



Parts Manual

Proportioning Unit

“G PRO - SOH”



Issue 1.3

13/07/2026

Ref. NR-00153-ENG



Before installing the unit and starting it up, carefully read all the technical and safety documentation included in this manual. Pay special attention to the information to know and understand the handling and the conditions of use of the unit. All of the information is aimed at enhancing User Safety and avoiding possible breakdowns derived from the incorrect use of the unit.



WARRANTY

HI-TECH SPRAY EQUIPMENT, S. A. (hereinafter "HI-TECH") grants this Limited Guarantee to the original buyer (hereinafter the "Client") for the unit and the original accessories given with the unit (hereinafter the "Product") against any fault in the design, materials or manufacture of the Product at the time of the first purchase by the user and for a duration of two (2) years thereafter, except in the case of hoses and TSU's, which will have a warranty period of one (1) year. Additionally, for any other product manufactured by external suppliers, the warranty period will be as specified by the manufacturer.

If during the guarantee period and under normal conditions of use, the Product should fail to work correctly due to defects of design, material or manufacture, the authorised distributor of the country where the HI-TECH Product or technical assistance service has been purchased shall repair or replace the Product in accordance with what is established in the following:

CONDITIONS

- a) The validity of this guarantee will be subject to the presentation of the original invoice issued by the HI-TECH authorised distributor for the sale of the Product along with the Product handed over for repair or replacement, which must show the date of purchase and the serial number. HI-TECH reserves the right to refuse to give the guarantee service when the indicated data fail to appear on the invoice or have been modified after the purchase of the Product.
- b) The repaired or replaced Product will continue to maintain the original guarantee for the time remaining until the end of the guarantee or for three (3) months from the repair date, if the remaining period of the original guarantee were shorter.
- c) This guarantee will not be applied to the faults in the Product caused by its faulty installation, the natural wear and tear of the components, any use other than that considered normal for this Product or which should fail to strictly comply with the instructions of use provided by HI-TECH; due to accident, carelessness, adjustments, alterations or modifications of the Product not authorised by HI-TECH or due to the use of accessories, heating devices, pumping equipment and/or dispensers that have not been approved or manufactured by HI-TECH.
- d) The guarantee applicable to the components and accessories forming part of the Product and which have not been made by HI-TECH will be limited to the guarantee offered by the original manufacturer thereof.

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The restrictions on the guarantee suppose no limitation on the legal rights of the consumer established in applicable national legislation, nor do they affect any rights derived from the bargain and sale agreement between the consumer and supplier.

All information provided in this manual has been included in the confidence that it is true, although it does not constitute any responsibility or implicit or explicit guarantee. HI-TECH reserves the right at any time and without prior warning to make all improvements and modifications necessary to this manual, in order to rectify any possible typographical errors, increase the information contained or insert the changes caused to the characteristics and performance of the unit.



SAFETY AND HANDLING

The equipment described in this manual has been designed and manufactured in compliance with the following European Directives, following as application guide the harmonized standards detailed and in conformity with the relevant UK Statutory Instruments (and their amendments):

2006/42/EC Machinery Directive

2014/35/EU Low Voltage Directive

2014/30/EU EMC Directive

2011/65/EU RoHS Directive with amendment 2015/863

2012/19/EU Directive on waste electrical and electronic equipment

Standards used:

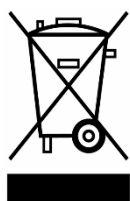
EN ISO 12100:2010

EN 60204-1:2018

EN IEC 61000-6-4:2019

EN IEC 61000-6-2:2019

EN IEC 63000:2018



Electrical products cannot be thrown out with the rubbish. They must be taken to a dedicated collection point for an environmentally sound disposal in accordance with local regulations. You must contact your local collective or retailer for information about recycling. Before leaving WEEE at appropriate collection facilities, batteries must be removed and disposed of separately for proper recycling. The packaging materials are recyclable.

Dispose of packaging materials in an environmentally sound manner and place them at the disposal of recycling sectors.

TRANSPORT AND STORAGE

Proper precautions must be taken so that the equipment can withstand the effects of transport and storage temperatures between -25°C and +55°C or up to +70°C for short periods that do not exceed 24 hours. Also, appropriate means to prevent damage from moisture, vibrations or shocks must be foreseen.



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This chapter contains information on the safety, handling and use of the **G PRO - 50H** series metering unit.



Before installing the unit and starting it up, carefully read all the technical and safety documentation included in this manual. Pay special attention to the information to know and understand the operation and the conditions of use of the unit. All of the information is aimed at enhancing User Safety and avoiding possible breakdowns derived from the incorrect use of the unit.

!WARNING! Establishes information to alert on a situation that might cause serious injuries if the instructions are not followed.

!PRECAUTION! Establishes information that indicates how to avoid damage to the unit or how to avoid a situation that could cause minor injuries.

NOTE: is relevant information on a procedure being carried out.

Careful study of this manual will enable the operator to know the characteristics of the unit and the operating procedures. By following the instructions and recommendations contained herein, you will reduce the potential risk of accidents in the installation, use



or maintenance of the unit; you will provide a better opportunity for incident-free operation for a longer time, greater output and the possibility of detecting and resolving problems fast and simply.

Keep this Service Manual for future consultation of useful information at all times. If you lose this manual, ask for a new copy from your **HI-TECH** local distributor or directly contact **HI-TECH SPRAY EQUIPMENT**.

!WARNING! The design of the G PRO - 50H dosing unit does not allow it to be used in potentially explosive atmospheres or to exceed the pressure and temperature limits described in the technical specifications of this manual.

When working with the unit, it is recommended that the operator wear suitable clothing and elements of personal protection, including, without limitation, gloves, protective goggles, safety footwear and face masks. Use breathing equipment when working with the machine in enclosed spaces or in areas with insufficient ventilation. The introduction and follow-up of safety measures must not be limited to those described in this manual. Before starting up the machine, a comprehensive analysis must be made of the risks derived from the products to be dispensed, the type of application and the working environment



To prevent all possible bodily harm caused by incorrect handling of the raw materials and solvents used in the process, carefully read the safety information provided by your supplier.



Deal with the waste caused according to current regulations.

Disconnect the unit from the power supply before carrying out any operation inside the electrical console.



The electrical maintenance of the machine must only be performed by a qualified electrician.

To avoid damage caused by the impact of pressurized fluids, do not open any connection or perform maintenance work on components subject to pressure until the pressure has been completely eliminated.



Use suitable protection when operating, maintaining or remaining in the operating area of the unit. This includes, but is not limited to, the use of masks, protective goggles, gloves, shoes and safety clothing.

The unit includes components that reach temperatures that are liable to cause burns. The hot parts of the unit must not be handled until they have cooled.



To prevent serious harm by crushing or loss of limbs, do not work with the unit without the safety guards installed on all moving parts. Make sure that all of the safety protections are correctly reinstalled after all repair or maintenance work is completed.

PROPORTIONING UNIT "G PRO – 50H"

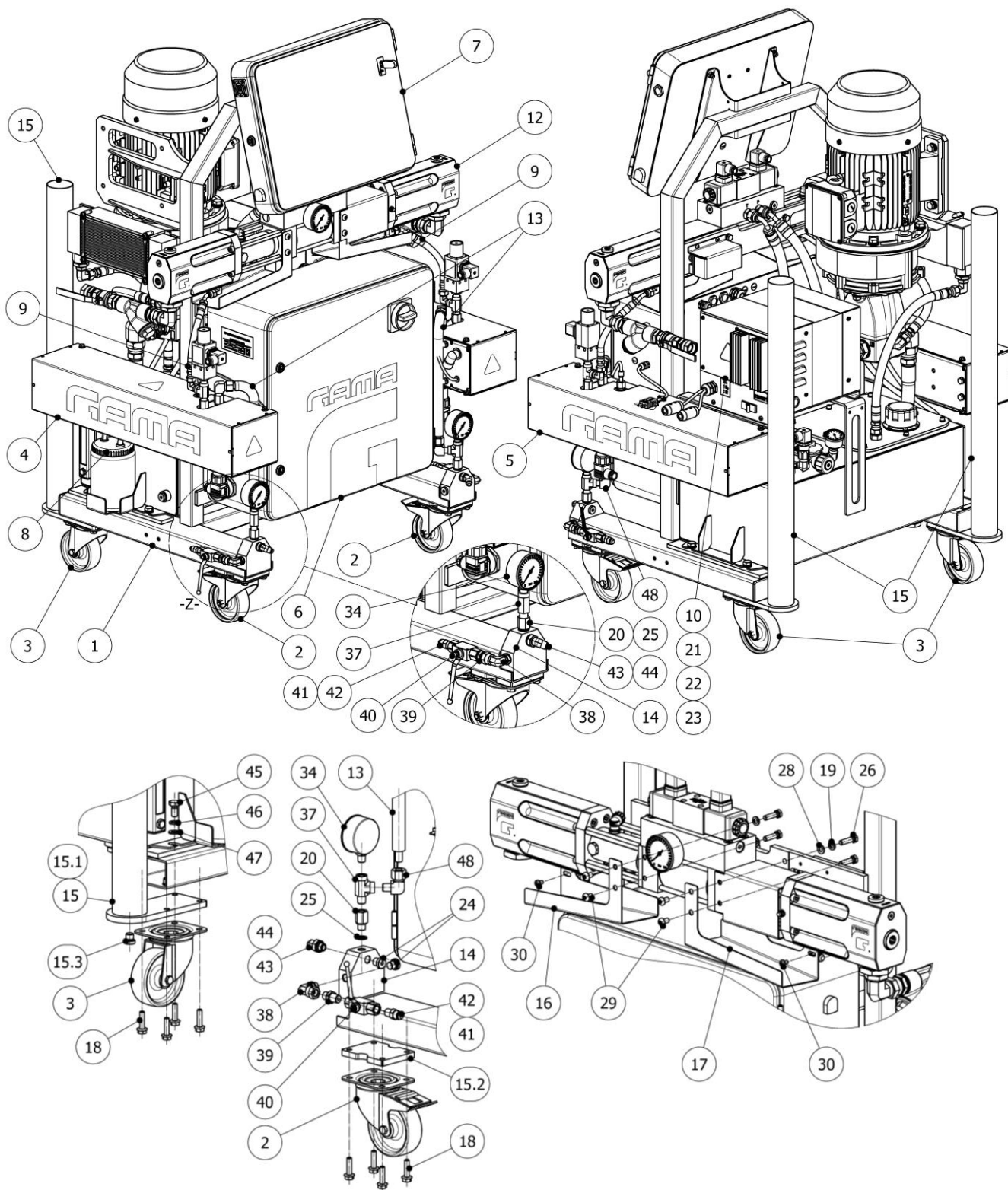


Figure 1. Proportioning Unit "G PRO - 50H"



Table 1. Proport. Unit "G PRO - 50H", Parts List

Item	Description	Part Number	Qty.
1	Frame Assembly	MQ-21001-00	1
2	Front Wheel with Brake	MQ-01002	2
3	Back Wheel	MQ-01016	2
4	A Primary Heater	See Table 3	1
5	R Primary Heater	See Table 4	1
6	Electrical Components Cabinet	See Table 5	1
7	Control Console Assembly "G PRO - 50H"	EL-00337B	1
8	Lube Reservoir	MQ-01022	1
9	Pump/Heater Hose	MA-00212	2
10	Hose Transformer	See Table 2	1
11			
12	Pump Line Assembly	PU-06400-012G	1
13.1	ISO Insulated Rigid Conduit	MP-00002 (*)	1
13.2	POL Insulated Rigid Conduit	MP-00002 (*)	1
14	Outlet Manifold	MQ-21012-01	2
15	Transfer Pumps Supports Assy (OPTIONAL)	MQ-01015-00	1
15.1	Rear Support (Included in item 15)	MQ-01015-04	2
15.2	Front Plate (Included in in item 15)	MQ-01015-03	2
15.3	Plug (Included in item 15)	RA-00013	2
16	ISO Drip Pan	MQ-21005	1
17	POL Drip Pan	MQ-21006	1
18	Hex. Flange Screw (with transfer pumps sup.)	TN-00523	16
	Hex. Flange Screw (without transfer pumps sup.)	TN-00504	
19	Washer	TN-00028	4
20	Adapter	RA-00077	2

(*) Raw code.



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Item	Description	Part Number	Qty.
21	Hex. Cap Screw	TN-00453	4
22	Washer	TN-00025	4
23	Washer	TN-00395	4
24	Plug	RA-00013	4
25	Bimetal seal	OR-00054	2
26	Hex. Cap Screw	TN-00054	4
27			
28	Washer	TN-00119	4
29	"ULS" Cap Screw	TN-00237	4
30	"ULS" Cap Screw	TN-00248	2
31			
32			
33			
34	Pressure Gauge	HI-00035	2
35			
36			
37	"T" Male-Double Female	RA-00018	2
38	90° Swivel Elbow	RA-00496	2
39	Male Union	RA-00138	2
40	Ball Valve	RA-00217	2
41	Male Union POL	RA-00147	1
42	Male Union ISO	RA-00146	1
43	45° Swivel Elbow POL	RA-00041	1
44	45° Swivel Elbow ISO	RA-00042	1
45	Hex. Cap Screw	TN-00465	4
46	Washer	TN-00087	4
47	Washer	TN-00162	4
48	Elbow Tube Fitting	RA-00038	2



Table 2. Hose Transformer "G PRO - 50H", Reference List

Reference		Description
EL-00127-15	400V	Hose Transformer 3PE~400V Version
EL-00127-22	230V	Hose Transformer 3PE~230V Version

Table 3. Primary Heaters "A" ISO "G PRO - 50H", Reference List

Reference		Description
CL-23005-00BT	400 V	A Primary Heater 9000 W with Transducer
CL-23005-00FT	230V	A Primary Heater 9000 W with Transducer

Table 4. Primary Heaters "R" Resin "G PRO - 50H", Reference List

Reference		Description
CL-23006-00BT	400V	R Primary Heater 9000 W with Transducer
CL-23006-00FT	230V	R Primary Heater 9000 W with Transducer

Table 5. Electrical Console, Reference List

Reference	Description
EL-00337A	Electrical Console Assy (3PE~400V, 3 Phase Motor)
EL-00337A-230	Electrical Console Assy (3PE~230V, 3 Phase Motor)

[illegible]

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Table 6. Electrical Component Cabinet, "G PRO - 50H", Parts List

Item	Description	Part Number	Qty.
1	Finished Cabinet Box	EL-00291-02	1
2	Allen Cap Screw	TN-00186	4
3	Washer	TN-00119	4
4	Washer	TN-00038	4
5	Plain Mounting Plate	EL-00291-A	1
6	Washer	TN-00024	4
7	Lock Nut	TN-00476	4
8	Cable Gland	EL-00088-04	1
9	Nut	EL-00090-05	1
10	Cable Gland	EL-00088-00	4
11	Nut	EL-00090-00	6
12	Plug	EL-00088-03	1
13			
14	Airing Grille	EL-00158-05	2
15	Nut (included in Item 14)	-	-
16			
17	Nut	TN-00107	3
18	Male Connector Type E	EL-00096-84	1
19	Plug	EL-00183	1
20	35 DIN Rail	EL-00106-00	0,47
21	Main Switch	EL-00107-18	1
	Selector Handle, Red/Ylw	EL-00107-19	1
22	Vinyl	EM-00114-01	1
23	ID Plate	-	2
24	90º Elbow Cable Gland	EL-00087-01	4
25	Nut	EL-00090-01	8



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Item	Description	Part Number	Qty.
26	Door Lock Set	EL-00034	2
27	Washer	TN-00103	3
28	Lock Nut	TN-00486	3
29	Cable Clip	EL-00096-86	1
30	Cable Gland	EL-00088-01	1
31	Nut	EL-00090-03	1
32	Plug	EL-00183	2
33	Rubber Seal (not shown)	EL-00001-06	2 m
34	Cable Gland	EL-00088-05	1
35	Nut	EL-00090-06	1
36	Cable Gland	EL-00088-02	3

CONTROL CONSOLE

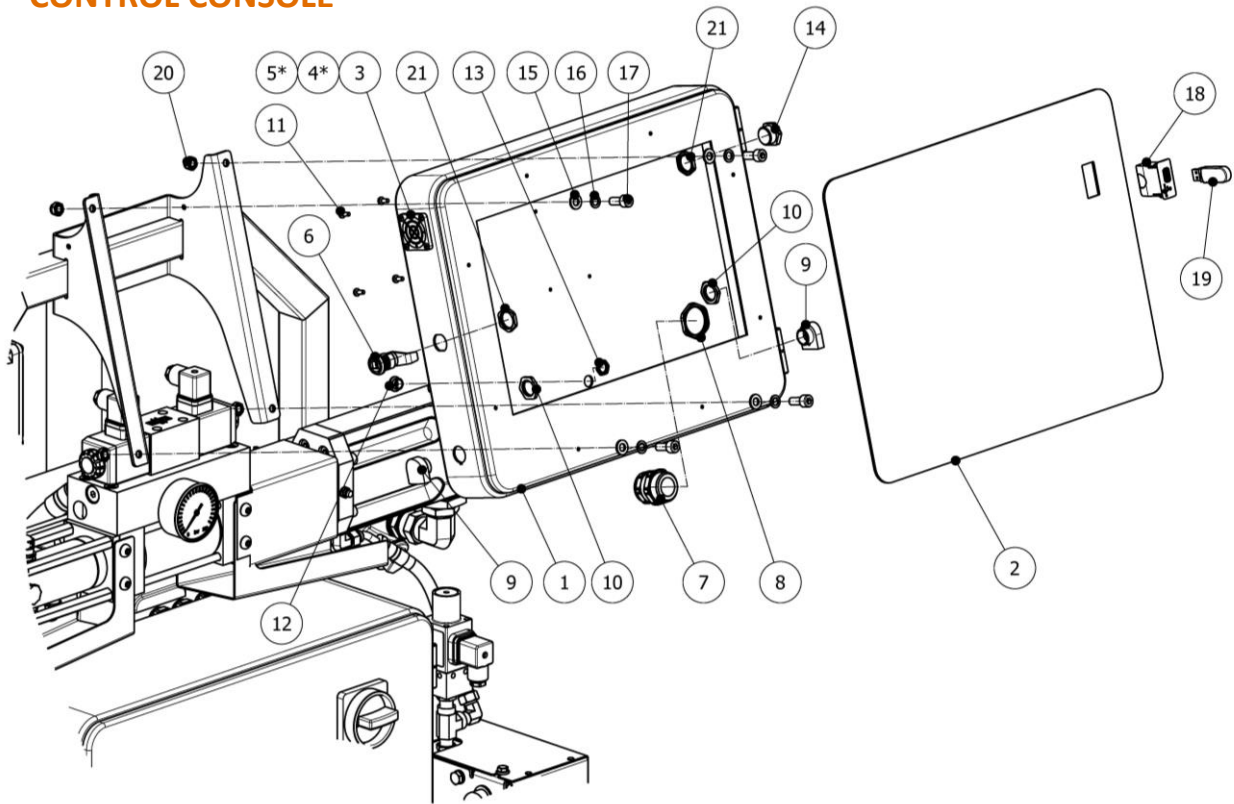


Figure 2. Control Console "G PRO - 50H"

Table 7. Control Console "G PRO - 50H", Parts List

Item	Description	Part Number	Qty.
1	Cabinet Box with Hinged Door	EL-00293-012011	1
2	Control Panel	EL-00338	1
	Electronic Circuit	EL-00019-07	1
3	Airing Grille Assy (with Filter)	EL-00132-02	1
4*	Fan	EL-00133-03	1
5	Countersunk Cap Screw	TN-00487	4
5*	Hex Nut	TN-00312	4
6	Lock Set	EL-00034	1
7	Cable Gland	EL-00088-01	1

(*) The Fan is an optional part, when it is mounted the 4 nuts (item5) do not exist.



