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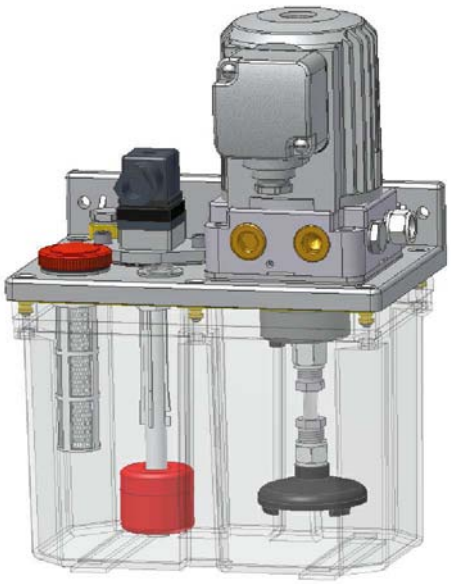
INTZA
SISTEMAS DE ENGRASE

GF20-21-22-23

OIL lubrication group

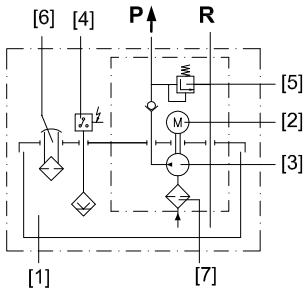
Circulating system

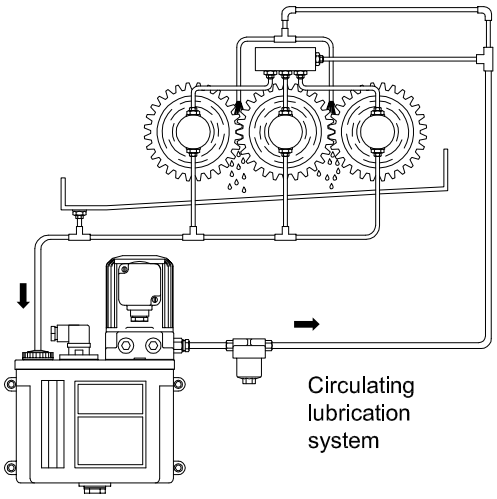
200.000.000



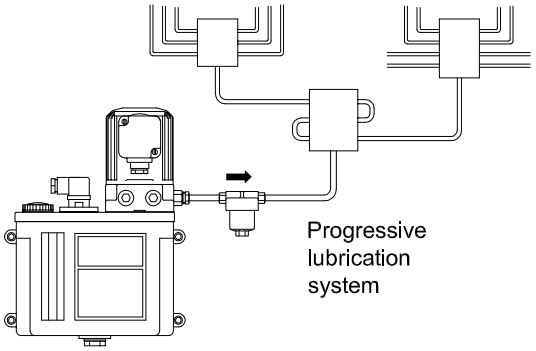
Hydraulic diagram

1-Tank
2-Electric motor
3-Gear pump
4-Level switch
5-Pressure limiting valve
6-Filling cap-filter
7-Suction filter
P-Pressure outlet
R-Return





Circulating lubrication system



Progressive lubrication system

Applicacation

As an continuous operation unit for circulating and hydrostatic lubrication systems, and with progressive distributors.
The basic execution includes a motor-gear pump unit, as well the limiting valve to control the pressure.

Operation

The working control of these units is external (without control): programming by means of the machine automatism or external control (cnc, automatic device, etc...)

It can be equipped with a electrical level for oil level control in the tank

Technical characteristics

Gear pump

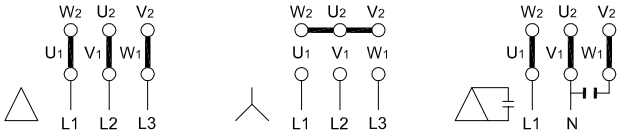
Lubricant ..... mineral or sinthetyc oils
Viscosity ..... see table
Flow ..... 0,2-0,5-1,0 l/min
Maximum pressure ..... see table
Working temperature..... +10°C ÷ +40°C

Flow L/min	Maximum pressure	Viscosity cSt
0,2 - 0,5	6 bar	20÷1800
	12 bar	20÷1500
	25 bar	20÷1000
1,0	12 bar	20÷500

