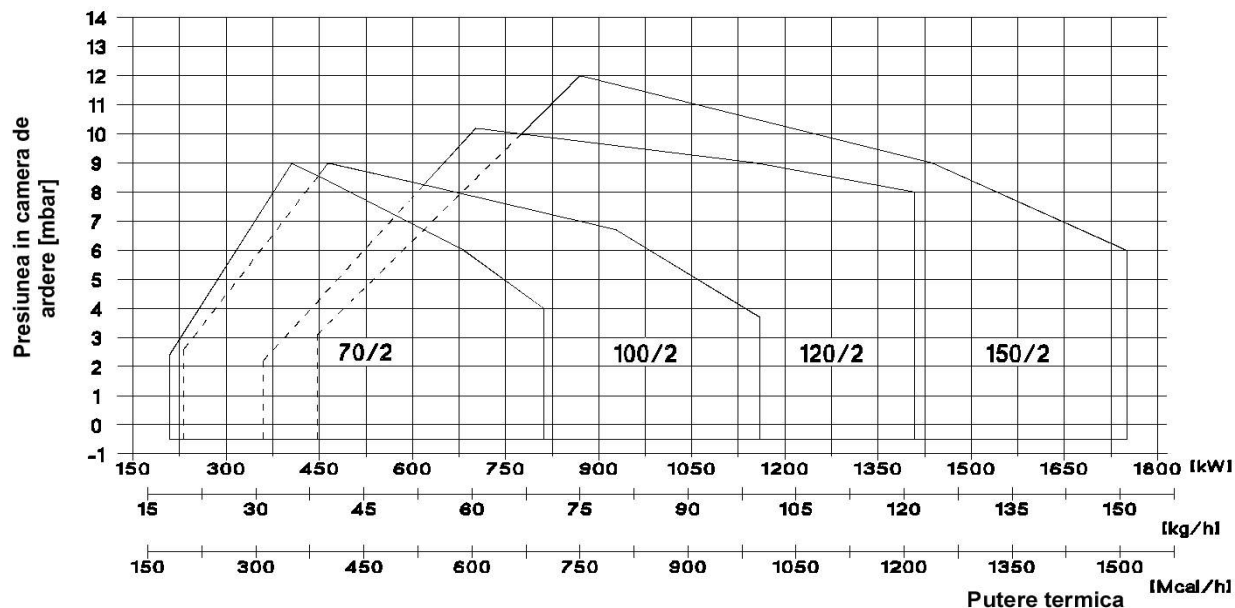


## ARZATOARE PE MOTORINA IN DOUA TREPTE

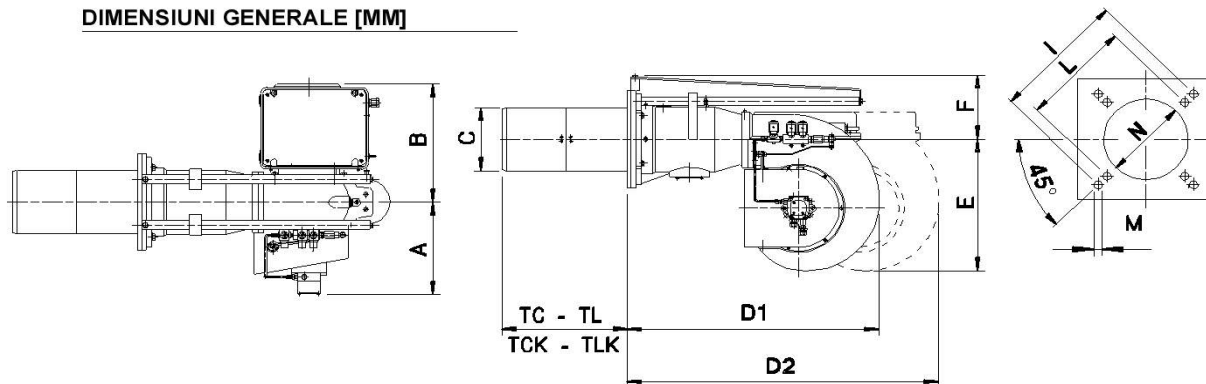
### DATE TEHNICE

MODEL	FGP 70/2	FGP 100/2	FGP 120/2	FGP 150/2
Consum	[kg/h] 18/35-70	20.5/40-100	29/60-120	38.5/75-150
Putere termica	[Mcal/h] 180/350-700	205/400-1000	290/600-1200	385/750-1500
Putere termica	[kW] 209/406-812	238/464-1160	336.5/696-1392	446.5/870-1740
Motor power	[kW] 1.1	2.2	3	4
Combustibil	Motorina 1.5°E a 20°C = 6.2 cSt = 35 sec Redwood N°1			
Presiune pompa	10-12 bar ( calibrare standard ) ax: 15 bar			
Alimentare electrica	trifazat 230/400V(-15%+10%) 50Hz			
Nivel protectie electrica	IP40			
* Minim treapta 1 / Minim treapta 2- Maxim treapta 2				

### REGIMUL DE LUCRU - graficul Putere - Psiune in camera de ardere



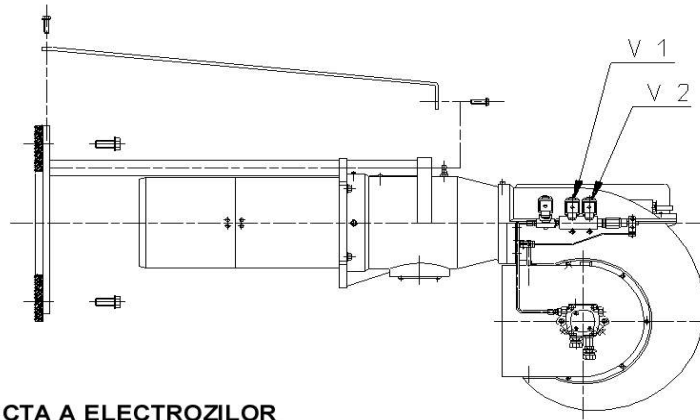
### DIMENSIUNI GENERALE [MM]



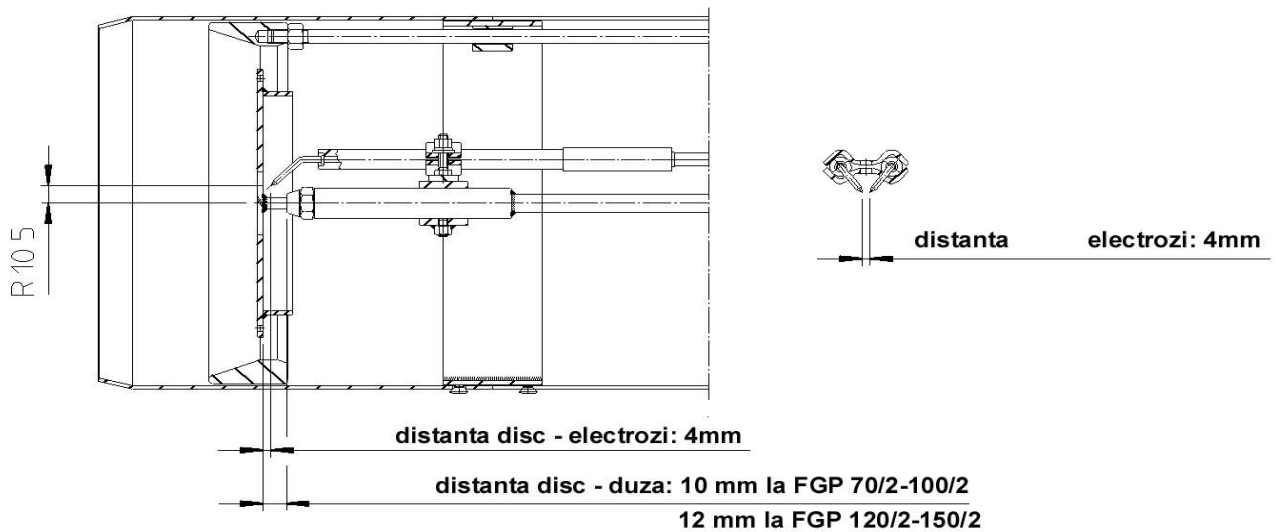
MODEL	A	B	C	D1	D2	E	F	TC	TCK	TLK	TL	I	L	M	N
FGP 70/2	250	310	165	660	1060	327	171	170	250	-	335	368	340	M12	180
FGP 100/2	300	350	175	670	1170	438	173	200	250	385	450	368	340	M12	190
FGP 120/2	350	380	212	820	1400	438	213	200	-	-	400	368	340	M14	230
FGP 150/2	350	380	212	820	1400	438	213	200	-	-	400	368	340	M14	230

## MONTAREA ARZATORULUI

- 1) Scoate-ti cadrul arzatorului si fixati-l in usa cazanului.
  - 2) Introduceti arzatorul in pivotii superiori pana la capat si strangeti suruburile de fixare in piulitele de reglaj
- NOTA : Niciodata nu se va tine suspendat arzatorul de pivoti fara elementele de strangere
- 3) Montati imediat elementele de fixare pe pivoti.