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Item	Description	Part Number	Qty.
8	Nut	EL-00090-03	1
9	Airing Grille	EL-00158-05	2
10	Nut (included in Item.9)	-	-
11	Plug Screw	TN-00143	4
12	Plug	EL-00183	1
13	Nut	EL-00090-00	1
14	Plug	EL-00088-03	1
15	Flat Washer	TN-00119	4
16	AET Washer	TN-00038	4
17	Allen Screw	TN-00176	4
18	USB Port (with logger)	EL-00078-04	1
	Window Plug (without logger)	EL-00190	
19	Mass storage (with logger)	EL-00078-05	1
20 (#)	Rubber Seal	EL-00001-06	1.5 m

(#) Parts not marked on the drawing.

This exploded view diagram illustrates the assembly of a mechanical system, likely a pump or motor unit. The components are numbered as follows:

- 1**: Main base plate.
- 2**: Vertical support plate.
- 3**: Horizontal support plate.
- 4**: Central vertical shaft or rod.
- 5**: Motor housing or pump head.
- 6**: Motor or pump body.
- 7**: Motor or pump body (alternative view).
- 8**: Motor or pump body (alternative view).
- 9.1**, **9.2**, **9.3**: Motor or pump body (alternative views).
- 10**: Motor or pump body (alternative view).
- 11**: Motor or pump body (alternative view).
- 12**: Motor or pump body (alternative view).
- 13**: Motor or pump body (alternative view).
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- 27**: Motor or pump body (alternative view).
- 28**: Motor or pump body (alternative view).
- 29.1**, **29.2**, **29.3**: Motor or pump body (alternative views).
- 30**: Motor or pump body (alternative view).
- 31**: Motor or pump body (alternative view).
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- 48**: Motor or pump body (alternative view).
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- 50**: Motor or pump body (alternative view).
- 51**: Motor or pump body (alternative view).
- 52**: Motor or pump body (alternative view).

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Table 8. Hydr. Power Unit 3PE~400V 50/60Hz, 5.5kW Motor (with 28cc Pump), Parts List

Item	Description	Part Number	Qty.
1	Hydraulic Tank Assembly 28L	MQ-21002-00	1
2	Hyd. Tank Cover, Motor 4Kw/5.5kW 18/28cc Pump	MQ-21013-02	1
3	Inspection Cover Gasket	MQ-21004	1
4	Filling Filter Plug	HI-00002	1
5	Hyd. Return Filter	HI-00123	1
6	Motor 5.5kW 400v 50/60Hz	EL-00138-01	1
7	Bell Housing with oil Cooler, Motor 4kW/5.5kW-18/28cc	HI-00210	1
8	28cc Pump Assembly with Pressure Regulator	HI-00238-G50H	1
8.1	Pump 28cc	HI-00238-00	1 (°)
8.2	Pressure Regul. Assembly 18/28cc	HI-00149-00	1 (°)
8.2.A	Pressure Regul. bolt 18/28cc (without gaskets and nut)	HI-00149-01	1 (@)
8.2.B	Pressure Regul. knob 18/28cc	GU-02007	1 (@)
8.2.C	Lock Pin 18/28cc	TN-00099	2 (@)
8.2.D	Stop Nut 18/28cc	TN-00108	2 (@)
8.2.E	Washer 18/28cc	TN-00024	1 (@)
8.2.F			
8.2.G	Anti-Extrusion Ring (supplied with pump)	(*)	1
8.2.H	O-Ring (supplied with pump)	(*)	1

(°) Parts included in Item 8.

(@)Parts included in Item 8.2



Item	Description	Part Number	Qty.
9	Elastic Coupling Assembly	HI-00046-00	1
9.1	4kW/5.5kW 112M Motor Side Bushing	HI-00006-02	1 (&)
9.2	18/28cc Pump Side Bushing	HI-00046-01	1 (&)
9.3	Spidex	HI-00006-01	1 (&)
10	Elbow 90°	RA-00568	1
11	Aspiration Hose	MA-00232	1
12	Male Union	RA-00500	1
13	Swivel Elbow 90°	RA-00058	1
14	Reduction	RA-00260	2
15	Swivel Elbow 90°	RA-00558	2
16	ULS Cap Screw	TN-00166	6
17	Rubber Bulkheads	HI-00140	1
18	Allen Cap Screw	TN-00026	8
19	Washer	TN-00025	8
20	Washer	TN-00024	8
21	<i>Not mounted</i>		
22	Plug	RA-00013	1
23	<i>Not mounted</i>		
24	Metal O-ring	OR-00082	1
25	Plug	RA-00022	1
26	Hex. Cap Screw	TN-00465	4
27	Lock Washer	TN-00087	4
28	Washer	TN-00162	4
29	Bulkhead Assy	RA-00060	1
29.1	Bulkhead	RA-00172	1 (\$)
29.2	Ferrule	RA-00173	1 (\$)
29.3	Nut Ferrule	RA-00174	1 (\$)

(\$) Parts included in Item 29.

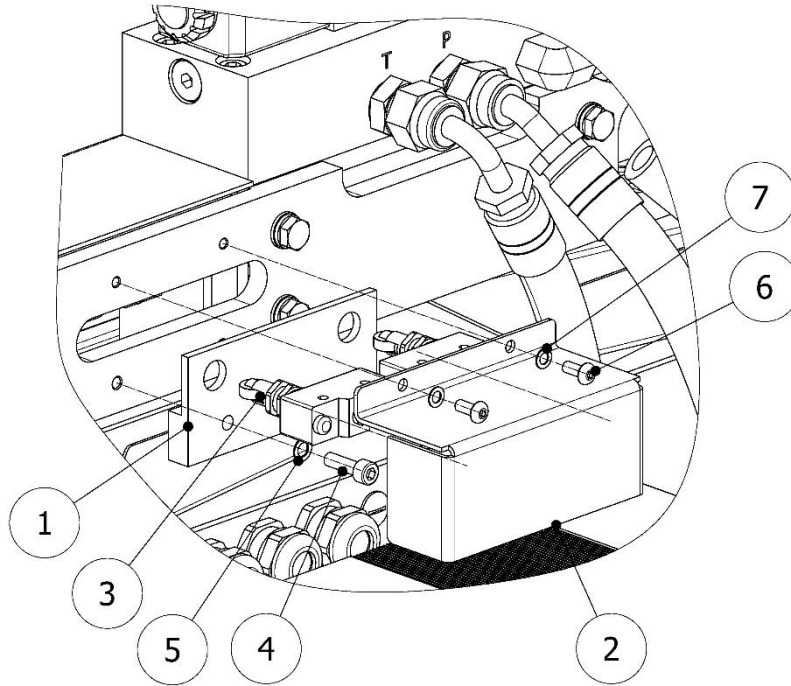
(&) Parts included in Item 9



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Item	Description	Part Number	Qty.
30	Drainpipe	HI-00212	1
31	<i>Not mounted</i>		
32	Safety Pressure Gauge (included in Item.5)	HI-00123	1
33	<i>Not mounted</i>		
34	Hex. Cap Screw	TN-00163	2
35	Lock Washer	TN-00087	2
36	Washer	TN-00162	2
37	Male Union	RA-00316	1
38	Return Hose	HI-00213	1
39	Return Drain Hose	HI-00214	1
40	Pressure Hose	HI-00215	1
41	Drain Hose Pump	HI-00216	1
42	Hyd. Level / Thermometer	HI-00001	1
43	Hex. Cap Screw	TN-00199	4
44	Lock Washer	TN-00039	4
45	Washer	TN-00040	4
46	Hex. Cap Screw	TN-00129	4
47	Lock. Washer	TN-00087	4
48	Washer	TN-00162	4
49	Hex. Cap Screw	TN-00392	2
50	Lock Washer	TN-00145	2
51	Washer	TN-00162	2
52	Hex. Nut	TN-00105	2

(#) 1 piece standard version and one piece for optional mounting.



Item	Description	Part Number	Qty.
1	Reversing Switch Support	MQ-01005	1
2	Reversing Switch Cover	MQ-01006	1
3	Reversing Switch (with 2 nuts)	EL-00020	2
4	Allen Cap Screw	TN-00026	2
5	<i>Not mounted</i>		
6	ULS Cap Screw	TN-00166	2
7	<i>Not mounted</i>		

LUBE RESERVOIR UNIT

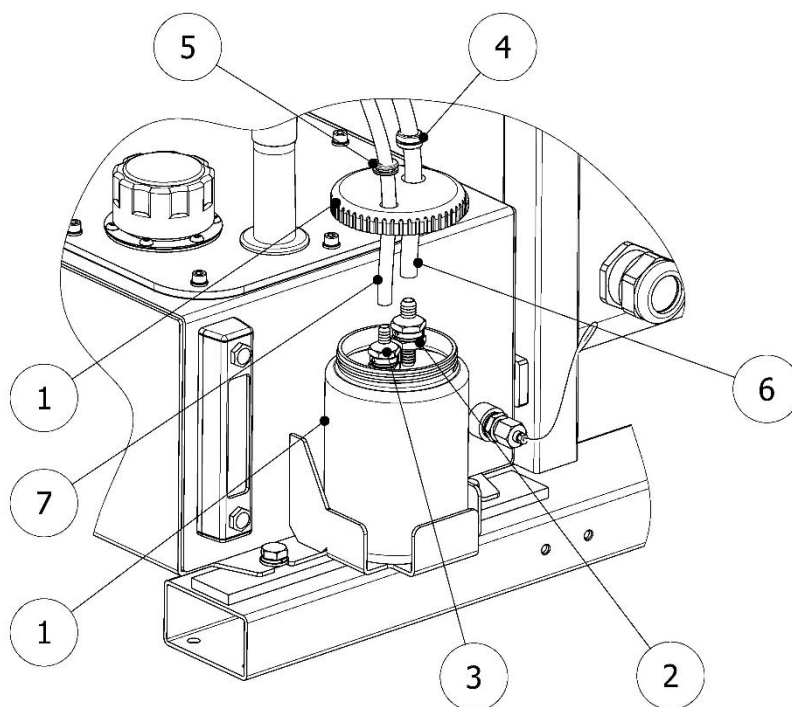


Figure 5. Lube Reservoir Unit

Table 10. Lube Reservoir Unit, Parts List

Item	Description	Part Number	Qty.
1	Lube Reservoir Bottle with Drilled Cap (*)	MQ-01009-01	1
2	Lube Reservoir Check Valve for Pipe 12x1	RA-00068	1
3	Lube Reservoir Check Valve for Pipe 10x1	RA-00283	1
4	Rubber Grommet	EL-00095-03	1
5	Rubber Grommet	EL-00095-01	1
6	Supply Line	MA-00025	1
7	Return Line	MA-00024	1

(*) The tank and cover Item.1 are indivisible, they cannot be supplied separately.

PRODUCT INLET STANDARD VERSION

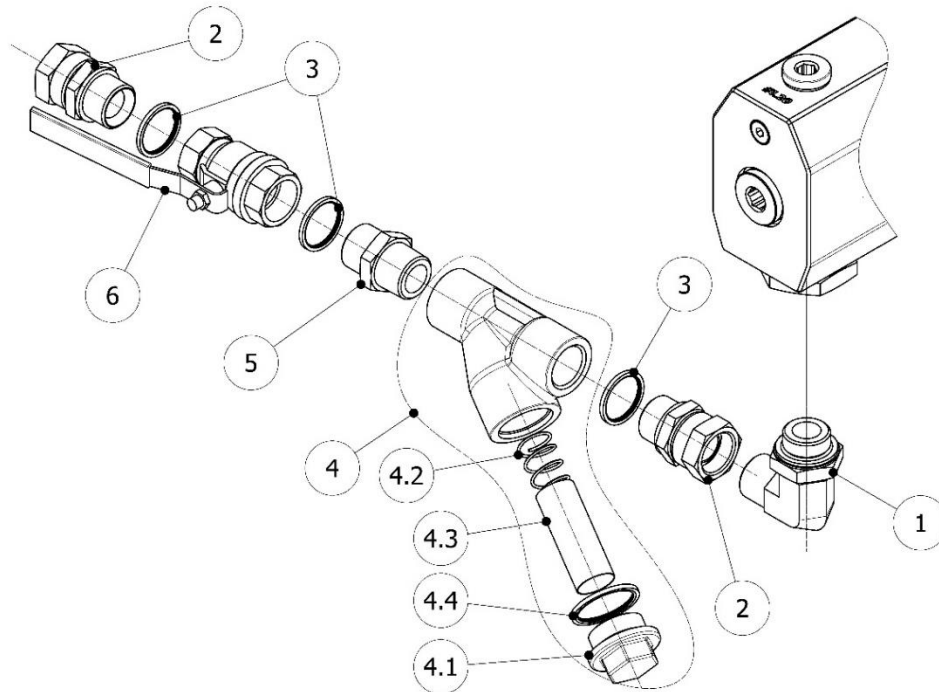


Figure 6. Product Inlet Standard Version

Table 11. Product Inlet Standard Version, Parts List

Item	Description	Part Number	Qty.
1	Swivel Elbow 90º	RA-00072	2
2	Swivel Union	RA-00073	4
3	Metal O-ring	OR-00082	6
4	"Y" Filter	RA-00074-00	2
4.1	Filter Plug	RA-00074-01	2
4.2	Filter Spring	SP-00017	2
4.3	Filter Mesh	RA-00074-03-30	2
4.4	Filter O-ring	OR-00061	2
5	Male Union	RA-00143	2
6	Ball Valve	RA-00078	2

Valid for both products inlet.