Motor

Voltage.....	230/400V	24VDC
Frequency	50/60Hz	
Power (50Hz).....	100W	55W
Consumption (50Hz).....	0,5A	2,5A
rpm (50Hz).....	2800	2800

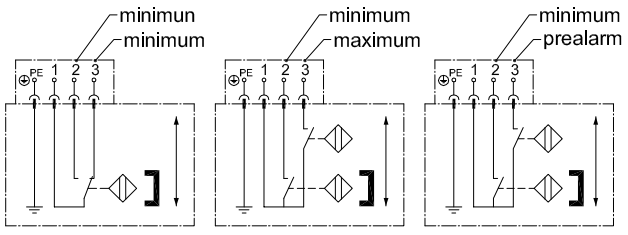
Service mode..... S1 100%



CAUTION!!!
THE FOLLOWING SAFETY MEASURES MUST BE TAKEN: DISCONNECT THE MAIN SWITCH BEFORE CARRYING OUT CONNECTION COUPLING

Electric level switch

Type of contact ..... Reed
Maximun switching voltage.....230 VUC
Connection..... max. 0,5 A
Power breakdown..... max. 30 W
Connector.....DIN EN 175301-803
Function ..... see diagram



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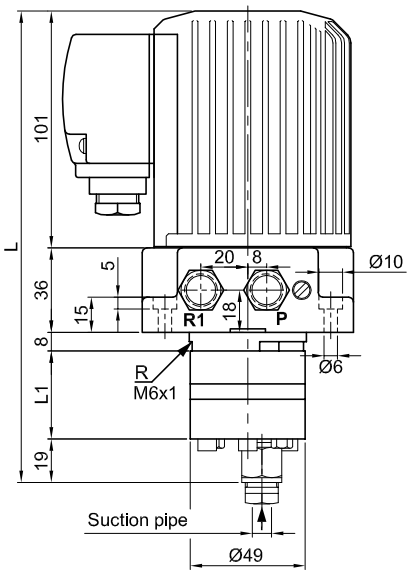
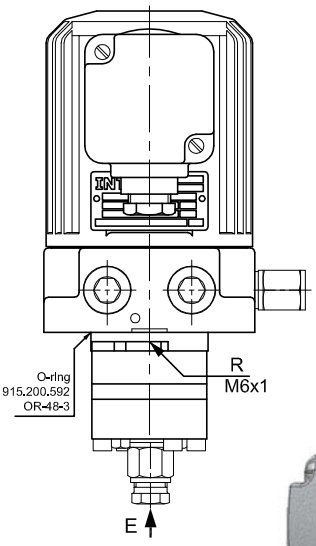
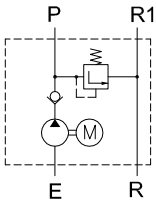
INTZA
SISTEMAS DE ENGRASE

Motor-pump unit for OIL
Circulating system

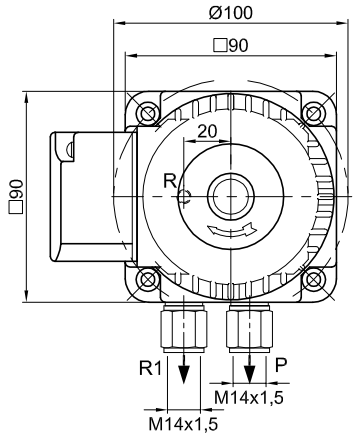
GF20
200.000.000







P = Pressure outlet
E = Suction
R = Return directly to the tank
R1 = Return distance to the tank



GF20 / (X) – 1 – (X) (X) (X)

Mounting position	Flow l/min	Maximum pressure	Voltage
(A) Upon tank	(2) 0,2	(1) 6 bar	(0) 24Vdc
(B) Outside the tank	(5) 0,5	(2) 12 bar	(3) 230/400V 50/60Hz
		(3) 25 bar	
	(7) 1,0	(2) 12 bar	

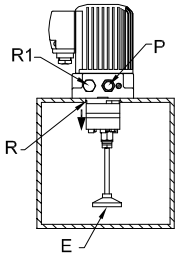
Indications about the mounting position:

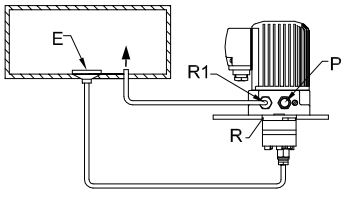
We recommend vertical mounting (pump downwards).
If is necessary horizontal mounting, verify especially its seal (try to the oil level d'ont cover the pump).
Ask us in this case.

