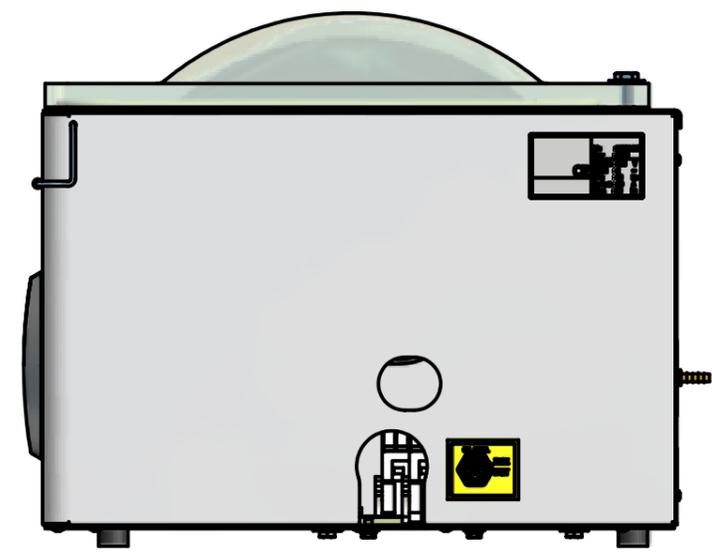
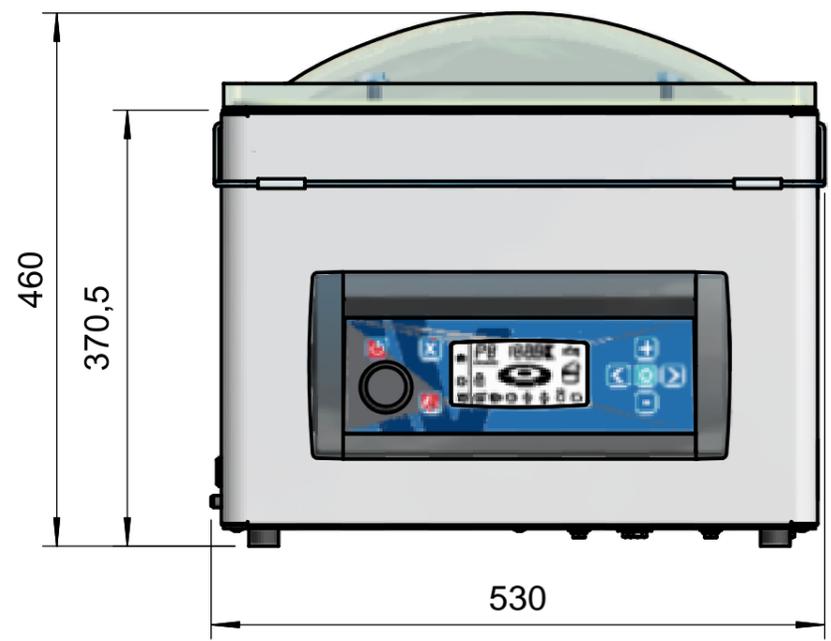
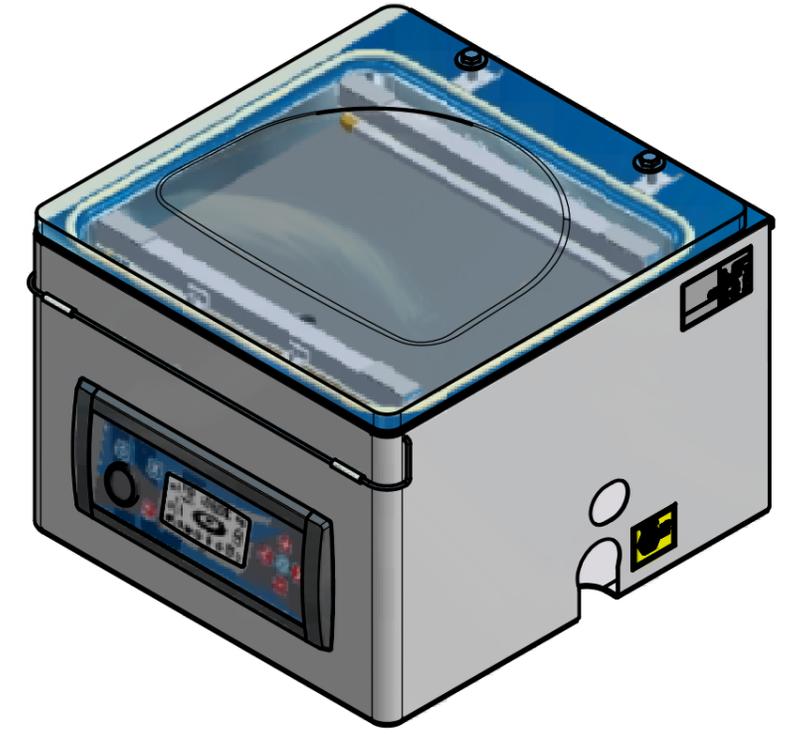


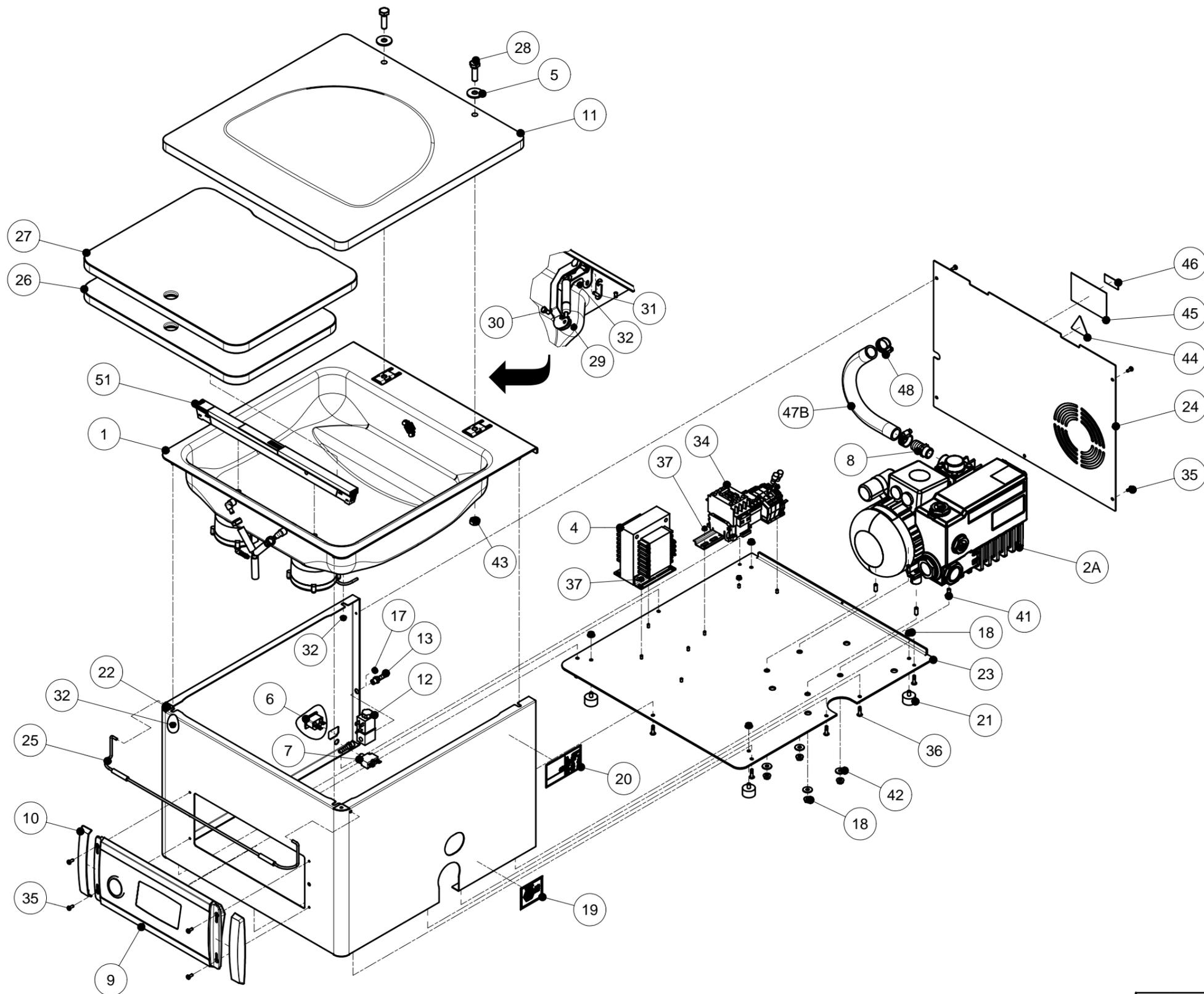
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REV	DATE	DESCRIPTION
REVISION HISTORY		

ALL DIMENSIONS IN mm TOLERANCE: According to DIN ISO 2768 Part 1-m and Part 2-K		DRAWN: P.S.	MAT :
FORMAT: Oct 2008		DATE : 14-6-2012	DIM :
NAME T4 Machine		CHECK :	FINISH:
		REPLACED BY	REPLACES
HFE VACUUM SYSTEMS PO Box 2261 5202 CG 's-Hertogenbosch Netherlands Phone: +31 (0)73 6 271 271 Fax: +31 (0)73 6 271 200		SCALE	FORM
			A3
		REV	ART. NR
			DRW. NR
			SHEET NR
			13130-1

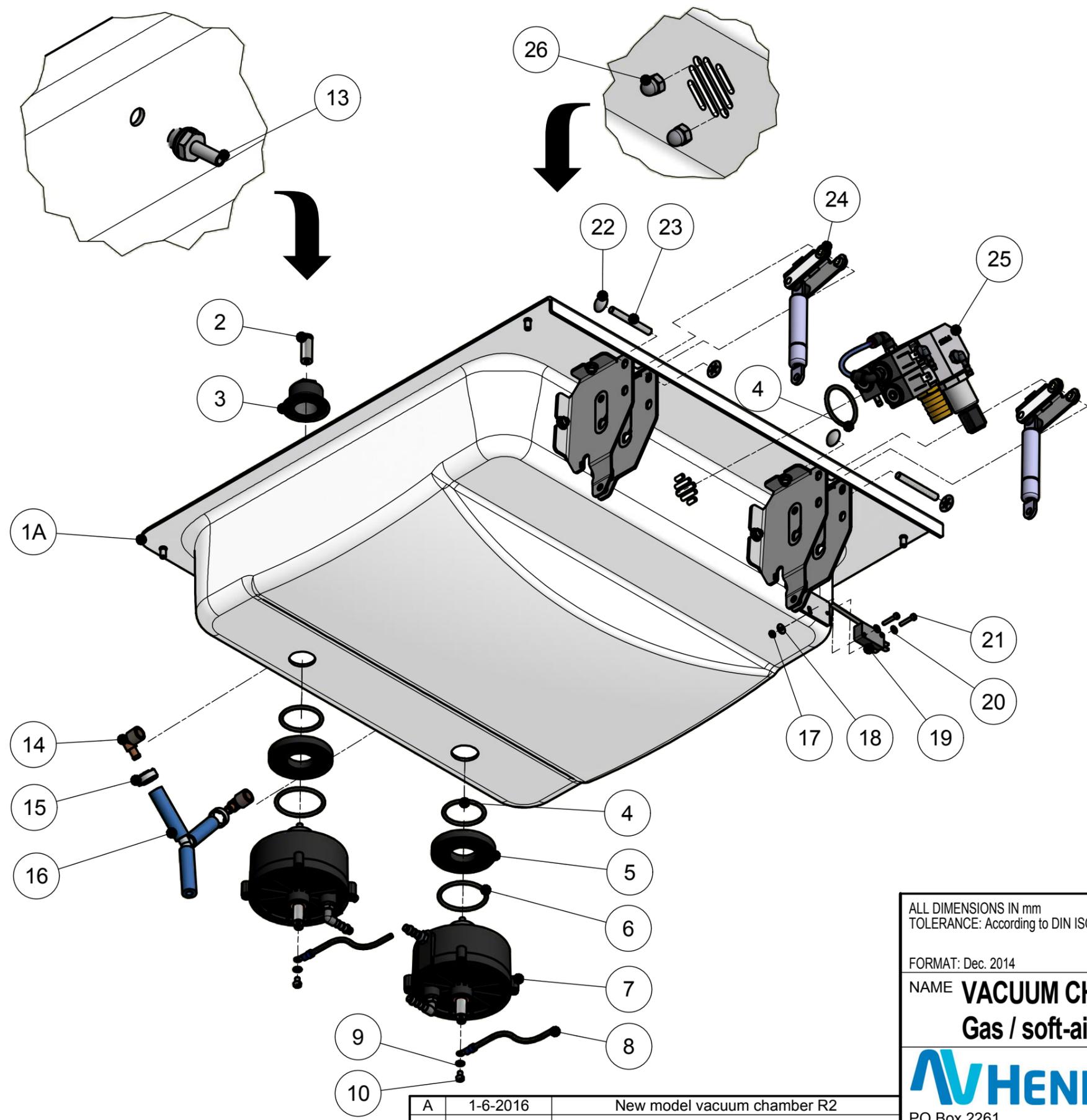
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1		T4 Vacuumbak	13131	
2A	0300.016--	Pomp 016		
2B	03.01.0----	Pomp 021		
4	11.05.0.0450	COMBI-TRAFO P100/230V-S16/24V		
5	01.21.1.0060	Washer M10		
6	1100.29000	NET ENTREE Male Snap-in STF42		
7A	1100.23010	Thermische zekering 6A		
7B	1100.23015	Thermische zekering 8A		
7C	1100.23000	Thermische zekering 10A		
8	0206.00050	Slangpilaar G1-2x19mm Bu		
9		Assembly 04 besturing	13910	
10	1218.00035	Cap small Holder 04-control		
11	A4>T4----	T4 Vacuumcover	13132	
12	03.02.0.0140A	2/2-Valve Gas 24VAC		
13	02.04.3.0010	Slangpilaar 1/8"x6mm Bu MS		
14	02.02.3.0020	T-stuk G 1 8 bi		
15	02.03.3.0010	Knie * BI/BU		
16	02.06.3.0130	Nippel bu bu G 1 8		
17	11.49.0.0030	Eima afdeknop 040-3020 zwart		
18	01.13.0.0010	Hex Flange Nut DIN 6923 - M6		
19	96.03.2.0460	Sticker oliepeil 021		
20	96.03.2.0398	Machinesticker 97 x 55 zilver		
21	1602.00015	Trildemper d=25 h=17 M6x10 uitw		
22	0901.10075	T4 Omkasting		
23	0903.10075	T4 Bodemplaat		
24	0902.10075	T4 Achterwand		
25	1701.00040	T4 Dekselsluiting		
26	1201.04030	T4 Inlegplaat onder		
27	1201.04035	T4 Inlegplaat boven		
28	0102.10035	M10x35 Hex-Head Bolt DIN 933		
29	01.12.1.0040	M6 Hex Nut DIN 985		
30	01.02.1.4012	M6x12 Hex-Head Bolt DIN 933		
31	0400.00255	Scharnier afstelplaat 6mm as		
32	01.13.0.0000	M5 Hex Nut DIN 6923		
34A	1103.20120	DIN RAIL C 1fase (1-PROGRAM)	13092	
34B	1103.20130	DIN RAIL E 1fase	13094	
34C	1103.20125	DIN RAIL D 1fase	13093	A
35	01.09.1.0030	M4x10 Cross recessed raised cheese head screws DIN 7985		
36	0199.00015	Hucknagel MAGNA-LOK MGLP-B6-4		
37	01.13.0.0020	M4 Hex Nut DIN 6923		
39	01.21.1.0050	Washer M8 DIN 9021		
40	01.02.1.5010	M8x10 Hex-Head Bolt DIN 933		
41	01.05.1.4016	M6x16 Hexagon Socket Set Screw DIN 916		
42	01.21.1.0040	Washer M6		
43	01.10.1.0060	M10 Hex Nut DIN 934		
44	96.03.2.1090	Sticker spanning driehoek		
45	96.03.2.1110	Sticker 98 x 65 geel		
46	96.03.2.1100	Sticker 19x38 geel		
47A	1802.00080	T4-21m³ Pompslang		
47B	1802.00075	T4-16m³ Pompslang		
48	02.01.2.0080	Slangklem ABA 15-24mm		
51A	9403.30420	Sealbak TS-3-420		
51B	9402.30420	Sealbak DS-3-420		
POS	ART. NR	DESCRIPTION	DRW. NR	R

ALL DIMENSIONS IN mm TOLERANCE: According to DIN ISO 2768 Part 1-m and Part 2-K		DRAWN: P.S.	MAT:
FORMAT: Oct 2008		DATE : 14-6-2012	DIM:
NAME T4 Machine Exploded view		CHECK:	FINISH:
HFE VACUUM SYSTEMS PO Box 2261 5202 CG 's-Hertogenbosch Netherlands Phone: +31 (0)73 6 271 271 Fax: +31 (0)73 6 271 200		REM:	
		REPLACED BY	REPLACES
SCALE 1:6		FORM A2	ART. NR
REV		DRW. NR	SHEET NR
			13130-2

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1A	1001.10100A	VACUUM CHAMBER T4 GAS R2		
1B	1001.10080A	VACUUM CHAMBER T4 R2		
1C	1001.10085A	VACUUM CHAMBER T4-LL R2		
1D	1001.10110A	T4-LL VACUUMBAK GAS R2		
2	0803.00010	EXTENSION FOR SEAL CYLINDER 27mm		
3	03.03.1.0090	PLASTIC NUT M24		
4	12.07.0.1070	O- RING 34X3		
5	03.03.1.0096	DISTANCE RING 8MM FOR SEAL CILINDER 90MM		
6	12.07.0.1100	O-RING 40X3		
7	1899.00005	SEALCYLINDER 90MM TROUGH SHAFT ASSEMB.		
8	1103.10025	SEAL WIRE C1-		
9	01.22.1.0020	Spring Washer DIN 127 - A 4		
10	01.06.1.2006	M4x6 Slotted Cheese Head Screw DIN 84		
13	1315.00060	HOSE BARB 1/8 "X6MM		
14	02.03.3.0090	ELBOW BRASS FOR GASPIPE		
15	02.01.2.0030	Hose clamp		
16	1802.00095	T4 HOSE-TREE		
17	01.10.1.0010	M3 Hex Nut DIN 934 -		
18	01.21.1.0010	M3 Washer DIN 9021		
19	11.02.0.0620	Cover switch		
20	01.20.1.0010	Washer M3 DIN 125		
21	01.06.1.1016	M3x16 Slotted Cheese Head Screw DIN 84		
22	01.23.1.0015	CAP 6mm		
23	0802.00180	PIVOT T3		
24	1804.00015	HINGE T4 ASSEMBLED	13060	
25	1805.00---	Comb.valve model-I	13050	B
26	01.11.1.0050	M5 Hexagon Domed Cap Nuts DIN 1587		
POS	ART. NR	DESCRIPTION	DRW. NR	R

REV	DATE	DESCRIPTION
A	1-6-2016	New model vacuum chamber R2

REVISION HISTORY

ALL DIMENSIONS IN mm
TOLERANCE: According to DIN ISO 2768 Part 1-m and Part 2-K

FORMAT: Dec. 2014

DRAWN: Peter
DATE : 25-4-2012
CHECK :
FINISH:

NAME **VACUUM CHAMBER T4**
Gas / soft-air / less vacuum

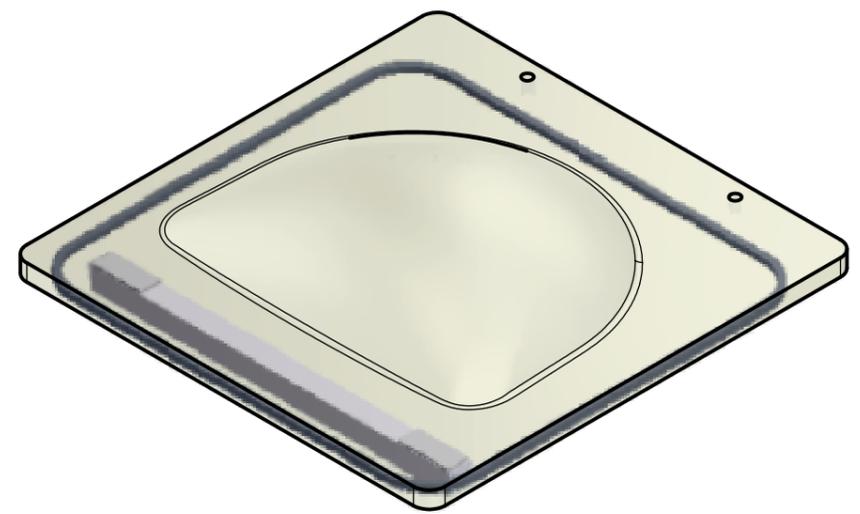
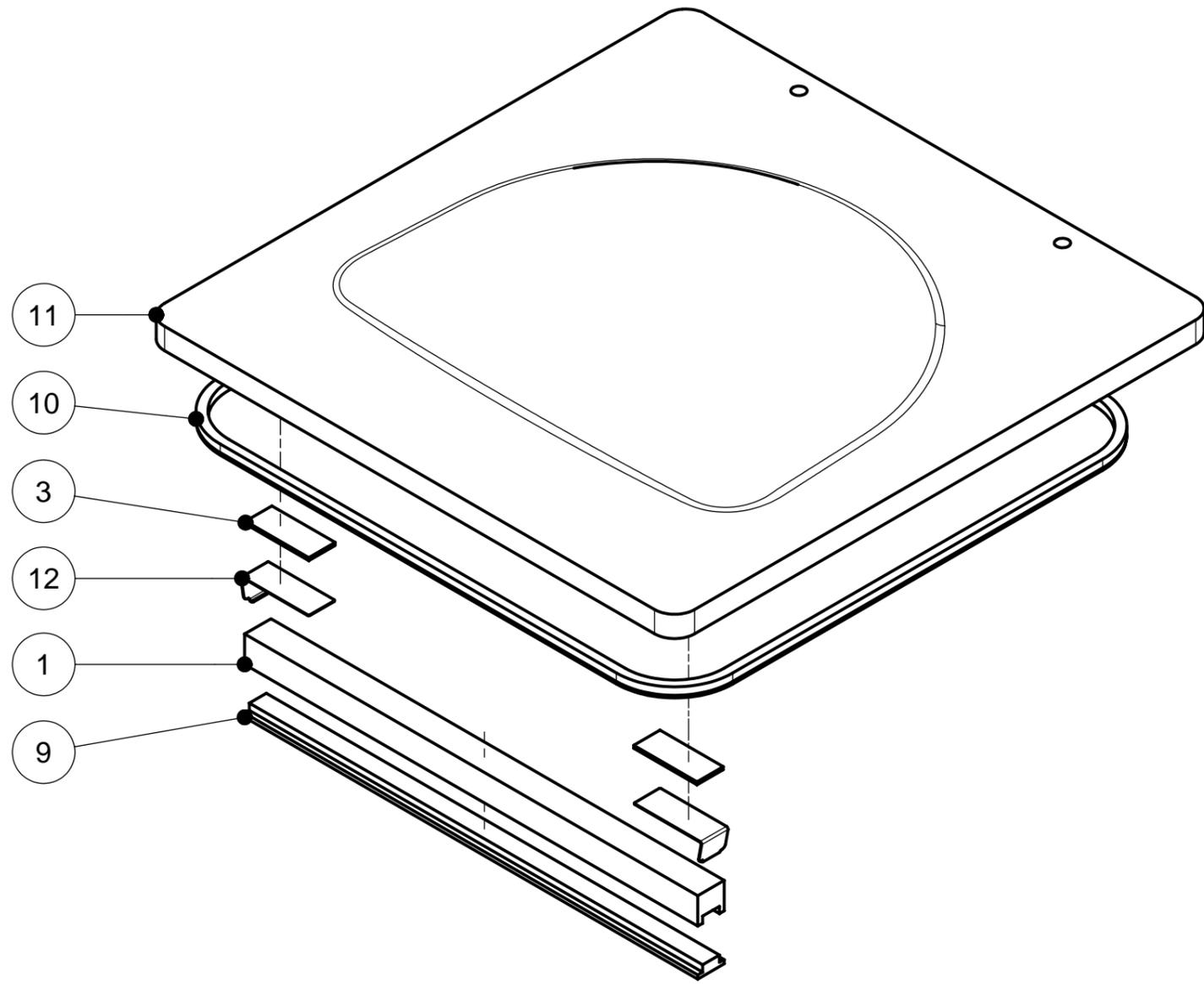
REM :
REPLACED BY
REPLACES

HENKOVAC

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5202 CG 's-Hertogenbosch Netherlands
Phone: +31 (0)73 6 271 271

SCALE **1 : 4**
FORM **A3**
ART. NR
REV **A**
DRW. NR **13131-1**
SHEET NR

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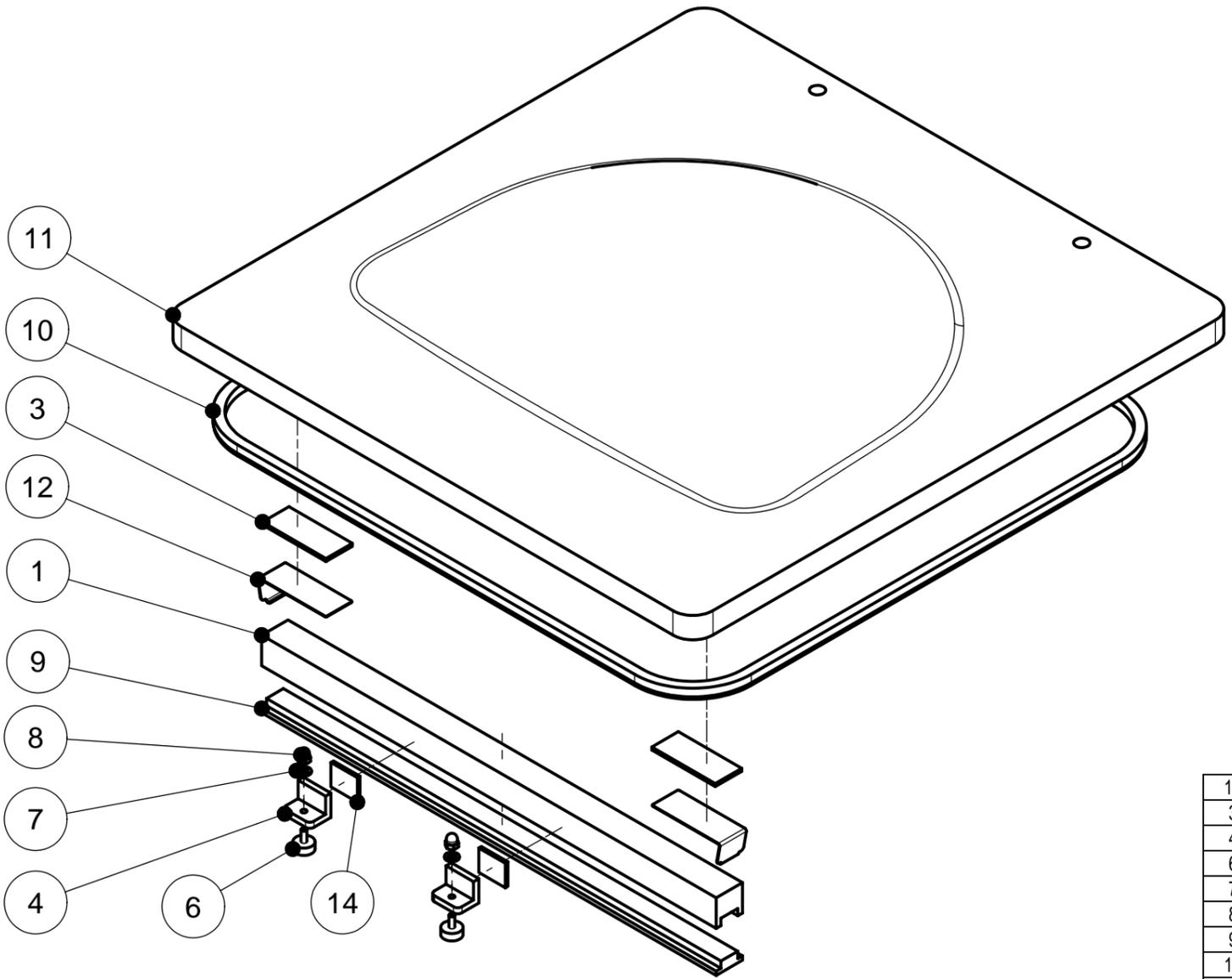


POS	ART. NR	DESCRIPTION	DIMENSIONS
1	9410.00150	Siliconenhouder T4	
3	0501.10000	Acryltape Dubbelzijdig 25mm, L=60mm	
9	12.05.0.5150	Silicone T-profiel	Lengte = 0,42 mtr
10	12.05.0.5010	Silicone profiel 8mm - 60°	Lengte = 1,9 mtr
11	1003.10035	T4 Vacuumdeksel	
12	0605.00025	Klemveer siliconenhouder	
14	0501,10000	Acryltape Dubbelzijdig 25mm, L=20mm	

ALL DIMENSIONS IN mm TOLERANCE: According to DIN ISO 2768 Part 1-m and Part 2-K		DRAWN: P.S.		MAT :	
FORMAT: Oct 2008		DATE : 23-8-2012		DIM :	
NAME T4 Vacuumcover Long (art.nr: A4>T4)		CHECK :		FINISH:	
HFE VACUUM SYSTEMS PO Box 2261 5202 CG 's-Hertogenbosch Netherlands Phone: +31 (0)73 6 271 271 Fax: +31 (0)73 6 271 200		SCALE 1:4		FORM A3	
		ART. NR A4>T4----		REVISION HISTORY	
REVISION HISTORY		REV A		ART. NR 13132-1	
		DRAWING SYMBOL		DRW. NR 13132-1	
				SHEET NR	

REV	DATE	DESCRIPTION
REVISION HISTORY		

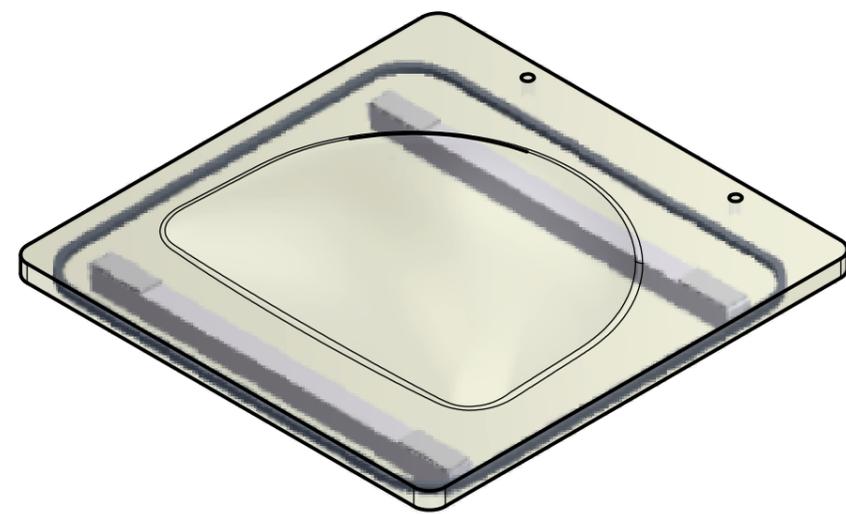
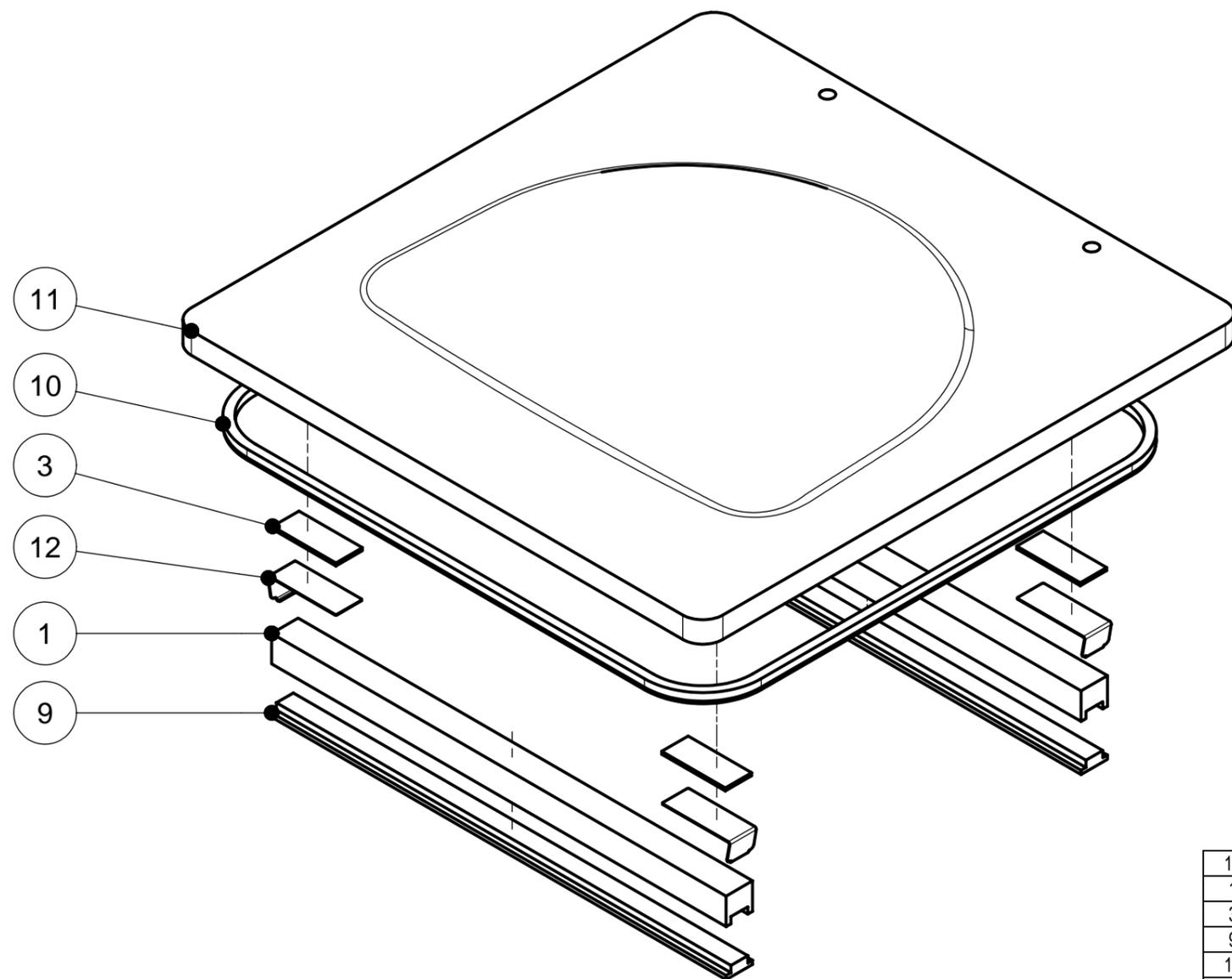
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POS	ART. NR	DESCRIPTION	DRW. NR	R	MATERIAL	DIMENSIONS
14	0501.10000	Acryltape Dubbelzijdig 25mm, L=20mm			Polyaryletherketone Resin	
3	0501.10000	Acryltape Dubbelzijdig 25mm, L=60mm			Polyaryletherketone Resin	
4	08.08.1.7010	Steun trildemper Vacuumzakhouder	59740		3.3206 (AlMgSi0,5)	
6	12.08.0.0030	Trildemper d=15 h=6 M5x10			Rubber	
7	01.20.1.0030	Washer M5 DIN 125			A2	
8	01.11.1.0050	M5 Hexagon Domed Cap Nuts DIN 1587			Steel, Mild	
9	12.05.0.5150	Silicone T-profiel			Silicone	Lengte = 0,42 mtr
10	12.05.0.5010	Silicone profiel 8mm - 60°			Silicone 60±5° Shore A	Lengte = 1,9 mtr
11	1003.10035	T4 Vacuumdeksel	13041	B	PMMA	
12	0605.00025	Klemveer siliconenhouder	13085	A	1.4310 Verenstaal RVS	

ALL DIMENSIONS IN mm TOLERANCE: According to DIN ISO 2768 Part 1-m and Part 2-K		DRAWN: P.S.		MAT :	
FORMAT: Oct 2008		DATE : 23-8-2012		DIM :	
NAME T4 Vacuumcover Long / Gas (art.nr: A4>T4-GAS)		CHECK :		FINISH:	
HFE VACUUM SYSTEMS PO Box 2261 5202 CG 's-Hertogenbosch Netherlands Phone: +31 (0)73 6 271 271 Fax: +31 (0)73 6 271 200		SCALE 1:4		FORM A3	
		ART. NR A4>T4----		REPLACES	
		REV A		DRW. NR 13132-2	
		SHEET NR			