PUMP LINE ASSEMBLY

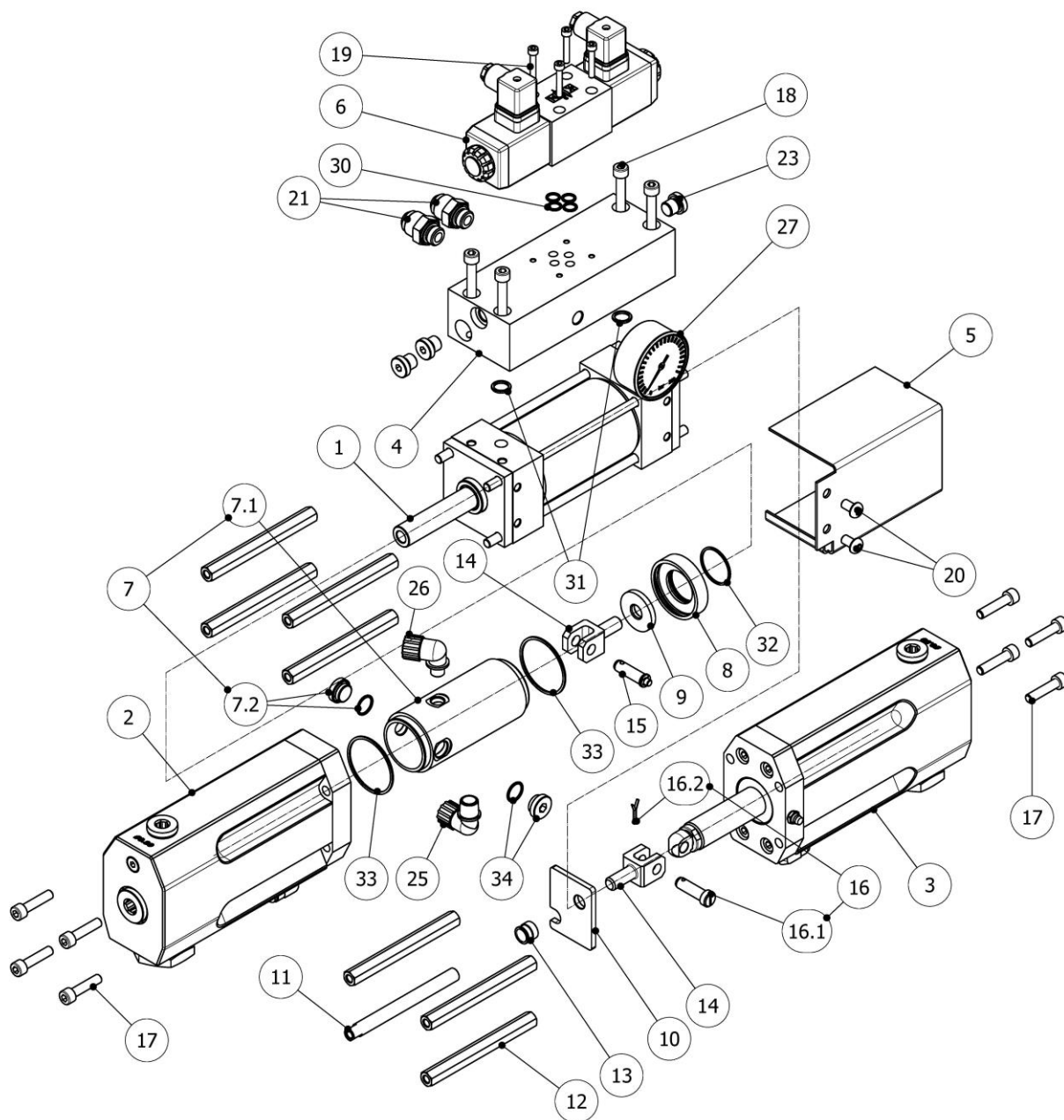


Figure 7. Pump Line Assembly



Table 12. Pump Line Assembly, Parts List

Item	Description	Part Number	Qty.
1	Hydraulic Cylinder	HI-00101-00	1
2	"A" Isocyanate Proportioning Pump	See Table 13	1
3	"R" Resin Proportioning Pump	See Table 13	1
4	Hydr. Manifold (STANDARD)	MQ-01007	1
5	Activator Plate Protection Cover	PU-01027	1
6	Directional Valve	HI-00054	1
7	ISO Pump Lubricator Jacket Assy	PU-01018	1
7.1	ISO Pump Lubricator Jacket	PU-01018M	1
7.2	Al. Plug with o-ring	RA-00116	1
8	Lube Cylinder Adapter Plate	PU-01021	1
9	Baffle	PU-01019	1
10	Reversion Switch Activation Plate	PU-01023	1
11	Bushing Guide Spacer	PU-01026	1
12	Cylinder Spacer	PU-01025	7
13	Bushing	PU-01022	1
14	Cylinder Axle Fork	PU-01043	2
15	Pin Assembly, ISO Pump (incl.15.1+15.2+15.3)	PU-01044-00	1
15.1	Clevis Pin (included in Pos.15)	PU-01044-01M	1
15.2	Lock Washer (included in Pos.15)	TN-00136	1
15.3	Washer (included in Pos.15)	TN-00024	1
16	Clevis Pin Assembly, Resin Pump (incl.16.1+16.2)	PU-01045-00	1
16.1	Clevis Pin (included in Pos.16)	PU-01045-01	1
16.2	Split Pin (included in Pos.16)	TN-00077	1
17	Allen Cap Screw	TN-00245	8
18	Allen Cap Screw	TN-00090	4



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Item	Description	Part Number	Qty.
19	Screw	TN-00148	4
20	ULS Cap Screw	TN-00135	2
21	Male Union	RA-00062	2
22			
23	Plug	RA-00013	4
24			
25	Plastic Swivel Elbow	RA-00489	1
26	Plastic Swivel Elbow	RA-00066	1
27	Hydr. Pressure Gauge	HI-00078	1
28			
29			
30	O-Ring	OR-00035	4
31	O-Ring	OR-00019	2
32	O-Ring	OR-00021	1
33	O-Ring	OR-00020	2
34	Al. Plug with o-ring	RA-00116	1

Table 13. Proportioning Pump Size, Parts List

SIZE	Proportioning Pump Size	
	item 2 (ISO Pump)	item 3 (POL Pump)
1.20	PU-06401-012G	PU-06402-012G
0.80	PU-06401-008G	PU-06402-008G

Note: (*) The standard proportioning pump size is #1.20. Different sizes are available under order. For delivery time, please consult with marketing department.

HYDRAULIC CYLINDER

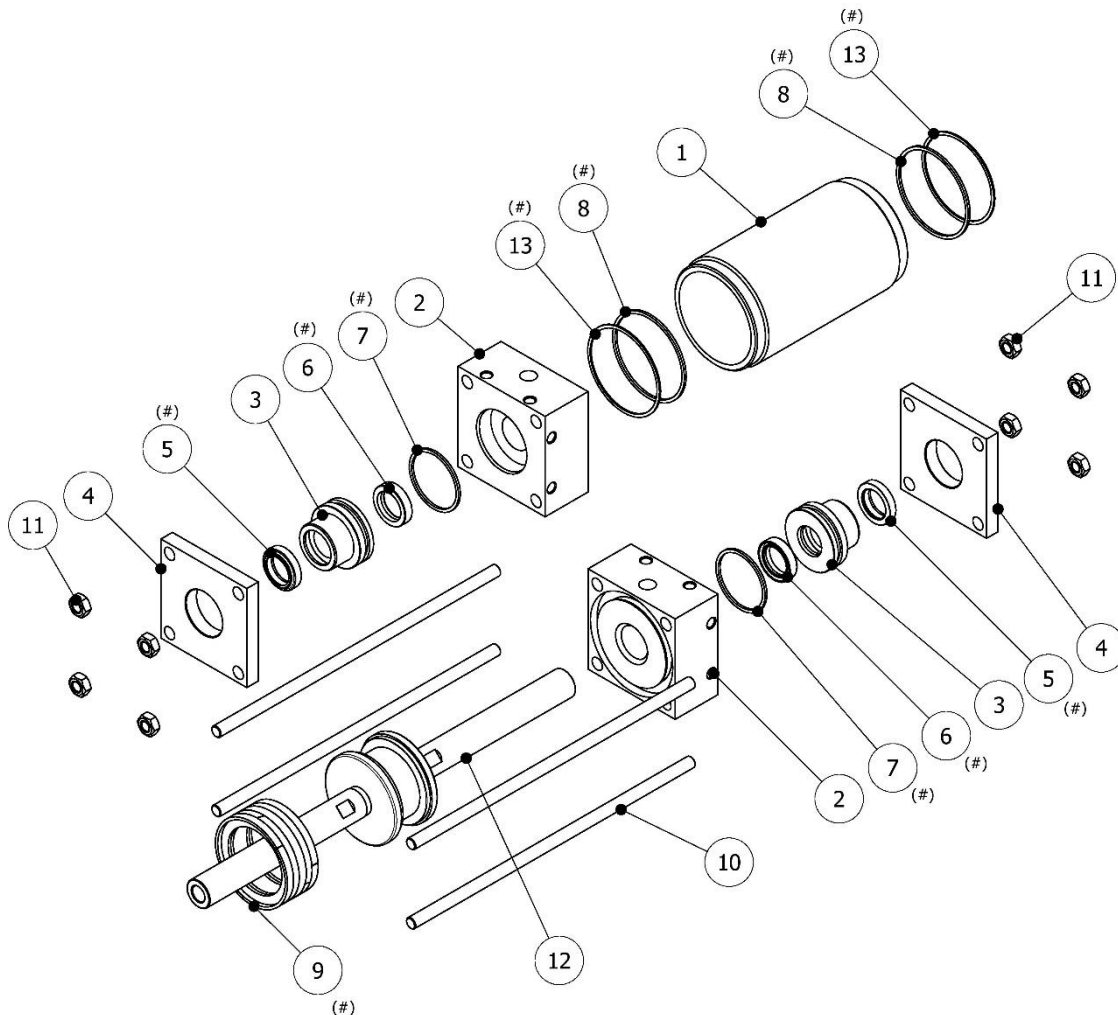


Figure 8. Hydraulic Cylinder

Note: The indicated parts (#) are included in the repair seal kit KT-00010-01.



Table 14. Hydraulic Cylinder, Parts List

Item	Description	Part Number	Qty.
1	Cylinder Body	HI-00025-05	1
2	Port Block	HI-00101-04	2
3	Rod Bushing	HI-00101-03	2
4	Front Plate	HI-00025-02	2
5	Rod Wiper	OR-00095	2 (#)
6	Shaft Seal	OR-00096	2 (#)
7	O-Ring	OR-00039	2 (#)
8	O-Ring	OR-00040	2 (#)
9	Piston O-Ring	OR-00041-00	1 (#)
10	Hydraulic Cylinder Tie Rod	HI-00025-06	4
11	Nut (*)	TN-00029	8
13	O-Ring Anti Extrusion	OR-00063	2 (#)
14	Piston	HI-00101-01	1

(*) Only when the cylinder is supplied as a spare part. Not included in the Pump Line fitted in the machine.

The indicated parts (#) are included in the repair seal kit KT-00010-01.

"A" PROPORTIONING PUMP ASSEMBLY

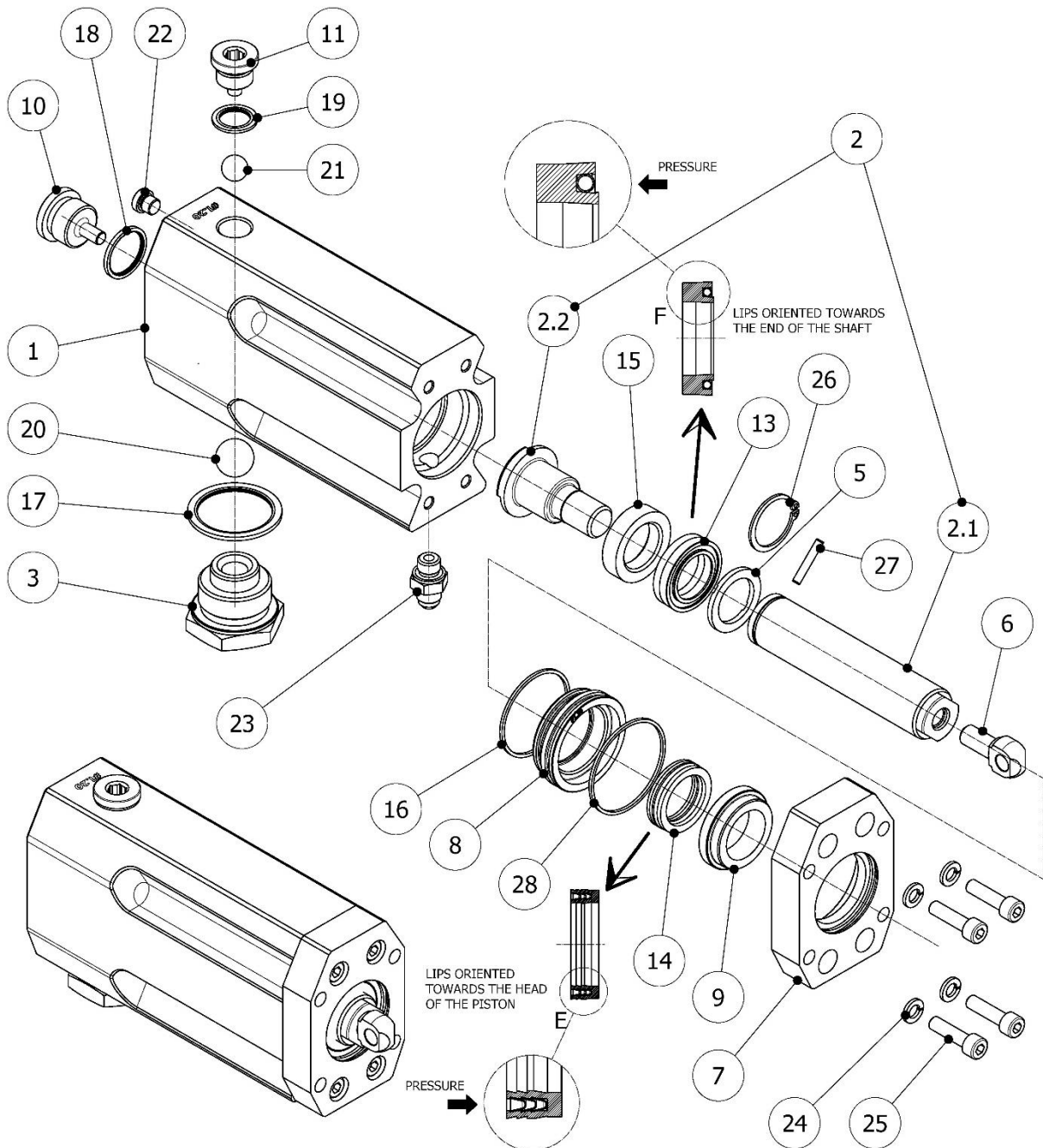


Figure 9. "A" Proportioning Pump Assembly



Table 15. “A” Proportioning Pump Assembly, Parts List

Item	Description	Part Number	Qty.
1	Body Pump with Check Valve Seat	See Table 16	1
2	Piston Rod Assembly (Only item. 2.1 y 2.2)	See Table 16	1
2.1	Piston Rod (Included in item 2)	See Table 16	1 (#)
2.2	Piston Head (Included in item 2)	See Table 16	1 (#)
3	Inlet Ball Seat Assembly	PU-01003-OJ	1
4			
5	Piston Seal	See Table 16	1
6	Pump Clevis	PU-01042	1
7	Monobloc Flange Pump – ISO	NPU-06004	1
8	Seat Seal – ISO	See Table 16	1
9	Bearing ISO	See Table 17	1 (*)
10	Plug Side Pump	PU-01003-OE	1
11	Upper Plug Pump	PU-01003-OF	1
12			
13	Piston Seal	See Table 17	1 (*)
14	Cylinder Seal	See Table 17	1 (*)
15	Piston Guide	See Table 17	1 (*)
16	O-Ring	See Table 17	1 (*)
17	Metallic Ring	OR-00088	1
18	Metallic Ring	OR-00082	1
19	Metallic Ring	OR-00023	1
20	Lower Ball	TN-00013	1
21	Upper Ball	TN-00012	1
22	Plug	RA-00211	1
23	Output Elbow	RA-00050	1

NOTE: The parts marked with (*), are included in the repair seal kit of “A” pump (see Table 18).

The parts marked with (#), are not supplied separately.



Item	Description	Part Number	Qty.
24	Washer	TN-00028	4
25	Allen Screw	TN-00062	4
26	Seeger Ring	See Table 16	1
27	Pin	See Table 16	1
28	O-Ring	See Table 17	1 (*)

NOTE: The parts marked with (*), are included in the repair seal kit of "A" pump (see Table 18).

Table 16. "A" Proportioning Pump Assembly, Parts List

Pump	Item 1	Item 2 (2.1 + 2.2)	Item 2.1	Item 2.2
1.20	PU-06001-012	PU-01006-012	PU-01007-012	PU-01008-012
0.80	PU-06001-008	PU-01006-008	PU-01007-008	PU-01008-008

Pump	Item 5	Item 8	Item 26	Item 27
1.20	PU-01010-012	PU-06009-012G	TN-00070	TN-00086
0.80	PU-01010-008	PU-06009-008G	TN-00067	TN-00085



Table 17. Seals Monobloc "A" ISO Pump, Parts List

Item	1.20	0.80
9	PU-06007-012	PU-06007-008
13	PU-01016-012A	PU-01016-008A
14	PU-01017-012G	PU-01017-008G
15	PU-01014-012A	PU-01014-008A
16	OR-00009	OR-00009
28	OR-00115	OR-00115

Table 18. Repair Seal Kit "A" ISO Pump, Ref.List

Pump	Item
1.20	KT-00157
0.80	KT-00159

Note:

The standard proportioning pump sizes is #1.20. Different sizes are available under order. For delivery time, please consult with marketing department.

The Repair seal kit include the parts indicated in the Table 15.