The pump can be mounted upon the tank or outside.
In both cases, the return of the remaining flow of the limit valve has to be foreseen

Mounting upon the tank
Plug "R1" so that the remaining oil returns bY "R" directly to the tank.

Mounting outside the tank
Plug "R"
Join "R1" with the tank for the return
Join "E" with the tank for the suction





Sizes

Flow	L	L1	E (Suction pipe Ø)
0,2 L/min	197	34	M14x1,5 (Ø8x1)
0,5 L/min	201	38	M14x1,5 (Ø8x1)
1,0 L/min	207	44	M16x1,5 (Ø10x1)

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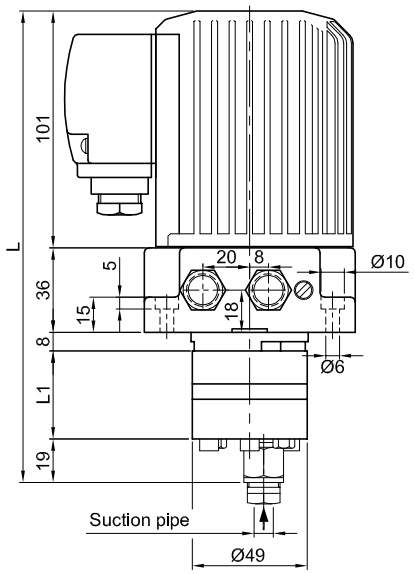
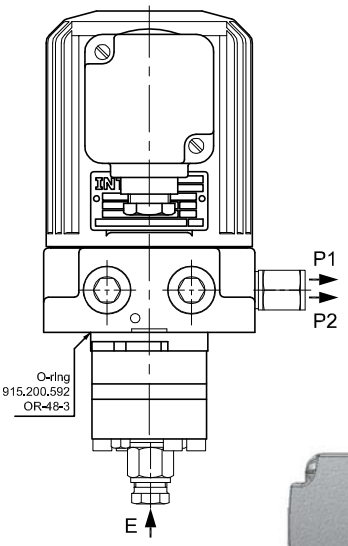
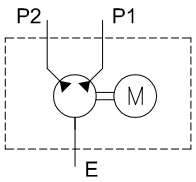
INTZA
SISTEMAS DE ENGRASE

Motor-pump unit for OIL
Circulating system

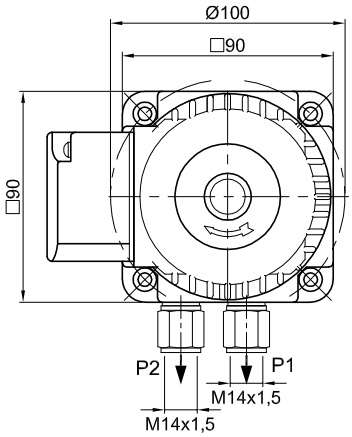
GF30
204.000.000







P1 = Pressure outlet 1
P2 = Pressure outlet 2
E = Suction



DImenslones

Caudal	L	L1	E (Ø Tubo aspiración)
2 x 0,2 L/min	197	34	M14x1,5 (Ø8x1)
2 x 0,5 L/min	201	38	M14x1,5 (Ø8x1)

GF30 / C – 1 – (X) (X) (X)

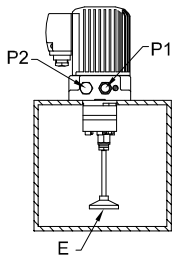
Flow L/min	Maximum pressure	Voltage
(2) 2x0,2	(2) 12 bar	(0) 24Vdc
(5) 2x0,5		(3) 230/400V 50/60Hz

Indications about the mounting position:

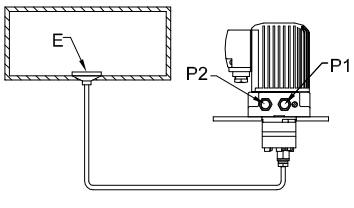
We recommend vertical mounting (pump downwards).
If is necessary horizontal mounting, verify especially its seal (try to the oil level d'ont cover the pump).
Ask us in this case.