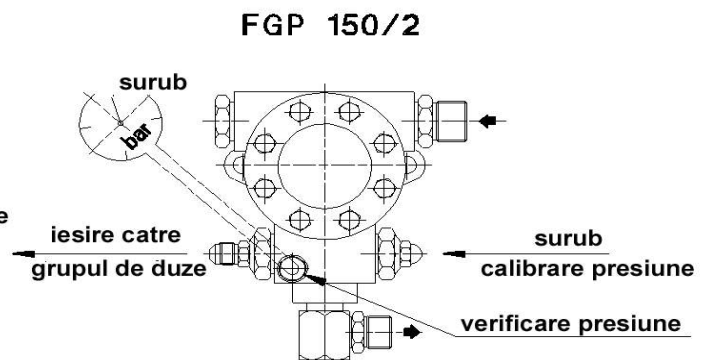
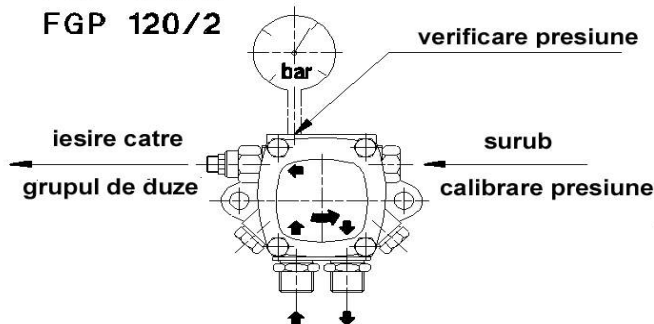


### POZITIONAREA CORECTA A ELECTROZILOR

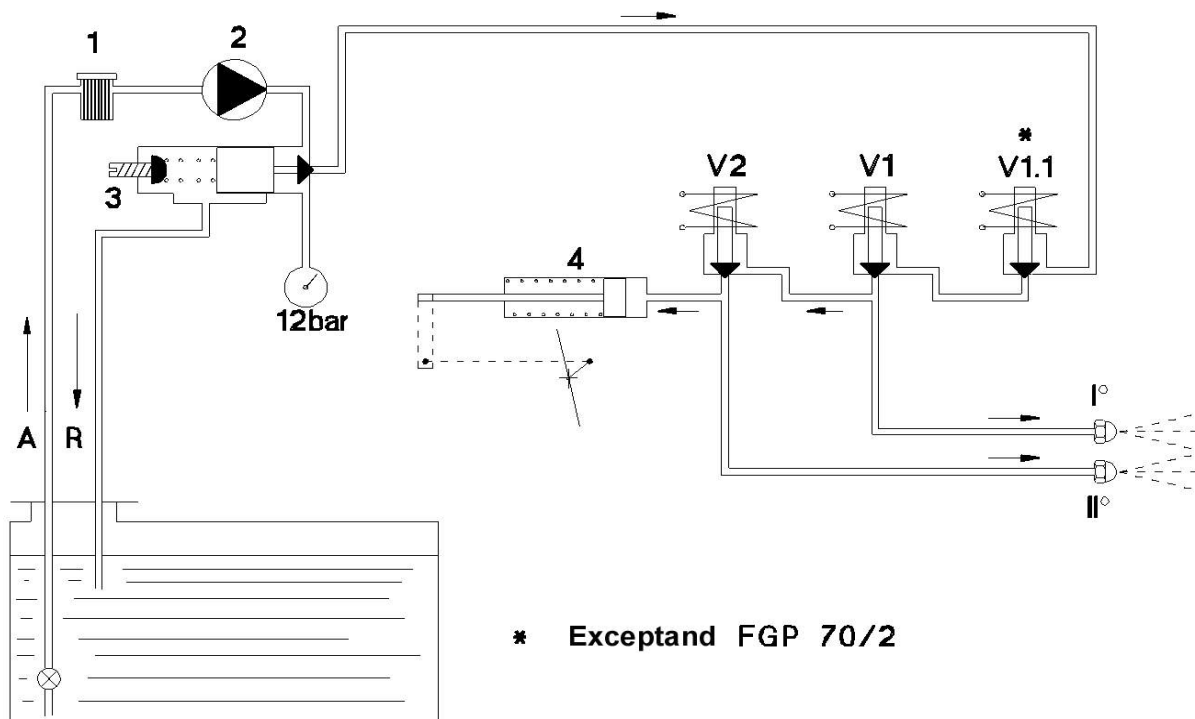


### CALIBRARE POMPA

FGP 70/2  
FGP 100/2  
FGP 120/2



## DIAGRAMA HIDRAULICA



### **FAZA 1 – PRE –SPALARE**

La pornirea arzatorului, motorina absorbita de pompa ( 2 ), este filtrata de filtru ( 1 ) si trimisa catre conducta de retur prin by-pass (3).

### **FAZA 2 – PRIMA ETAPA A APRINDERII**

Dupa aproximativ 20-25 secunde de prespalare , valva V 1 se deschide, motorina iese pulverizata de duza ( 1 ST ) si este aprinsa de arcul voltaic generat de catre transformatorul de aprindere. Excesul de motorina livrat de pompa este trecut in conducta de retur , prin intermediul regulatorului de presiune (3)

### **TIMP DE SIGURANTA**

Daca dupa aproximativ 5 – 10 secunde de la actionarea in prima treapta a valvei V1, motorina nu se aprinde, arzatorul se opreste (blocheaza).

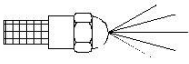



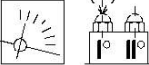
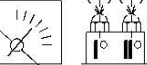
### **FAZA 3 – A DOUA ETAPA A APRINDERII**

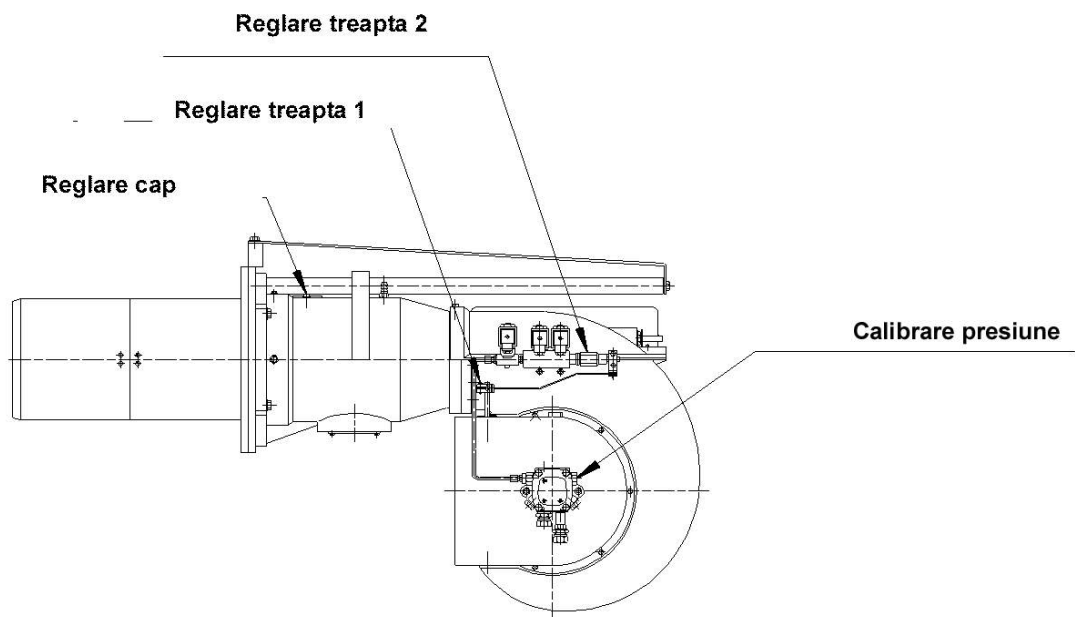
Dupa aproximativ 5-10 secunde de la prima etapa a aprinderii, valva 2 (pt. treapta 2 ) este actionata, iar motorina este trimisa in a doua duza(2<sup>ND</sup>) si in acelasi timp catre fisa ( 4 ) care deschide clapeta de aer in treapta 2.