"R" PROPORTIONING PUMP ASSEMBLY

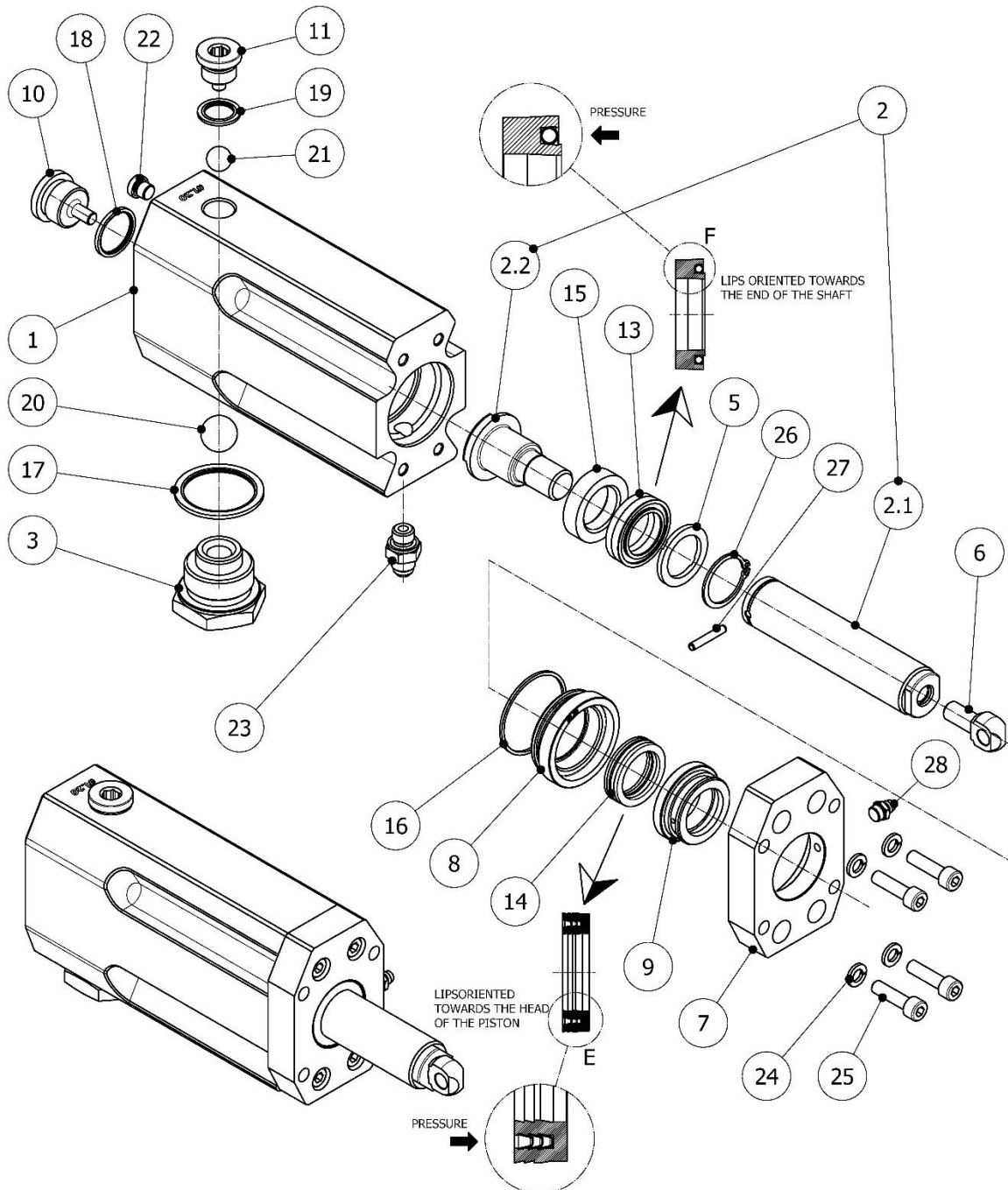


Figure 10. "R" Proportioning Pump Assembly



Table 19. "R" Proportioning Pump Assembly, Parts List

Item	Description	Part Number	Qty.
1	Body Pump with Check Valve Seat	See Table 20	1
2	Piston Rod Assembly (Only item. 2.1 y 2.2)	See Table 20	1
2.1	Piston Rod (Included in item 2)	See Table 20	1 (#)
2.2	Piston Head (Included in item 2)	See Table 20	1 (#)
3	Inlet Ball Seat Assembly	PU-01003-OJ	1
4			
5	Piston Seal	See Table 20	1
6	Pump Clevis	PU-01042	1
7	Monobloc Flange Pump – POL	NPU-06005	1
8	Seat Seal – POL	Ver Table 20	1
9	Bearing ISO	Ver Table 21	1 (*)
10	Plug Side Pump	PU-01003-OE	1
11	Upper Plug Pump	PU-01003-OF	1
12			
13	Piston Seal	See Table 21	1 (*)
14	Cylinder Seal	See Table 21	1 (*)
15	Piston Guide	See Table 21	1 (*)
16	O-Ring	See Table 21	1 (*)
17	Metallic Ring	OR-00088	1
18	Metallic Ring	OR-00082	1
19	Metallic Ring	OR-00023	1
20	Lower Ball	TN-00013	1
21	Upper Ball	TN-00012	1
22	Plug	RA-00211	1

Nota.: The parts marked with (*), are included in the repair seal kit of "R" (see Table 22).

The parts marked with (#), are not supplied separately.



Item	Description	Part Number	Qty.
23	Exit Elbow	RA-00050	1
24	Washer	TN-00028	4
25	Allen Screw	TN-00062	4
26	Seeger Ring	See Table 20	1
27	Pin	See Table 20	1
28	Grease Fiting	TN-00073	1

Table 20. "R" Proportioning Pump Assembly, Parts List

Pump	Item 1	Item 2 (2.1 + 2.2)	Item 2.1	Item 2.2
1.20	PU-06001-012	PU-01006-012	PU-01007-012	PU-01008-012
0.80	PU-06001-008	PU-01006-008	PU-01007-008	PU-01008-008

Pump	Item 5	Item 8	Item 26	Item 27
1.20	PU-01010-012	PU-06006-012G	TN-00070	TN-00086
0.80	PU-01010-008	PU-06006-008G	TN-00067	TN-00085

Table 21. Seals Monobloc "R" Resin Pump, Parts List

Ítem	1.20	0.80
9	PU-06008-012	PU-06008-008
13	PU-01016-012A	PU-01016-008A
14	PU-01017-012G	PU-01017-008G
15	PU-01014-012A	PU-01014-008A
16	OR-00009	OR-00009



Table 22. Repair Seal Kit "R" Resin Pump, Ref. List

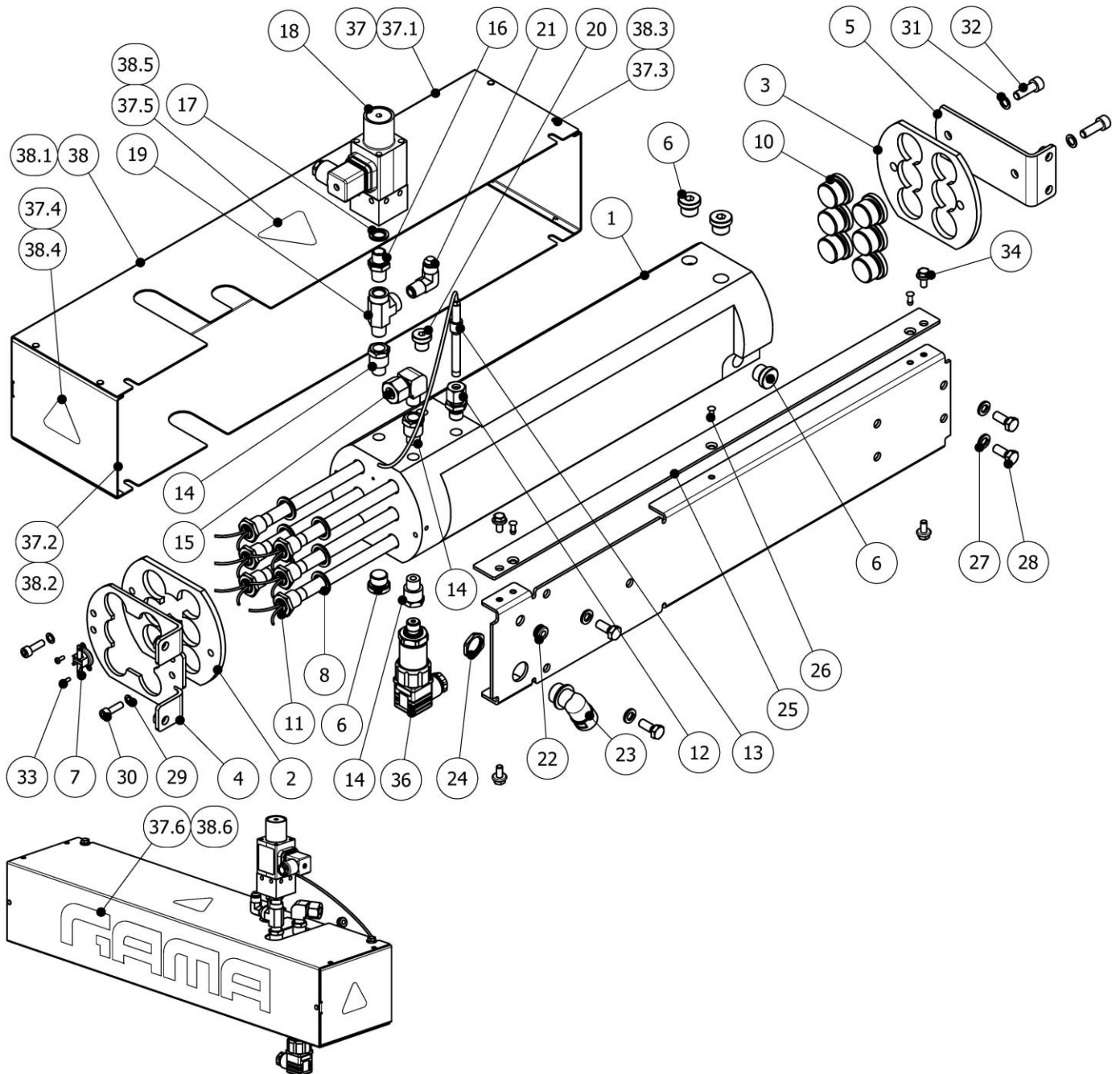
Pump	Item
1.20	KT-00158
0.80	KT-00160

Note:

(#) The standard proportioning pump size is #1.20. Different sizes are available under order. For delivery time, please consult with marketing department.

The Repair seal kit include the parts indicated (*) in the Table 19.

PRIMARY HEATER G PRO - 50H



Except for the heater cover, all parts are the same for ISO and POL heaters, symmetrically mounted

Figure 11. Primary Heater G PRO - 50H



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Table 23. Primary Heater G PRO - 50H, Parts List

Item	Description	Part Number	Qty.
1	Heater block	CLH-01001-01A	1+1
2	ROUND HEATER UPPER INSULATOR	CL-21003-04	1+1
3	ROUND HEATER BOTTOM INSULATION	CL-21003-05	1+1
4	ROUND HEATED UPPER SUPPORT ASSEMBLY	CL-21003-02	1+1
5	ROUND HEATED BOTTOM SUPPORT ASSEMBLY	CL-21003-03	1+1
6	PLUG	RA-00049	4+4
7	THERMOSTAT	EL-00006	1+1
8	METAL O-RING	OR-00018	6+6
10	PLUG	RA-00012	6+6
11	RESISTENCE	See Table 24	6+6
12	STRAIGHT FITTING	RA-00231	1+1
13	TEMPERATURE PROBE	EL-00146-00	1+1
14	EXTENSION FITTING	RA-00077	3+3
15	ELBOW 90º	RA-00038	1+1
16	MALE UNION	RA-00138	1+1
17	METAL O-RING	OR-00054	1+1
18	PRESOSTAT	HI-00021	1+1
19	"T" ADAPTER	RA-00018	1+1
20	PLUG	RA-00013	1+1
21	ELBOW 90º	RA-00044	1+1
22	GROMMET	EL-00095-00	1+1
23	ELBOW 90º CABLE GLAND	EL-00087-01	1+1
24	NUT	EL-00090-01	1+1



Item	Description	Part Number	Qty.
25	SUPPLEMENT PLATE	MQ-21010	1+1
26	RIVET	TN-00372	3+3
27	WASHER	TN-00028	4+4
28	HEX. CAP SCREW	TN-00187	4+4
29	AET WASHER	TN-00048	2+2
30	ALLEN SCREW	TN-00026	2+2
31	AET WASHER	TN-00038	2+2
32	ALLEN SCREW	TN-00027	2+2
33	ROUND CAP SCREW	TN-00128	2+2
34	HEX. CAP SCREW	TN-00491	4+4
36	TRANSDUCER	HI-00033	1+1
37	ISO ROUND HEATING HOUSING ASSEMBLY (Include from POS.37.1 to 37.6)	CL-23005-01	1
37.1	ISO ROUND HEATING HOUSING	CL-21003-01A	1
37.2	FRONT COVER	CL-21003-01B	2
37.3	RIVET	TN-00240	10
37.4	TENSION ADHESIVE	EM-00016	1
37.5	BURNS ADHESIVE	EM-00018	1
37.6	BRAND IDENTIFICATION VINYL	EM-00117-000C	1
38	POL ROUND HEATING HOUSING ASSEMBLY (Include from POS.38.1 to 38.6)	CL-23006-01	1
38.1	POL ROUND HEATING HOUSING	CL-21004-01A	1
38.2	FRONT COVER	CL-21003-01B	2
38.3	RIVET	TN-00240	10
38.4	TENSION ADHESIVE	EM-00016	1
38.5	BURNS ADHESIVE	EM-00018	1
38.6	BRAND IDENTIFICATION VINYL	EM-00117-000C	1



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Table 24. Heater Resistances "G PRO - 50H", Reference List

Item	Description	Part Number	Qty.
24	Heat Resistance 400v 1500w (STANDARD VERSION)	EL-00179	4+4
	Heat Resistance 230v 1500w	EL-00035	4+4

RECIRCULATION KIT DIRECT TO TANKS

NOTE:

The machine comes with standard fittings and ball valves for recirculation. The rest of the components to complete the set are the parts included in the kit.

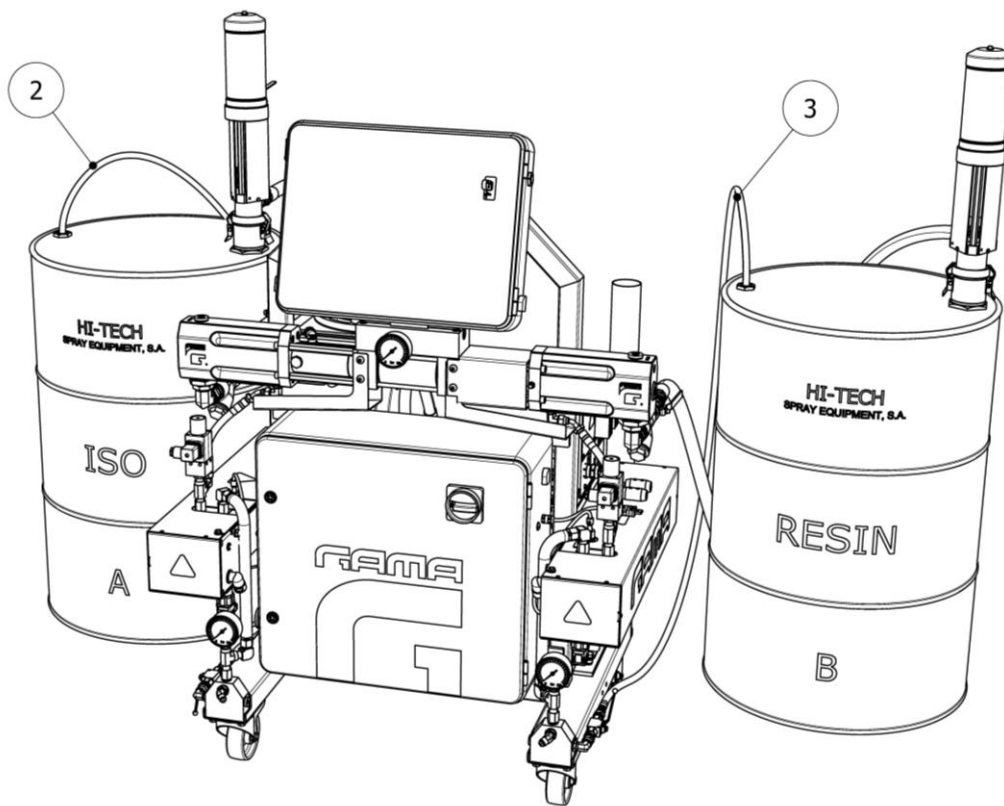


Figure 12. Recirculation Kit #KT-00199

Table 25. Standard Recirculation Kit #KT-00199, Parts List

Item	Description	Part Number	Qty.
	Recirculation Kit	KT-00199	1
2	Hose "A" ISO	MA-00050-01	1
3	Hose "R" POL	MA-00050-00	1

RECIRCULATION KIT, WITH ISO/POL DRIER

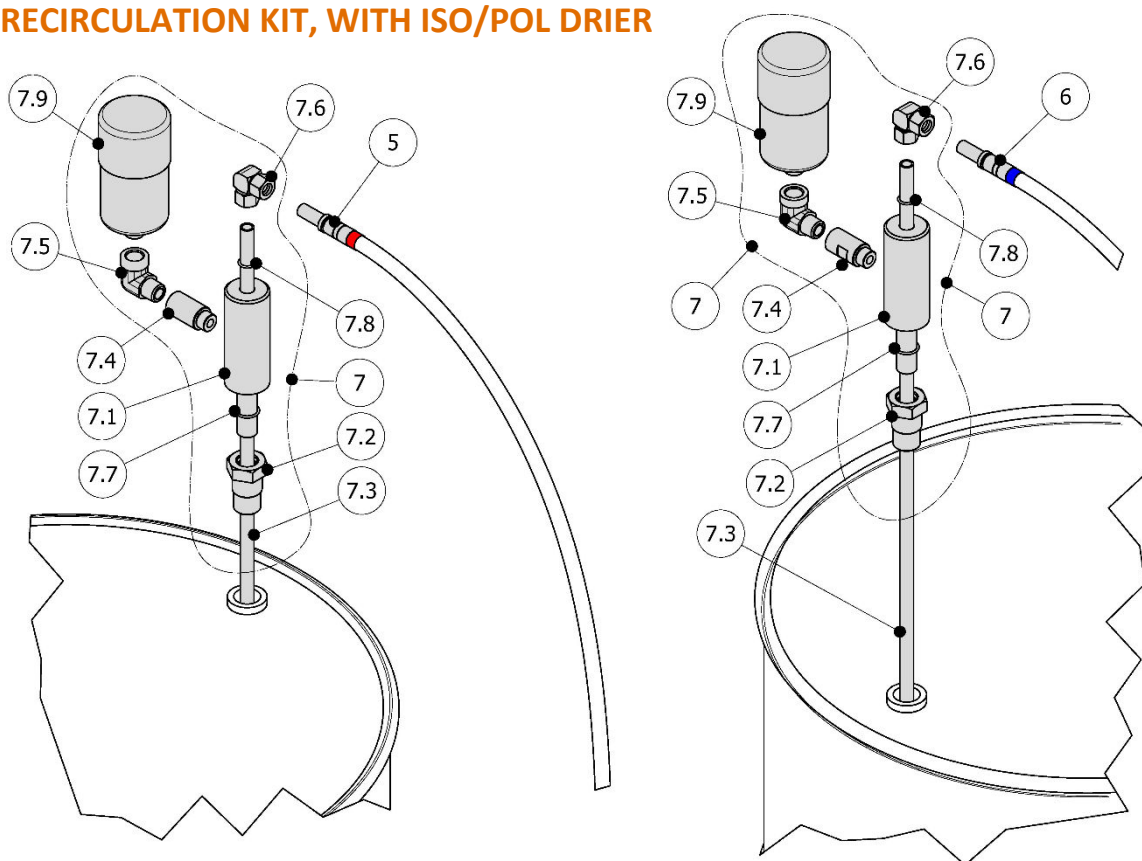


Figure 13. Recirculation Kit #KT-00199-01

Table 26. Recirculation Kit #KT-00199-01, Parts List

Item	Description	Part Number	Qty.
	Recirculation Kit	KT-00199-01	1
5	Hose "A" ISO	MA-00050-01	1
6	Hose "R" POL	MA-00050-00	1
7	Tank Adapter Kit	MQ-05009-00	2
7.1	Body Adapter	MQ-05010	1 (*)
7.2	Tank Adapter	MQ-05009	1 (*)
7.3	Pipe	HI-00075	1 (*)
7.4	Length Union	RA-00256	1 (*)

Note: (*) Unit quantities included in one item 7 set.