The pump can be mounted upon the tank or outside.
In both cases, recommended mounting an external pressure limiting valve to protect the circuit.

Mounting upon the tank



Mounting outside the tank



Technical characteristics

Gear pump

Lubricant .....mineral or sinthetyc oils
Flow ..... 2x0,2 - 2x0,5 L/min
Viscosity:
-pump 2x0,2 L/min..... 20÷1000 cSt
-pump 2x0,5 L/min..... 20÷500 cSt
Maximum pressure:
-continuous working..... 12 bar
-intermittent working..... 20 bar
Working temperature..... +10°C ÷ +40°C

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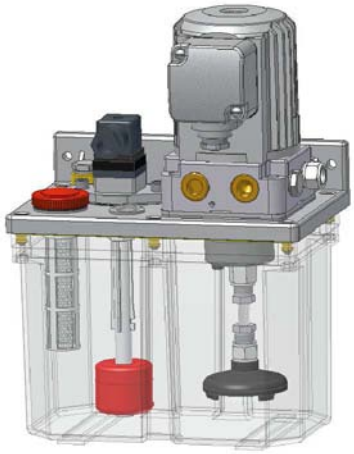
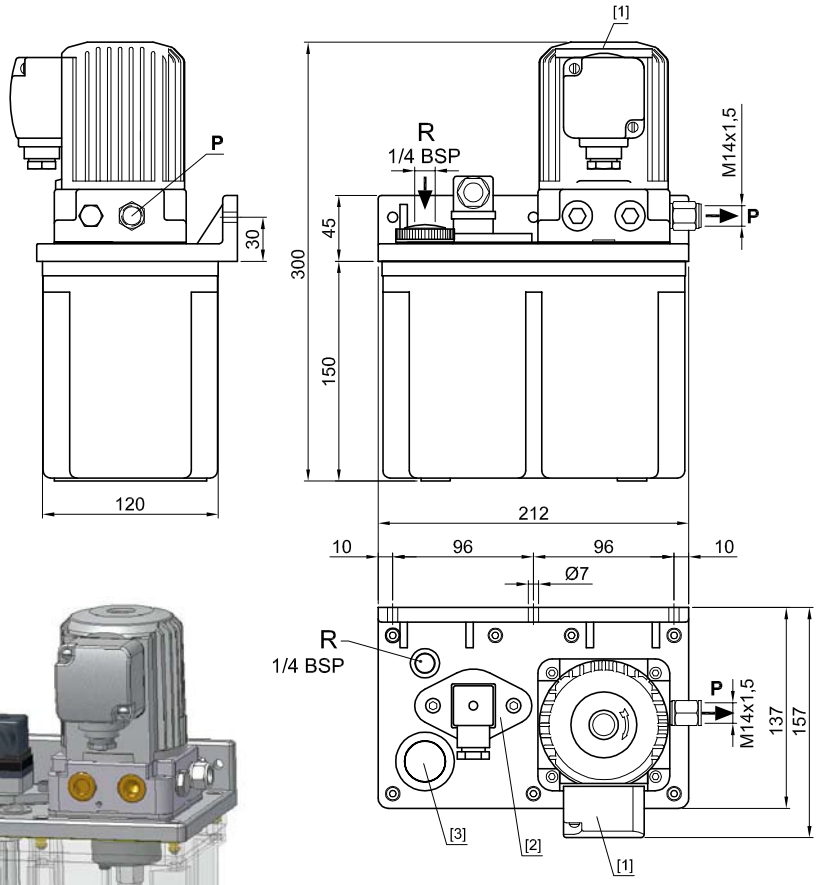
INTZA
SISTEMAS DE ENGRASE

Lubrication group for **OIL**
Circulating system

GF21/B
3L plastic
200.300.000

[1] Electric motor
[2] Level switch
[3] Filling cap-filter
P = Pressure outlet
R = Return