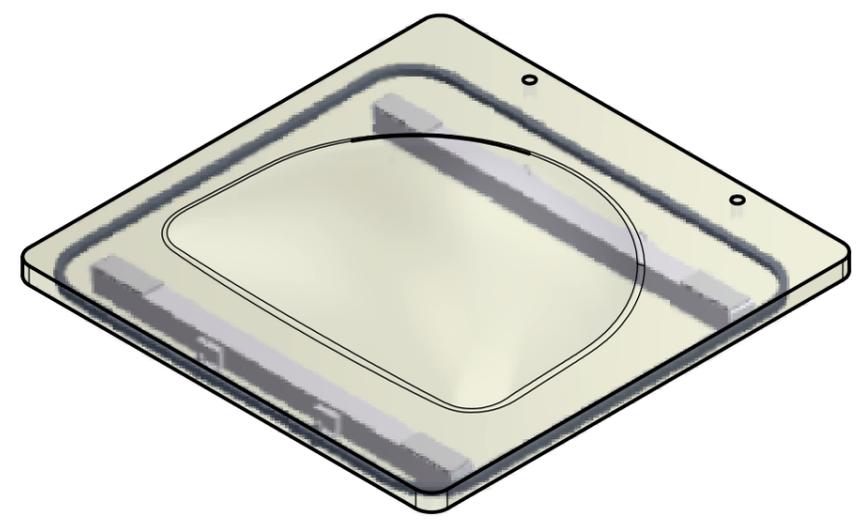
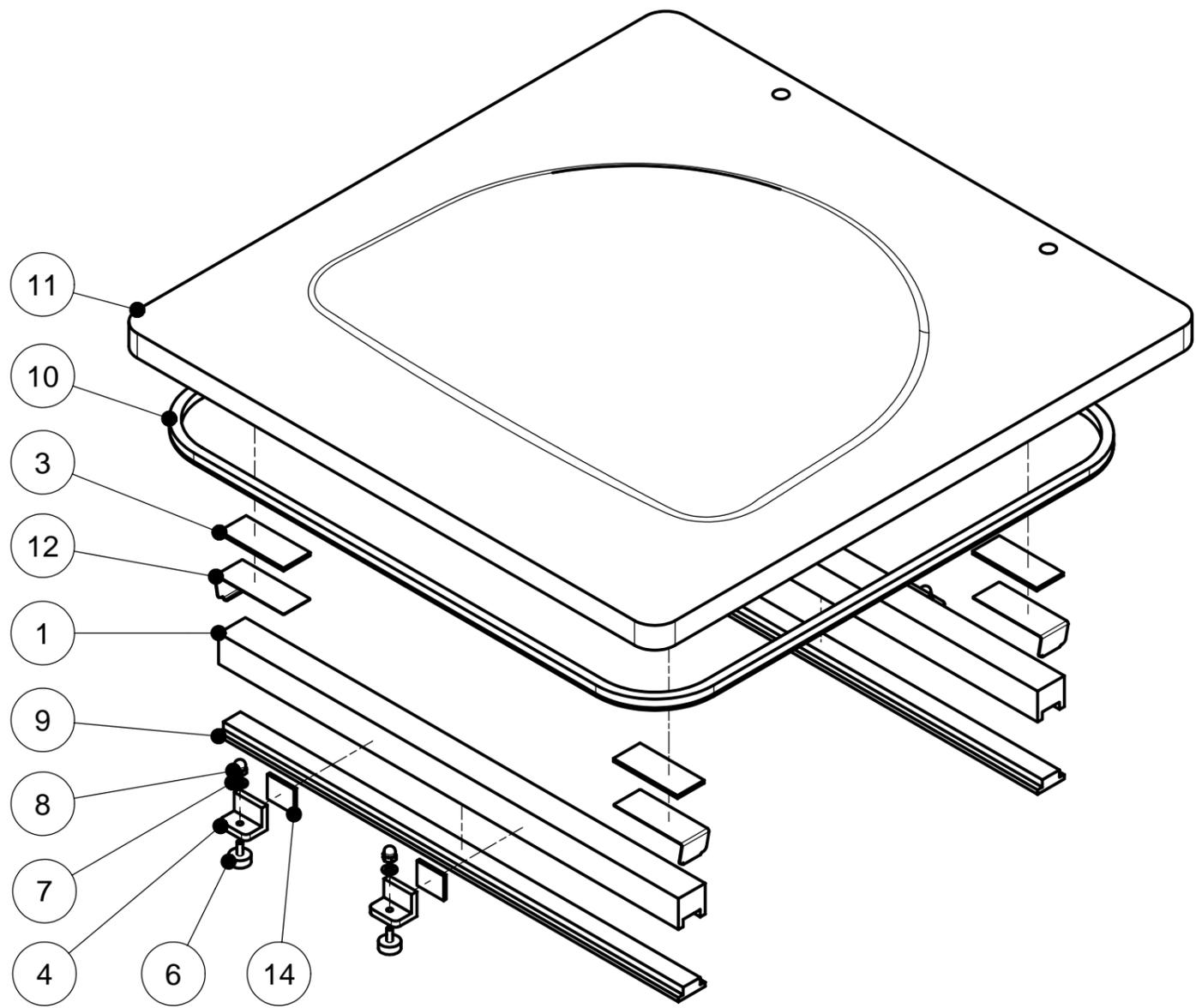
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POS	ART. NR	DESCRIPTION	DRW. NR	R	MATERIAL	DIMENSIONS
14	0501.10000	Acryltape Dubbelzijdig 25mm, L=20mm			Polyaryletherketone Resin	
1	9410.00150	Siliconenhouder T4	13056		3.3206 (AlMgSi0,5)	
3	0501.10000	Acryltape Dubbelzijdig 25mm, L=60mm			Polyaryletherketone Resin	
9	12.05.0.5150	Silicone T-profiel			Silicone	Lengte = 0,42 mtr
10	12.05.0.5010	Silicone profiel 8mm - 60°			Silicone 60±5° Shore A	Lengte = 1,9 mtr
11	1003.10035	T4 Vacuumdeksel	13041	B	PMMA	
12	0605.00025	Klemveer siliconenhouder	13085	A	1.4310 Verenstaal RVS	

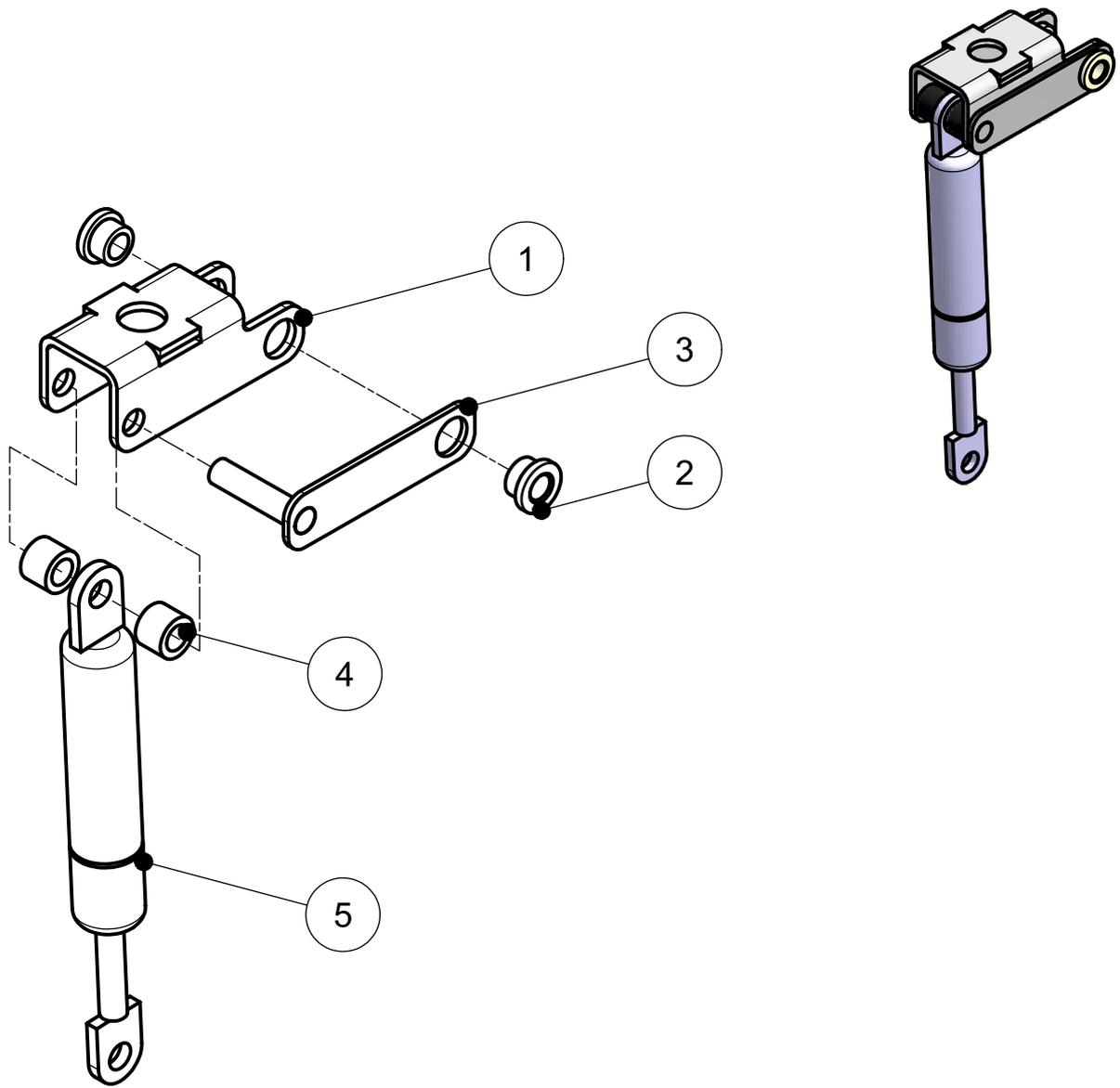
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FORMAT: Oct 2008		DATE : 23-8-2012		DIM :	
NAME T4 Vacuumcover Long-Long (art.nr: A4>T4-LL)		CHECK :		FINISH:	
HFE VACUUM SYSTEMS PO Box 2261 5202 CG 's-Hertogenbosch Netherlands Phone: +31 (0)73 6 271 271 Fax: +31 (0)73 6 271 200		SCALE 1:4		FORM A3	
		ART. NR A4>T4----		DRW. NR 13132-3	
		SHEET NR 13132-3			

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1	9410.00150	Siliconenhouder T4	13056	3.3206 (AlMgSi0,5)		
3	0501.10000	Acryltape Dubbelzijdig 25mm, L=60mm		Polyaryletherketone Resin		
4	08.08.1.7010	Steun trildemper Vacuumzakhouder	59740	3.3206 (AlMgSi0,5)		
6	12.08.0.0030	Trildemper d=15 h=6 M5x10		Rubber		
7	01.20.1.0030	Washer M5 DIN 125		A2		
8	01.11.1.0050	M5 Hexagon Domed Cap Nuts DIN 1587		Steel, Mild		
9	12.05.0.5150	Silicone T-profiel		Silicone	Lengte = 0,42 mtr	
10	12.05.0.5010	Silicone profiel 8mm - 60°		Silicone 60±5° Shore A	Lengte = 1,9 mtr	
11	1003.10035	T4 Vacuumdeksel	13041	B PMMA		
12	0605.00025	Klemveer siliconenhouder	13085	A 1.4310 Verenstaal RVS		
14	0501.10000	Acryltape Dubbelzijdig 25mm, L=20mm		Polyaryletherketone Resin		
POS	ART. NR	DESCRIPTION	DRW. NR	R	MATERIAL	DIMENSIONS

ALL DIMENSIONS IN mm TOLERANCE: According to DIN ISO 2768 Part 1-m and Part 2-K		DRAWN: P.S.		MAT :	
FORMAT: Oct 2008		DATE : 23-8-2012		DIM :	
		CHECK :		FINISH:	
NAME T4 Vacuumcover Long-Long / Gas (art.nr: A4>T4-LL-GAS)				REM :	
				REPLACED BY	
				REPLACES	
HFE VACUUM SYSTEMS PO Box 2261 5202 CG 's-Hertogenbosch Netherlands Phone: +31 (0)73 6 271 271 Fax: +31 (0)73 6 271 200		SCALE 1:4		FORM A3	
		ART. NR A4>T4----		DRW. NR 13132-4	
		REV A		SHEET NR	



1	0401.00055	Scharnierdeel T3	1
2	1500.00005	Glijlager 6x9x6	2
3	0400.00360	Borgplaat scharnierdeel	1
4	0199.00025	Afstandbus skiffy 6,2x10x7,5	2
5	0601.00000	GASVEER 350N MET DYN. EINDEMP	1
POS	ART. NR	DESCRIPTION	QTY

ALL DIMENSIONS IN mm
TOLERANCE: According to DIN ISO 2768 Part 1-m and Part 2-K

FORMAT: Oct 2008

NAME **Scharnierdeel T4 geassembleerd**
350N

HFE VACUUM SYSTEMS

PO Box 2261
5202 CG 's-Hertogenbosch Netherlands
Phone: +31 (0)73 6 271 271
Fax: +31 (0)73 6 271 200

DRAWN: P.S.

DATE : 2-8-2012

CHECK :

MAT :

DIM :

FINISH:

REM :

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SCALE

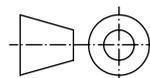
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FORM

A4

ART. NR

1804.00015



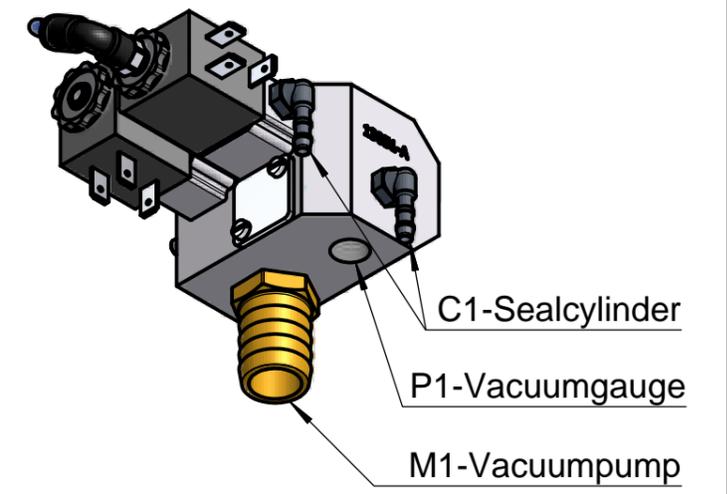
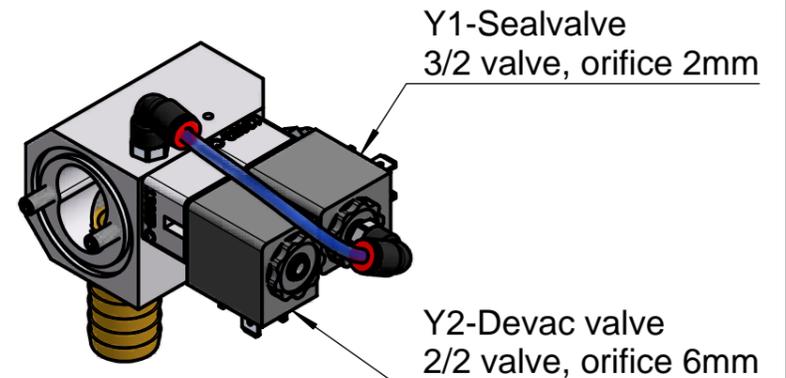
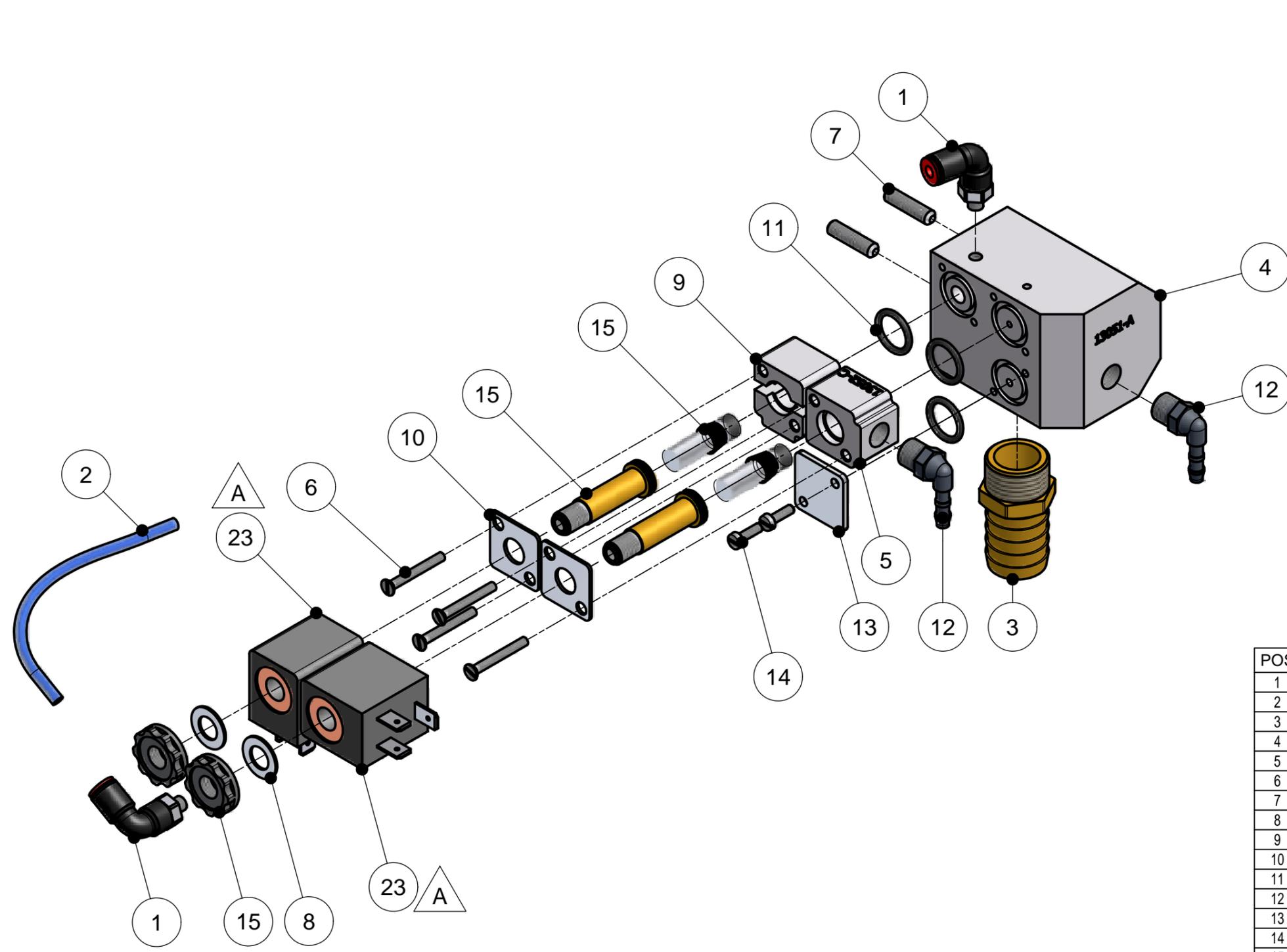
REV

DRW. NR

SHEET NR

13060-4

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POS	ART. NR	DESCRIPTION	DRW. NR	R
1	13.30.0.0270	knie M5 4mm		
2	13.40.0.0480	Perslucht slang 4x2		
3	0206.00050	Slangpilaar G1-2x19mm Bu		
4	0804.00165	Basisblok combinatie ventiel model-I	13051	A
5	0804.00175	2,5mm Adapter ventielenblok	13052	C
6	0107.03025	M3 x 25 Countersunk Screw DIN 963		
7	01.05.1.3020	M5x20 Hexagon Socket Set Screw DIN 916		
8	0122.40050	M8 Crinkle Washer DIN 137		
9	0804.00180	6mm Adapter ventielenblok	13053	C
10	0401.00070	Klemplaat ventiel armatuur	13072	
11	0503.10015	O-ring 12x2mm		
12	02.04.4.0010	Slangpilaar 1/8" x 4 BU H NORMA		
13	0401.00075	Blindplaat combi-ventiel	13073	
14	01.06.1.1010	M3x10 Slotted Cheese Head Screw DIN 84		
15	1304.00030	3-2 armatuur met 8mm seal		
23	1100.40010	Spoel 24VAC 8,5VA		