Item	Description	Part Number	Qty.
7.5	Elbow Union	RA-00257	1 (*)
7.6	Elbow Union for Pipe	RA-00200	1 (*)
7.7	O-Ring	OR-00055	2(*)
7.8	O-Ring	OR-00011	1 (*)
7.9	Dehumidifier filter (drying)	NE-00045	1 (*)

Note: (*) Unit quantities included in one item 7 set.

RECIRCULATION KIT, WITH DRYING ISO TANK

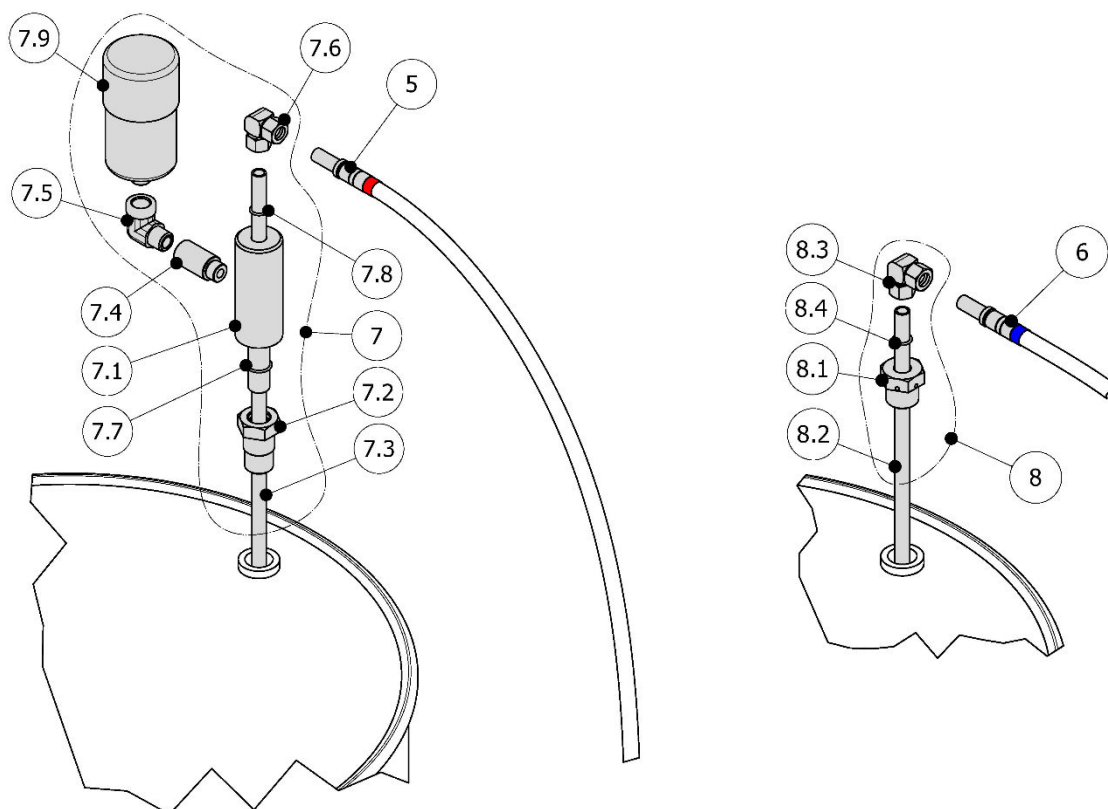


Figure 14. Recirculation Kit #KT-00199-03

Table 27. Recirculation Kit #KT-00199-03, Parts List

Item	Description	Part Number	Qty.
	Recirculation Kit	KT-00199-03	1
5	Hose "A" Iso	MA-00050-01	1
6	Hose "R" Resin	MA-00050-00	1
7	Tank Adapter Kit	MQ-05009-00	1
7.1	Body Adapter	MQ-05010	1
7.2	Tank Adapter	MQ-05009	1



Item	Description	Part Number	Qty.
7.3	Pipe	HI-00075	1
7.4	Length Union	RA-00256	1
7.5	Elbow Union	RA-00257	1
7.6	Elbow Union for Tube	RA-00200	1
7.7	O-Ring	OR-00055	2
7.8	O-Ring	OR-00011	1
7.9	Dehumidifier Filter (Drying)	NE-00045	1
8	Filter less Tank Adapter Assy	MQ-05010-00	1
8.1	Tank Adapter	MQ-05009-A	1
8.2	Pipe	HI-00075	1
8.3	Elbow Union for Pipe	RA-00200	1
8.4	O-Ring	OR-00011	1

ELECTRICAL SCHEM. 3PE~400V 50/60Hz, "G PRO - 50H"

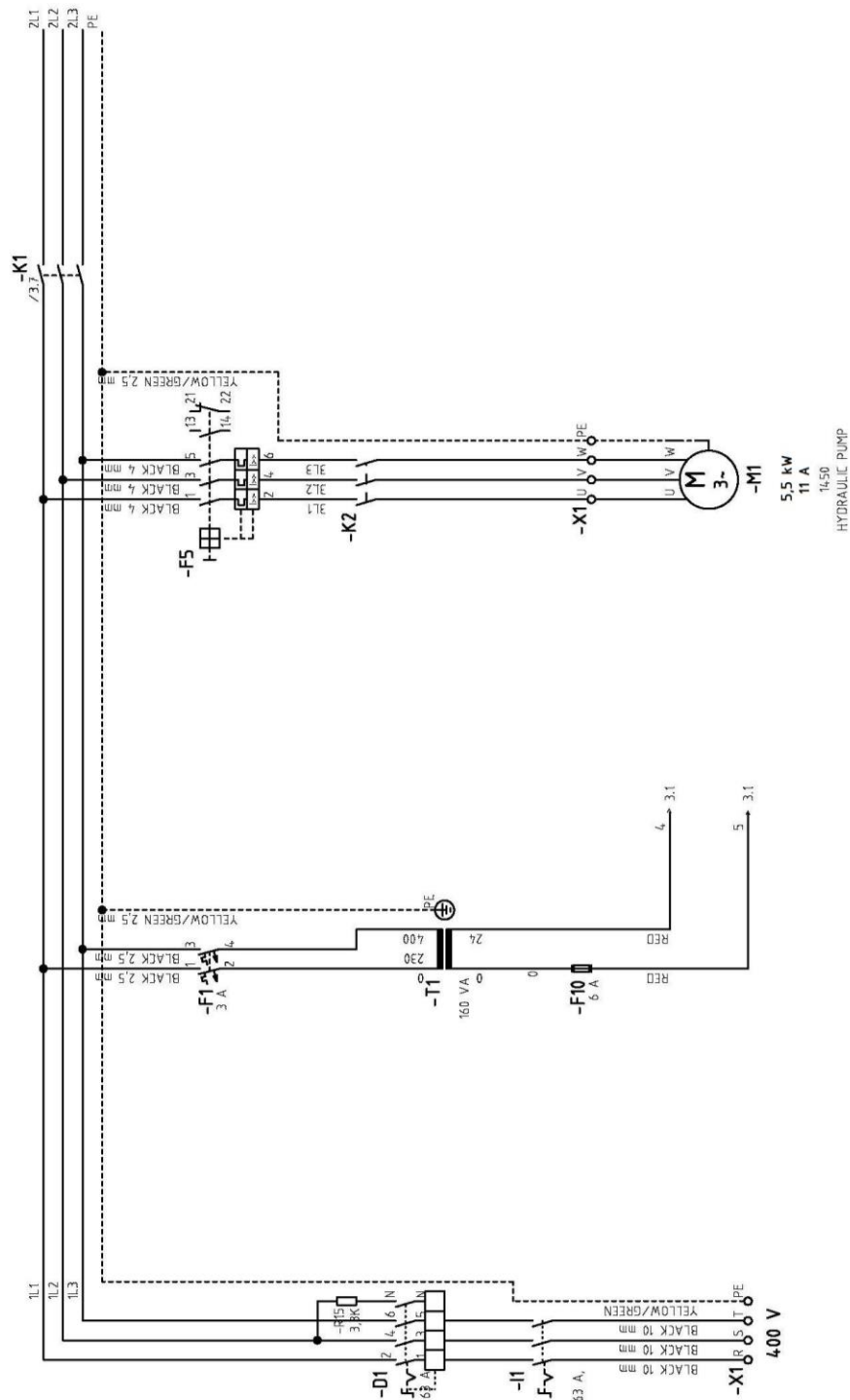


Figure 15. Elec. Schem. 3PE~400V 50/60Hz, "G PRO - 50H" (Sheet 1/7)

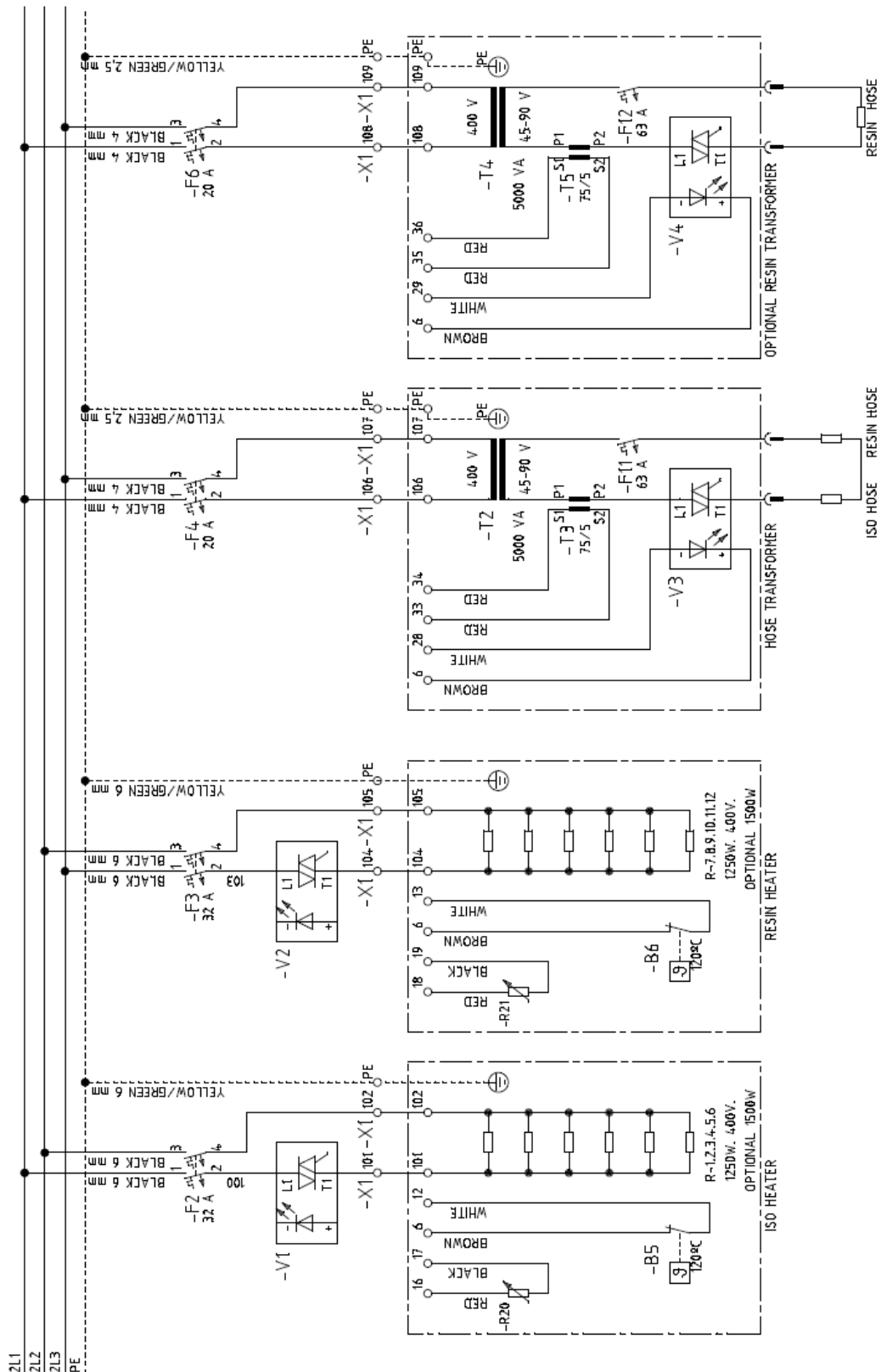


Figure 16. Elec. Schem. 3PE~400V 50/60Hz, "G PRO - 50H" (Sheet 2/7)

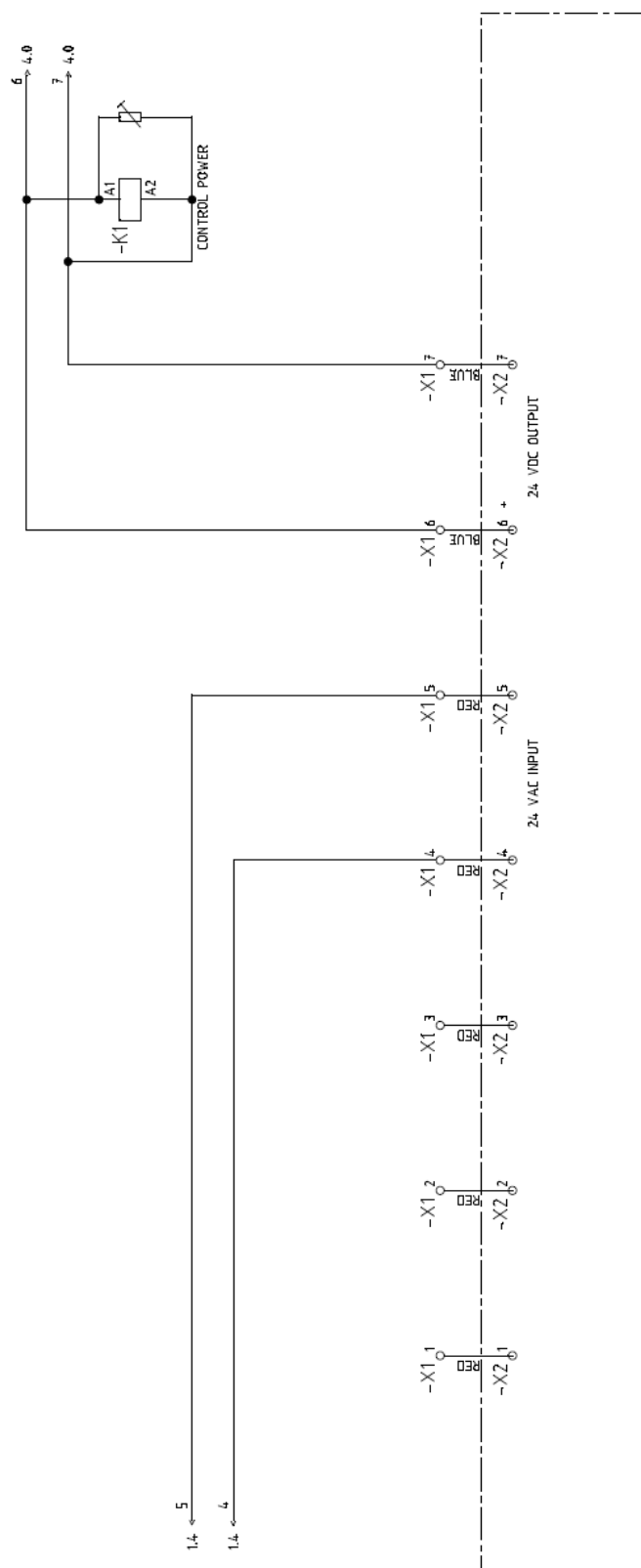


Figure 17. Elec. Schem. 3PE~400V 50/60Hz, "G PRO - 50H" (Sheet 3/7)

