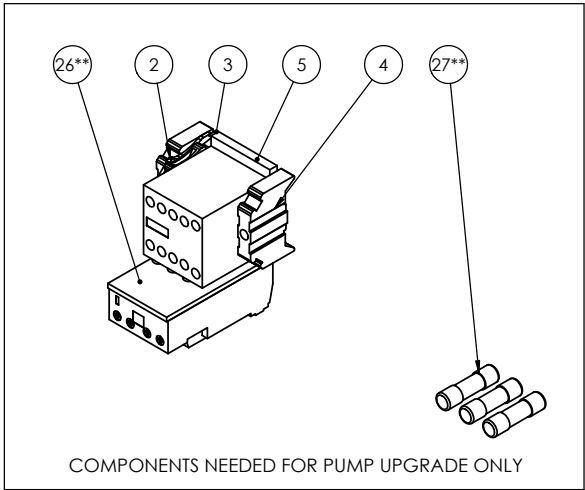
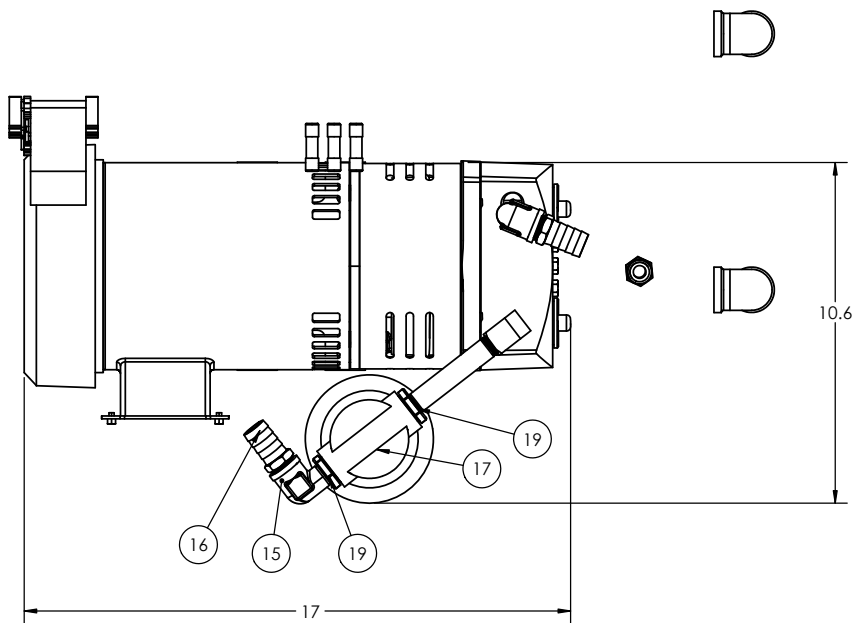
Ref. #

MA271-0002

REV A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	7707-1705	CORD GRIP, 1/2"	1
2	120747C1	END COVER, L: 65.4 MM, W: 2.2 MM, H: 47.5 MM, COLOR: GRAY	1
3	120751C1	1 TIER PE FEED THROUGH TERMINAL BLOCK; AWG:26-12; W:5.2MM; GRN/YEL	1
4	120752C1	END CLAMP, WIDTH: 9.5 MM, COLOR: GRAY	2
5	71404701	MINI CONTACTOR 24VAC	1
6	71601001	SEAL RING; 1/2 S/S	1
7	76203300	MK III COVER FAN DUCT	1
8	FW5/16-A	WASHER, FLAT	4
9	HN5/16-18	NUT, HEX	4
10	LW5/16	WASHER, LOCK	4
11	141236C1	10 CFM ROTARY VANE PUMP	1
12	74307901	3/8 NPT X 2-1/2 LONG BRASS NIPPLE	1
13	74308001	3/8 FEMALE ELBOW EXTRUDED	1
14	74309401	3/8 NPT X 4 IN PIPE NIPPLE	1
15	74304701	1/2F X 3/8M STREET ELBOW	2
16	74103101	1/2 NPT X 3/4 MALE HOSE BARB	2
17	72106101	FILTER HEAD 3/4 NPT	1
18	72201701	JAR, VACUUM FILTER, RIBBED SIDES, PLASTIC	1
19	122583C1	3/4 MALE X 3/8 FEMALE HEX BUSHING S/S	2
20	74103301	1 X 3/4 NPT MALE HOSE BARB	2
21	74300801	3/4 NPT FEMALE ELBOW, CAST BRASS	2
22	75001902	VIBRATION ISOLATION PAD	4
23	74203001	3/8 X 1/4 MALE CONN. PLASTIC	1
24	HH5/16-18X1/2	SCREW, HEX HEAD	4
25	72102001	GASKET, FILTER / EXHST HEAD AA405	1
26**	71405201	LOVATO OVERLOAD 3.0-5.0 AMP	1
27**	71401001	FUSE 6 AMP TYPE AM	3
28*	73301501	TUBING, 1 POLYWIRE	1.5 FT
29*	73302501	TUBING, 5/8 POLYWIRE	1 FT
30*	71604502	CORD 16/4 SOOW BLACK	6 FT

* NOT PICTURED
** REPLACE WITH PART# FOR VOLTAGE



VOLTAGE	FUSE F1	FUSE F2	FUSE F3	MOTOR STARTER OL SETTINGS**
208-240 VAC 3 PHASE 50/60 Hz	71402501 16 AMP	71402501 16 AMP	71402501 16 AMP	71405401 8.5
440-480 VAC 3 PHASE 60 Hz	71401001 6 AMP	71401001 6 AMP	71401001 6 AMP	71405201 3.9

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	DERIVED FROM MA250-0016 REV C	8/20/2025	AD

MATERIAL: SEE BOM STOCK NO.: SEE BOM STOCK SIZE: SEE BOM MASS [LBS]: 59.24	CV-TEK 440 S MCLEAN BLVD, ELGIN, ILLINOIS 60123 PHONE: 847.741.3500 WWW.CV-TEK.COM			MK3 VACUUM PUMP, SPARE, 10CFM	
FINISH: SEE NOTES					
UNLESS OTHERWISE SPECIFIED: 1. BREAK ALL SHARP CORNERS 2. TOLERANCES: FRACTION = ± 1/64 XXX = ± .005 XX = ± 0.15 XXXXX = ± .0005 ANGLES = ± 0°30' DRILLED HOLE: STANDARD S.A.E.			PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CV-TEK, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CV-TEK, LLC IS PROHIBITED.		
DRAWN SP			DATE 2025-08-20	SCALE 1:3	SHEET 1 OF 1
			DRAWING NO.		REV
			MA250-0038		A