REV	DATE	DESCRIPTION
A	27-03-2014	Spoel t.b.v. seal- en beluchting ventiel 8,5VA & Soft-air ventiel 5,5VA
REVISION HISTORY		

ALL DIMENSIONS IN mm
TOLERANCE: According to DIN ISO 2768 Part 1-m and Part 2-K

FORMAT: Oct 2008

NAME **Combination valve model-I LV, art.nr: 1805.00005**

HFE VACUUM SYSTEMS
PO Box 2261
5202 CG 's-Hertogenbosch Netherlands
Phone: +31 (0)73 6 271 271
Fax: +31 (0)73 6 271 200

DRAWN: P.S.
DATE: 23-5-2013
CHECK:

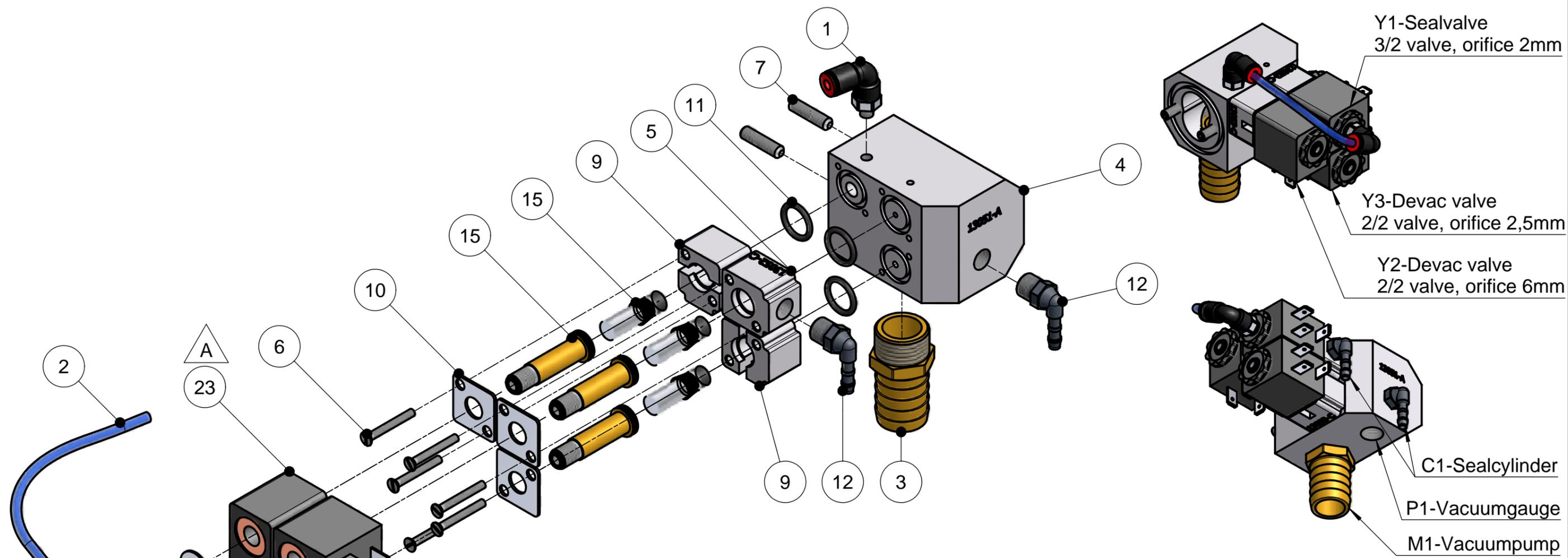
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FORM: **A3**
ART. NR: **1805.00---**

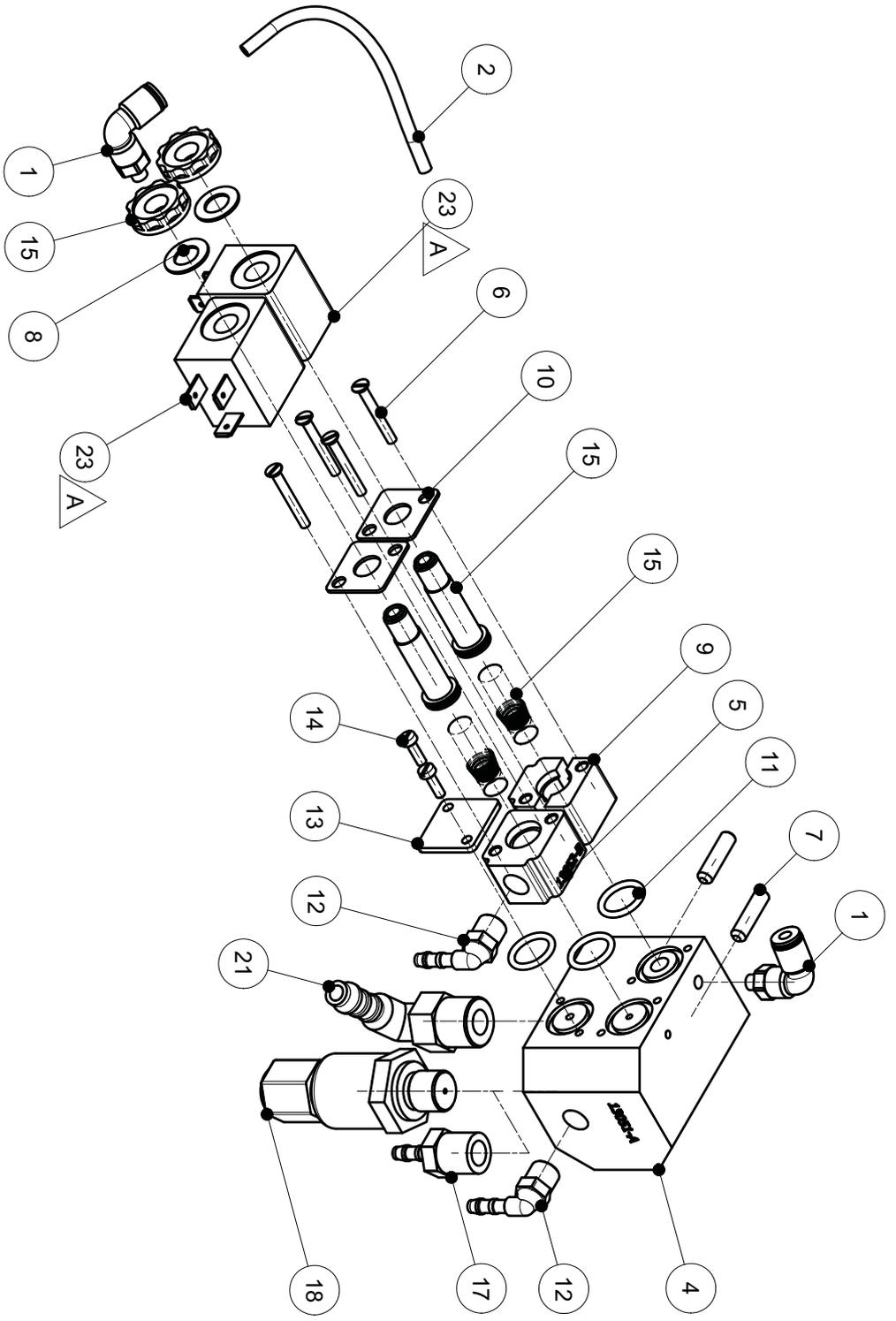
REV: **A**
DRW. NR: **13050-1**
SHEET NR:

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POS	ART. NR	DESCRIPTION	DRW. NR	R
1	13.30.0.0270	knie M5 4mm		
2	13.40.0.0480	Persluchtslang 4x2		
3	0206.00050	Slangpilaar G1-2x19mm Bu		
4	0804.00165	Basisblok combinatie ventiel model-I	13051	A
5	0804.00175	2,5mm Adapter ventielenblok	13052	C
6	0107.03025	M3 x 25 Countersunk Screw DIN 963		
7	01.05.1.3020	M5x20 Hexagon Socket Set Screw DIN 916		
8	0122.40050	M8 Crinkle Washer DIN 137		
9	0804.00180	6mm Adapter ventielenblok	13053	C
10	0401.00070	Klemplaat ventiel armatuur	13072	
11	0503.10015	O-ring 12x2mm		
12	02.04.4.0010	Slangpilaar 1/8" x 4 BU H NORMA		
15	1304.00030	3-2 armatuur met 8mm seal		
16	1100.40005	Spoel 24VAC 5,5VA		
23	1100.40010	Spoel 24VAC 8,5VA		

ALL DIMENSIONS IN mm TOLERANCE: According to DIN ISO 2768 Part 1-m and Part 2-K		DRAWN: P.S.	MAT:						
FORMAT: Oct 2008		DATE : 23-5-2013	DIM:						
NAME Combination valve model-I SA/LV, art.nr: 1805.00010		CHECK:	FINISH:						
HFE VACUUM SYSTEMS PO Box 2261 5202 CG 's-Hertogenbosch Netherlands Phone: +31 (0)73 6 271 271 Fax: +31 (0)73 6 271 200		REPLACED BY	REPLACES						
		SCALE 1:1,5	FORM A3	ART. NR 1805.00---					
REVISION HISTORY <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>27-03-2014</td> <td>Spoel t.b.v. seal- en beluchting ventiel 8,5VA & Soft-air ventiel 5,5VA</td> </tr> </tbody> </table>		REV	DATE	DESCRIPTION	A	27-03-2014	Spoel t.b.v. seal- en beluchting ventiel 8,5VA & Soft-air ventiel 5,5VA	REV A	DRW. NR 13050-2
REV	DATE	DESCRIPTION							
A	27-03-2014	Spoel t.b.v. seal- en beluchting ventiel 8,5VA & Soft-air ventiel 5,5VA							
			SHEET NR						



POS	ART. NR	DESCRIPTION
1	13.300.0270	kleie M5 4mm
2	13.400.0480	Peristichsling 4x2
4	0804.00165	Basishok combinatie ventiel model-I
5	0804.00175	2,5mm Adapter ventielblok
6	0107.03025	M3 x 25 Countersink Screw DIN 963
7	01.05.1.3020	M5x20 Hexagon Socket Set Screw DIN 916
8	0122.40050	M8 Circle Washer DIN 137
9	0804.00180	6mm Adapter ventielblok
10	0401.00070	Klemplaat ventiel armatuur
11	0503.10015	O-ring 12x2mm
12	02.04.4.0010	Slangplaat 1/8" x 4 BU H NORMA
13	0401.00075	Blijplaat combi-ventiel
14	01.06.1.1010	M3x10 Slotted Cheese Head Screw DIN 84
15	1304.00030	3-2 armatuur met 8mm seal
17	02.04.4.0065	Slangplaat 1/4x4 BU Rech Norm
18	1102.90015	Vacuum transistor 0-1050mBar
20	02.06.3.0080	Verloopring 1.2 - 1.4
21	02.04.4.0045	Square hose coupling 3/8"x8 Norma
23	1100.40010	Spoel 24VAC 8.5VA

ALL DIMENSIONS IN mm
 TOLERANCE: According to DIN ISO 2768 Part 1-m and Part 2-K

FORMAT: Oct 2008

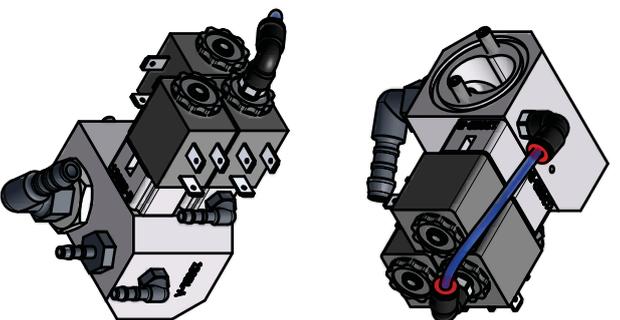
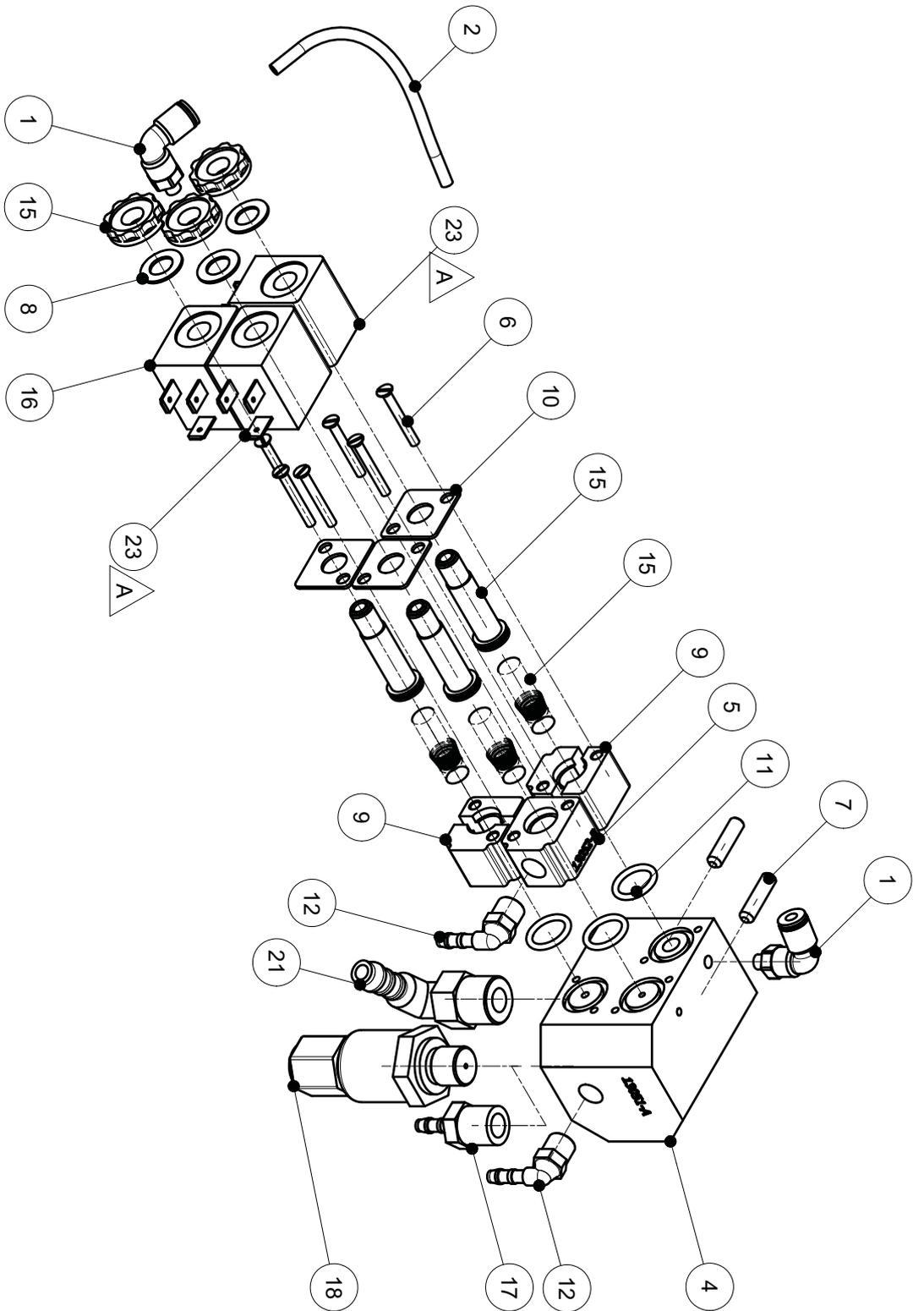
NAME: **Combination valve model-I**
 LV-8m³ Vac.pump, art.nr: 1805.00006

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SCALE: 1:1,5	FORM: A3	ART. NR
REV: A	DRW. NR: 13050-3	SHEET NR
CHECK:	REPLACED BY	REPLACES
DATE: 23-5-2013	REPLACED BY	REPLACES
FINISH:	REPLACED BY	REPLACES
DRAWN: P.S.	REPLACED BY	REPLACES
MAT:	REPLACED BY	REPLACES
DATE: 23-5-2013	REPLACED BY	REPLACES
DIM:	REPLACED BY	REPLACES
FINISH:	REPLACED BY	REPLACES
REPLACED BY	REPLACED BY	REPLACES

REV	DATE	DESCRIPTION
A	27-03-2014	Spoel t.b.v. seal- en beluchting ventiel 8.5VA & Soft-air ventiel 5.5VA

REVISION HISTORY



POS	ART. NR	DESCRIPTION
1	13.30.0.0270	klein M5 4mm
2	13.40.0.0480	Peristolslang 4x2
4	0804.007165	Basishok combinatie ventiel model-I
5	0804.001715	2.5mm Adapter Ventielblok
6	0107.03025	M3 x 25 Countersink Screw DIN 963
7	01.05.1.3020	M5x20 Hexagon Socket Set Screw DIN 916
8	0122.40050	M8 Crinkle Washer DIN 137
9	0804.007180	6mm Adapter ventielblok
10	0401.00070	Klemmaat ventiel armatuur
11	0503.10015	O-ring 12x2mm
12	02.04.4.0010	Slangpieler 1/8" x 4 BU H NORMA
15	1304.00030	3-2 armatuur met 8mm seal
16	1100.40005	Spoel 2V/VAC 5.5VA
17	02.04.4.0065	Slangpieler 1/4 BU Reecht Norma
18	1102.30015	Vacuüm transmissor 0-1050mBar
20	02.06.3.0080	Verloopring 1.2 - 1.4
21	02.04.4.0045	Square hose coupling 3/8"x8 Norma
23	1100.40010	Spoel 2V/VAC 8.5VA

ALL DIMENSIONS IN mm
TOLERANCE: According to DIN ISO 2768 Part 1-n and Part 2-k

FORMAT: Oct 2008

NAME **Combination valve model-I**
SAL/V-8m³ Vac.pump, art.nr: 1805.00011

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DRAWN: P.S.
DATE: 23-5-2013
CHECK:

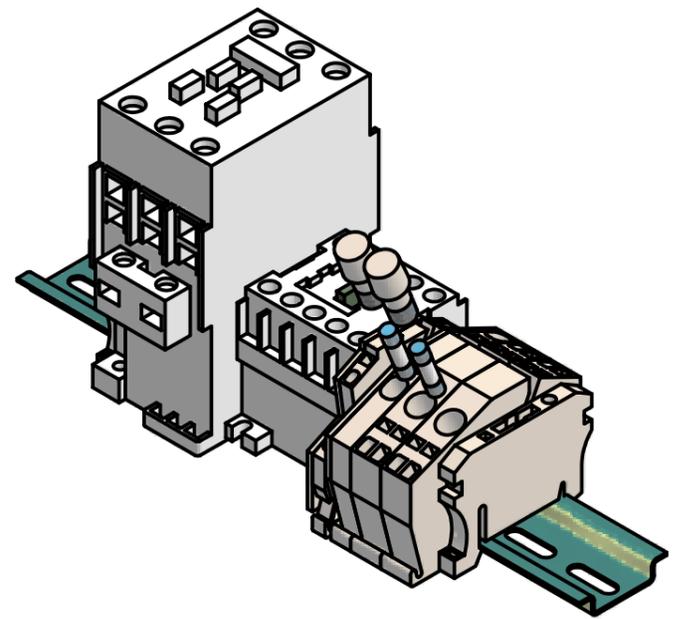
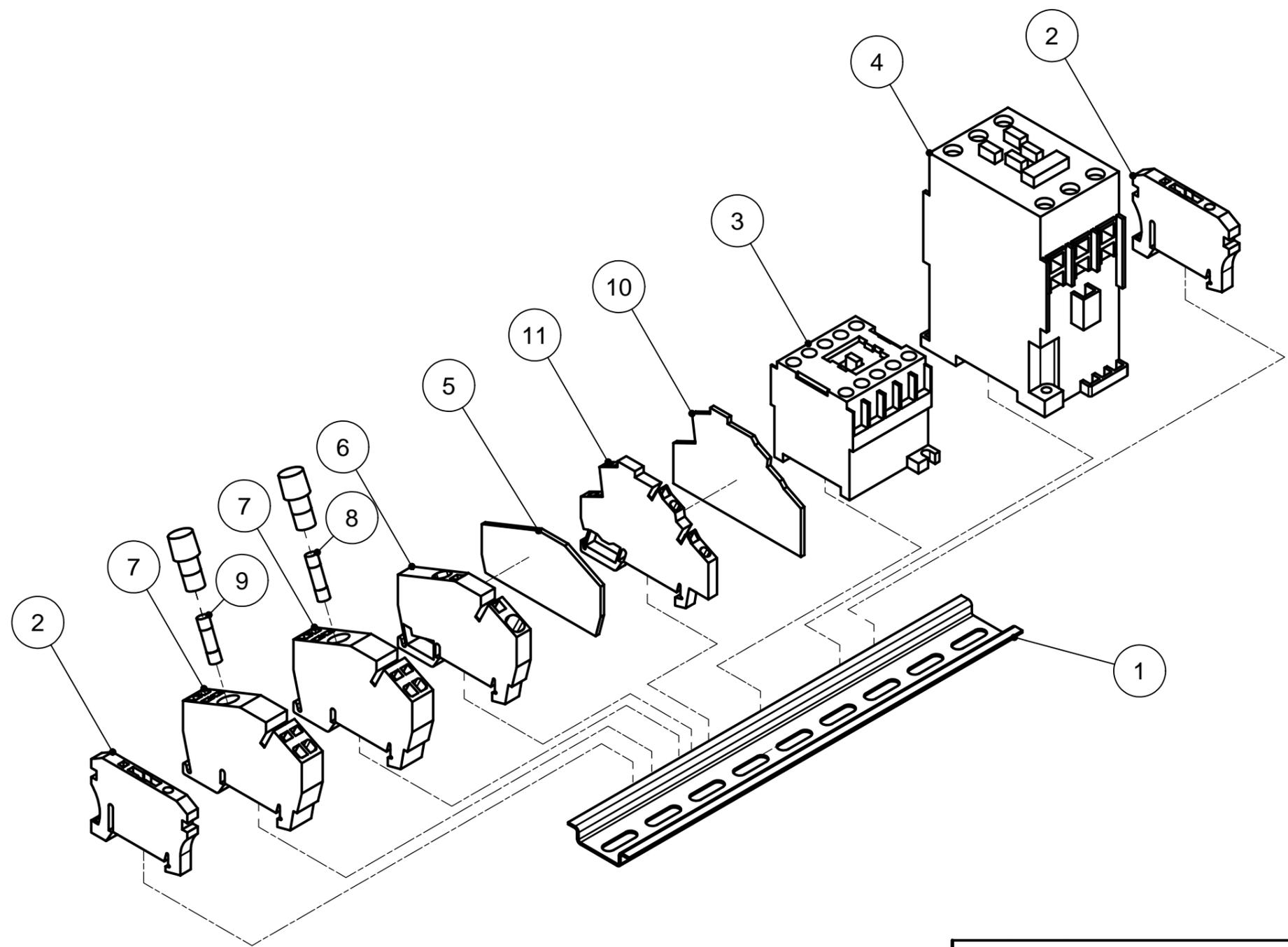
FINISH:
REPLACED BY
REPLACES

SCALE
FORM **A3**
ART. NR
REV **A**
DRW. NR **13050-4**
SHEET NR

REV	DATE	DESCRIPTION
A	27-03-2014	Spoel t.b.v. seal- en beluchting ventiel 8.5VA & Soft-air ventiel 5.5VA

REVISION HISTORY

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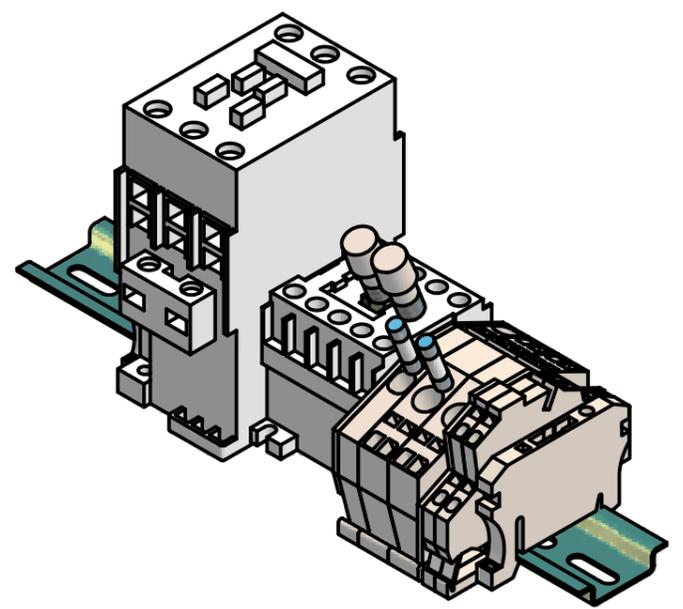
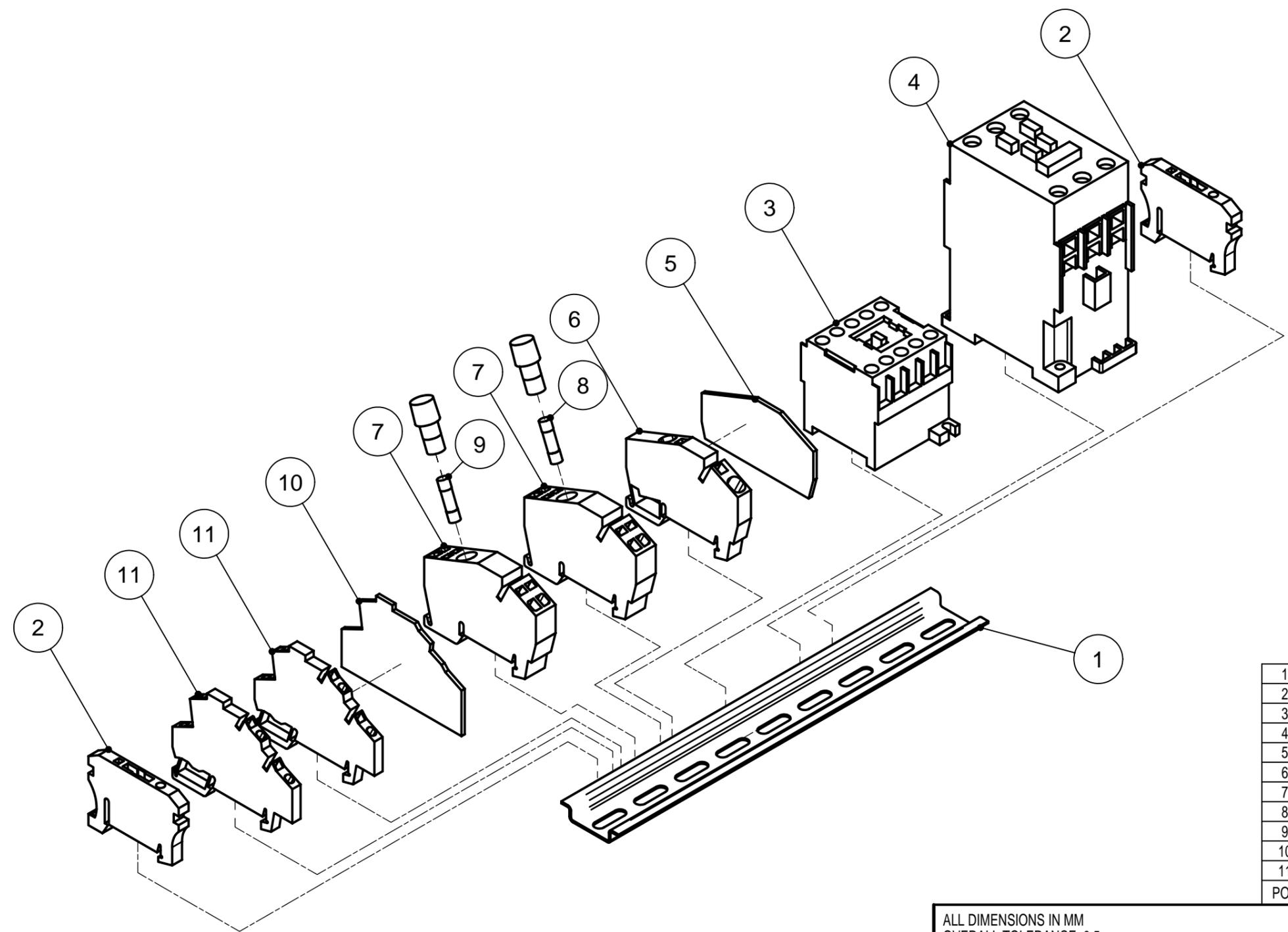


POS	ART. NR	DESCRIPTION	QTY
1	11.06.9.9185	DIN-rail 225mm	1
2	11.06.2.0200	Eindklem ZEW TS 35	2
3	1100.22005	MAS AB100-K09KJ400 MS4P 24V 50/60HZ	1
4	11.02.0.0580	MAS AB100-C30KJ00 24VAC	1
5	11.06.2.0620	Sluitplaat ZAP ZDU 6-2	1
6	11.06.2.0360	Rijgklem ZDU 6-2-2AN	1
7	11.06.2.0125	Zekeringklem ZSI 25-2x2AN-G20	2
8	11.99.0.0340/0330	Zekering 5x20mm 4 Amp Traag / 8 Amp Traag	1
9	11.99.0.0440	Zekering 5x20mm 2,5Amp. Traag	1
10	11.06.2.0630	Sluitplaat ZAP/TW ZDK 2,5-2	1
11	11.06.2.0425	Etagieklem ZDK 2,5-2	1

REV	DATE	DESCRIPTION
A	7-1-2014	11.02.0.0580 toegevoegd & 09.08.0.1120 doorverbinder MAS 100M09 vervallen
REVISION HISTORY		

ALL DIMENSIONS IN MM OVERALL TOLERANCE: 0,5mm		DRAWN: P.S.	MAT:
FORMAT: November 2005		DATE : 15-5-2013	DIM:
NAME DIN RAIL C 1fase (1-PROGRAM) T3 en T4 (8/16/21m³-100/240V)		CHECK:	FINISH:
HFE VACUUM SYSTEMS		REPLACED BY	REPLACES
		SCALE 1:2	FORM A3
PO Box 2261 5202 CG 's-Hertogenbosch Netherlands Phone: +31 (0)73 6 271 271 Fax: +31 (0)73 6 271 200		ART. NR 1103.20120	REVISION A
		DRW. NR 13092 -1	SHEET NR

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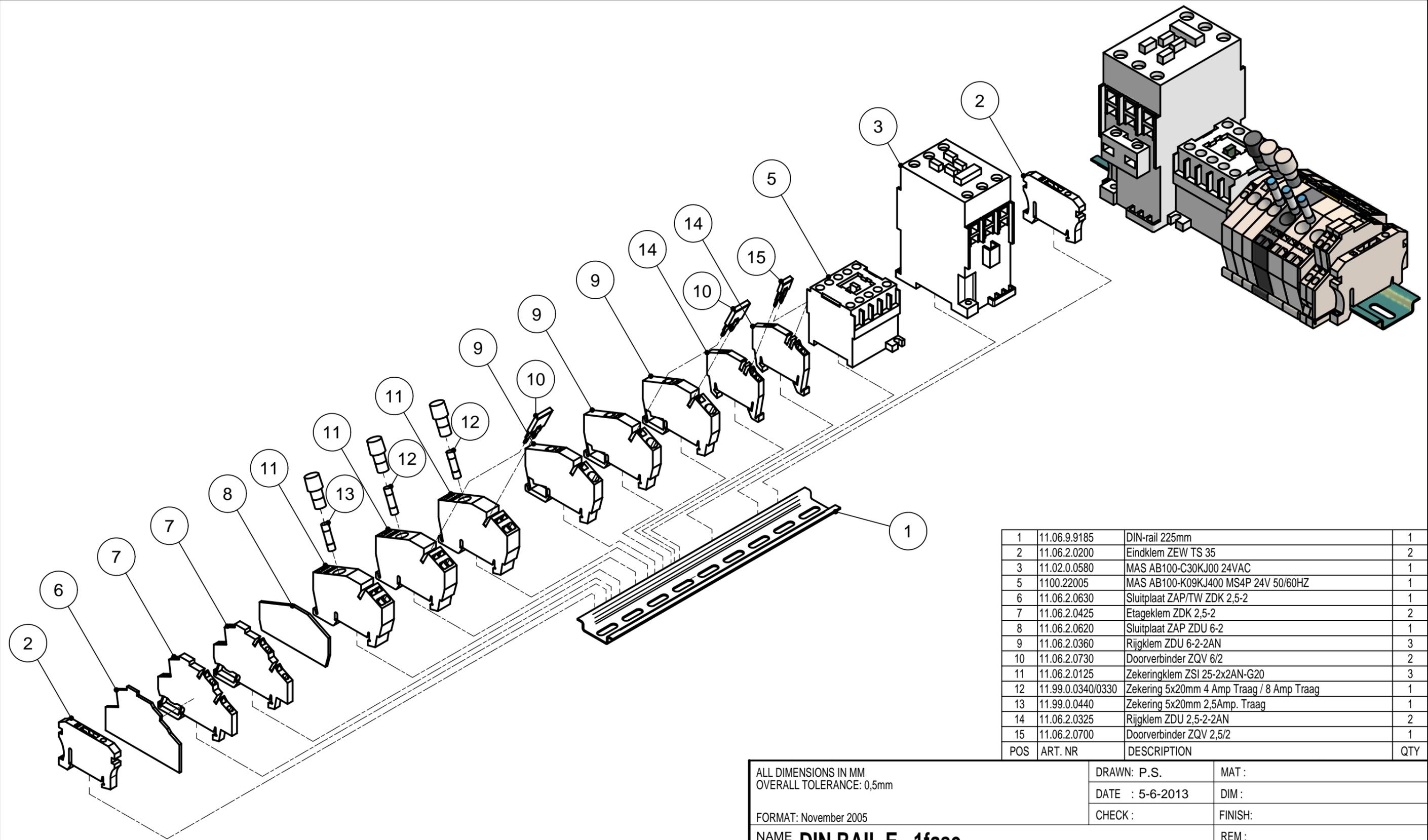
POS	ART. NR	DESCRIPTION	QTY
1	11.06.9.9185	DIN-rail 225mm	1
2	11.06.2.0200	Eindklem ZEW TS 35	2
3	1100.22005	MAS AB100-K09KJ400 MS4P 24V 50/60HZ	1
4	11.02.0.0580	MAS AB100-C30KJ00 24VAC	1
5	11.06.2.0620	Sluitplaat ZAP ZDU 6-2	1
6	11.06.2.0360	Rijgklem ZDU 6-2-2AN	1
7	11.06.2.0125	Zekeringklem ZSI 25-2x2AN-G20	2
8	11.99.0.0340/0330	Zekering 5x20mm 4 Amp Traag / 8 Amp Traag	1
9	11.99.0.0440	Zekering 5x20mm 2,5Amp. Traag	1
10	11.06.2.0630	Sluitplaat ZAP/TW ZDK 2,5-2	1
11	11.06.2.0425	Etageklem ZDK 2,5-2	2

REV	DATE	DESCRIPTION
A	13-11-2013	Positie van Etageklem ZDK 2,5-2 (pos.11) is gewijzigd
B	7-1-2014	11.02.0.0580 toegevoegd & 09.08.0.1120 doorverbinder MAS 100M09 vervallen

REVISION HISTORY

ALL DIMENSIONS IN MM OVERALL TOLERANCE: 0,5mm		DRAWN: P.S.	MAT:
FORMAT: November 2005		DATE : 15-5-2013	DIM:
NAME DIN RAIL D 1fase T3 en T4 (8/16/21m³-100/240V)		CHECK:	FINISH:
HFE VACUUM SYSTEMS PO Box 2261 5202 CG 's-Hertogenbosch Netherlands Phone: +31 (0)73 6 271 271 Fax: +31 (0)73 6 271 200		REPLACED BY	REPLACES
		SCALE 1:2	FORM A3
		ART. NR 1103.20125	
		REV B	DRW. NR 13093 -1 SHEET NR

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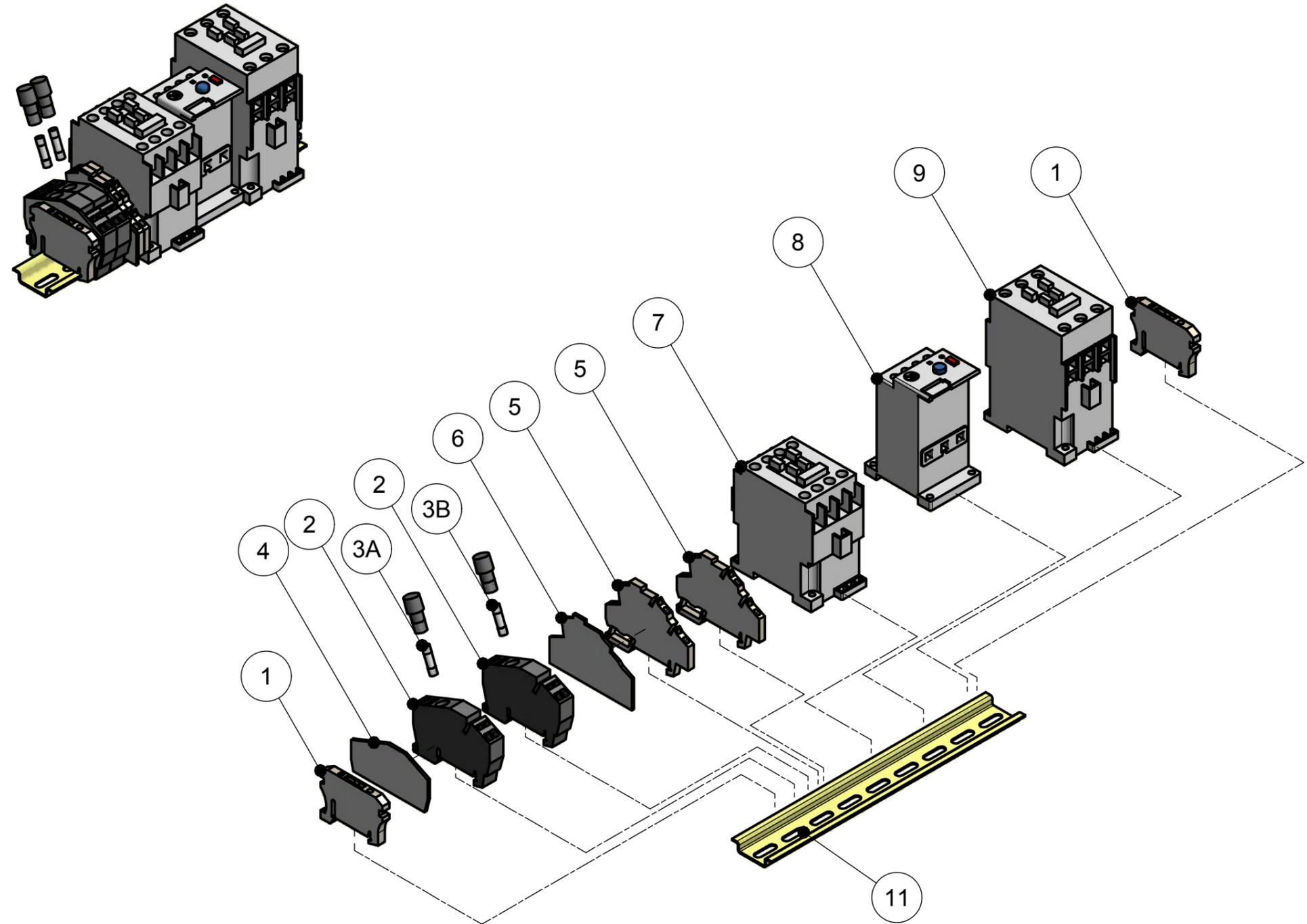