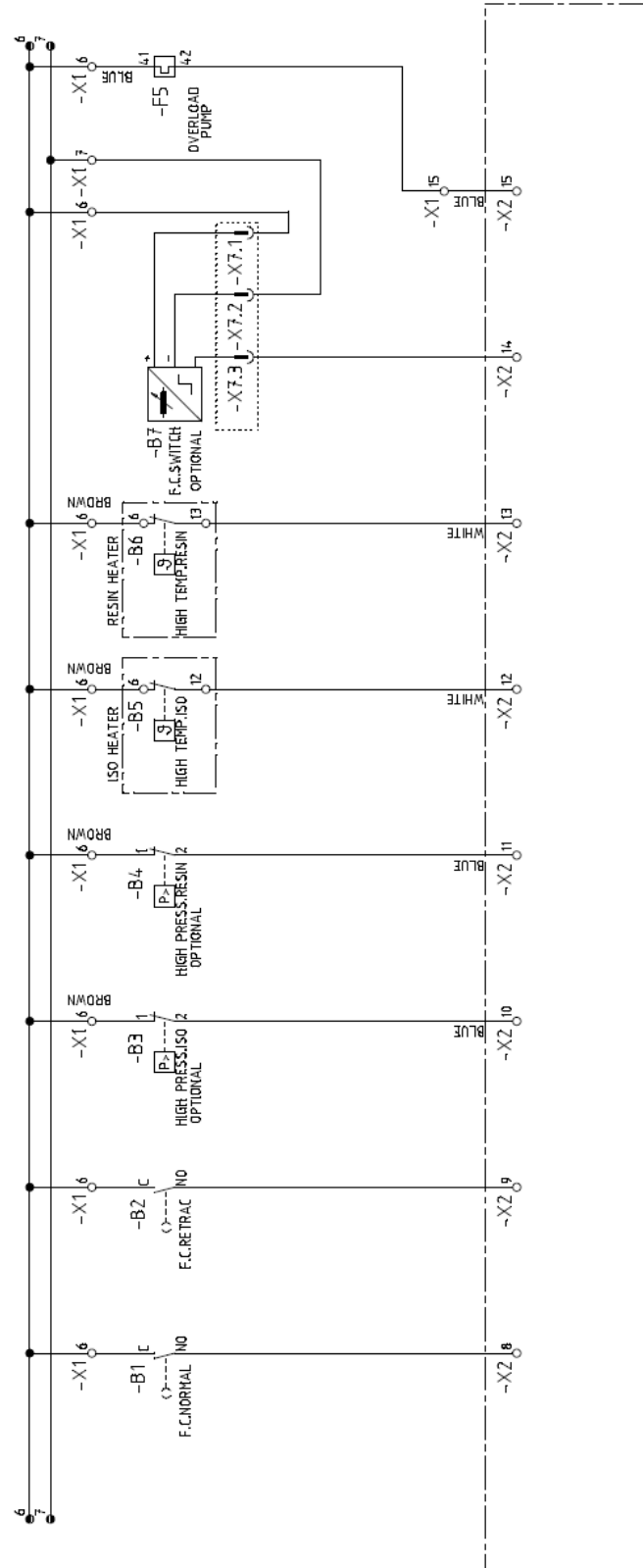


Figure 18. Elec. Schem. 3PE~400V 50/60Hz, "G PRO - 50H" (Sheet 4/7)

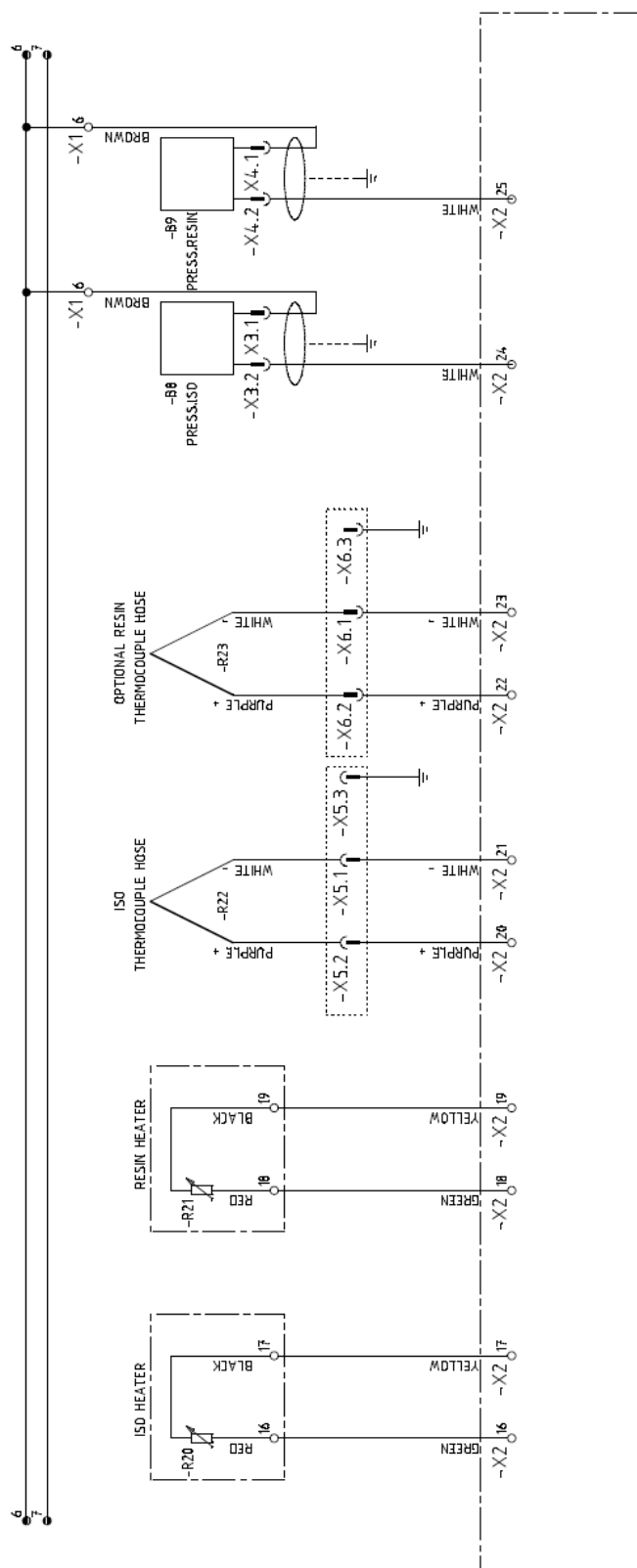


Figure 19. Elec. Schem. 3PE~400V 50/60Hz, "G PRO - 50H" (Sheet 5/7)

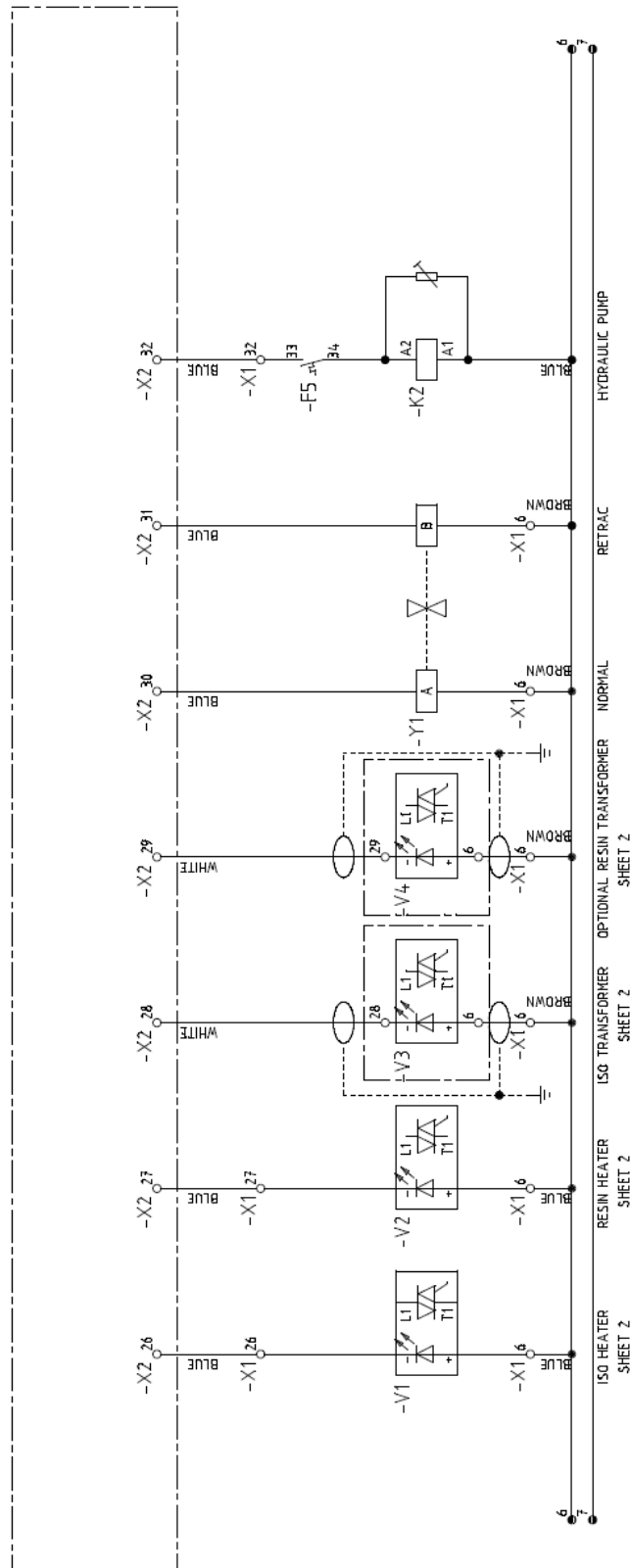


Figure 20. Elec. Schem. 3PE~400V 50/60Hz, "G PRO - 50H" (Sheet 6/7)

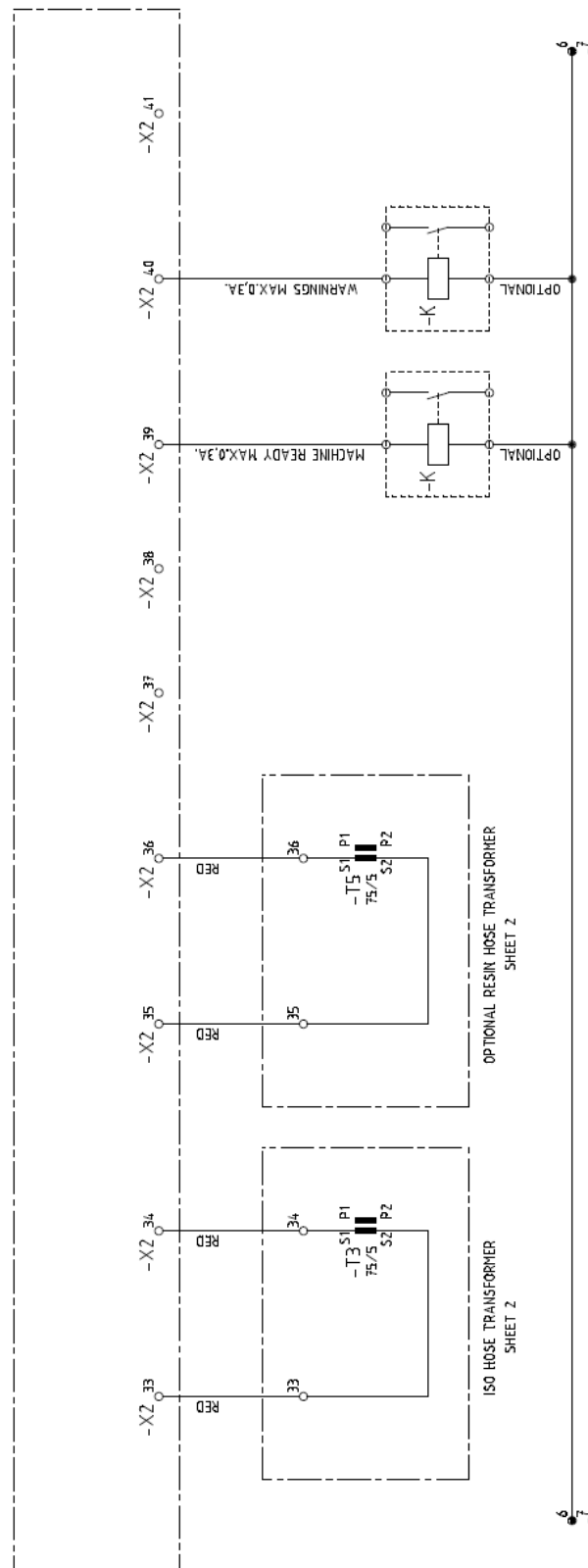


Figure 21. Elec. Schem. 3PE~400V 50/60Hz, "G PRO - 50H" (Sheet 7/7)



Table 28. Elec. Schem. 3PE~400V 50/60Hz "G PRO - 50H" Standard Version, Parts List

Item.	Description	Part Number	Qty.
F 10	Fusible point	EL-00104-13	1
F 10	Fuse	EL-00128-03	2
I 1	Switch	EL-00107-18	1
I 1	Switch Command	EL-00107-19	1
T 1	Transformer	EL-00127-02	1
D 1	Differential Switch	EL-00108-04	1
F 2,3	Circuit Breaker	EL-00115-03	2
F 4	Circuit Breaker	EL-00113-04	1
F 1	Circuit Breaker	EL-00109-04	1
F 5	Circuit Breaker	EL-00119-05	1
F 5	Auxiliary Contactor	EL-00119-03	1
T 3	Intensity Transformer	EL-00127-03	1
V 1,2	Static Relay	EL-00126-03	2
V 3	Triac	EL-00126-02	1
K 1	Contactor	EL-00123-02	1
K 2	Contactor	EL-00121-02	1
	Resistance	EL-00129-01	1
X 1	Terminal Strip	EL-00105-06	1



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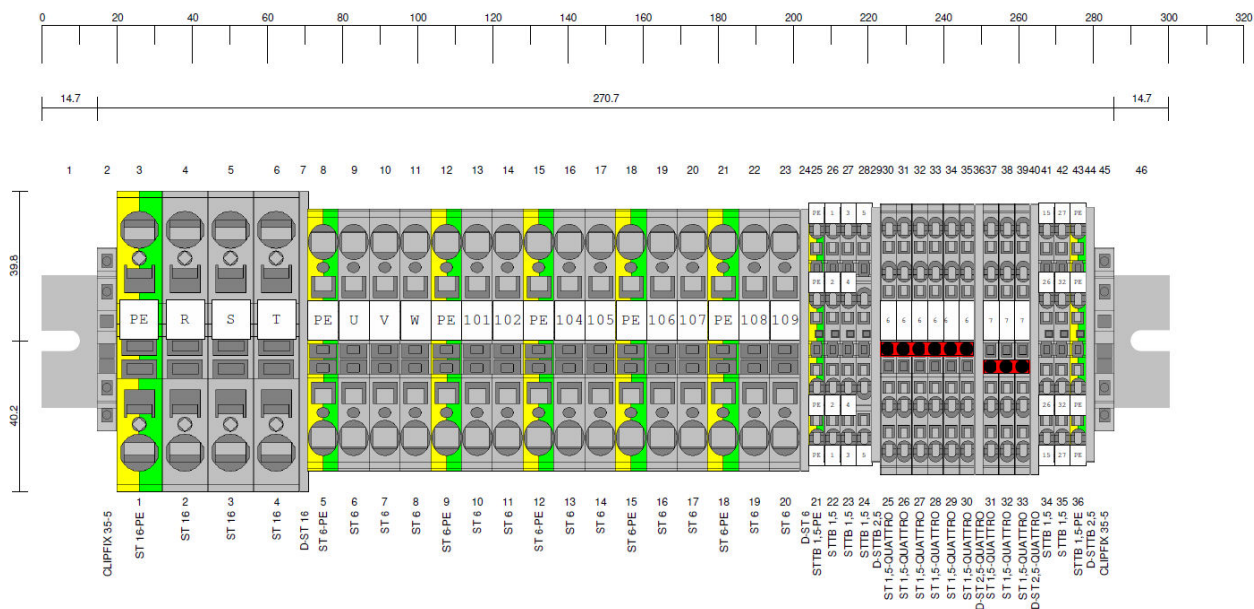


Figure 22. 3PE~400V 50/60Hz Terminal Block Distribution

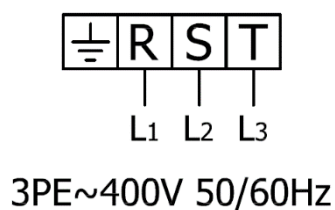


Figure 23. Connection 3PE~400V 50/60Hz, "G PRO - 50H"

