



**....SERVING INDUSTRY WORLD-WIDE SINCE 1919**

**GENSCO EQUIPMENT (1990) INC.**

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TELEPHONE: (770) 808-8711 • FAX: (770) 808-8739

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## **SCRAP HANDLING AND RECYCLING EQUIPMENT**

### **MAGNETS**

#### **CIRCULAR**

SCRAP HANDLING MAGNETS for every scrap yard, foundry and mill application.

*CANMAG Magnets, Generators, Rectifiers, Controls and Switches, Magnet Cable, Cable Reels, Connectors, Chain Assemblies, Dynaset Hydraulic Generators.*

*Full manufacturing and rebuilding facilities.*

### **GRAPPLES**

#### **HYDRAULIC - ELECTRIC - MECHANICAL**

Orange peel grapples for scrap steel, non-ferrous, solid waste and garbage. Combination grapples *with* magnets.

### **SHEARS**

#### **ALLIGATOR AND GUILLOTINE STYLES MECHANICAL AND HYDRAULIC**

Steel - Non Ferrous - Rebar. Hand cutting tools and shear attachments.

### **BALERS AND CRUSHING EQUIPMENT**

BALING PRESSES in all sizes and types for paper, corrugated, plastics, non-ferrous and steel applications.

#### **BRIQUETTERS**

#### **CAR FLATTENING EQUIPMENT**

#### **DRUM CRUSHERS**

#### **ALUMINUM CAN DENSIFIERS**

### **CABLE PROCESSING**

#### **CABLE STRIPPING MACHINES**

#### **CHOPPERS AND GRANULATORS**

#### **CABLE AND WIRE ROPE CUTTING TOOLS**

### **SHREDDERS**

#### **INDUSTRIAL AND COMMERCIAL SHREDDERS**

#### **FOR ALL APPLICATIONS**

ROTARY SHREDDER for paper, wood, plastics, textiles, rubber etc.

## **REINFORCING STEEL**

## **FABRICATION EQUIPMENT**

TABLE BENDERS AND SHEARS in all sizes and capacities. STIRRUP BENDERS

SPIRAL AND HOOP BENDERS

MESH CUTTING AND BENDING EQUIPMENT

MANUAL CUTTING AND BENDING TOOLS

*NOVOPRESS POWER TOOLS*

REBAR CUTTING AND BENDING TOOLS

MESH CUTTERS, STRAND CUTTING TOOLS

WIRE ROPE AND CABLE CUTTING TOOLS

## **MATERIAL HANDLING AND SEPARATION**

GRAPPLES AND CLAMSHELL BUCKETS

HYDRAULIC - ELECTRIC - MECHANICAL

logs, solid waste, rail

rehandling and excavating clamshells

MAGNETIC LIFTING EQUIPMENT

Permanent and Battery Operated Models

Electric Lift Magnets

MAGNETIC SEPARATION EQUIPMENT

Overbelt magnetic separators

Permanent / Electric Manual / Self Cleaning

Pulleys, drums, plates

## **ELECTRICAL CONSTRUCTION**

BUS BAR FABRICATING SYSTEMS

Cut - Bend - Punch

CABLE CRIMPING TOOLS

CABLE & WIRE ROPE CUTTING TOOLS

SHEET METAL PUNCHING EQUIPMENT

for switchgear manufacturing and panel doors

### **PARTS - SERVICE**

Replacement parts for all your equipment.

Parts shipped daily across North America - from Toronto and Atlanta

### **USED EQUIPMENT**

The source for all your used equipment needs.

Users from around the world make us their first call.

WE BUY, SELL AND TRADE.

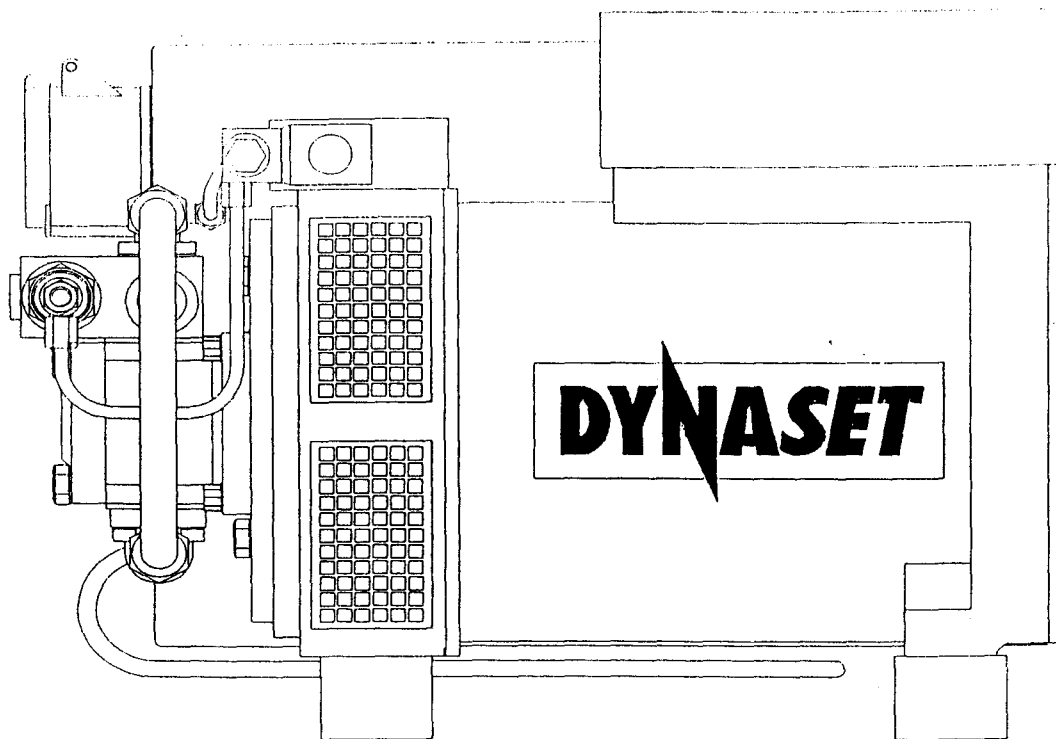
**CALL US WITH YOUR REQUIREMENTS.**

# **GENSCO**

SINCE 1919.... SUPPLIERS OF QUALITY PRODUCTS & SERVICE

**SALES • SERVICE • RENTALS**

**DYNASET**



MAGNET GENERATORS

6 - 25 KW MODELS

Since 1919

**GENSCO**

**GENSCO AMERICA, INC.**

5307 Dividend Dr., Decatur • Georgia 30035 • Tel: 770 808-8711 • Fax: 770 808 8739

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53 Carlaw Ave. Toronto • Canada M4M 2R6 • Tel: 416 465-7521 • Fax: 416 465-4489

## DYNASET MAGNET GENERATORS

Dynaset magnet generators are a complete electrical power supply for a lifting magnet.