POS	ART. NR	DESCRIPTION	QTY
1	11.06.9.9185	DIN-rail 225mm	1
2	11.06.2.0200	Eindklem ZEW TS 35	2
3	11.02.0.0580	MAS AB100-C30KJ00 24VAC	1
5	1100.2.2005	MAS AB100-K09KJ400 MS4P 24V 50/60HZ	1
6	11.06.2.0630	Sluitplaat ZAP/TW ZDK 2,5-2	1
7	11.06.2.0425	Etageklem ZDK 2,5-2	2
8	11.06.2.0620	Sluitplaat ZAP ZDU 6-2	1
9	11.06.2.0360	Rijgklem ZDU 6-2-2AN	3
10	11.06.2.0730	Doorverbinder ZQV 6/2	2
11	11.06.2.0125	Zekeringklem ZSI 25-2x2AN-G20	3
12	11.99.0.0340/0330	Zekering 5x20mm 4 Amp Traag / 8 Amp Traag	1
13	11.99.0.0440	Zekering 5x20mm 2,5Amp. Traag	1
14	11.06.2.0325	Rijgklem ZDU 2,5-2-2AN	2
15	11.06.2.0700	Doorverbinder ZQV 2,5/2	1

ALL DIMENSIONS IN MM OVERALL TOLERANCE: 0,5mm		DRAWN: P.S.		MAT:	
FORMAT: November 2005		DATE : 5-6-2013		DIM:	
NAME DIN RAIL E 1fase T4-LL (16/21m³ 100/240V)		CHECK:		FINISH:	
HFE VACUUM SYSTEMS PO Box 2261 5202 CG 's-Hertogenbosch Netherlands Phone: +31 (0)73 6 271 271 Fax: +31 (0)73 6 271 200		SCALE 1:2,5		FORM A3	
		ART. NR 1103.20130		REVISION SYMBOL	
REVISION HISTORY		REV		DRW. NR 13094-1	
		SHEET NR			

REV	DATE	DESCRIPTION
REVISION HISTORY		

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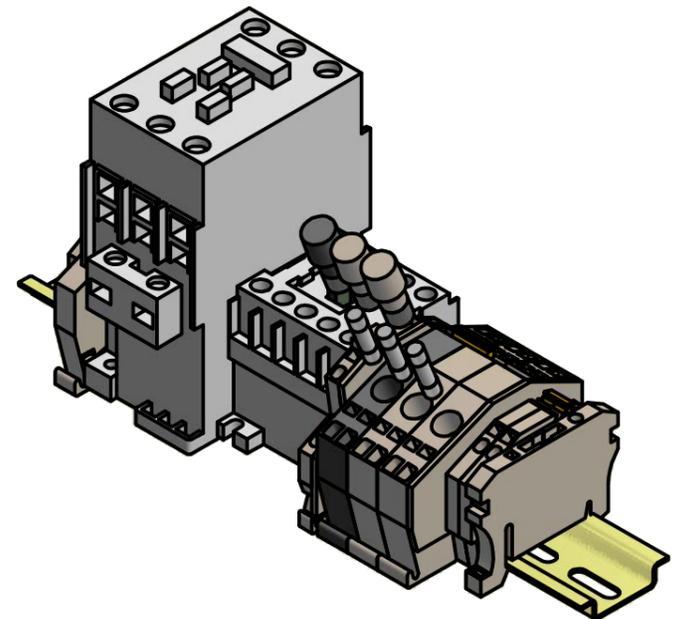
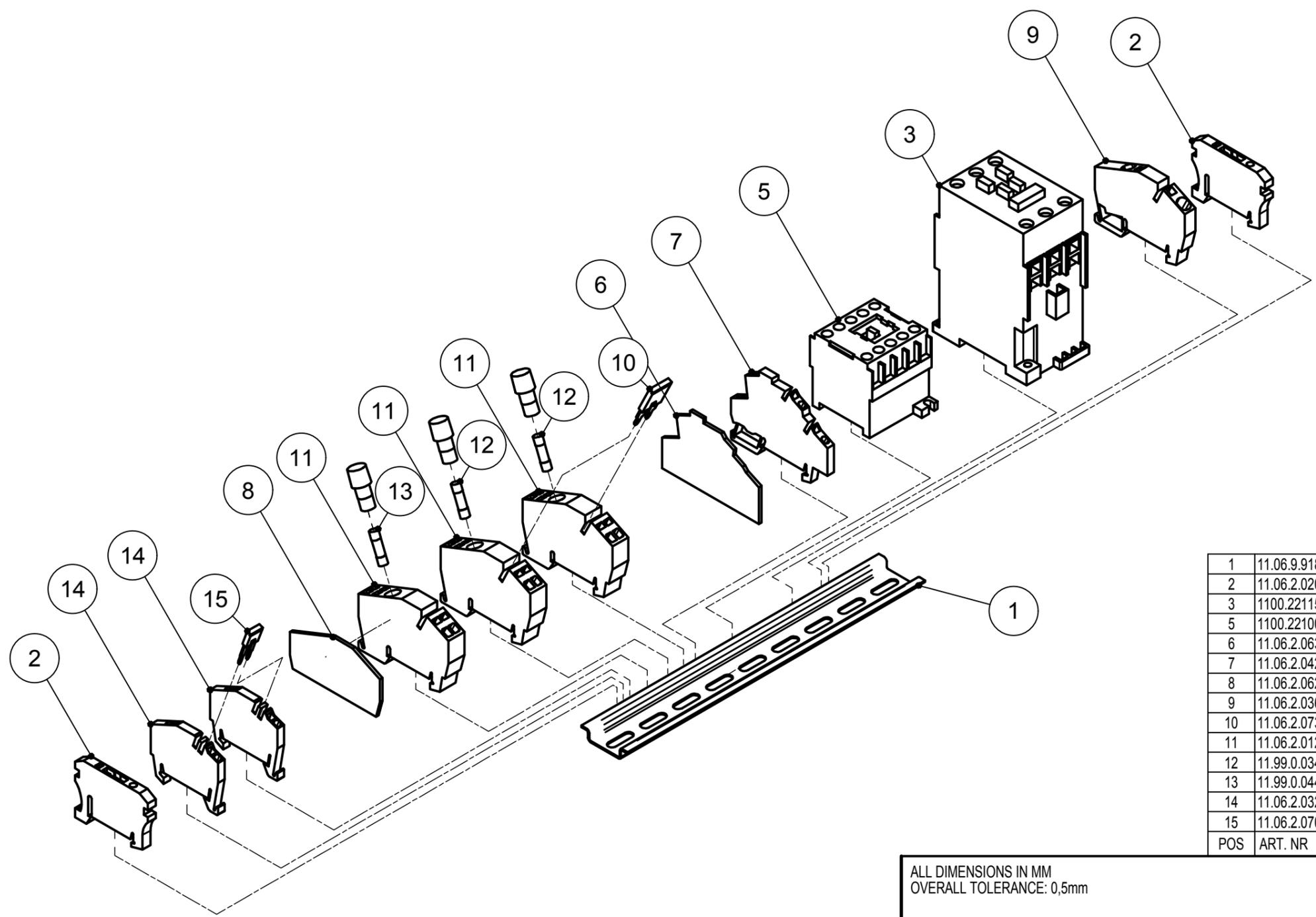


1	11.06.2.0200	Eindklem ZEW TS 35	2
2	11.06.2.0125	Zekeringklem ZSI 25-2x2AN-G20	2
3A	11.99.0.0440	Zekering 5x20mm 2,5 Amp Traag	1
3B	11.99.0.0340	Zekering 5x20mm 4 Amp.Traag	1
4	11.06.2.0620	Sluitplaat ZAP ZDU 6-2	1
5	11.06.2.0425	Etageklem ZDK 2,5-2	2
6	11.06.2.0630	Sluitplaat ZAP/TW ZDK 2,5-2	1
7	11.02.0.0570	MAS AB100-C09	1
8	11.02.0.1862	EMBR AB193-ED1*P 1,0 - 5,0Amp	1
9	11.02.0.0580	MAS AB100-C30KJ00 24VAC	1
11	11.06.9.9185	DIN-rail 225mm	1
POS	ART. NR	DESCRIPTION	QTY

ALL DIMENSIONS IN MM OVERALL TOLERANCE: 0,5mm		DRAWN: P.S.	MAT :
FORMAT: May 2006		DATE : 30-5-2013	DIM :
NAME DIN-RAIL F 3fase T3, T4 (200V)		CHECK :	FINISH:
HFE VACUUM SYSTEMS		REM :	
		REPLACED BY	REPLACES
PO Box 2261 5202 CG 's-Hertogenbosch Netherlands Phone: +31 (0)73 6 271 271 Fax: +31 (0)73 6 271 200		SCALE 1:3	FORM A3
REVISION HISTORY		ART. NR 1103.20140	DRW. NR 13095-1
		REV A	SHEET NR

REV	DATE	DESCRIPTION
A	1-2-2015	1x pos.4 (11.06.2.0620) en pos.10 (11.06.1.0360) vervallen

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1	11.06.9.9185	DIN-rail 225mm	1
2	11.06.2.0200	Eindklem ZEW TS 35	2
3	1100.22115	MAS MC-40a 3-polig AC1/60A 230V/11kW 400V/18,5kW 24VAC	1
5	1100.22100	MAS MC9a 3-polig AC1/25A 230V/2,5kW 400V/4kW 24VAC	1
6	11.06.2.0630	Sluitplaat ZAP/TW ZDK 2,5-2	1
7	11.06.2.0425	Etageklem ZDK 2,5-2	1
8	11.06.2.0620	Sluitplaat ZAP ZDU 6-2	1
9	11.06.2.0360	Rijgklem ZDU 6-2-2AN	1
10	11.06.2.0730	Doorverbinder ZQV 6/2	1
11	11.06.2.0125	Zekeringklem ZSI 25-2x2AN-G20	3
12	11.99.0.0340/0330	Zekering 5x20mm 4 Amp Traag / 8 Amp Traag	1
13	11.99.0.0440	Zekering 5x20mm 2,5Amp. Traag	1
14	11.06.2.0325	Rijgklem ZDU 2,5-2-2AN	2
15	11.06.2.0700	Doorverbinder ZQV 2,5/2	1
POS	ART. NR	DESCRIPTION	QTY

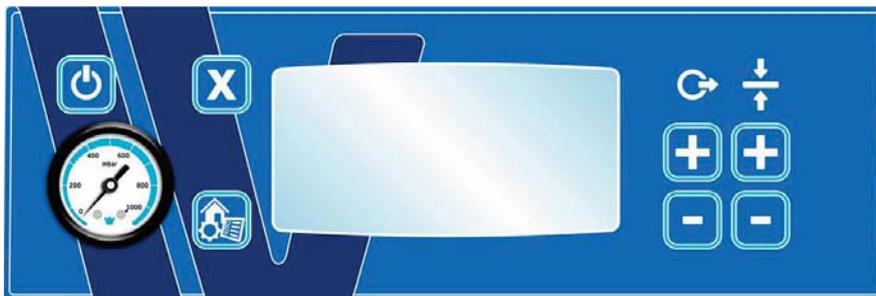
ALL DIMENSIONS IN MM OVERALL TOLERANCE: 0,5mm		DRAWN: P.S.	MAT :
FORMAT: November 2005		DATE : 14-4-2014	DIM :
NAME DIN RAIL G 100-240V (1-PROG-L&L) T4-L&L 16/21m³		CHECK :	FINISH:
HFE VACUUM SYSTEMS		REPLACED BY	REPLACES
		REPLACES	
PO Box 2261		SCALE 1:2,5	FORM A3
5202 CG 's-Hertogenbosch Netherlands		ART. NR 1103.20145	
Phone: +31 (0)73 6 271 271		REV A	DRW. NR 13096 -1
Fax: +31 (0)73 6 271 200			SHEET NR

REV	DATE	DESCRIPTION
A	1-2-2015	2x pos.9 (11.06.2.0360) en 1x pos.10 (11.06.2.0730) vervallen
REVISION HISTORY		

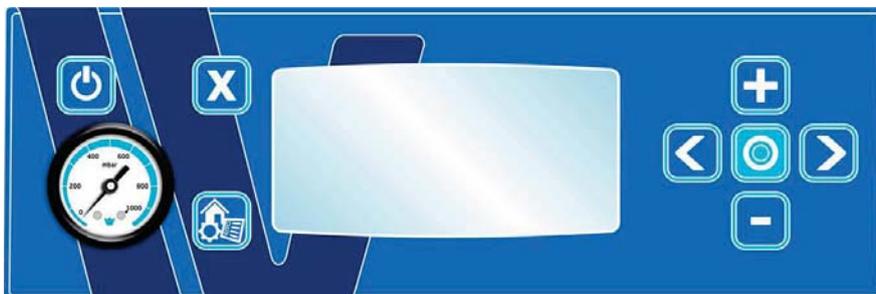
2 PANEL POSSIBILITIES

The 04-control is available in three different versions and can be recognized with the below pictures.

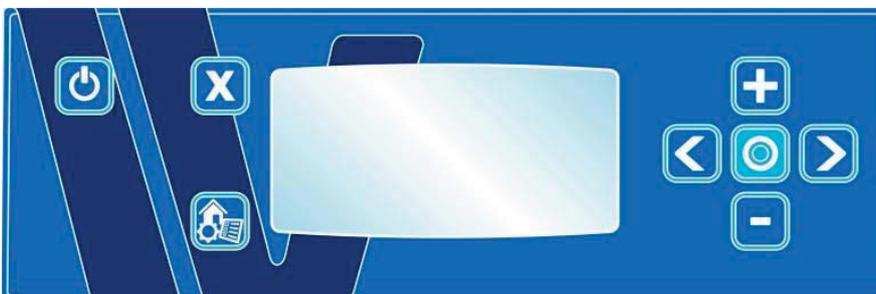
2.1 Henkovac 1-programm control panel.

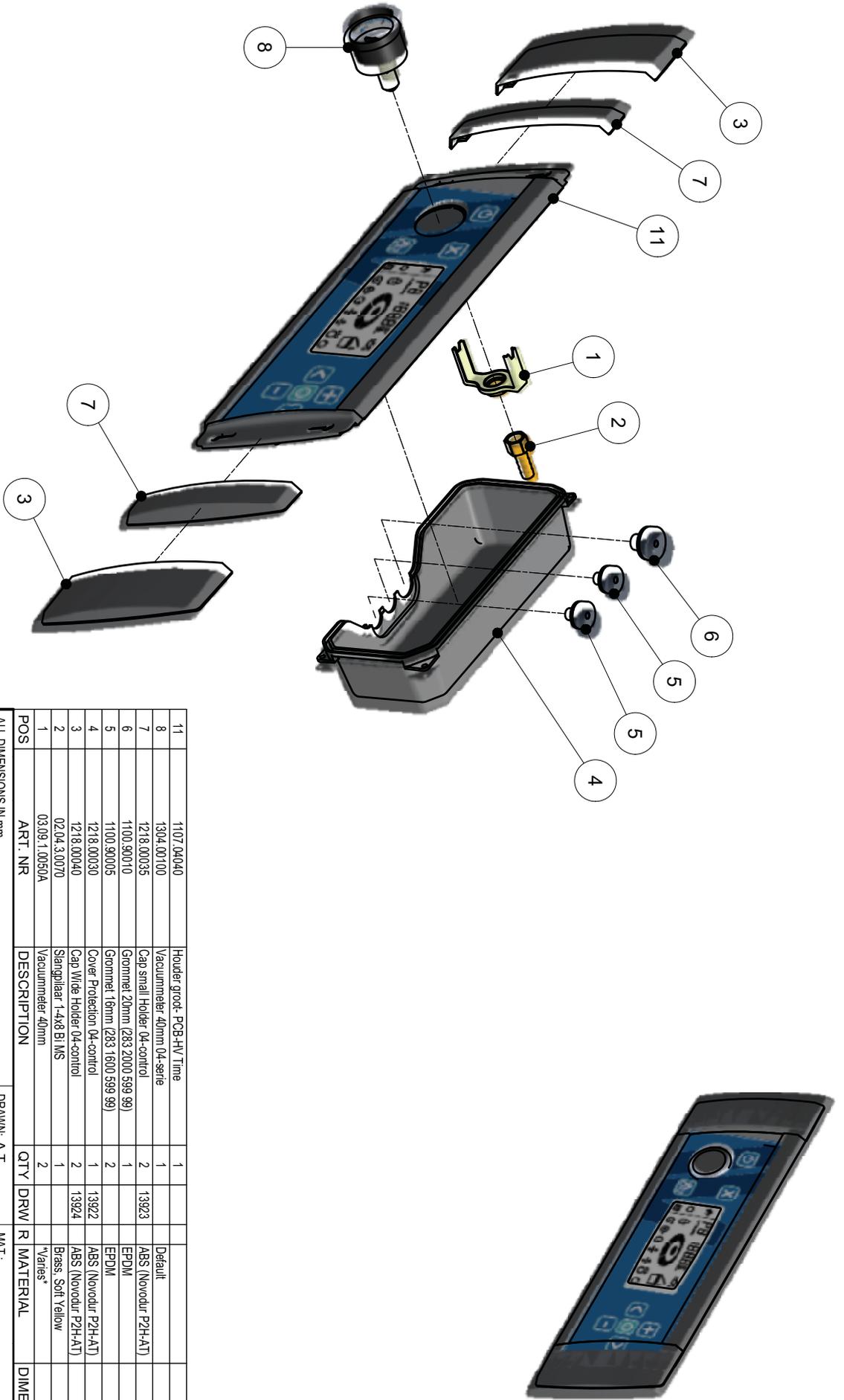


2.2 Henkovac 10-programm control panel with analogue vacuum gauge



2.3 Henkovac 10-programm panel with vacuum sensor





POS	ART. NR	DESCRIPTION	QTY	DRW	R	MATERIAL	DIMENSIONS
11	1107.04040	Holder groot- PCB-HV Time	1				
8	1304.00100	Vacuümmeeter 40mm 04-serie	1			Default	
7	1218.00035	Cap small Holder 04-control	2			ABS (Novodur P2H-AT)	
6	1100.90010	Grommet 20mm (283 2000 599 99)	1			EPDM	
5	1100.90005	Grommet 16mm (283 1600 599 99)	2			EPDM	
4	1218.00030	Cover Protection 04-control	1			ABS (Novodur P2H-AT)	
3	1218.00040	Cap Wide Holder 04-control	2			ABS (Novodur P2H-AT)	
2	02.04.3.0070	Stangplaat 14x8 B1 MS	1			Brass, Soft Yellow	
1	03.09.1.0050A	Vacuümmeeter 40mm	2			*Varies*	