## **TABEL INDICATIVE CALIBRARE FGP 70/2**

Calibrare realizata la o presiune in camera de ardere de 0,01 mbar.

Calibrarea definitiva trebuie facuta in regim de functionare, cu ajutorul unu analizor de gaze.

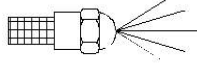





 Duza      G.P.H.		 f Presiune:	 Consum	 Reglare cap	 Deschidere aer treapta 1	 Deschidere aer treapta 2
1°stage	2°stage	bar	kg/h	notch N°		
4.00x45°	4.50x45°	12	36	2.5	1.5	3
4.50x45°	4.50x45°	12	38	3	1.5	3.5
5.00x45°	5.00x45°	12	42	3.5	1.5	3.5
5.50x45°	5.50x45°	12	46	4	2	4
6.00x45°	6.00x45°	12	50	4,5	2	4,5
6.50x45°	6.50x45°	12	55	5,5	2	4.5
7.00x45°	7.00x45°	12	59	7	2.5	5
7.50x45°	7.50x45°	12	63	8	2.5	5
8.00x60°	8.00x45°	12	67	9	2.5	5.5
8.50x60°	8.50x45°	12	71	10	2.5	5.5

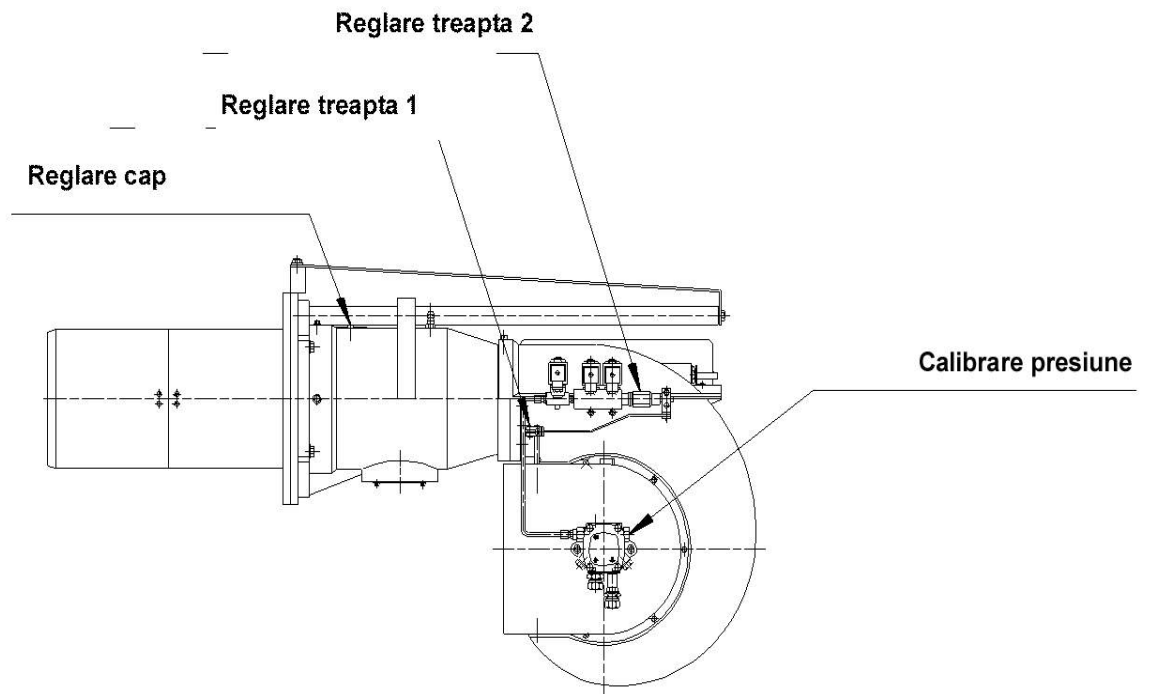


## TABEL INDICATIVE CALIBRARE FGP 100/2

Calibrare realizata la o presiune in camera de ardere de 0,01 mbar.

Calibrarea definitiva trebuie facuta in regim de functionare, cu ajutorul unu analizor de gaze.

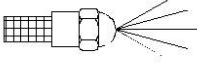


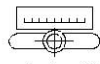


 Duza G.P.H.		P Presiune:  bar	Consum  kg/h	Reglare cap  notch N°	Deschidere aer treapta 1 	Deschidere aer treapta 2 
Treapta 1	Treapta 2					
4.00x45°	4.50x45°	15	40	0	2	3
5.50x45°	5.50x45°	14	50	1.5	2	3.5
6.00x45°	7.00x45°	15	60	3.5	2.5	4
7.00x45°	7.00x45°	15	65	4	2.5	4
7.00x45°	8.00x45°	15	70	5	2.5	4,5
8.00x45°	8.00x45°	15	75	5,5	2.5	4.5
8.00x45°	9.00x45°	15	80	6.5	2.5	5
9.00x45°	9.00x45°	15	85	7.5	3	5
9.00x45°	10.00x45°	15	90	8.5	3	5.5
10.00x45°	11.00x45°	14	95	9.5	3.5	5.5
11.00x45°	11.00x45°	14	100	10	3.5	6

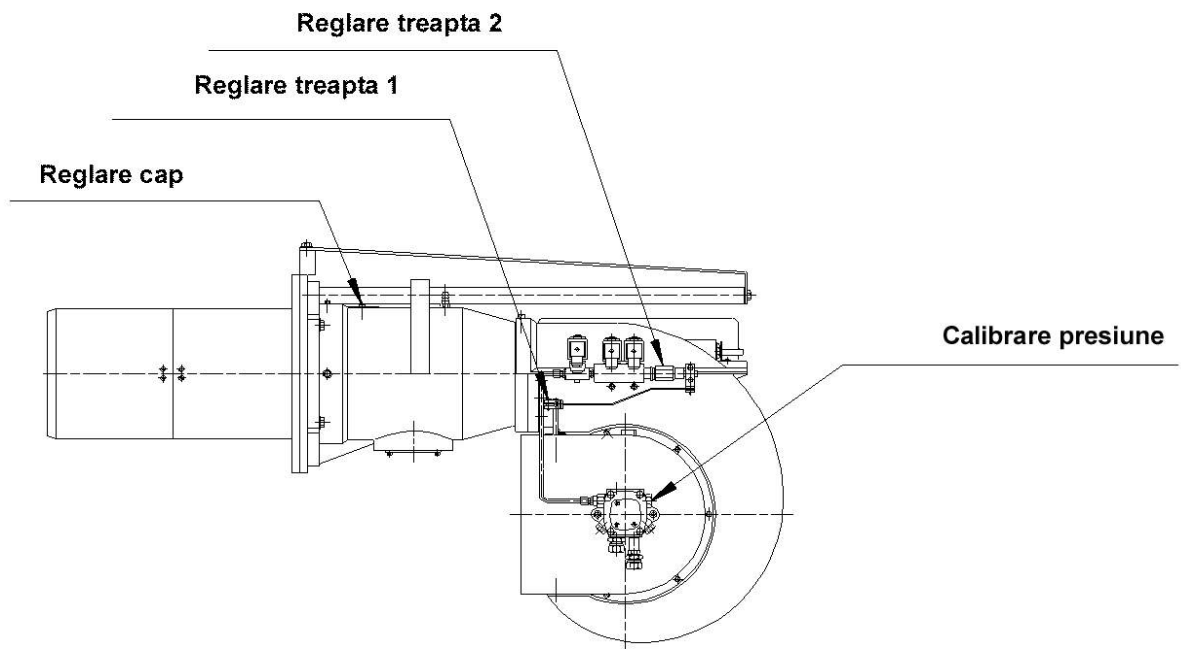


## TABEL INDICATIVE CALIBRARE FGP 120/2

Calibrare realizata la o presiune in camera de ardere de 0,01 mbar.