All components have been installed in one small, easy to install package.

A speed controlled hydraulic motor drive is standard.

These and other features outlined below make DYNASET magnet generators, easy to install on all hydraulic machines.

### FEATURES

1. Speed controlled, high quality gear motor.
  - motor speed is kept constant by the built-in speed control valve.
  - electric solenoid (off/on) valve and pressure relief valve are standard features.
2. Alternator
  - An AC alternator of reliable construction, where the number of wearing parts has been minimised is utilised. Main power is taken from the stator winding.
  - Compound type voltage regulator keeps the voltage constant, not depending on the load.
  - as an option, a switch is available to produce AC current (220 Volts, 3 Ph.)
3. Control System
  - Automatic overload protection for the generator.
  - Control of the magnet from one push button on the control lever (or foot operated switch)
  - Voltage peaks are prevented by an effective diode controlled safety resistance, that also protects the magnet from short circuits (i.e. damaged connectors, cable etc.)
  - All controls operate on safe 24 volts DC (12 volt systems available)
  - Control electronics operate complete reverse magnetization function (magnet discharge system or "antimagnetism) automatically according to the properties of the magnet.
  - No arcing of contacts, resulting in long component life.

## 4. Mounting

DYNASET magnet generators can be mounted anywhere on the frame of the loader. The construction is rain and dust proof. Generator to IP23 protection, electric panel to IP44 protection level.

The operator starts the DYNASET by an electrical switch supplied. At the same time the control power (24 volts DC - or optional 12V) is switched on. The magnet is controlled by a single push button on the control lever, also supplied.

Pressing the push button at first brings current to the magnet. When the material should be dropped, the operator presses the button a second time and a reverse current is automatically switched on. This discharges the remaining magnetism in the magnet.

Hydraulic power is usually taken from a separate pump circuit that is not being used. Where this is not possible or on machines with variable displacement or load sensing pumps the generator can be connected to the main pump circuit using a solenoid operated flow divider or "priority valve" - supplied if required. The priority valve has adjustments for maximum pressure and flow exiting to the DYNASET.

Return "T" to tank preferable direct. **MAXIMUM 30 PSI BACK PRESSURE**

Note: On DYNASETS with a "series" port (up to and including 10 KW, a low power generator or compressor etc. could also be connected with this flow.

## 5. ELECTRICAL SEQUENCE and PC Card Adjustments.

K1, K2 and K3 are the three contactors that control the flow of electricity to and from the magnet. The "PC" card controls their sequencing and timing.

K2 - on the DC side closes, prior to any DC current flowing.

K1 - on the AC side shuts and supplies power to the rectifier section, and then DC power flows through K2 and to the magnet.

When the operator presses the push button to release the load, K1 first opens to break the AC circuit.

**Potentiometer 1 - ADJUSTABLE** - measures the current to determine when K2 should open. PC card waits for magnet current to drop to adjusted level and K2 will open. K2 should open when current is less than 5 amps. NOTE: If K2 is opened too early contactor life will be shortened. No arcing should occur when K2 opens.

K2 opens with the current going back to the resistor bank. K3 first closes immediately followed by K1 (AC side) forcing a **reverse** flow of voltage to the magnet.

**Potentiometer 2 - ADJUSTABLE** increases/decreases the amount of time this reverse current will flow. Preferred selection will depend on magnet amperage and material characteristics. The longer the reverse current is on the cleaner the drop, but the longer the cycle time. Adjust if necessary. Factory settings should be acceptable for most applications.

After the pre set time is reached K1 opens, breaking the AC and then K3 opens again.

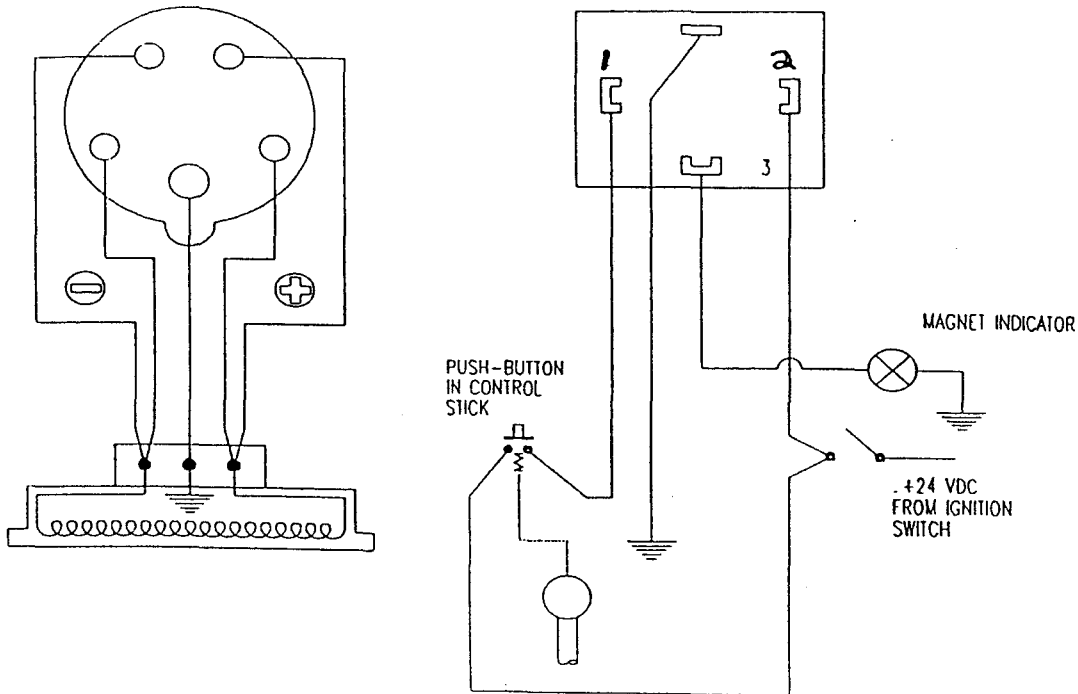
System is ready for another cycle.