ALL DIMENSIONS IN mm
TOLERANCE: According to DIN ISO 2768 Part 1-m and Part 2-K

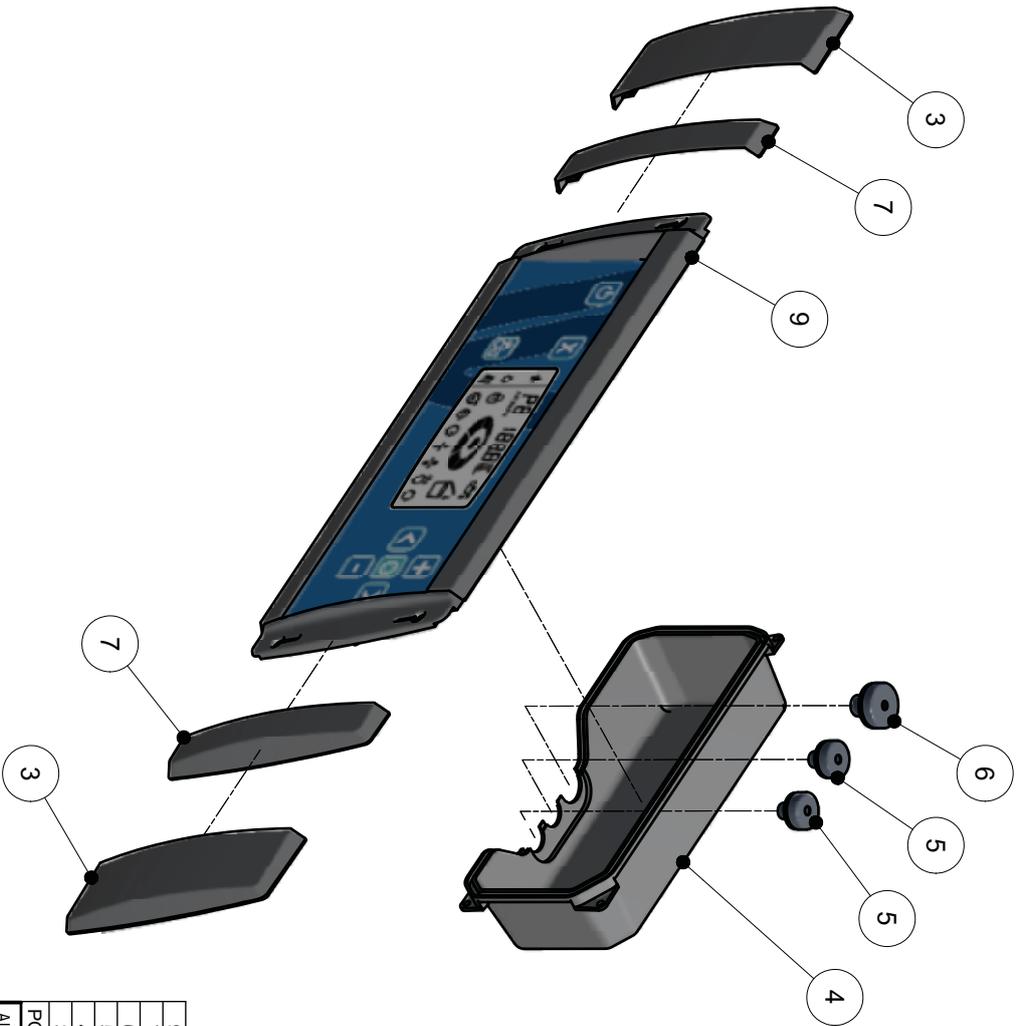
FORMAT: Oct 2008

NAME **04 Control Panel**
HV Time Exploded view

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SCALE	FORM	ART. NR	DRW. NR	SHEET NR
	A3		13910-3	
REV	REPLACED BY	REPLACES		

DRAWN: A.T.
DATE: 27-7-2012
DIM:
FINISH:
CHECK:



POS	ART. NR	DESCRIPTION	QTY	DRW	REV	MATERIAL	DIMENSIONS
9	1107.04030	Holder groot- PCB-HV Sensor	1				
7	1218.00035	Cap small Holder 04-control	2	13923		ABS (Novodur P2H-AT)	
6	1100.90010	Grommet 20mm (283.2000.599.99)	1			EPDM	
5	1100.90005	Grommet 16mm (283.1600.599.99)	2			EPDM	
4	1218.00030	Cover Protection 04-control	1	13922		ABS (Novodur P2H-AT)	
3	1218.00040	Cap Wide Holder 04-control	2	13924		ABS (Novodur P2H-AT)	

ALL DIMENSIONS IN mm
TOLERANCE: According to DIN ISO 2768 Part 1-m and Part 2-K

FORMAT: Oct 2008

NAME 04 Control Panel
HV Sensor Exploded view

REV :
REPLACED BY
REPLACES

DRAWN: A.T.
DATE : 27-7-2012
CHECK :

MAT :
DIM :
FINISH :

REV	DATE	DESCRIPTION
		REVISION HISTORY

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5202 CG 's-Hertogenbosch Netherlands
Phone: +31 (0)73 6 271 271
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SCALE	FORM	ART. NR	SHEET NR
	A3		
	REV	DRW. NR	
		13910-1	

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PRIMAIR VOLTAGE, FUSES

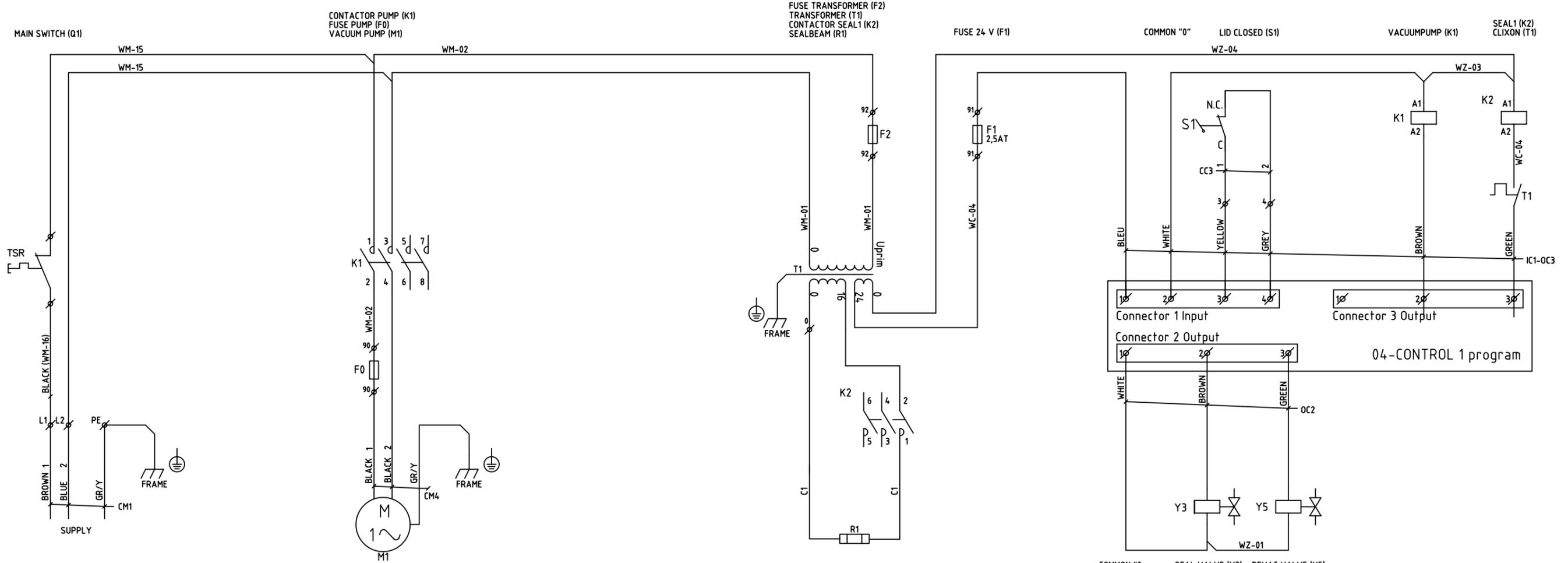
Vacuum pump Capacity m ³ /h	PRIM. VOLTAGE 50/60 Hz (Uprim) [V]	FUSES [A] (SLOW ACTING)			
		TSR	F0	F1	F2
4 m ³ /h	100/120 V	8 A	4 A	2,5 A	-
	200-240 V	4 A	-	2,5 A	-
8 m ³ /h	100/120 V	8 A	-	2,5 A	-
	200-240 V	4 A	-	2,5 A	-
16 m ³ /h	100/120 V	10 A	-	2,5 A	8 A
	200-240 V	6 A	-	2,5 A	4 A
21 m ³ /h	100/120 V	-	13 A	2,5 A	8 A
	200-240 V	8 A	-	2,5 A	4 A

SEC. VOLTAGE SEALTRANSFORMERS

MAX. TOTAL SEALENGTH [mm]	SEC. VOLTAGE [V]
410 - 620	16
500 - 825	24
750 - 1030	32
1000 - 1250	48 (24+24)

CABLE AND WIRE NAMES

CODE	NAME
CM	MAIN CIRCUIT CABLE
CC	CONTROL CIRCUIT CABLE
C	MISCELLANEOUS CABLE
IC	INPUT CABLE CONTROLLER
OC	OUTPUT CABLE CONTROLLER
WE	EARTH WIRE
WM	MAIN CIRCUIT WIRE
WC	CONTROL CIRCUIT WIRE
WZ	COMMON "0" WIRE

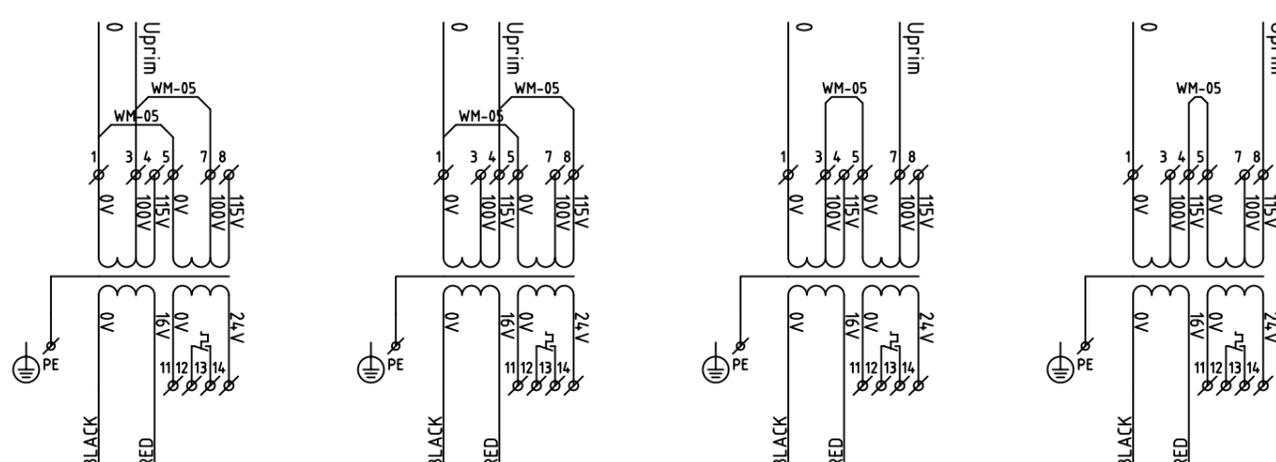


100 V

110-120 V

200 V

220-240 V



POS.	Qty.	NAME	ART.No°	DRW. No°	MATERIAL	DIMENSION
All dimensions in mm General tolerance ±0,5mm			DRAWN: P.S.		MAT. : -	
FORM: February 2002			DATE : 01-08-2013		DIM. : -	
NAME: Circuit diagram 1~ Table Top ES/DS/TS (16 V) 1 program			CHECK : -		REM. : -	
HFE VACUUM SYSTEMS Po. Box 2261 5202 CG 's-Hertogenbosch Phone : +31 (0)73 6271271 Fax : +31 (0)73 6271200			SCALE: -		FORM. A3	
			REV. -		REPLACED BY: -	
			DRW No° 8000-130801		REPLACES: -	

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PRIMAIR VOLTAGE, FUSES

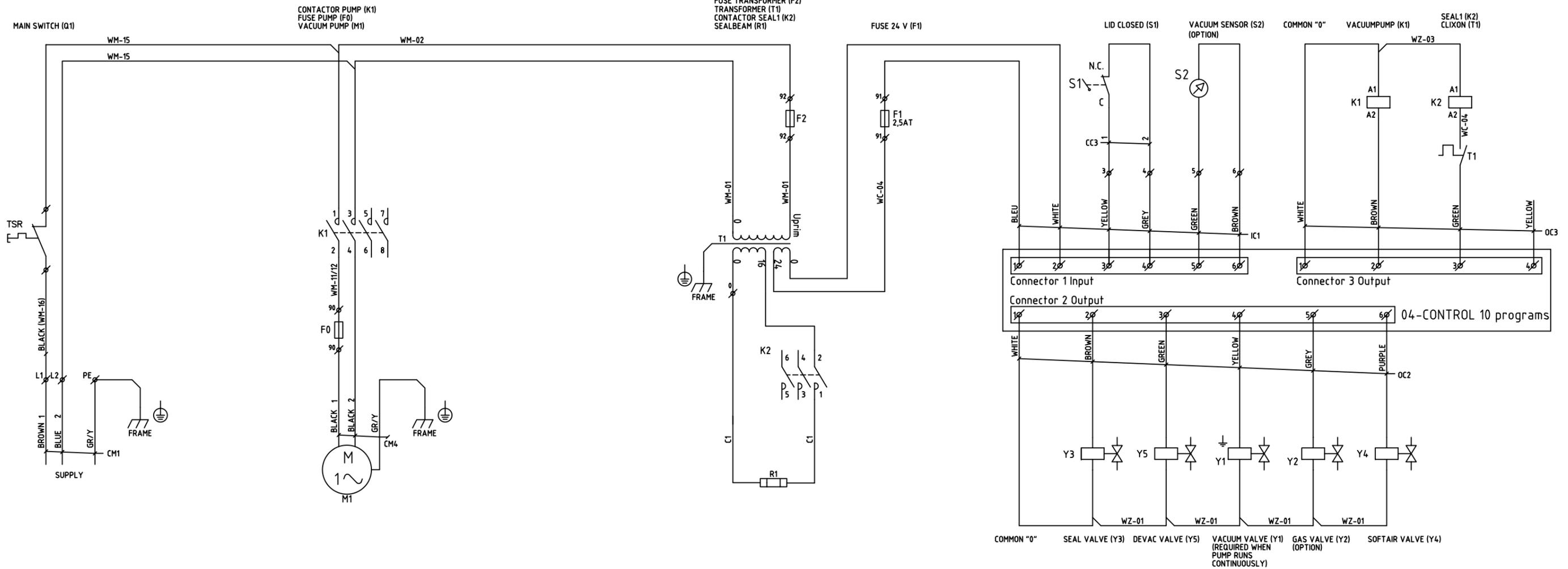
Vacuum pump Capacity m ³ /h	PRIM. VOLTAGE 50/60 Hz (Uprim) [V]	FUSES [A] (SLOW ACTING)			
		TSR	F0	F1	F2
8 m ³ /h	100/120 V	8 A	-	2,5 A	-
	200-240 V	4 A	-	2,5 A	-
16 m ³ /h	100/120 V	10 A	-	2,5 A	8 A
	200-240 V	6 A	-	2,5 A	4 A
21 m ³ /h	100/120 V	-	13 A	2,5 A	8 A
	200-240 V	8 A	-	2,5 A	4 A

SEC. VOLTAGE SEAL TRANSFORMERS

MAX. TOTAL SEALENGTH (mm)	SEC. VOLTAGE [V]
410 - 620	16
500 - 825	24
750 - 1030	32
1000 - 1250	48 (24+24)

CABLE AND WIRE NAMES

CODE	NAME
CM	MAIN CIRCUIT CABLE
CC	CONTROL CIRCUIT CABLE
C	MISCELLANEOUS CABLE
IC	INPUT CABLE CONTROLLER
OC	OUTPUT CABLE CONTROLLER
WE	EARTH WIRE
WM	MAIN CIRCUIT WIRE
WC	CONTROL CIRCUIT WIRE
WZ	COMMON "0" WIRE

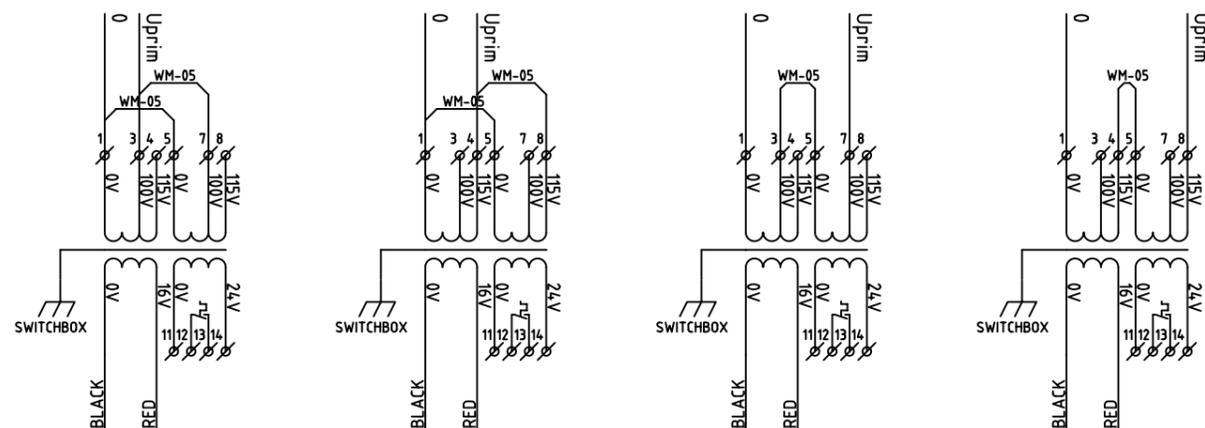


100 V

110-120 V

200 V

220-240 V



POS.	Qty.	NAME	ART.No°	DRW. No°	MATERIAL	DIMENSION
All dimensions in mm General tolerance ±0,5mm			DRAWN: P.S.		MAT. : -	
FORM: February 2002			DATE : 01-08-2013		DIM. : -	
NAME: Circuit diagram 1~ Table Top DS/TS (16 V)			CHECK : -		REM. : -	
HFE VACUUM SYSTEMS			SCALE: -		FORM. A3	
Po. Box 2261 5202 CG 's-Hertogenbosch Phone : +31 (0)73 6271271 Fax : +31 (0)73 6271200			REV. -		REPLACED BY: -	
			DRW No° 8001-130801		REPLACES: -	