Calibrarea definitiva trebuie facuta in regim de functionare, cu ajutorul unu analizor de gaze.

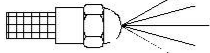




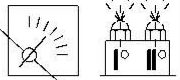
 Duza G.P.H.		Presiune  bar	Consum  kg/h	Reglare cap  notch N°	Deschidere aer treapta 1 	Deschidere aer treapta 2 
Treapta 1	Treapta 2					
6.50x45°	6.50x45°	14.5	60	0	1.5	3
7.50x45°	7.50x45°	15	70	1	2	3.5
8.00x45°	8.00x45°	15	75	1.5	2	3.5
8.00x45°	9.00x45°	15	80	2	2	3.5
9.00x45°	9.00x45°	15	85	2.5	2	4
9.00x45°	10.00x45°	15	90	3	2.5	4
10.00x45°	10.00x45°	15	95	3.5	2.5	4
11.00x45°	11.00x45°	14	100	4	2.5	4.5
11.00x45°	12.00x45°	14.5	105	4.5	2.5	4.5
12.00x45°	12.00x45°	14	110	5	3	5
12.00x45°	13.00x45°	14.5	115	5.5	3	5
13.00x45°	13.00x45°	14.5	120	6	3	5

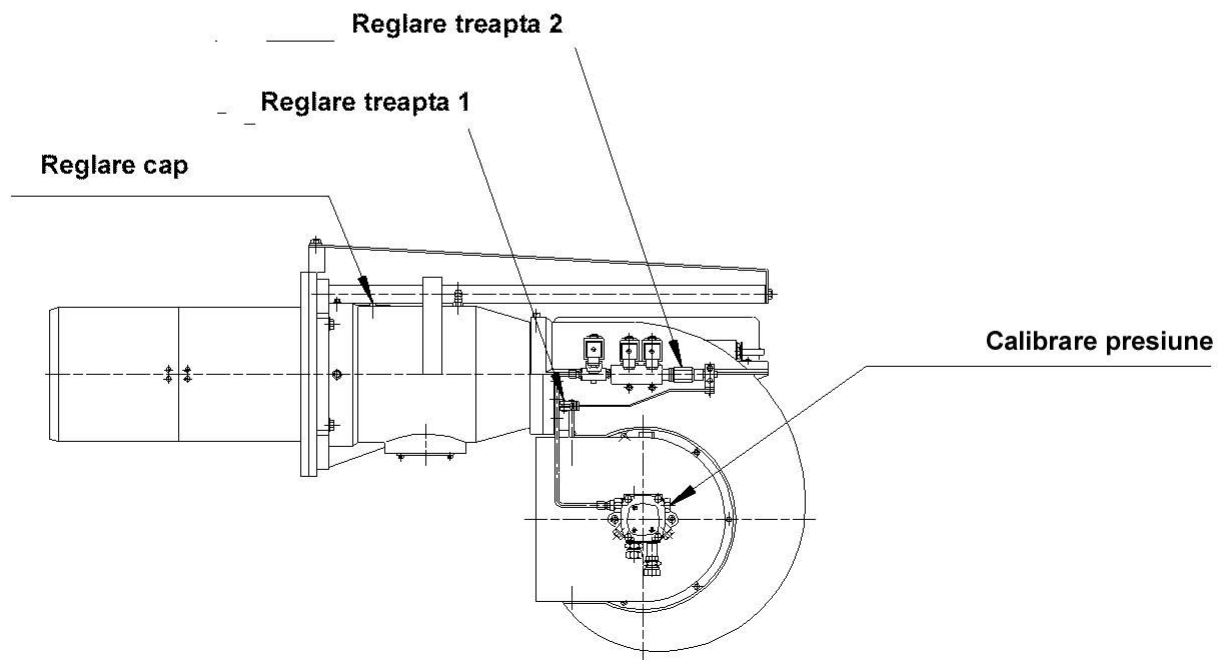


## TABEL INDICATIVE CALIBRARE FGP 150/2

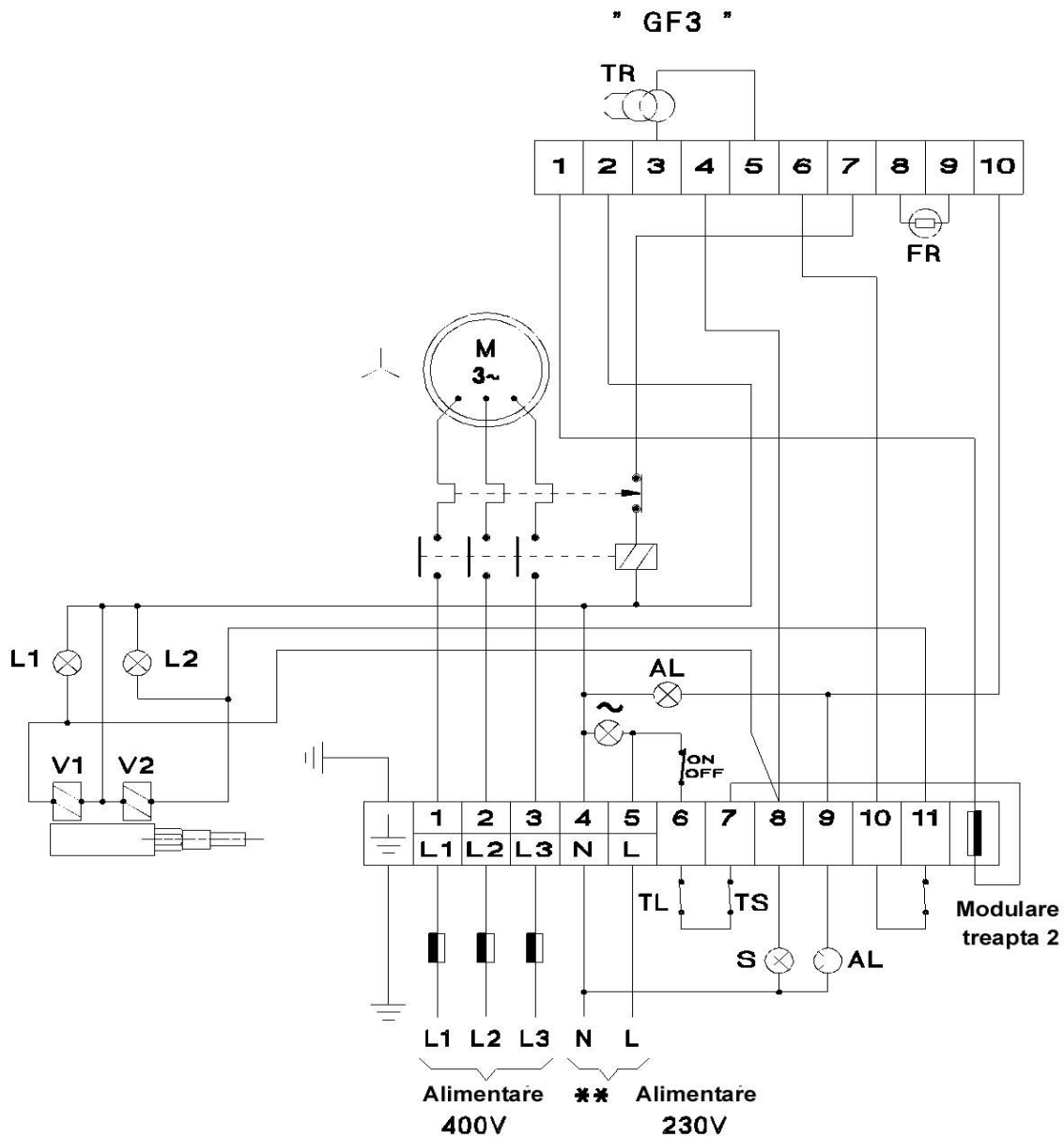
Calibrare realizata la o presiune in camera de ardere de 0,01 mbar.

Calibrarea definitiva trebuie facuta in regim de functionare, cu ajutorul unu analizor de gaze.