<http://www.gamapur.com/>

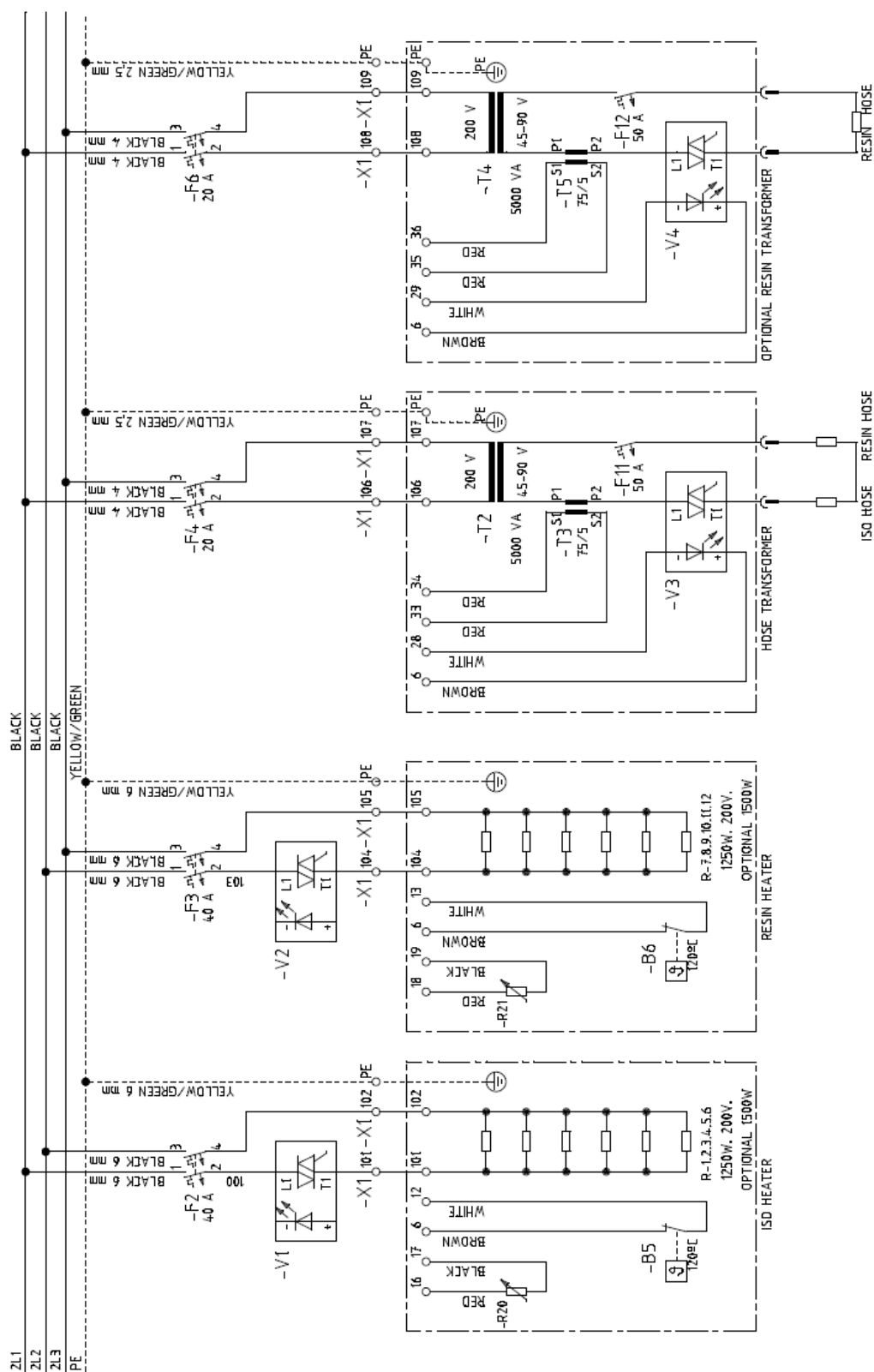


Figure 25. Elec. Schem. 3PE~200V 50Hz, "G PRO - 50H" (Sheet 2/7)

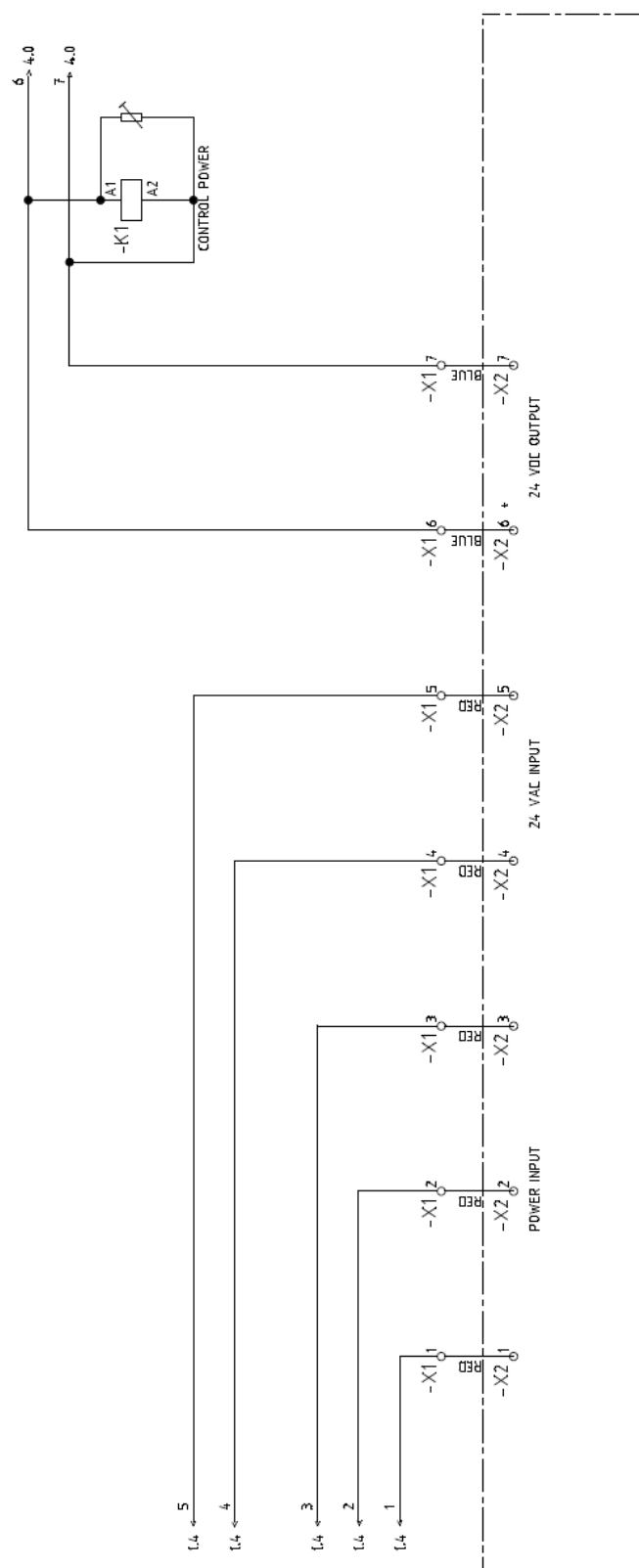


Figure 26. Elec. Schem. 3PE~200V 50Hz, "G PRO - 50H" (Sheet 3/7)

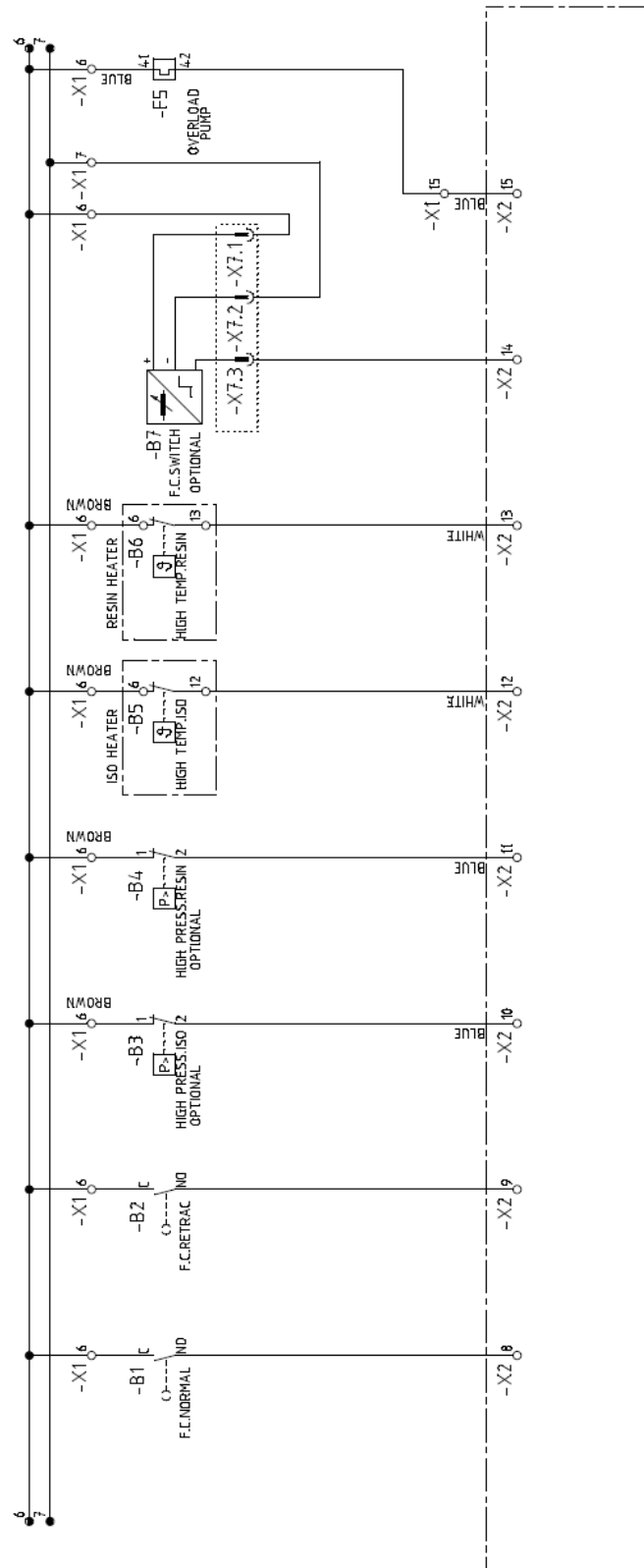


Figure 27. Elec. Schem. 3PE~200V 50Hz, "G PRO - 50H" (Sheet 4/7)

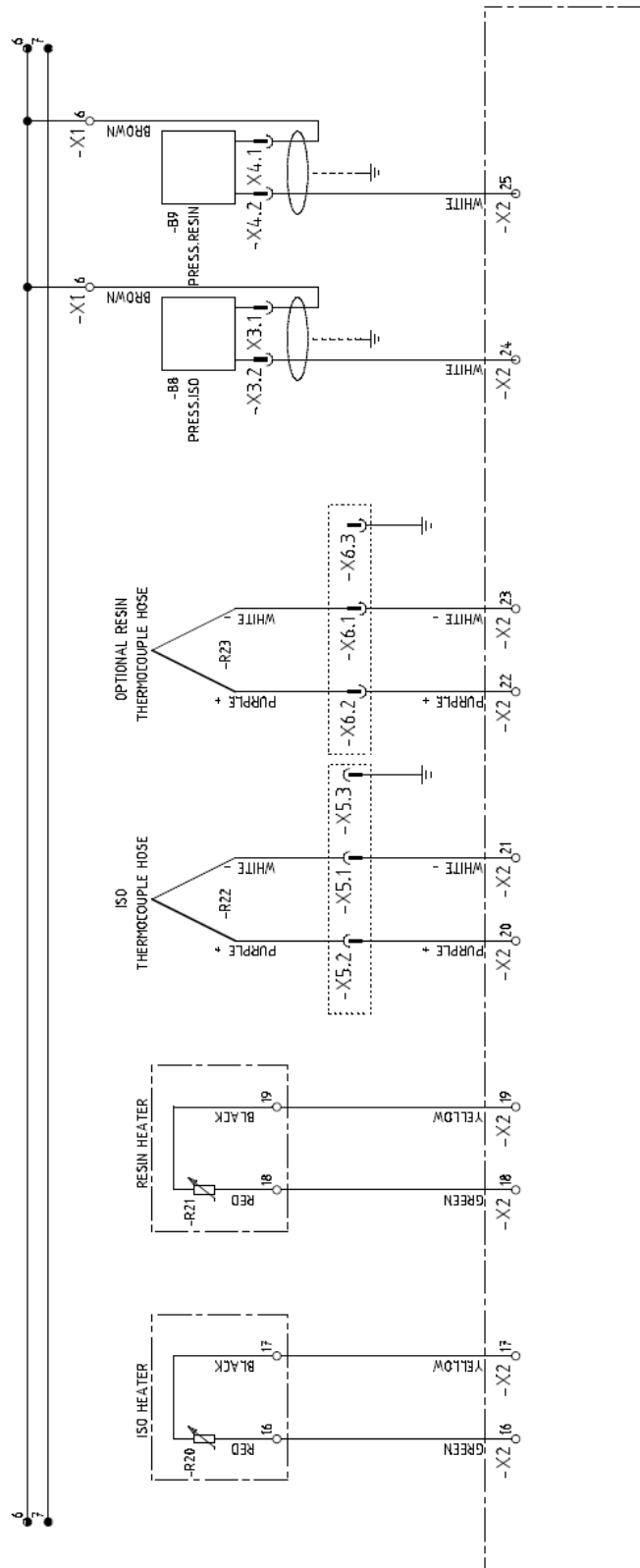


Figure 28. Elec. Schem. 3PE~200V 50Hz, "G PRO - 50H" (Sheet 5/7)

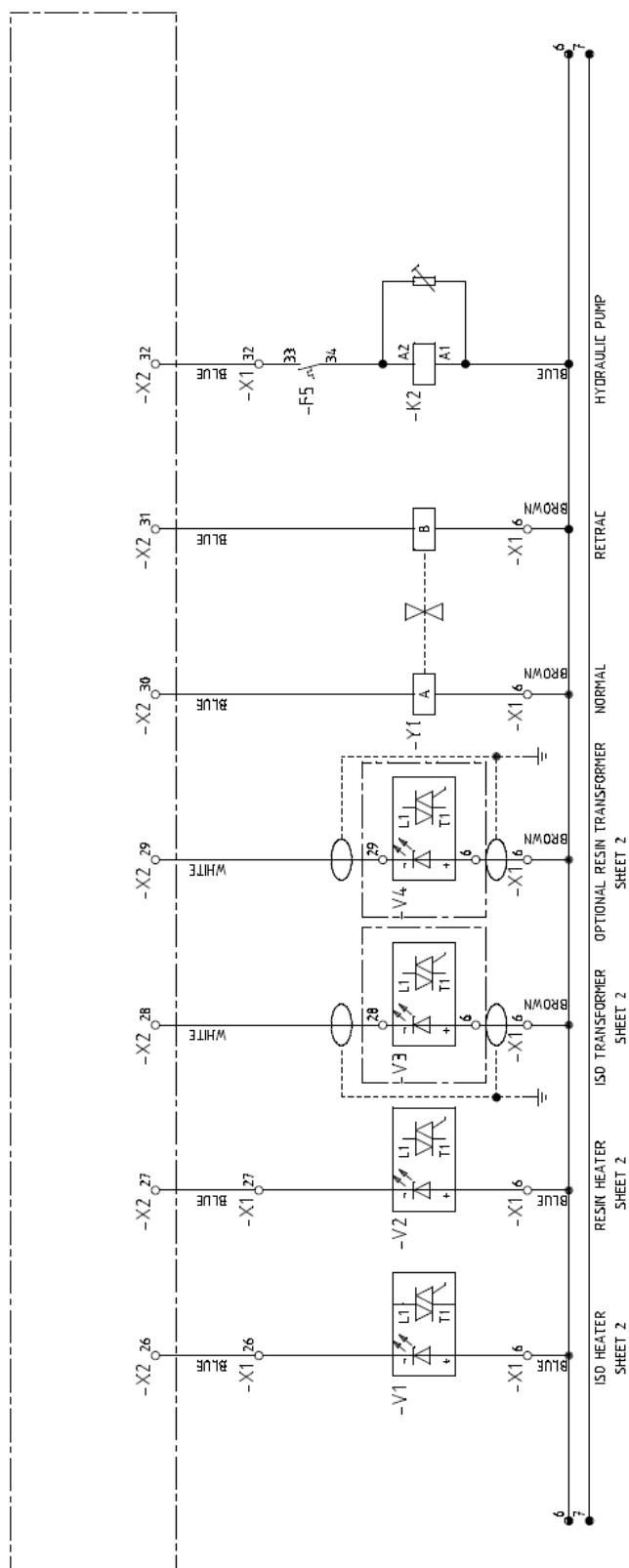


Figure 29. Elec. Schem. 3PE~200V 50Hz, "G PRO - 50H" (Sheet 6/7)