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PRIMAIR VOLTAGE, FUSES

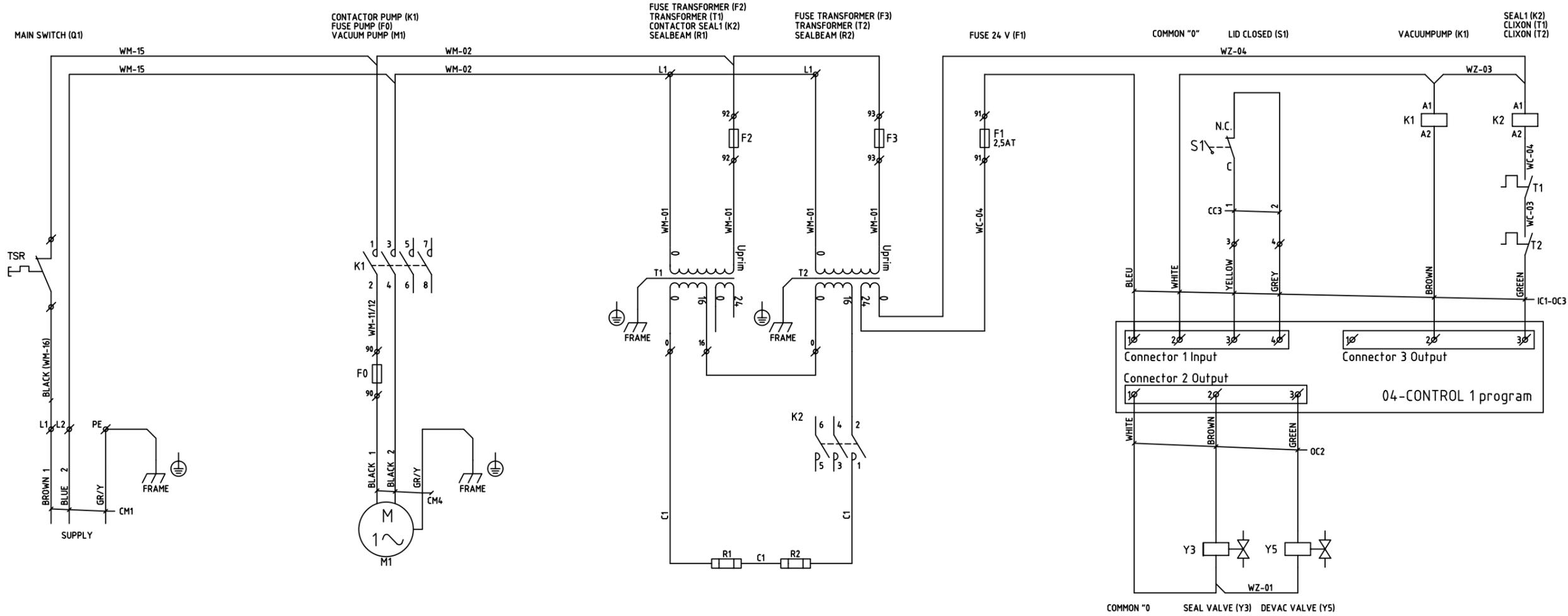
Vacuum pump Capacity m ³ /h	PRIM. VOLTAGE 50/60 Hz (Uprim) [V]	FUSES [A] (SLOW ACTING)				
		TSR	F0	F1	F2	F3
16 m ³ /h	100/120 V	10 A	-	2,5 A	8 A	8 A
	200-240 V	6 A	-	2,5 A	4 A	4 A
21 m ³ /h	100/120 V	-	13 A	2,5 A	8 A	8 A
	200-240 V	8 A	-	2,5 A	4 A	4 A

SEC. VOLTAGE SEAL TRANSFORMERS

MAX. TOTAL SEALENGTH [mm]	SEC. VOLTAGE [V]
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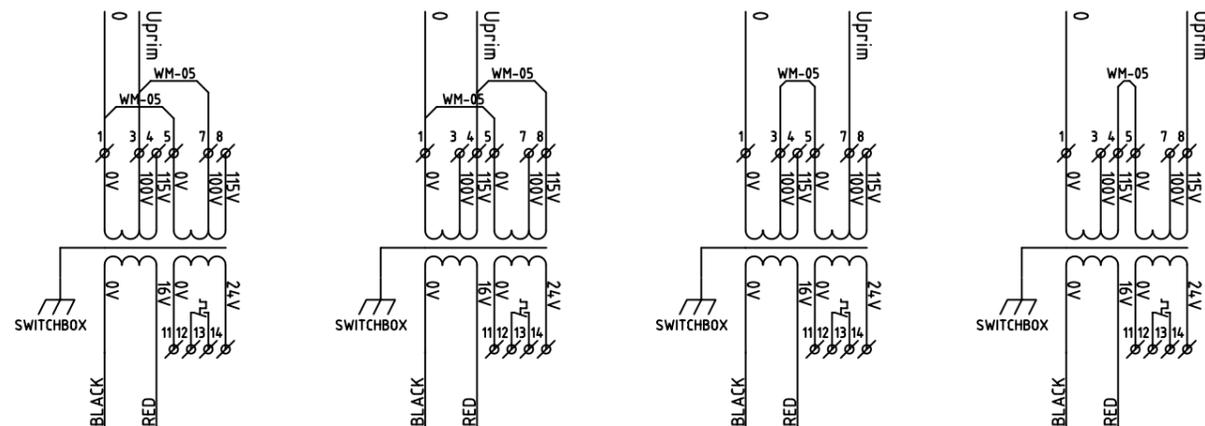


100 V

110-120 V

200 V

220-240 V



POS.	Qty.	NAME	ART.No°	DRW. No°	MATERIAL	DIMENSION
All dimensions in mm General tolerance ±0,5mm			DRAWN: P.S.		MAT. : -	
FORM: February 2002			DATE : 01-08-2013		DIM. : -	
NAME: Circuit diagram 1~ Table Top L&L DS/TS (16V+16 V) 1 Program			CHECK : -		REM. : -	
HFE VACUUM SYSTEMS			SCALE: -		FORM. A3	
Po. Box 2261 5202 CG 's-Hertogenbosch Phone : +31 (0)73 6271271 Fax : +31 (0)73 6271200			REV. -		REPLACED BY: -	
			DRW No° 8008-130801		REPLACES: -	

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PRIMAIR VOLTAGE, FUSES

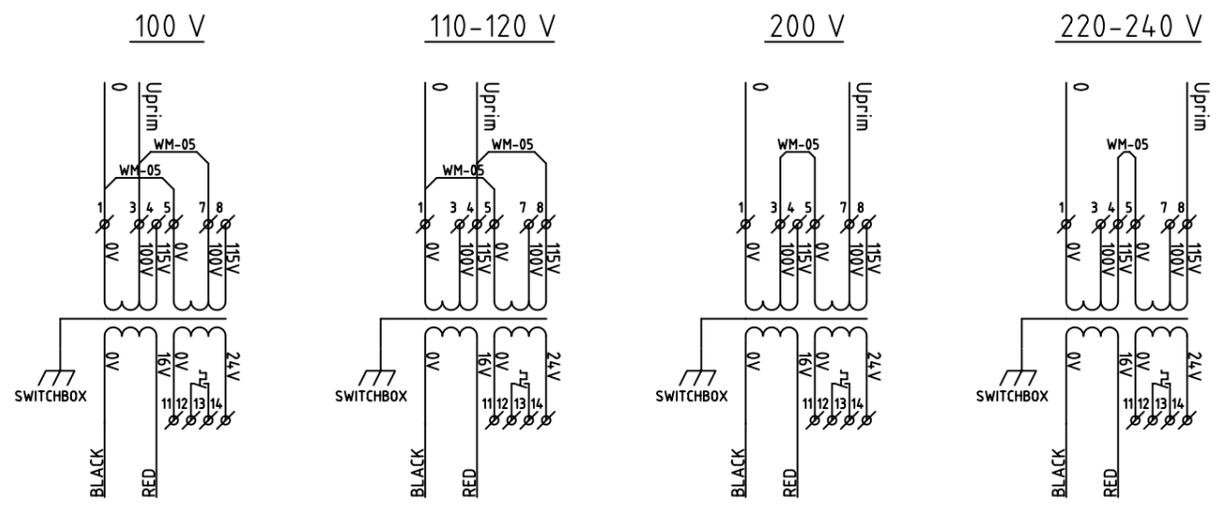
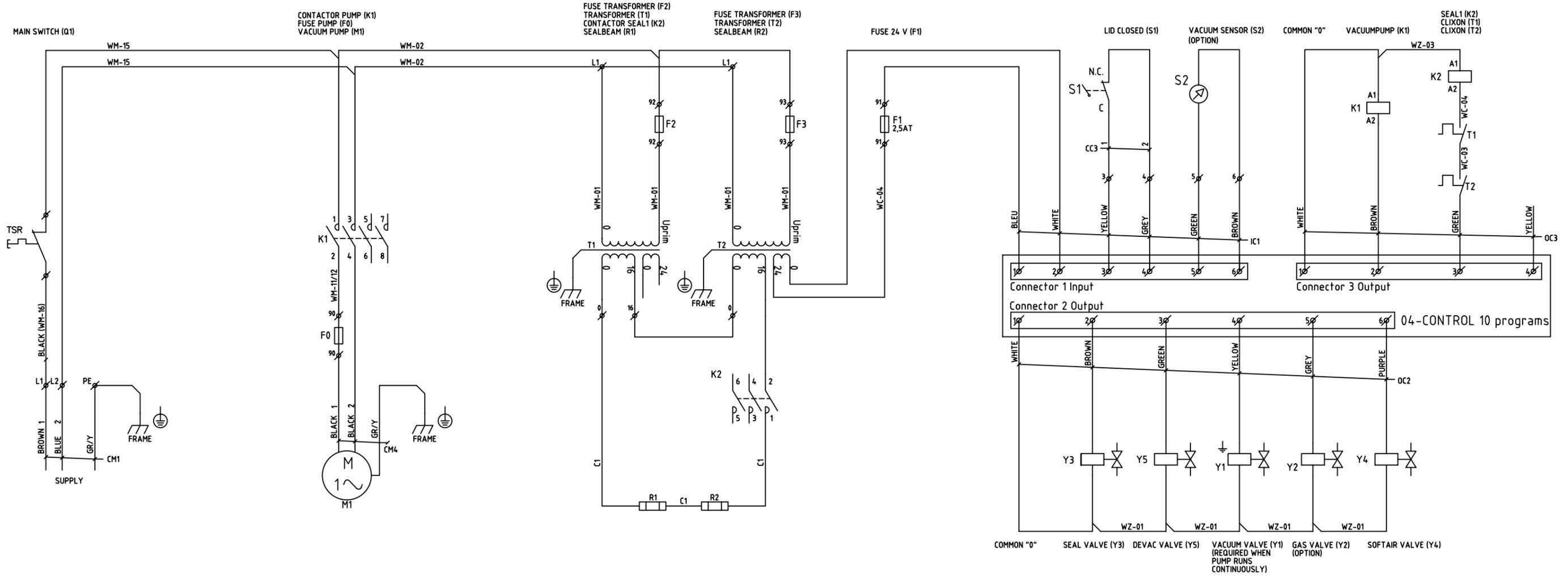
Vacuum pump Capacity m ³ /h	PRIM. VOLTAGE 50/60 Hz (Uprim) [V]	FUSES [A] (SLOW ACTING)				
		TSR	F0	F1	F2	F3
16 m ³ /h	100/120 V	10 A	-	2,5 A	8 A	8 A
	200-240 V	6 A	-	2,5 A	4 A	4 A
21 m ³ /h	100/120 V	-	13 A	2,5 A	8 A	8 A
	200-240 V	8 A	-	2,5 A	4 A	4 A

SEC. VOLTAGE SEALTRANSFORMERS

MAX. TOTAL SEALENGTH [mm]	SEC. VOLTAGE [V]
410 - 620	16
500 - 825	24
750 - 1030	32
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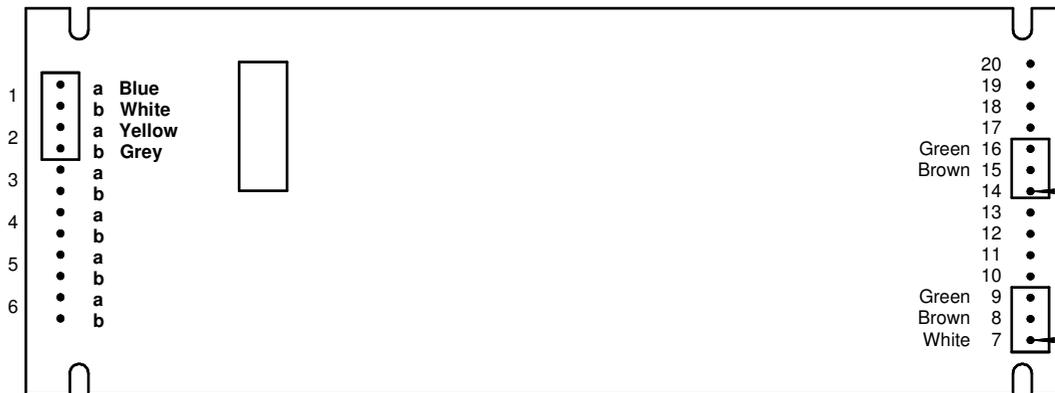
CABLE AND WIRE NAMES

CODE	NAME
CM	MAIN CIRCUIT CABLE
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C	MISCELLANEOUS CABLE
IC	INPUT CABLE CONTROLLER
OC	OUTPUT CABLE CONTROLLER
WE	EARTH WIRE
WM	MAIN CIRCUIT WIRE
WC	CONTROL CIRCUIT WIRE
WZ	COMMON "0" WIRE



POS.	Qty.	NAME	ART.No°	DRW. No°	MATERIAL	DIMENSION
All dimensions in mm General tolerance ±0,5mm			DRAWN: P.S.		MAT. : -	
FORM: February 2002			DATE : 01-08-2013		DIM. : -	
NAME: Circuit diagram 1~ Table Top L&L DS/TS (16V+16 V)			CHECK : -		REM. : -	
HFE VACUUM SYSTEMS Po. Box 2261 5202 CG 's-Hertogenbosch Phone : +31 (0)73 6271271 Fax : +31 (0)73 6271200			SCALE:	FORM.	REPLACED BY:	REPLACES:
			-	A3	-	-
			REV.	DRW No°	8009-130801	
			-	-		

Input Connector 1



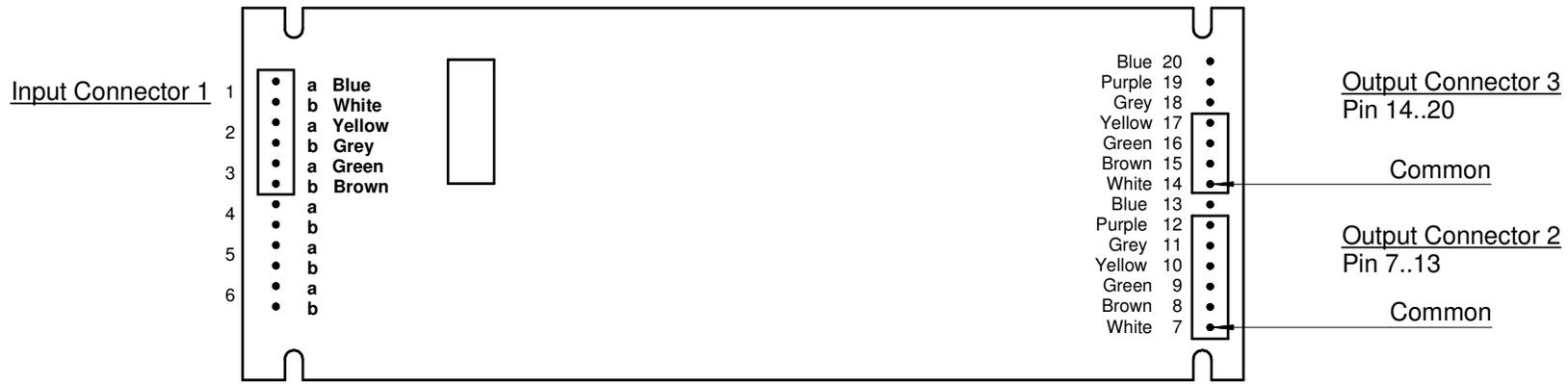
IC1: Input Connector 1		
Contact	Function	Wire/Color
1-a 1-b	Main 24 VAC	Blue White
2-a 2-b	Lid switch	Yellow Grey
3	Spare	-
4	Spare	-
5	Spare	-
6	Spare	-

OC2: Output Connector 2		
Contact	Function	Wire/Color
7	Common	White
8	Seal valve	Brown
9	Devacuum valve	Green
10	Spare	-
11	Spare	-
12	Spare	-
13	Spare	-

OC3: Output Connector 3		
Contact	Function	Wire/Color
14	Common	-
15	Pump contactor	Brown
16	Seal-1 contactor	Green
17	Spare	-
18	Spare	-
19	Spare	-
20	Spare	-

ALL DIMENSIONS IN mm TOLERANCE: According to DIN ISO 2768 Part 1-m and Part 2-K		DRAWN: H.W.	MAT: Default
FORMAT: Oct 2008		DATE: 14-12-2010	DIM:
NAME PCB 04 Version: 1-Program		CHECK:	FINISH:
 PO Box 2261 5202 CG 's-Hertogenbosch Netherlands Phone: +31 (0)73 6 271 271 Fax: +31 (0)73 6 271 200		SCALE: -	FORM: A3
		REV:	ART. NR: PCB 04-1
		DRW. NR:	SHEET NR:

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IC1: Input Connector 1		
Contact	Function	Wire/Color
1-a 1-b	Main 24 VAC	Blue White
2-a 2-b	Lid switch	Yellow Grey
3-a 3-b	Sensor	Green Brown
4	Spare	-
5	Spare	-
6	Spare	-

OC2: Output Connector 2		
Contact	Function	Wire/Color
7	Common	White
8	Seal valve	Brown
9	Devacuum valve	Green
10	Vacuum valve	Yellow
11	Gas valve	Grey
12	SoftAir valve	Purple
13	Spare	Blue

OC3: Output Connector 3		
Contact	Function	Wire/Color
14	Common	White
15	Pump contactor	Brown
16	Seal-1 contactor	Green
17	Seal-2 contactor	Yellow
18	Film transport	Grey
19	Spare	Purple
20	Spare	Blue

ALL DIMENSIONS IN mm TOLERANCE: According to DIN ISO 2768 Part 1-m and Part 2-K		DRAWN: H.W.	MAT: Default
FORMAT: Oct 2008		DATE: 14-12-2010	DIM:
NAME PCB 04		CHECK:	FINISH:
Version: 10-Programs		REM:	
HFE VACUUM SYSTEMS PO Box 2261 5202 CG 's-Hertogenbosch Netherlands Phone: +31 (0)73 6 271 271 Fax: +31 (0)73 6 271 200		REPLACED BY	REPLACES
		SCALE: -	FORM: A3
		REV	DRW. NR
		PCB 04-2	
		SHEET NR	