 Duza G.P.H.		Presiune  bar	Consum  kg/h	Reglare cap  notch N°	Deschidere aer treapta 1 	Deschidere aer treapta 2 
- Treapta 1	Treapta 2					
8.00x45°	8.00x45°	15	75	0	2	3
8.00x45°	9.00x45°	15	80	0.5	2.5	3.5
9.00x45°	10.00x45°	15	90	2	2.5	3.5
11.00x45°	11.00x45°	14	100	3.5	2.5	4
12.00x45°	12.00x45°	14	110	4.5	2.5	4.5
12.00x45°	12.00x45°	15	115	5.5	3	4.5
12.00x45°	13.00x45°	15	120	6	3	5
13.00x45°	13.00x45°	15	125	6.5	3	5
13.00x45°	14.00x45°	15	130	7.5	3	5.5
14.00x45°	14.00x45°	15	135	8	3.5	5.5
14.00x45°	15.00x45°	15	140	8.5	3.5	5.5
15.00x45°	15.00x45°	15	145	9.5	3.5	6
15.00x45°	16.00x45°	15	150	10	3.5	6



# CONEXIUNILE ELECTRICE – FGP 70/2



## LEGEND:

- TR : Transformator aprindere
- FR : Fotorezistenta
- M : Motor ventilator
- TS : Termostat siguranta
- TL : Termostat functionare
- AL : Semnalizare inchidere
- S : Semnal functionare
- V1 : Valva treapta 1
- L1 : Semnalizare treapta 1
- V2 : Valva treapta 2
- L2 : Semnalizare treapta 2

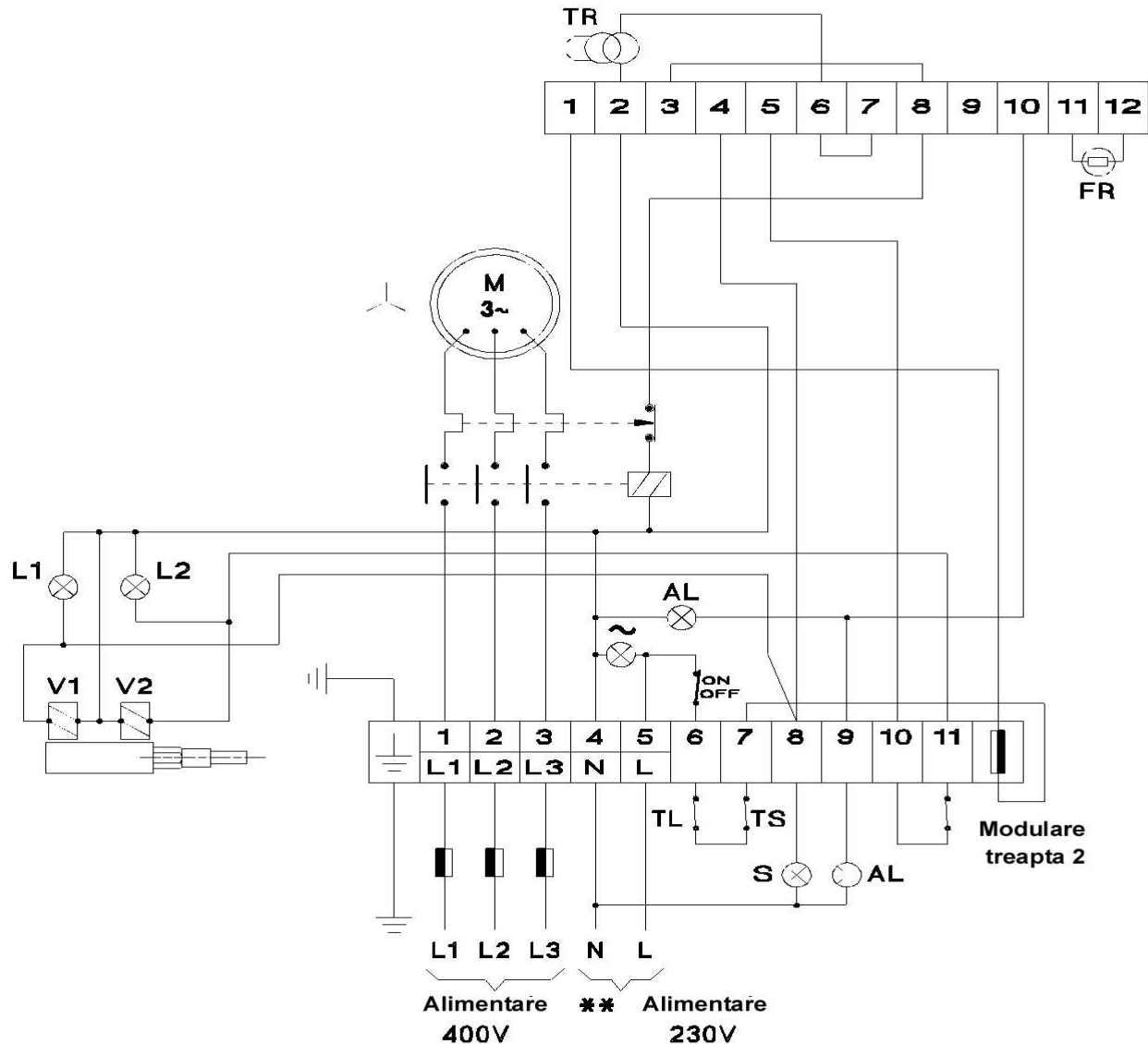
N.B.: Cu tensiune 230V/ trifazic  
conexiunile motorului sunt in  $\Delta$

**\*\*NOTA : A NU SE INVERSA FAZA CU NULUL.**



# CONEXIUNILE ELECTRICE – FGP 70/2

" LANDIS e GYR LOA-44 "



## LEGEND:

- TR Transformator aprindere
- FR Fotorezistenta
- M Motor ventilator
- TS Termostat siguranta
- TL Termostat functionare
- AL Semnalizare inchidere
- S Semnal functionare
- V1 Valva treapta 1
- L1 Semnalizare treapta 1
- V2 Valva treapta 2
- L2 Semnalizare treapta 2

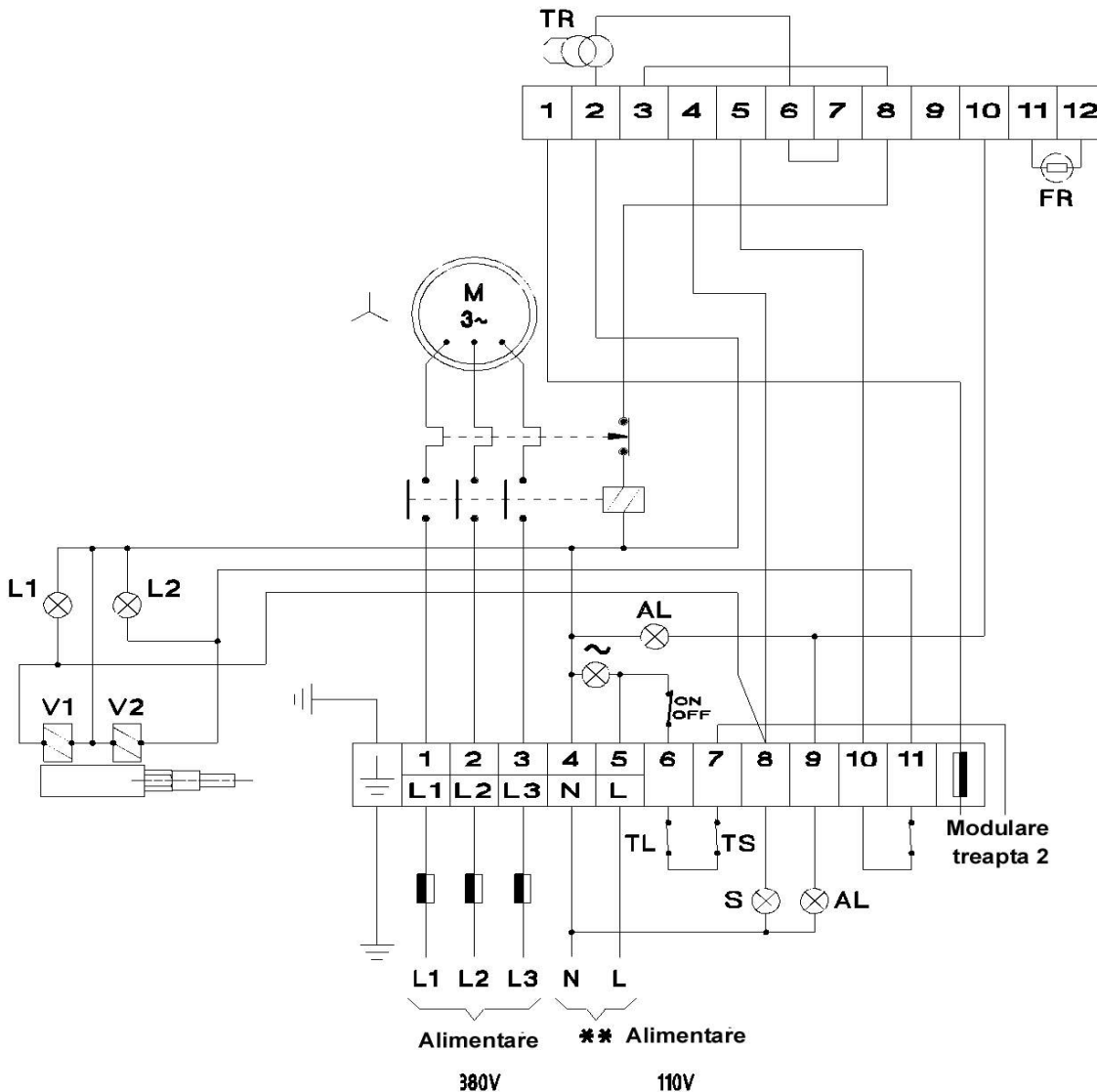
N.B.: Cu tensiune 230V/ trifazic  
conectati motorul in conex.  $\Delta$