# DIAGRAM OF CONNECTION BASIC SYSTEM WITH NO PRIORITY VALVE

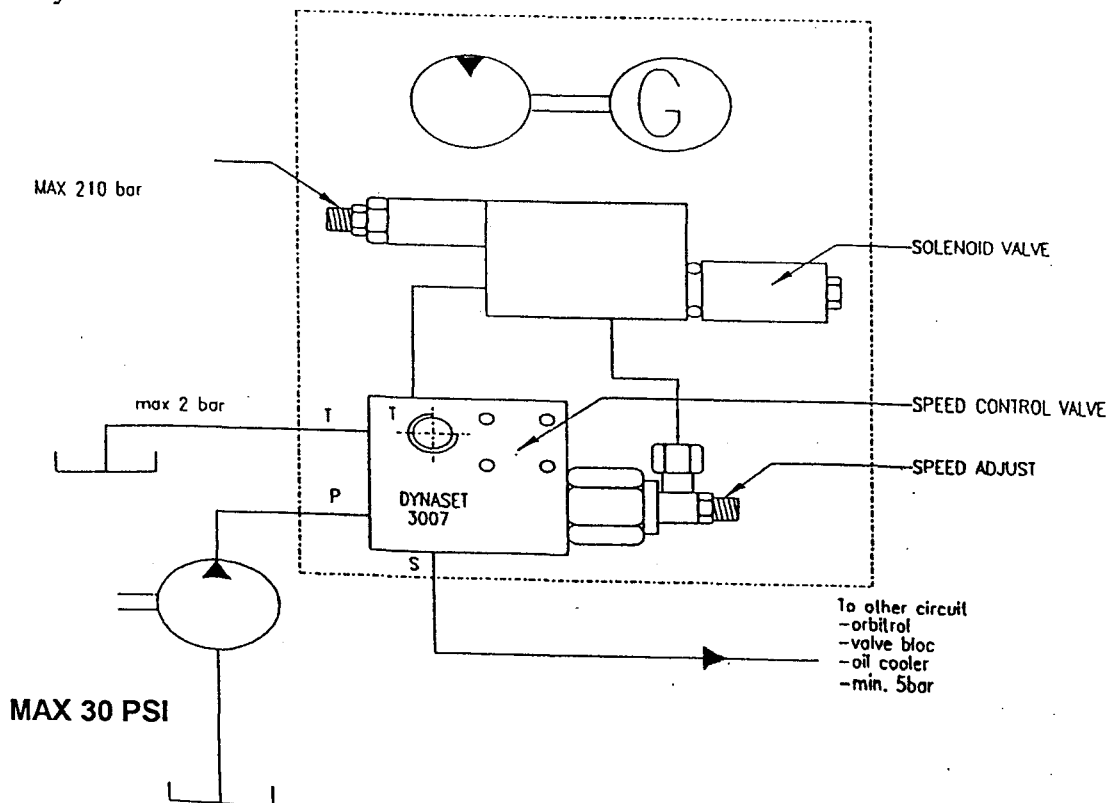
Electric:

CONNECT OF MAGNET 220 VDC

CONNECT OF CONTROL 24 VDC

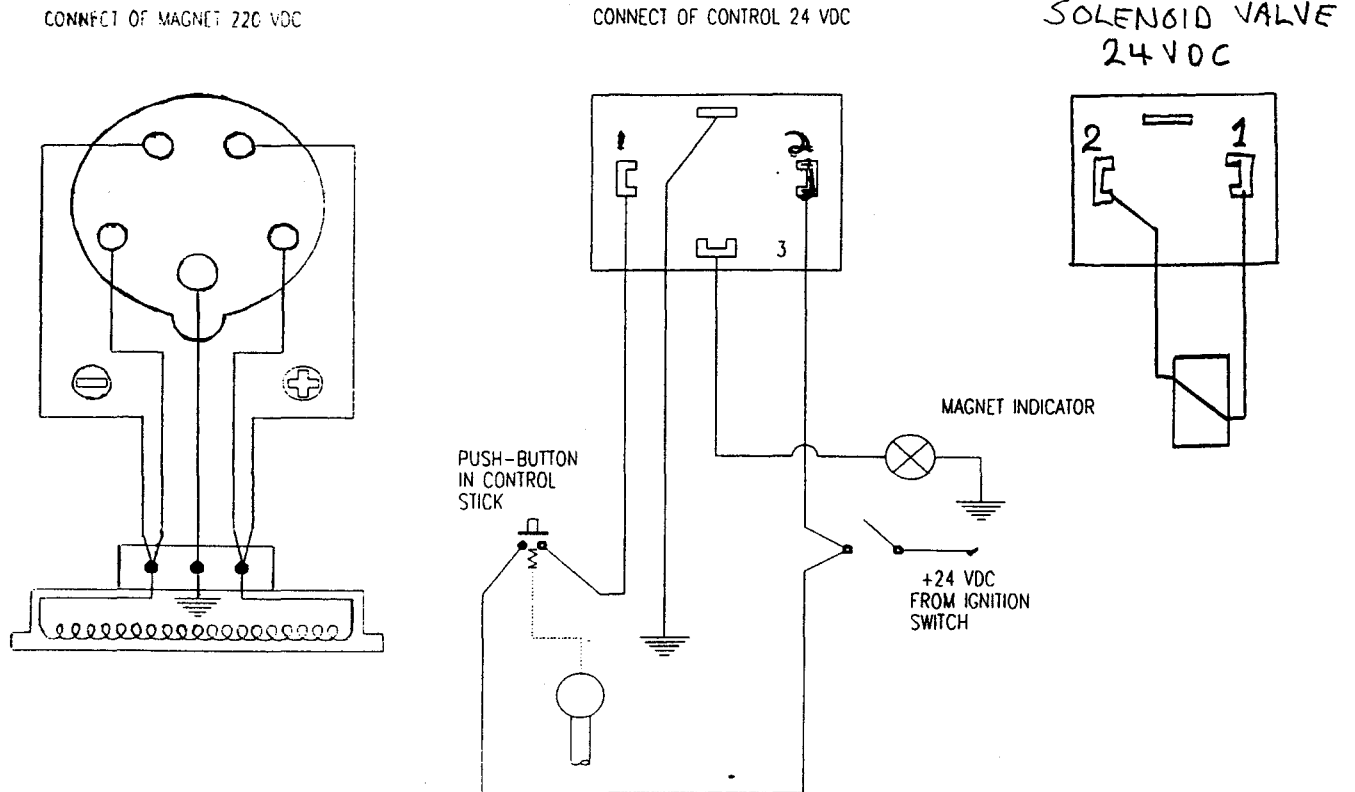


Hydraulics:

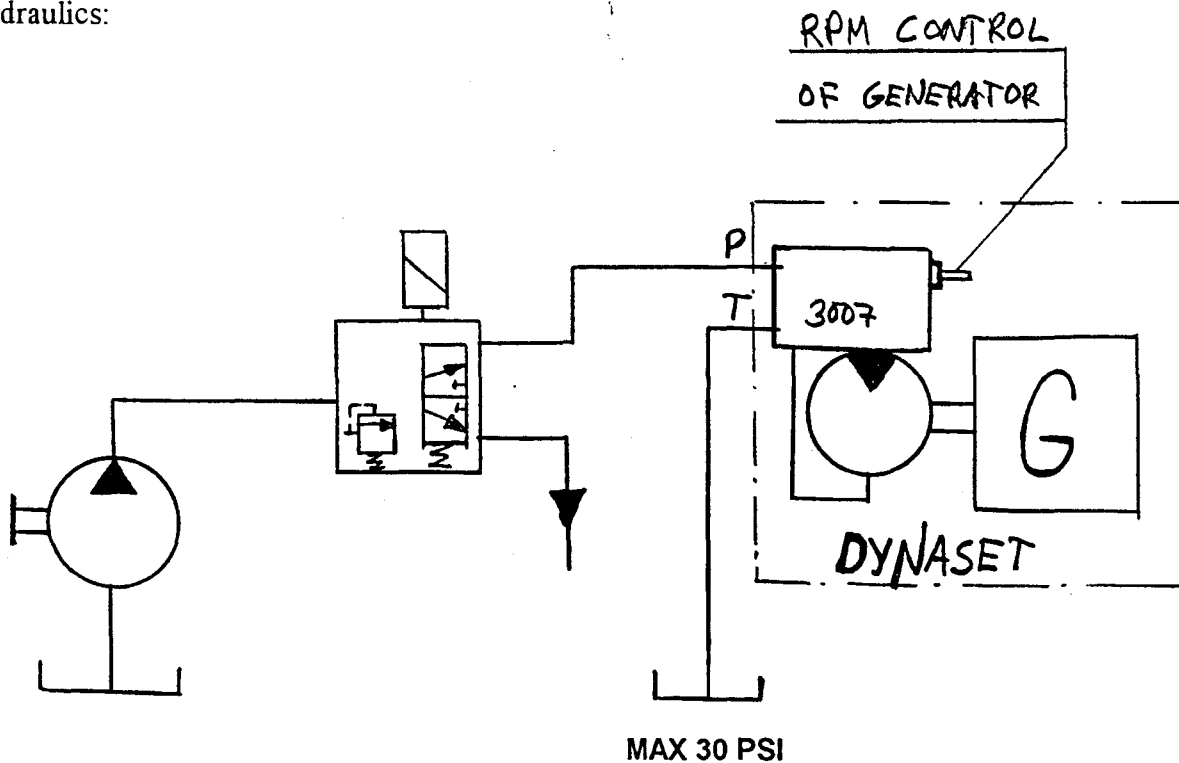


# DIAGRAM OF CONNECTION BASIC SYSTEM WITH PRIORITY VALVE

Electric:



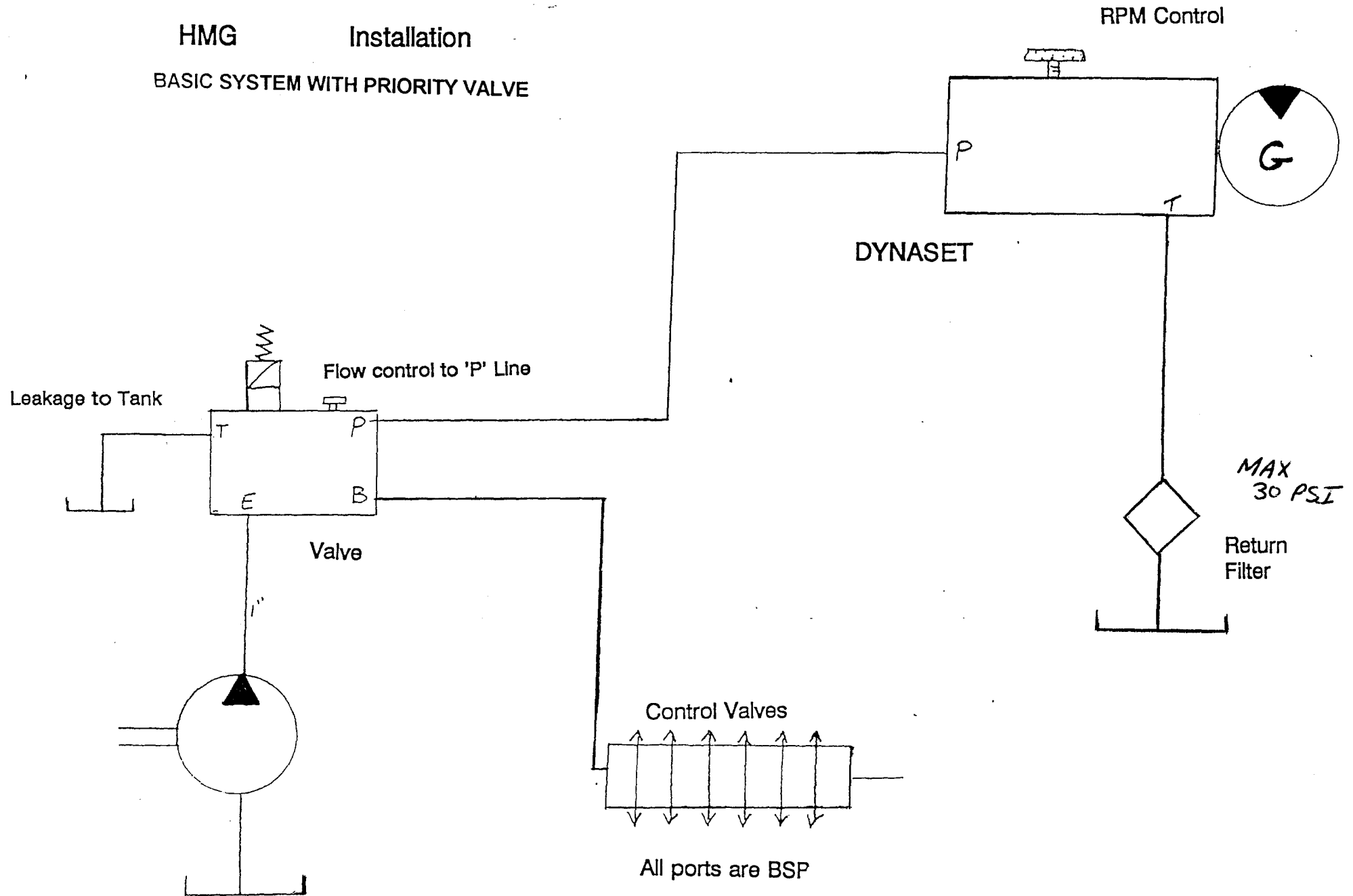
Hydraulics:





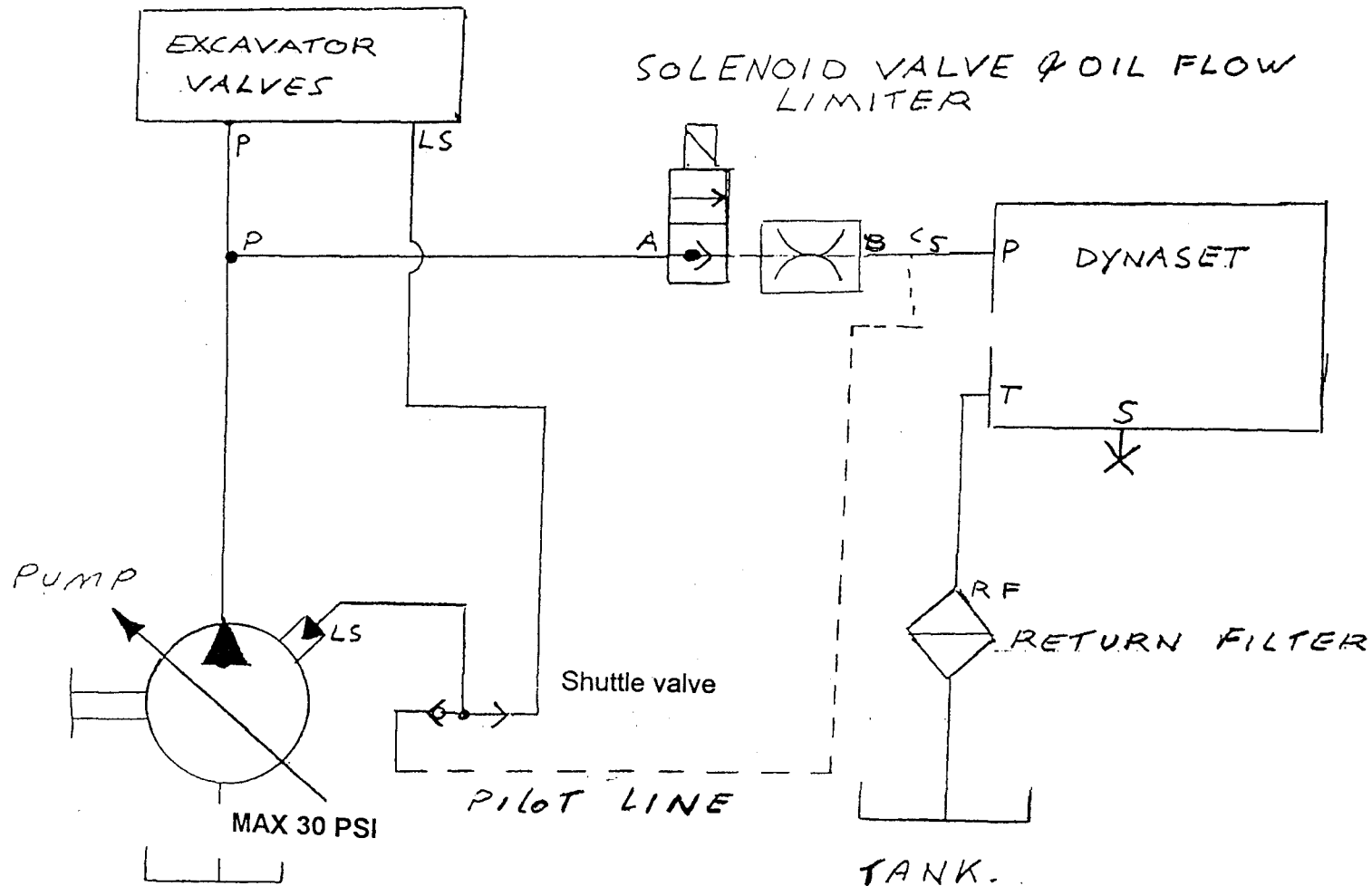
# HMG Installation

## BASIC SYSTEM WITH PRIORITY VALVE



**GENERAL SCHEMATIC FOR INSTALLATION  
ON MACHINE WITH LOAD SENSING SYSTEM**

A priority valve can be installed if required.