GF21 / (X) – 1 – (X) (X) (X) (X)

Tank capacity	Flow l/min	Maximum pressure
(B) 3 litres	(2) 0,2 (5) 0,5	(1) 6 bar (2) 12 bar (3) 25 bar
	(7) 1,0	(2) 12 bar

Level switch	
(0)	Without
(5)	Minimum level
(6)	Maximum-minimum level
(7)	Prealarm+minimum level

Voltage
(0) 24Vdc
(3) 230/400V 50/60Hz

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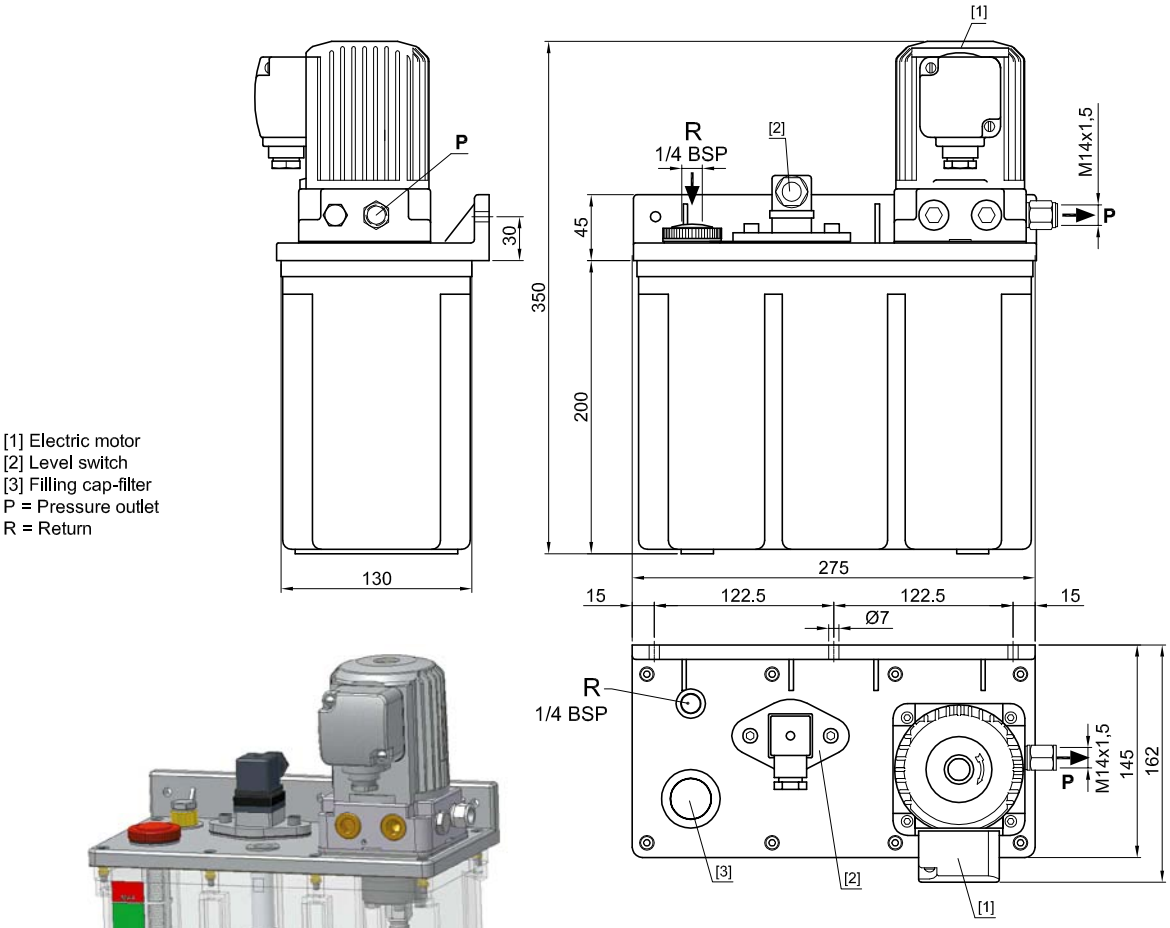
INTZA
SISTEMAS DE ENGRASE