**\*\*NOTA : A NU SE INVERSA FAZA CU NULUL.**

# CONEXIUNILE ELECTRICE – FGP 70/2

L

" LANDIS e GYR LOA-44 "



## LEGEND:

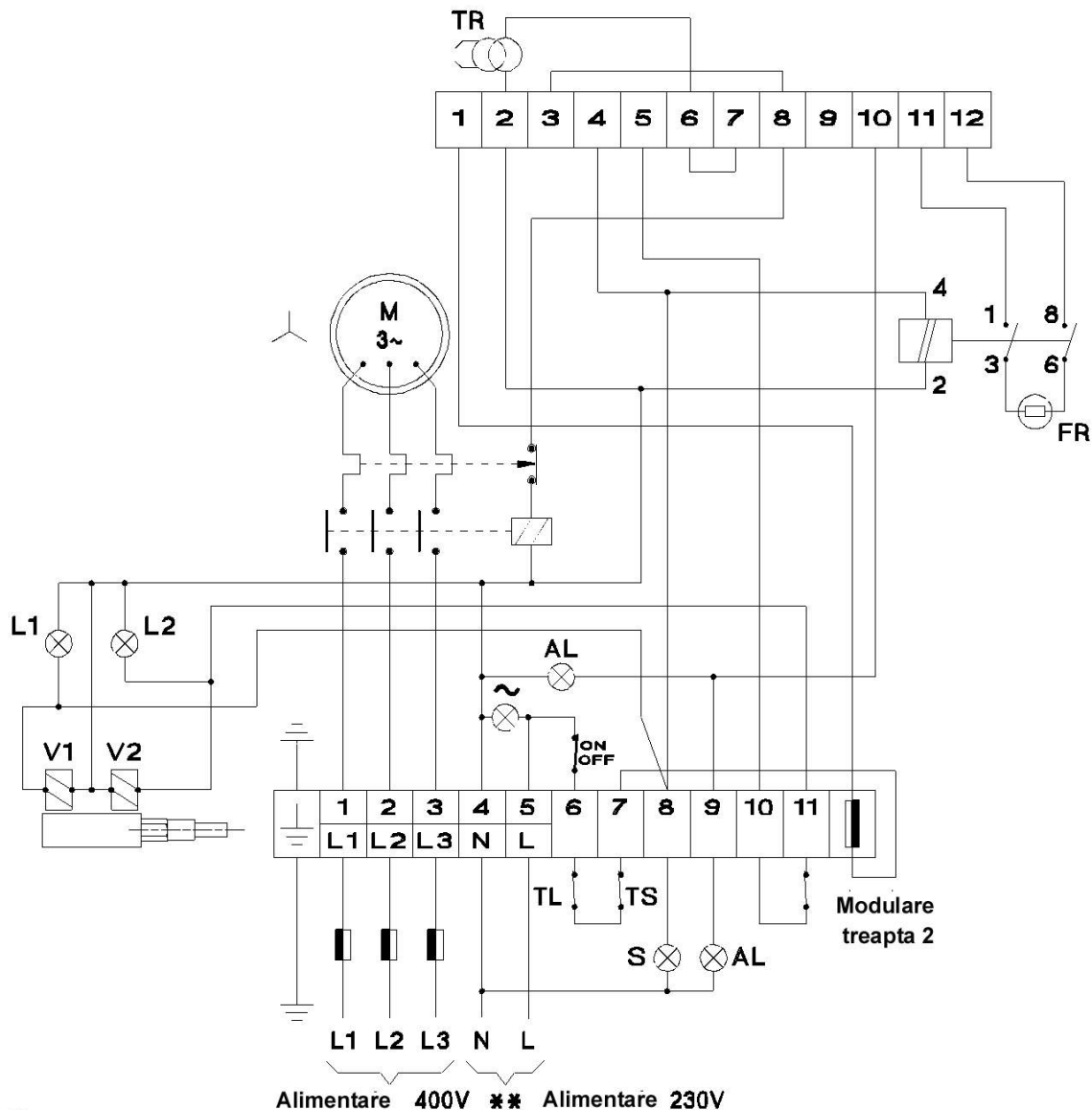
TR : Transformator aprindere  
 FR : Fotorezistenta  
 M : Motor ventilator  
 TS : Termostat siguranta  
 TL : Termostat functionare  
 AL : Semnalizare inchidere  
 S : Semnal functionare  
 V1 : Valva treapta 1  
 L1 : Semnalizare treapta 1  
 V2 : Valva treapta 2  
 L2 : Semnalizare treapta 2

**N.B.:** Cu tensiune 230V / trifazic  
 conectati motorul in conex.  $\Delta$

**\*\*NOTA : A NU SE INVERSA FAZA CU NULUL.**

# CONEXIUNILE ELECTRICE – FGP 70/2

" LANDIS e GYR LOA 44 "



## LEGEND:

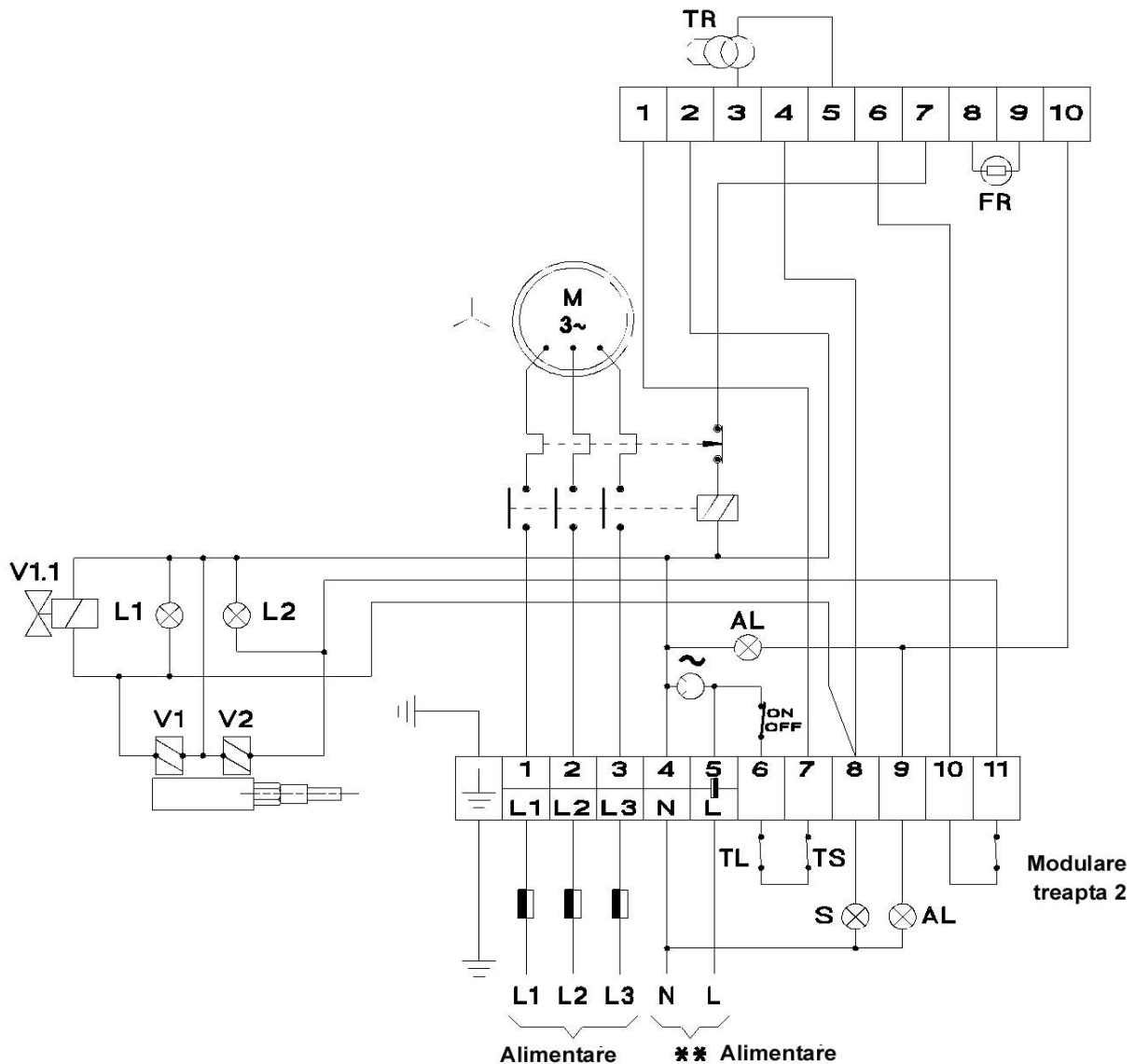
- TR : Transformator aprindere
- FR : Fotorezistenta
- M : Motor ventilator
- TS : Termostat siguranta
- TL : Termostat functionare
- AL : Semnalizare inchidere
- S : Semnal functionare
- V1 : Valva treapta 1
- L1 : Semnalizare treapta 1
- V2 : Valva treapta 2
- L2 : Semnalizare treapta 2