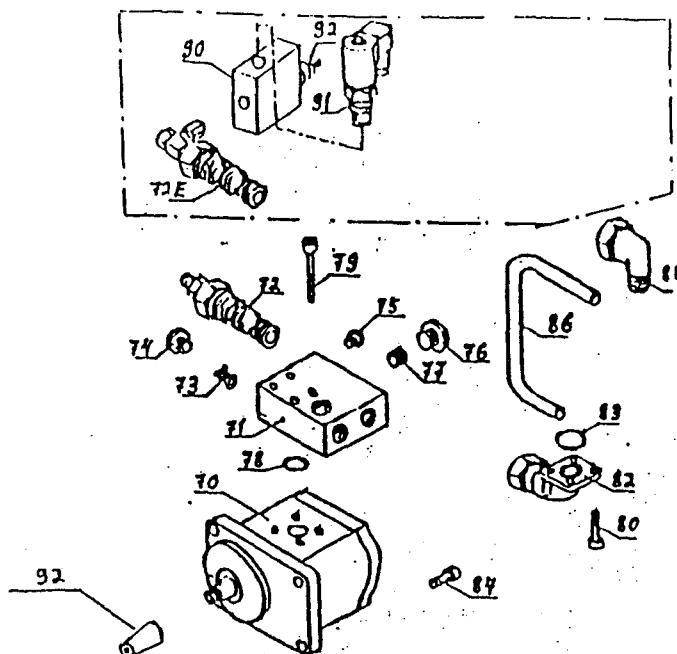
## INSTRUCTIONS TO CHANGE SEAL

- 1) Remove item 86
- 2) Remove item 82
- 3) Remove back fan cover
- 4) Remove 4 - 8 mm allen screws
- 5) Hold pump to generator fan housing
- 6) Lock pump by inserting a large flat blade screw driver between gears
- 7) Unscrew item 92 from pump shaft using a wrench on coupling cone flats
- 8) Remove shaft seal using a small pick or screw driver
- 9) Install new seal and retaining plate and snap ring
- 10) Assembly is reverse to disassembly

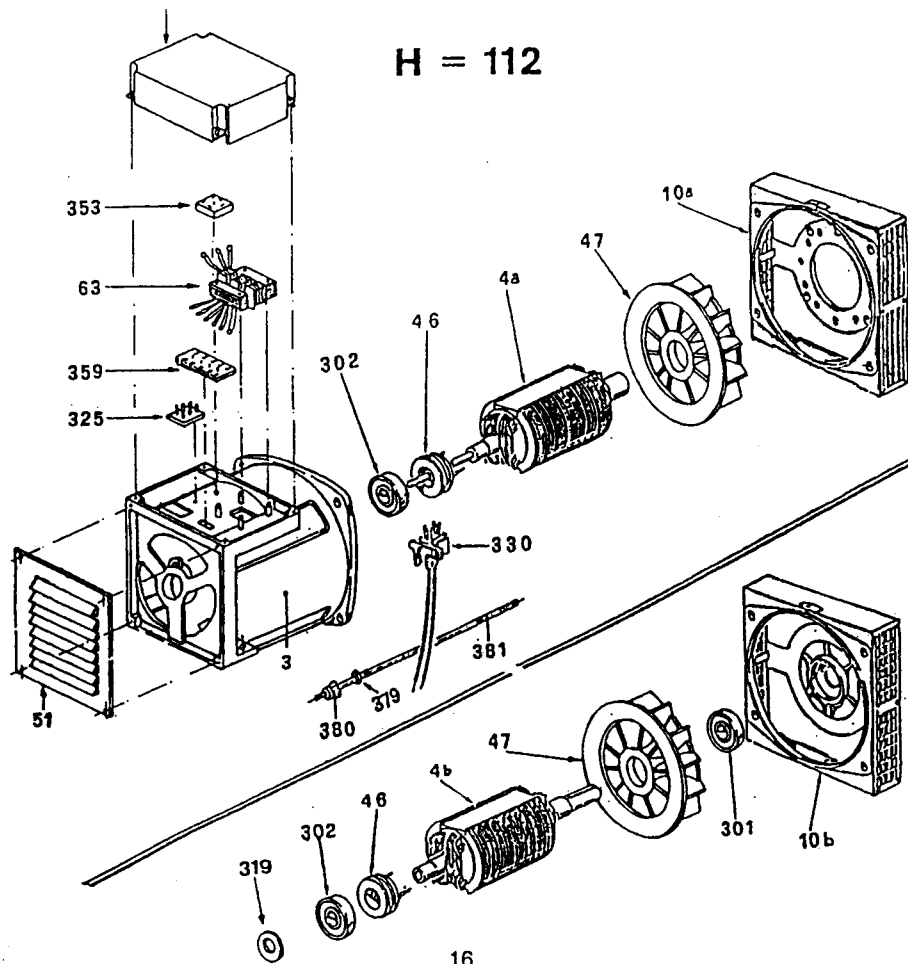




## HYDRAULIC SPARE PARTS



- |     |                 |
|-----|-----------------|
| 70  | Hydraulic motor |
| 70a | Seal kit        |
| 70b | Axle seal       |
| 70c | Valve block     |
| 71  | Catridgevalve   |
| 71e | Catridgevalve   |
| 73  | Valve           |
| 74  | Plug            |
| 75  | Plug            |
| 76  | Plug            |
| 77  | Plug            |
| 78  | O-ring          |
| 79  | Screw           |
| 82  | Flangejoint     |
| 83  | O-ring          |
| 84  | Screw           |
| 86  | Pipe            |
| 88  | Joint           |
| 90  | Valve block     |
| 91  | Catridgevalve   |
| 92  | Coupling cone   |