Lubrication group for **OIL**
Circulating system

GF21/C
6L plastic
200.400.000



[1] Electric motor
[2] Level switch
[3] Filling cap-filter
P = Pressure outlet
R = Return

GF21 / (X) – 1 – (X) (X) (X) (X)

Tank capacity	Flow l/min	Maximum pressure	Level switch	Voltage
(C) 6 litres	(2) 0,2 (5) 0,5	(1) 6 bar (2) 12 bar (3) 25 bar	(0) Without (5) Minimum level (6) Maximum-minimum level (7) Prealarm+minimum level	(0) 24Vdc (3) 230/400V 50/60Hz
	(7) 1,0	(2) 12 bar		

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INTZA
SISTEMAS DE ENGRASE

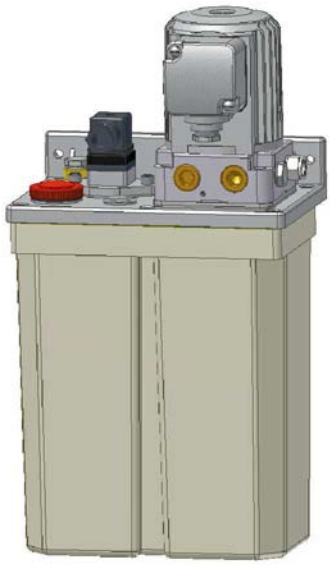
Lubrication group for **OIL**

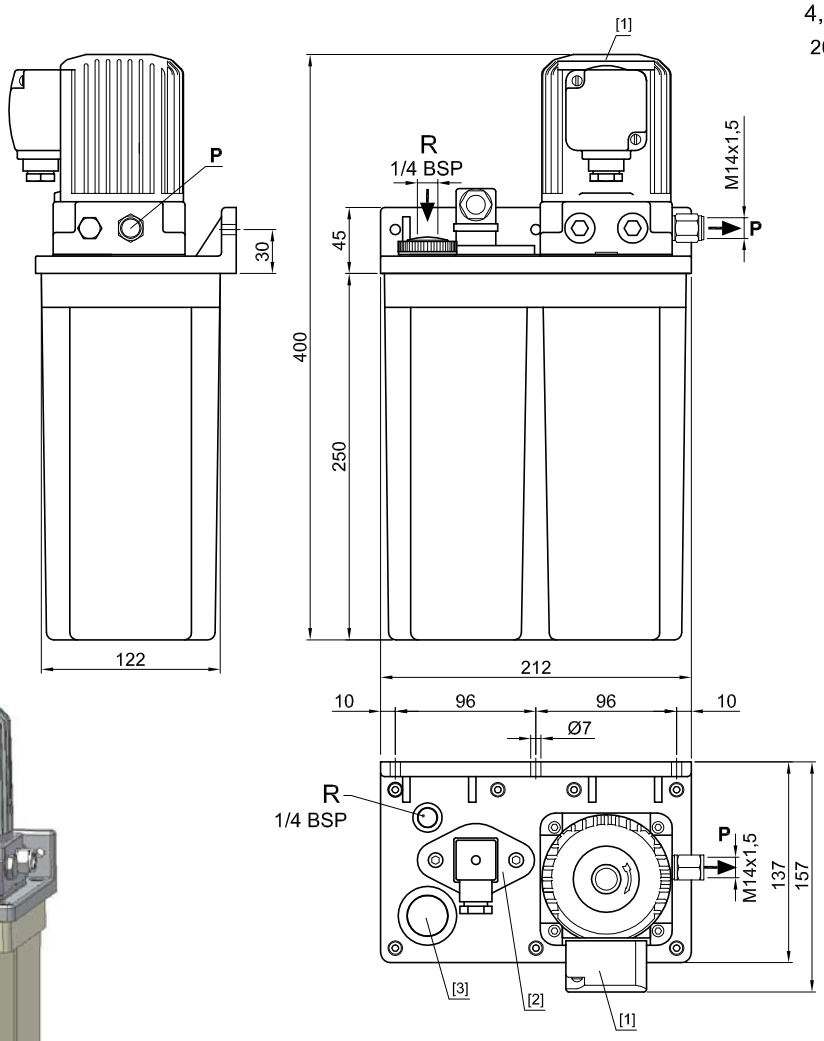
Circulating system

GF21/H

4,5L plastic

200.400.000





[1] Electric motor
[2] Level switch
[3] Filling cap-filter
P = Pressure outlet
R = Return