N.B.: Cu tensiune 230V/ trifazic  
conectati motorul in conex.  $\Delta$

**\*\*NOTA : A NU SE INVERSA FAZA CU NULUL.**

# CONEXIUNILE ELECTRICE – FGP 100/2, FGP 120/2, FGP 150/2

" GF3 "



## LEGEND:

- TR : Transformator aprindere
- FR : Fotorezistenta
- M : Motor ventilator
- TS : Termostat siguranta
- TL : Termostat functionare
- AL : Semnalizare inchidere
- S : Semnal functionare
- V1.1 : Valva siguranta
- V1 : Valva treapta 1
- L1 : Semnalizare treapta 1
- V2 : Valva treapta 2
- L2 : Semnalizare treapta 2

400V

230V

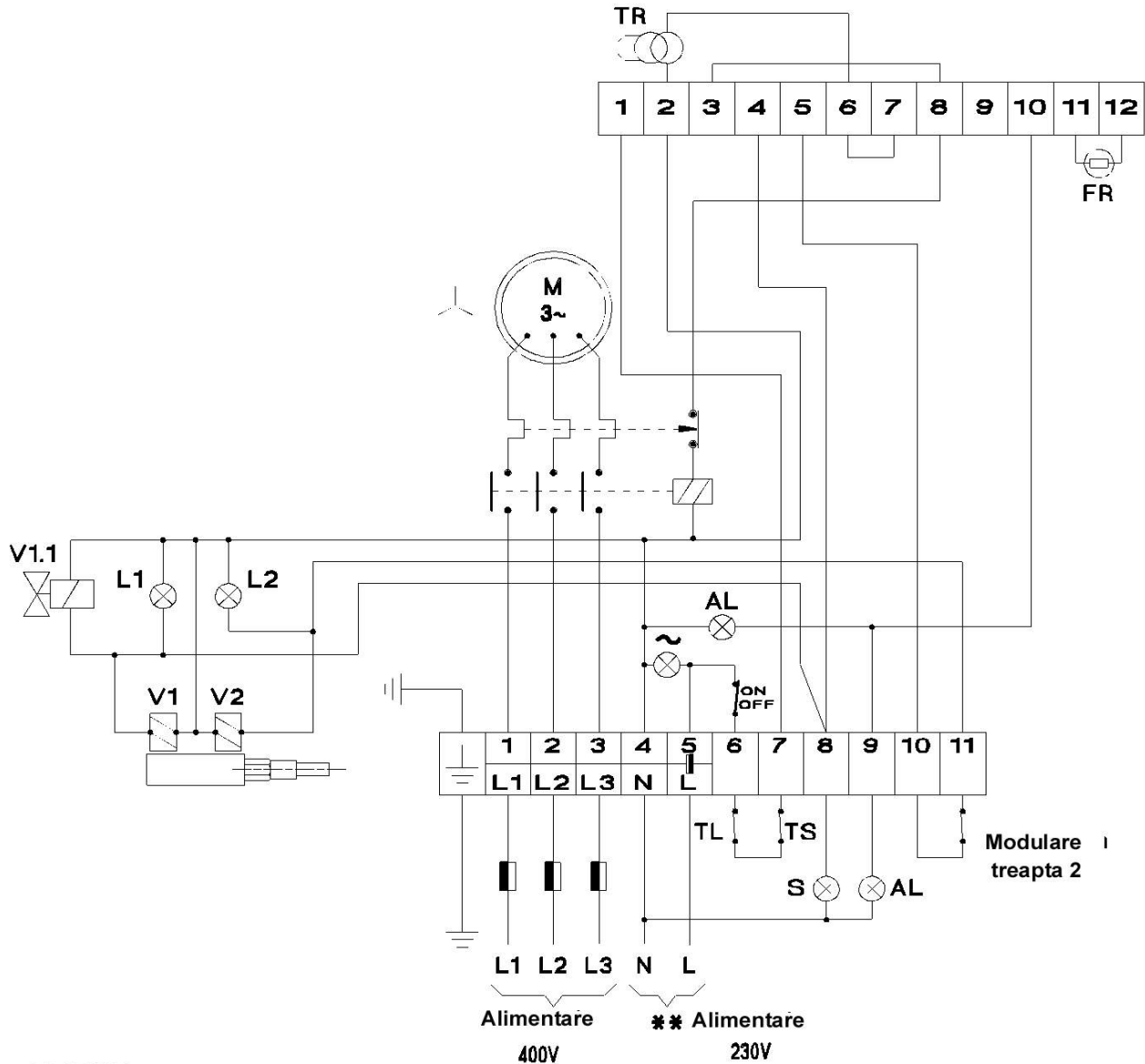
N.B.: Cu tensiune 230V / trifazic

conectati motorul in conex.  $\Delta$

**\*\*NOTA : A NU SE INVERSA FAZA CU NULUL.**

# CONEXIUNILE ELECTRICE – FGP 100/2, FGP 120/2, FGP 150/2

” LANDIS e GYR LOA-44 ”