H = 112

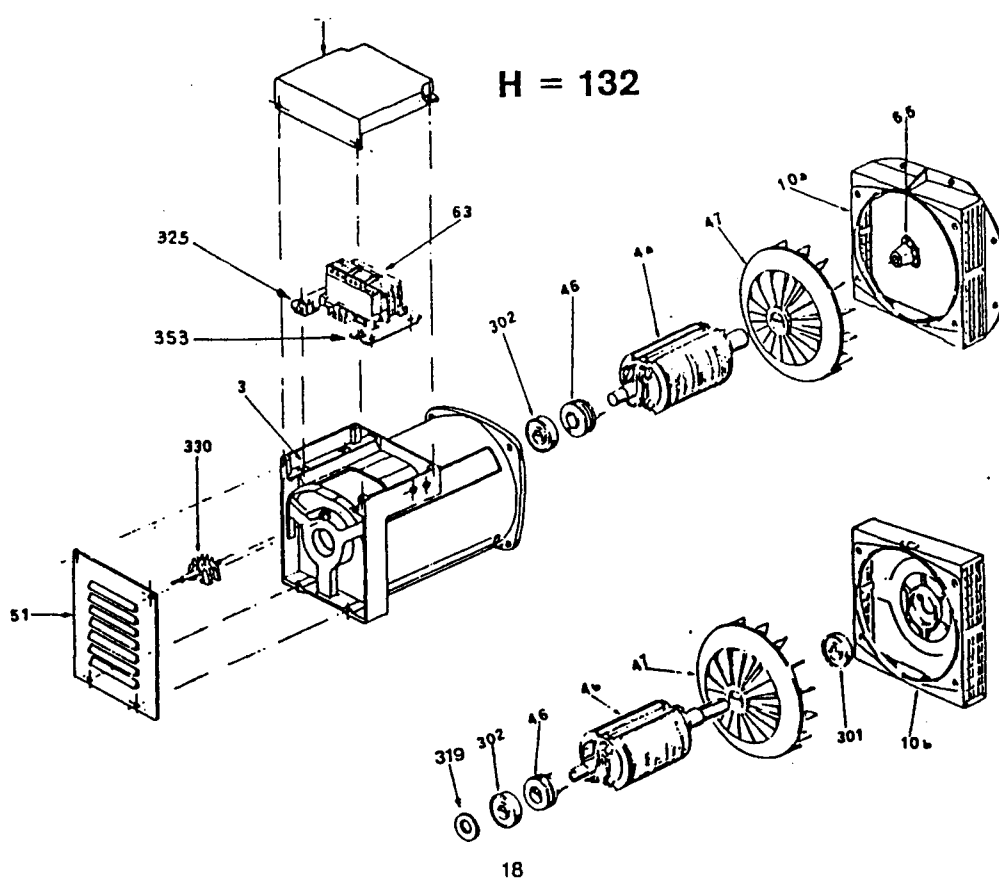
16

DESIGNAZIONE PARTI DI RICAMBIO  
DESIGNATION OF THE SPARE-PARTS  
DÉSIGNATION DES PIÈCES DE RECHANGE

H = 112

6.5/10 KW Models

N.	DESCRIZIONE	DESCRIPTION	DESCRIPTION
3	CASSA CON STATORE	FRAME WITH STATOR	CARCASSE AVEC STATOR
4	a ROTORE B9	B9 ROTOR	ROUE POLAIRE B9
	b ROTORE B14	B14 ROTOR	ROUE POLAIRE B14
10	a SCUDO L.A. B9	B9 D.E. SHIELD	FLASQUE CÔTÉ PRISE B9
	b SCUDO L.A. B14	B14 D.E. SHIELD	FLASQUE CÔTÉ PRISE B14
46	COLLETTORE AD ANELLI	SLIP RING	COLLECTEUR
47	VENTOLA	FAN	VENTILATEUR
51	PROTEZIONE LATO OPP. ACCOPP.	O.D.E. PROTECTION	PROTECTION CÔTÉ OPPOSÉ PRISE
54	COPERCHIO SCATOLA MORSETTI	TERMINAL BOARD COVER	COUVERCLE DE LA BOÎTE À BORNES
63	a COMPOUND TRIFASE	THREE-PHASE COMPOUND	TRASF. DE COMPOUNDAGE TRIPHASÉ
	b COMPOUND MONOFASE	SINGLE-PHASE COMPOUND	TRASF. DE COMPOUNDAGE MONOPHASÉ
301	CUSCINETTO LATO ACCOPP.	D.E. BEARING	ROULEMENT CÔTÉ PRISE
302	CUSCINETTO LATO OPP. ACCOPP.	O.D.E. BEARING	ROULEMENT CÔTÉ OPPOSÉ PRISE
319	RONDELLA DI SPESSORAMENTO	SPACE WASHER	RONDELLE D'ÉPAISSEUR
325	MORSETTIERA PRINCIPALE	MAIN TERMINAL BOARD	BOÎTE À BORNES PRINCIPALE
330	PORTASPAZZOLE CON SPAZZOLE	BRUSH HOLDER WITH BRUSHES	PORTE-BALAIS AVEC BALAIS
353	PONTE A DIODI	RECTIFIER BRIDGE	PONT DE DIODES
359	MORSETTIERA DEL COMPOUND	COMPOUND TERMINAL BOARD	BOÎTE À BORNES DU COMPOUND
379	RONDELLA	WASHER	RONDELLE
380	DADO AUTOBLOCC. PER TIRANTE	SELF-LOCKING NUT FOR TIE-ROD	ÉCROU AUTOBLOQ. POUR LA TIGE
381	TIRANTE	TIE-ROD	TIGE CENTRALE