GF21 / (X) – 1 – (X) (X) (X) (X)

Tank capacity	Flow l/min	Maximum pressure
(H) 4,5 litres	(2) 0,2 (5) 0,5	(1) 6 bar (2) 12 bar (3) 25 bar
	(7) 1,0	(2) 12 bar

Level switch	
(0)	Without
(5)	Minimum level
(6)	Maximum-minimum level
(7)	Prealarm+minimum level

Voltage	
(0)	24Vdc
(3)	230/400V 50/60Hz

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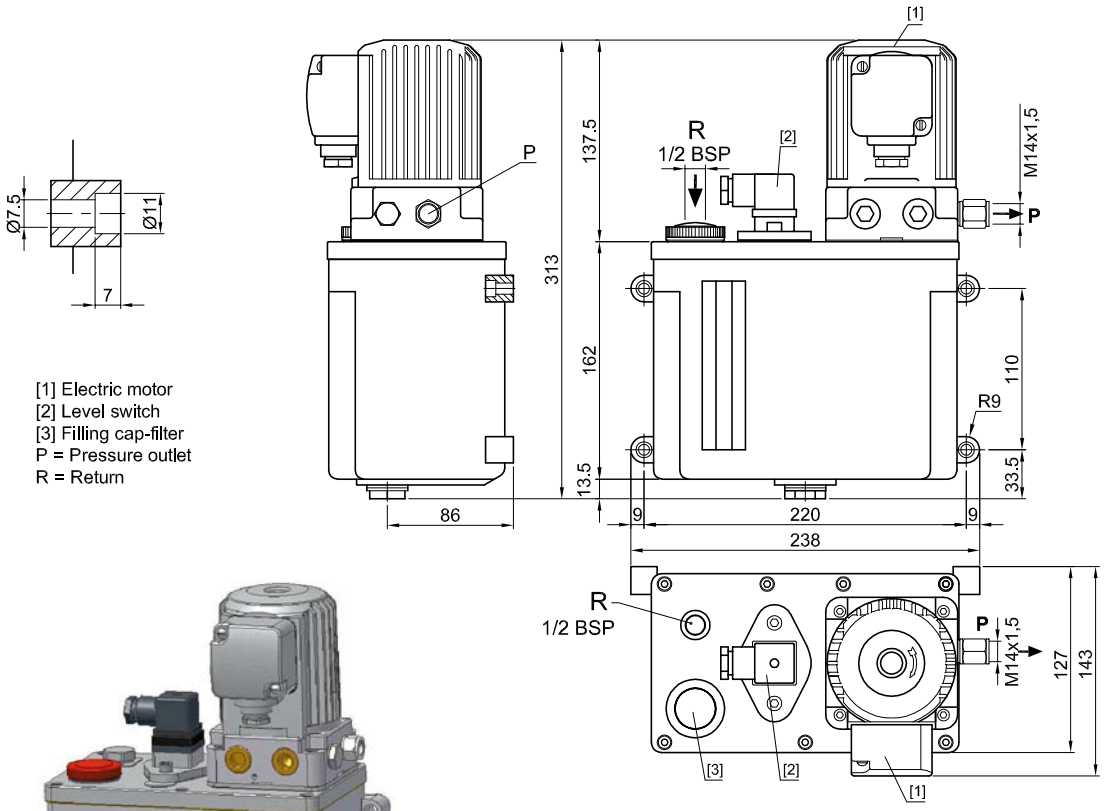
SISTEMAS DE ENGRASE

Lubrication group for **OIL**
Circulating system

GF22/B
3L aluminium
200.500.000



[1] Electric motor
[2] Level switch
[3] Filling cap-filter
P = Pressure outlet
R = Return

GF22 / (X) – 1 – (X) (X) (X) (X)