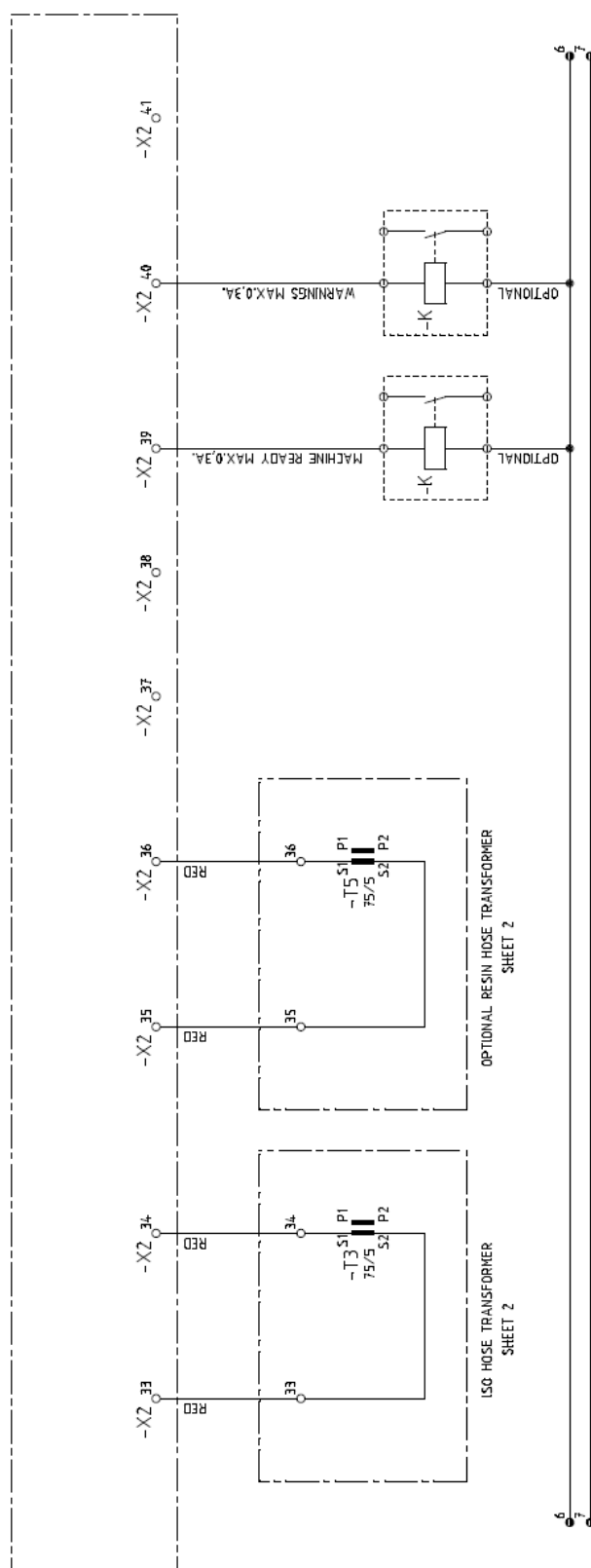


Figure 30. Elec. Schem. 3PE~200V 50Hz, "G PRO - 50H" (Sheet 7/7)



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Table 29. Elec. Schem. 3PE~200V 50Hz, Standard Version "G PRO - 50H", Parts List

Item.	Description	Part Number	Qty.
	BEIGE TERMINAL 35 mm	EL-00104-00	3
	GROUND TERMINAL 35 mm	EL-00104-02	1
	BEIGE TERMINAL 6 mm	EL-00104-06	9
	GROUND TERMINAL 6 mm	EL-00104-08	4
	TERMINAL BLOCK 2,5 mm	EL-00104-12	2
	BEIGE TERMINAL 2,5 mm	EL-00104-09	4
	GROUND TERMINAL 2,5 mm	EL-00104-11	2
	UNION PLATE	EL-00104-14	2
F 10	FUSIBLE POINT	EL-00104-13	1
F 10	GLASS FUSE	EL-00128-03	2
I 1	SWITCH 100A	EL-00107-23	1
I 1	YELLOW/RED COMMAND	EL-00107-19	1
D1	DIFERENTIAL SWITCH 80A 0.03	EL-00108-05	1
T 1	TRANSFORMER 200-400/24 160 VA	EL-00127-14	1
F 2,3	CIRCUIT BREAKER	EL-00116-04	2
F 4	CIRCUIT BREAKER	EL-00113-04	1
F 1	CIRCUIT BREAKER	EL-00109-04	1
F 5	CIRCUIT BREAKER 18-25 A	EL-00119-09	1
F 5	AUX. CONTACT	EL-00119-03	1
T 3	INTENSITY TRASNFORMER	EL-00127-03	1
V 1,2	STATIC RELAY	EL-00126-03	2
V 3	TRIAC	EL-00126-02	1
K 1	CONTACTOR 24 VDC	EL-00123-02	1
K 2	CONTACTOR 24 VDC	EL-00122-02	1
X 5	CONNECTOR		1
X 5	PINS		3
	INCLINATED SUPPORT FORR GUIDE	EL-00106-01	2
X 1	TERMINAL STRIP		1

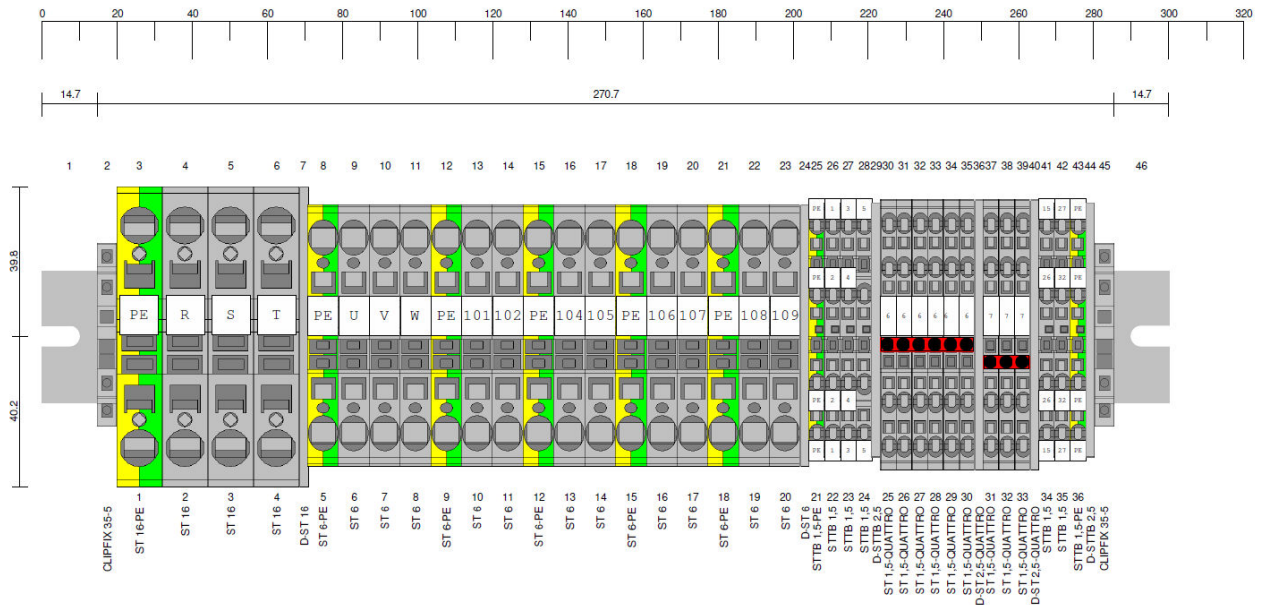


Figure 31. 3PE~200V 50Hz Terminal Block Distribution

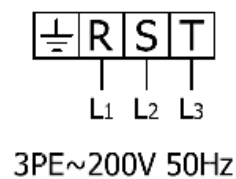


Figure 32. Connection 3PE~200V 50Hz, "G PRO - 50H"

PNEUMATIC SCHEMATIC DIAGRAM

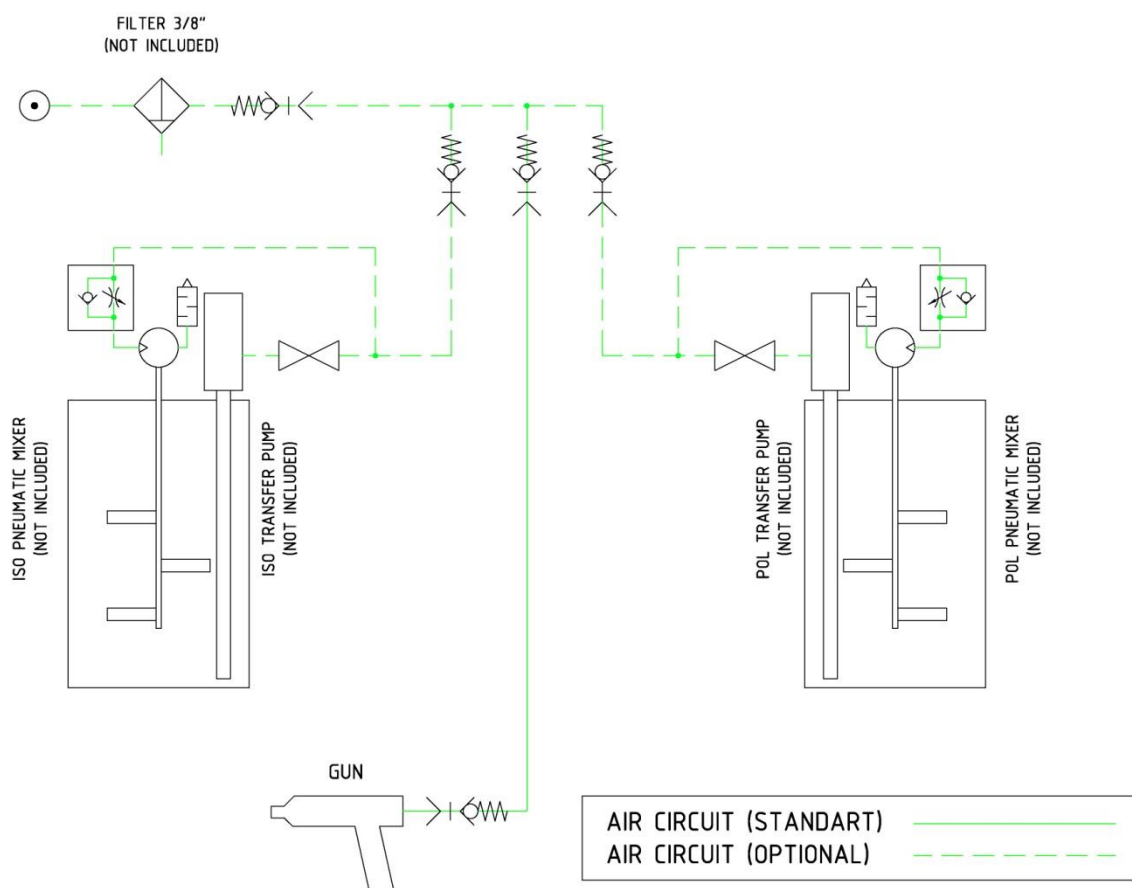
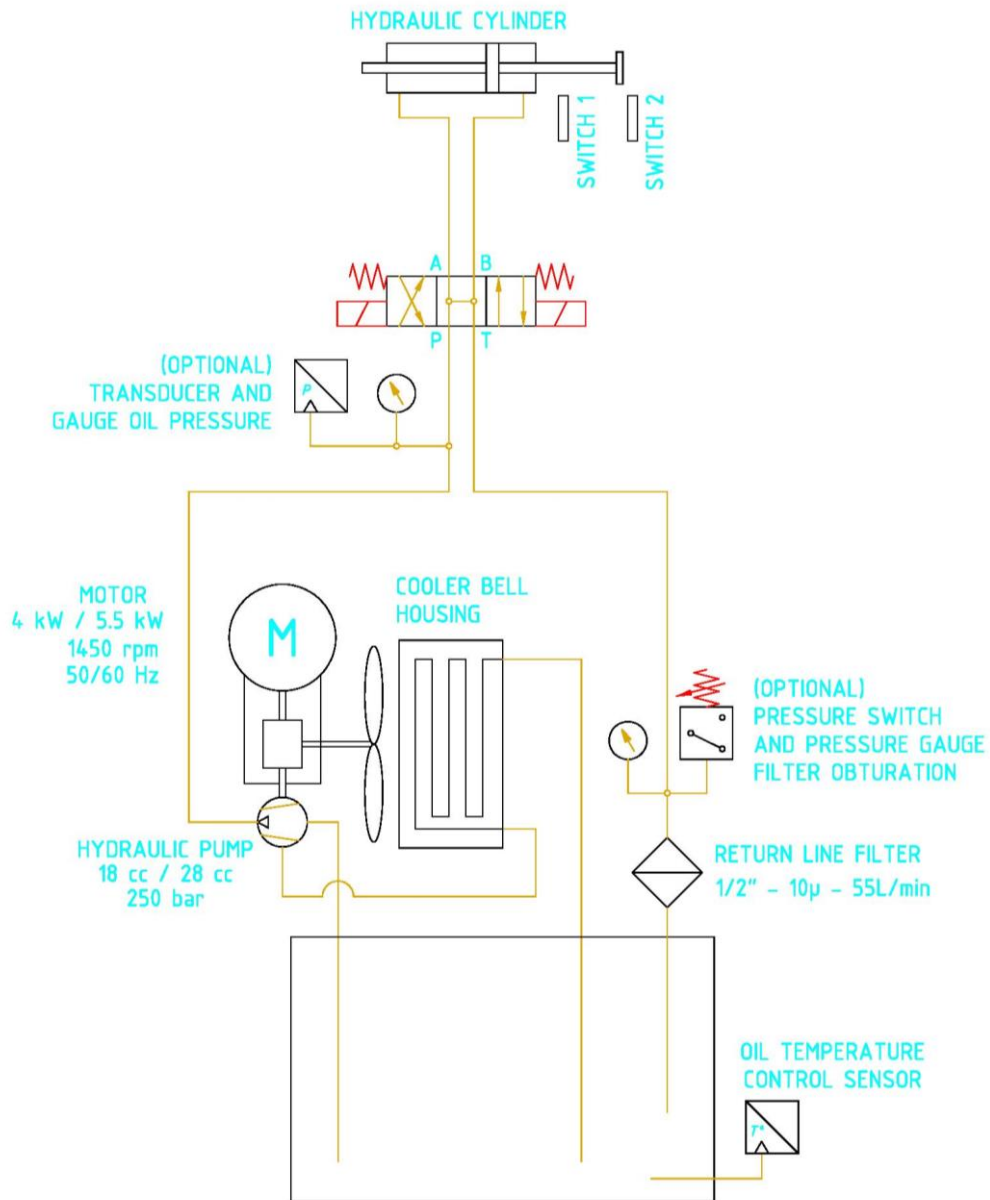


Figure 33. Pneumatic Schematic Diagram

HYDRAULIC SCHEMATIC DIAGRAM



	G PRO - 50H
Motor	5.5 kW
Hydraulic Pump	28 cc

Figure 34. Hydraulic Schematic Diagram

FUNCTIONING SCHEMATIC DIAGRAM

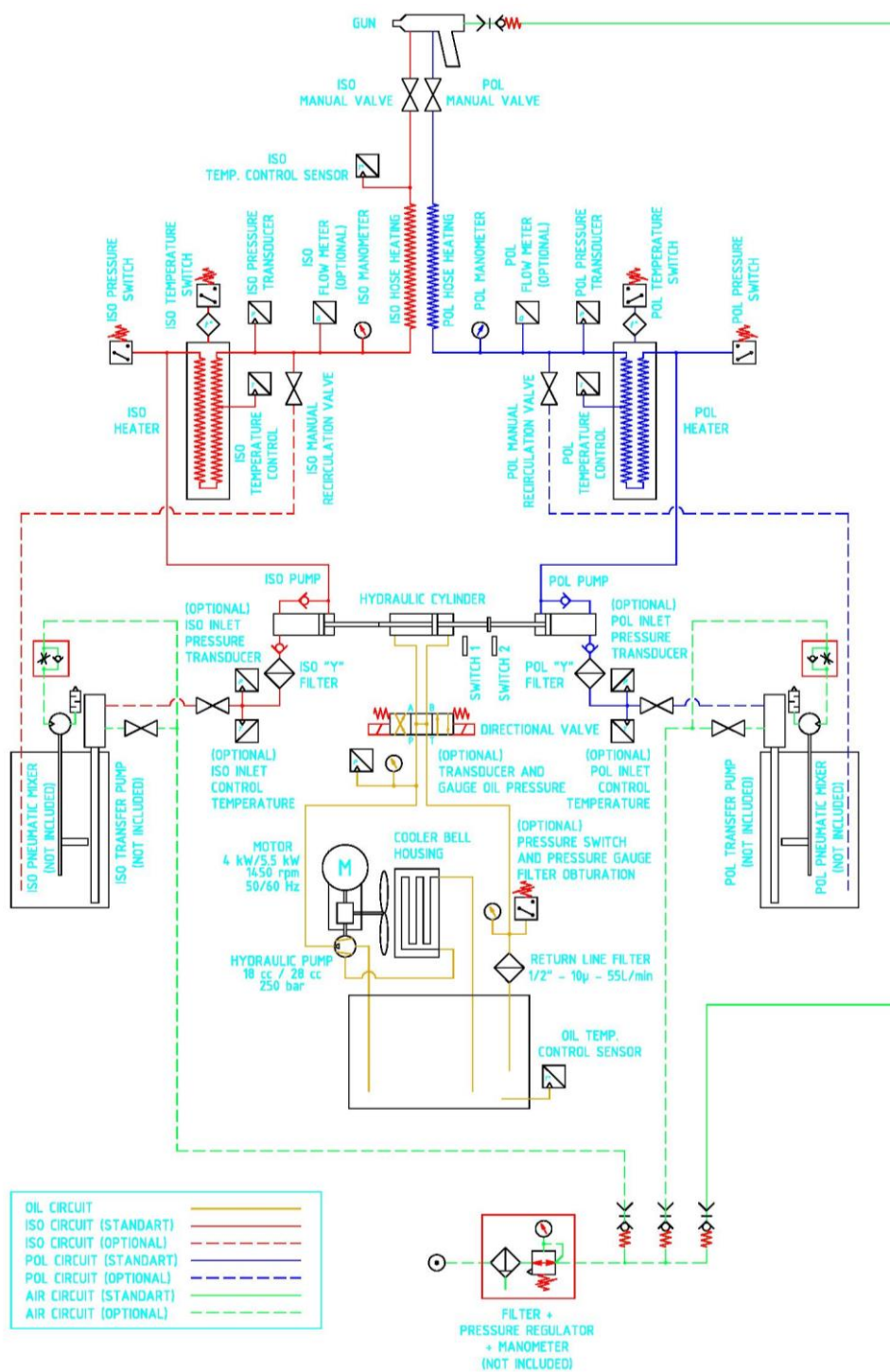


Figure 35. Functioning Schematic Diagram



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