DESIGNAZIONE PARTI DI RICAMBIO  
DESIGNATION OF THE SPARE-PARTS  
DÉSIGNATION DES PIÈCES DE RECHANGE

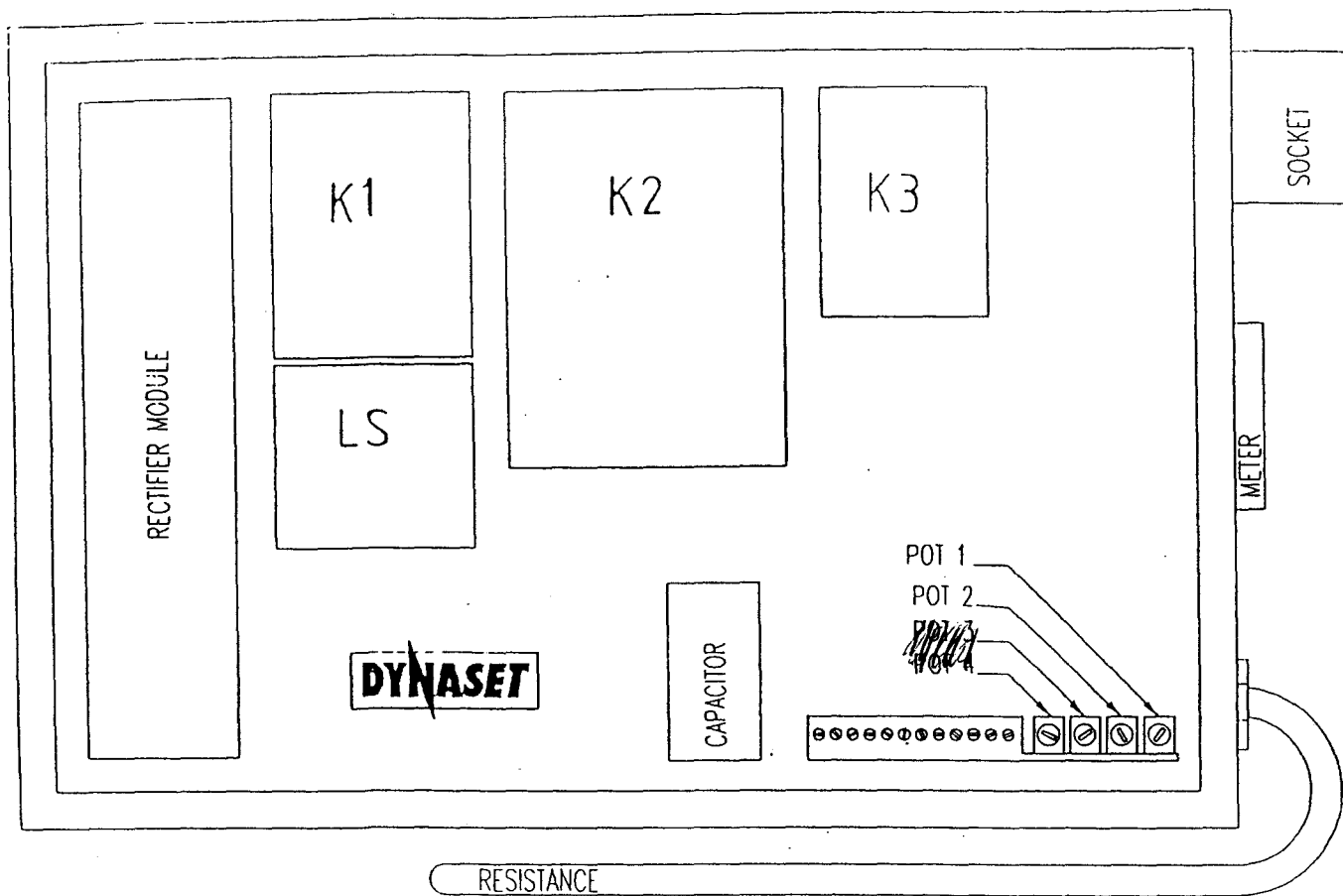
H = 132

12/15/20 KW Models

N.	DESCRIZIONE	DESCRIPTION	DESCRIPTION
3	CASSA CON STATORE	FRAME WITH STATOR	CARCASSE AVEC STATOR
4	a ROTORE B2	B2 ROTOR	ROUE POLAIRE B2
	b ROTORE B14	B14 ROTOR	ROUE POLAIRE B14
10	a SCUDO L.A. B2	B2 D.E. SHIELD	FLASQUE CÔTÉ PRISE B2
	b SCUDO L.A. B14	B14 D.E. SHIELD	FLASQUE CÔTÉ PRISE B14
46	COLLETTORE AD ANELLI	SLIP RING	COLLECTEUR
47	VENTOLA	FAN	VENTILATEUR
51	PROTEZIONE LATO OPP. ACCOPP.	O.D.E. PROTECTION	PROTECTION CÔTÉ OPPOSÉ PRISE
54	COPERCHIO SCATOLA MORSETTI	TERMINAL BOARD COVER	COUVERCLE DE LA BOÎTE À BORNES
63	COMPOUND TRIFASE	THREE-PHASE COMPOUND	TRASF. DE COMPOUNDAGE TRIPHASÉ
301	CUSCINETTO LATO ACCOPP.	D.E. BEARING	ROULEMENT CÔTÉ PRISE
302	CUSCINETTO LATO OPP. ACCOPP.	O.D.E. BEARING	ROULEMENT CÔTÉ OPPOSÉ PRISE
319	RONDELLA DI SPESSORAMENTO	SPACE WASHER	RONDELLE D'ÉPAISSEUR
325	MORSETTIERA PRINCIPALE	MAIN TERMINAL BOARD	BOÎTE À BORNES PRINCIPALE
330	PORTASPAZZOLE CON SPAZZOLE	BRUSH HOLDER WITH BRUSHES	PORTE-BALAIS AVEC BALAIS
353	PONTE A DIODI	RECTIFIER BRIDGE	PONT DE DIODES

NOTE: On 20 KW models brushes are replaced  
by field generator.

# SPARE PARTS



## Rectifier module

diode set  
cooling profile  
insulating plate

Contactor K1  
Contactor K2  
Contactor K3  
Overload protection LS  
Capacitor  
Driver card PC  
Resistance  
Meter  
Socket