Tank capacity	Flow l/min	Maximum pressure	Level switch	Voltage
(B) 3 litres	(2) 0,2 (5) 0,5	(1) 6 bar (2) 12 bar (3) 25 bar	(0) Without (5) Minimum level (6) Maximum-minimum level (7) Prealarm+minimum level	(0) 24Vdc (3) 230/400V 50/60Hz
	(7) 1,0	(2) 12 bar		

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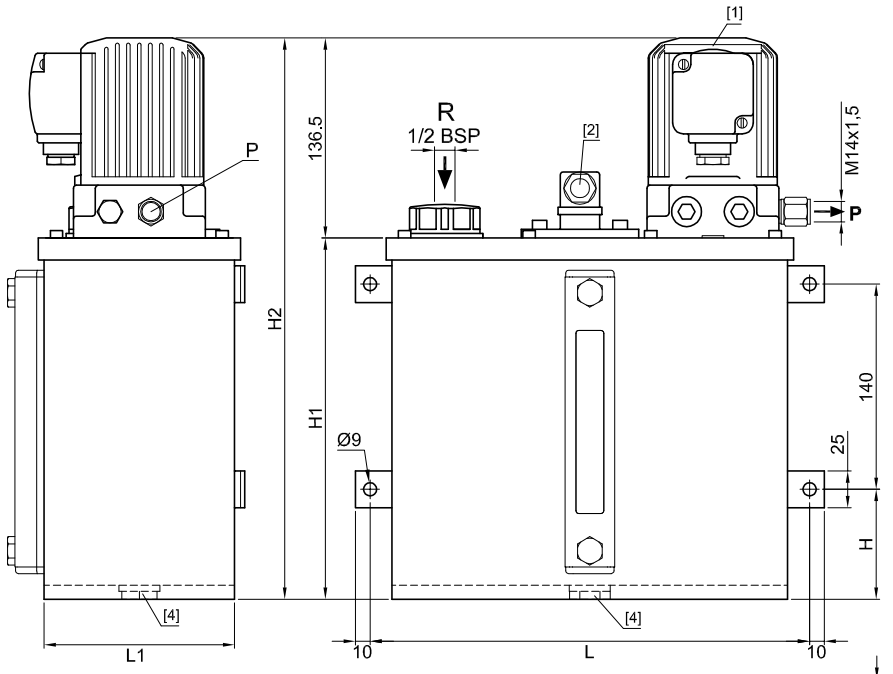
INTZA
SISTEMAS DE ENGRASE

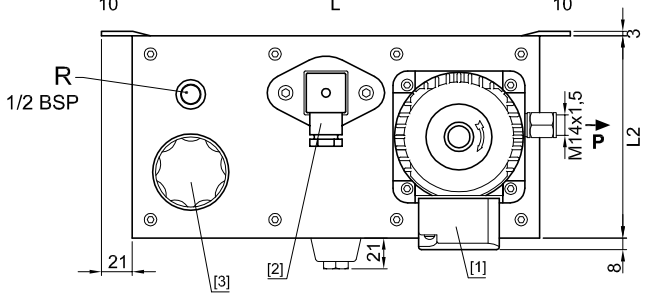
Lubrication group for **OIL**

Circulating system

GF23/C	6L metal	200.600.000
GF23/D	10L metal	200.700.000
GF23/E	16L metal	200.800.000



[1] Electric motor
[2] Level switch
[3] Filling cap-filter
[4] Drain plug
P = Pressure outlet
R = Return



Sizes

Capacity	L	L1	L2	H	H1	H2
6 litros	300	130	138	75	247	385
10 litros	405	155	163	75	247	385
16 litros	405	155	163	155	327	465

GF23 / (X) – 1 – (X) (X) (X) (X)

Tank capacity	Flow l/min	Maximum pressure	Level switch	Voltage
(C) 6 litres	(2) 0,2	(1) 6 bar	(0) Without	(0) 24Vdc
(D) 10 litres	(5) 0,5	(2) 12 bar	(5) Minimum level	(3) 230/400V 50/60Hz
(E) 16 litres	(7) 1,0	(3) 25 bar	(6) Maximum-minimum level	
		(2) 12 bar	(7) Prealarm+minimum level