## LEGENDA:

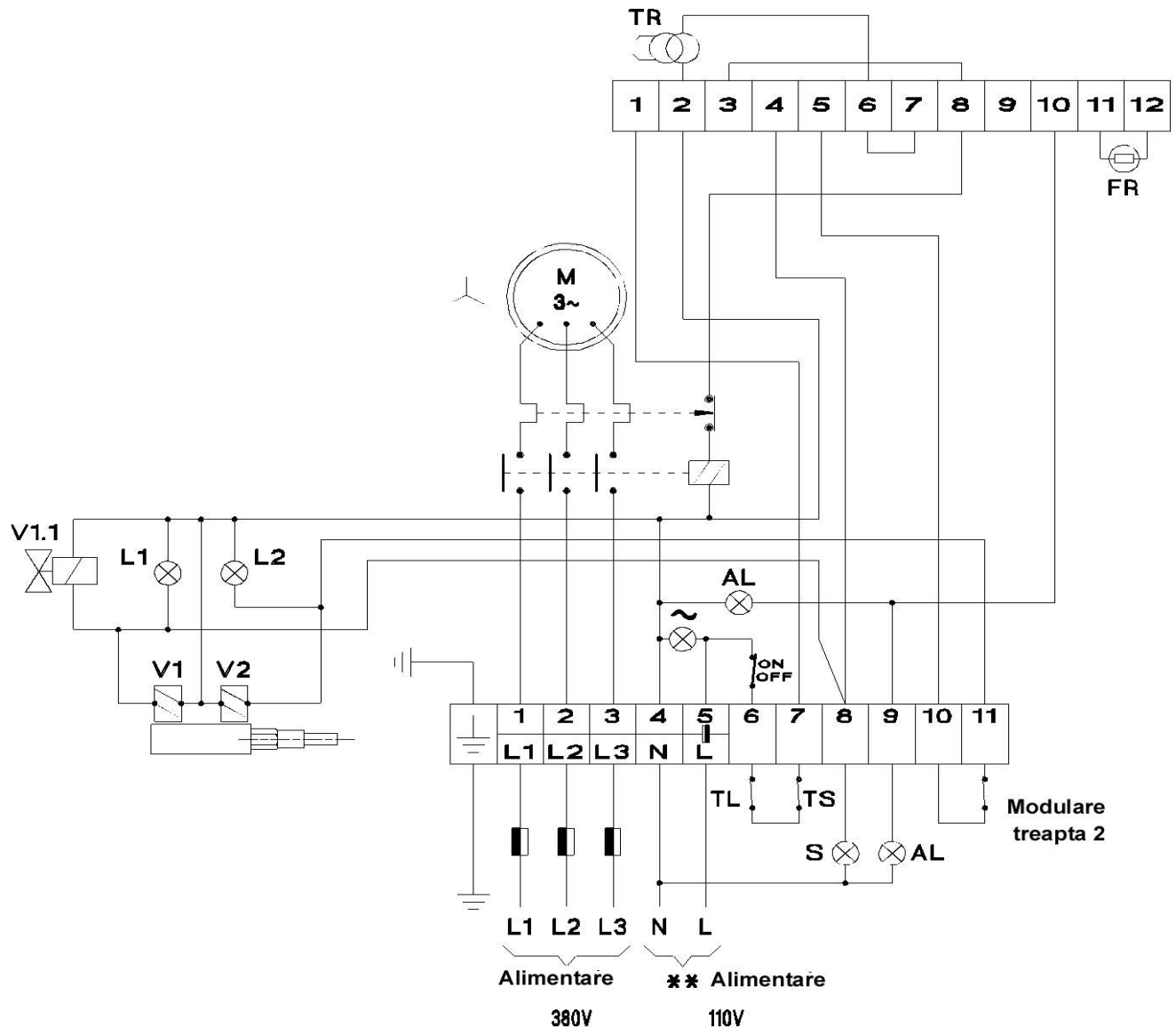
- TR : Transformator aprindere
- FR : Fotorezistenta
- M : Motor ventilator
- TS : Termostat siguranta
- TL : Termostat functionare
- AL : Semnalizare inchidere
- S : Semnal functionare
- V1.1 : Valva siguranta
- V1 : Valva treapta 1
- L1 : Semnalizare treapta 1
- V2 : Valva treapta 2
- L2 : Semnalizare treapta 2

N.B.: Cu tensiune 230V/ trifazic  
conectati motorul in conex.  $\Delta$

**\*\*NOTA : A NU SE INVERSA FAZA CU NULUL.**

# CONEXIUNILE ELECTRICE – FGP 100/2, FGP 120/2, FGP 150/2

" LANDIS e GYR LOA-44 "



## LEGEND:

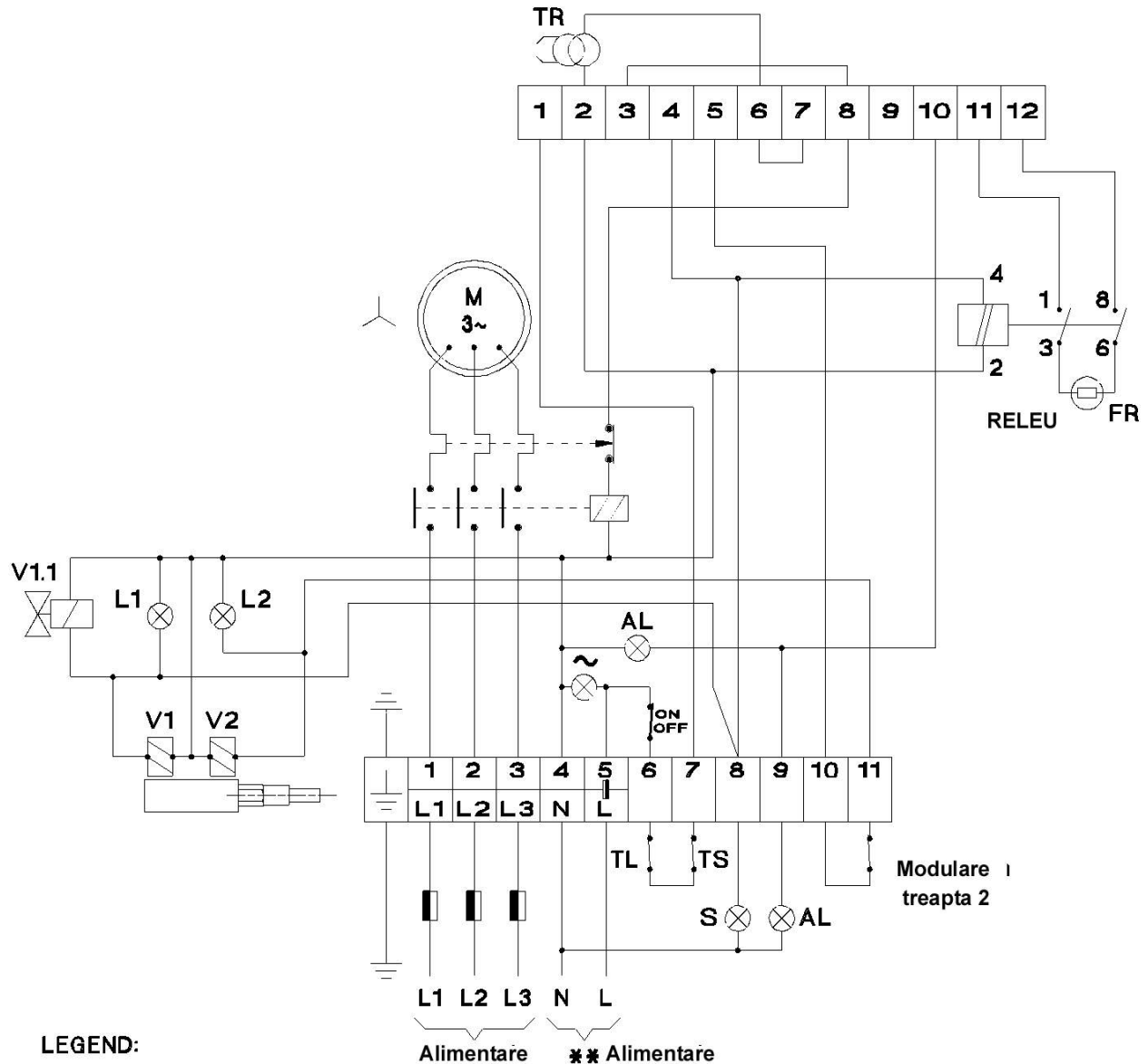
- TR : Transformator aprindere
- FR : Fotorezistenta
- M : Motor ventilator
- TS : Termostat siguranta
- TL : Termostat functionare
- AL : Semnalizare inchidere
- S : Semnal functionare
- V1.1 : Valva siguranta
- V1 : Valva treapta 1
- L1 : Semnalizare treapta 1
- V2 : Valva treapta 2
- L2 : Semnalizare treapta 2

N.B.: Cu tensiune 230V / trifazic  
conectati motorul in conex.  $\Delta$

**\*\*NOTA : A NU SE INVERSA FAZA CU NULUL.**

# CONEXIUNILE ELECTRICE – FGP 100/2, FGP 120/2, FGP 150/2

” LANDIS e GYR LOA 44 ”



## LEGEND:

- TR : Transformator aprindere
- FR : Fotorezistenta
- M : Motor ventilator
- TS : Termostat siguranta
- TL : Termostat functionare
- AL : Semnalizare inchidere
- S : Semnal functionare
- V1.1 : Valva siguranta
- V1 : Valva treapta 1
- L1 : Semnalizare treapta 1
- V2 : Valva treapta 2
- L2 : Semnalizare treapta 2

Alimentare 400V    \*\* Alimentare 230V

N.B.: Cu tensiune 230V/ trifazic  
conectati motorul in conex.  $\Delta$

**\*\*NOTA : A NU SE INVERSA FAZA CU NULUL.**