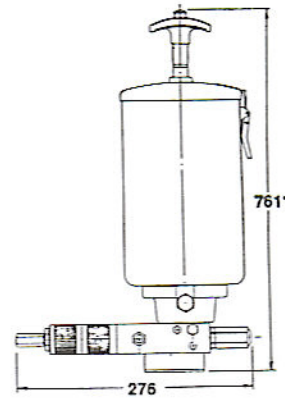


## DOUBLE ACTING HYDRAULIC CONTROL GREASE PUMPS

Pumps of sturdy construction for heavy duty consisting of; steel body, hardened and lapped steel piston and pneumatic driven cylinder housing a light alloy piston equipped with oil resisting rubber gasket.

### TECHNICAL INFORMATION:

**Ratio:** 1:1  
**Driven oil pressure:** 3 MPa (30 bar) (435 psi.) min.  
 15 MPa (150 bar) (2175 psi) max.  
**Adjustable delivery:** from 0,5 to 2 cm<sup>3</sup>. per stroke.  
**Lubricant outlet:** G 1/4 UNI-ISO 7/1  
**Driven inlet, oil:** G 1/4 UNI-ISO 228/1  
**Re-filling valve:** G 1/2A UNI-ISO 228/1



Part No.	Reservoir kg. (lb..)	Lubricant	Height mm. (in.)	Width mm. (in.)	Depth mm. (in.)	Weight kg. (lb..)	Characteristics
3414014	5 (11)	NLGI 1	511/761* (20.1/30.0)	276 (10.9)	192 (7.6)	11,5 (25.4)	With follower plate Without minimum level electric contact.

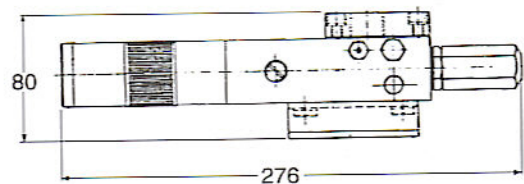
## SINGLE ACTING HYDRAULIC CONTROL PUMPS WITHOUT RESERVOIR

Pump to assemble with special reservoirs or customers' own reservoirs. Equipped with base plate having a hole for the flow inlet with thread G 1/2 UNI-ISO 228/1

**PUMP CODE: 3414004**

### TECHNICAL INFORMATION:

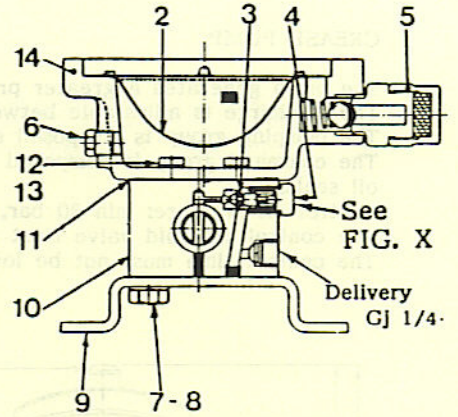
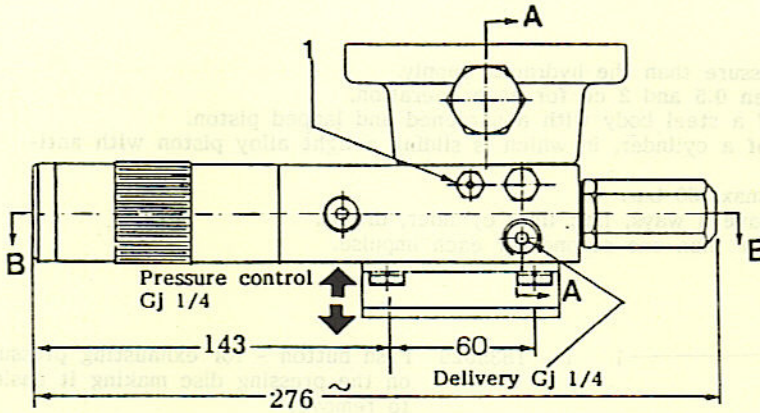
**Ratio:** 4.8:1  
**Driven oil pressure:** 3 MPa (30 bar) (435 psi.) min.  
 6 MPa (60 bar) (870 psi.) max.  
**Adjustable delivery:** from 0,5 to 2 cm<sup>3</sup>. per stroke.  
**Lubricant inlet:** G 1/2 UNI-ISO 228/1  
**Lubricant outlet:** Rp 1/4 UNI-ISO 7/1  
**Driven inlet oil:** G 1/4 UNI-ISO 228/1  
**Weight:** 4,0kg.  
**Width:** 115mm.



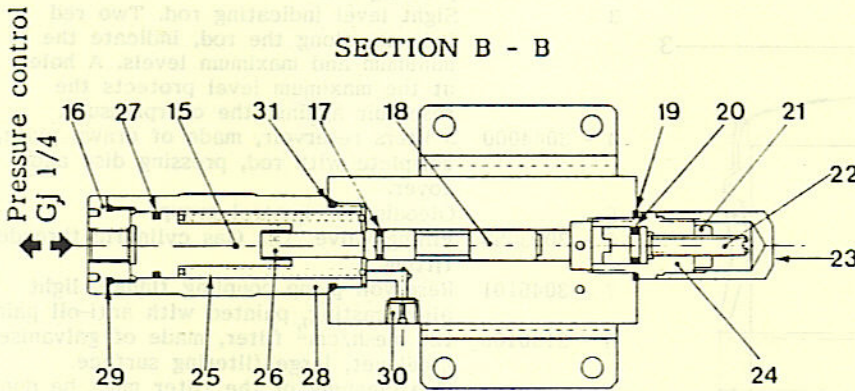
**3414004**



SECTION A - A

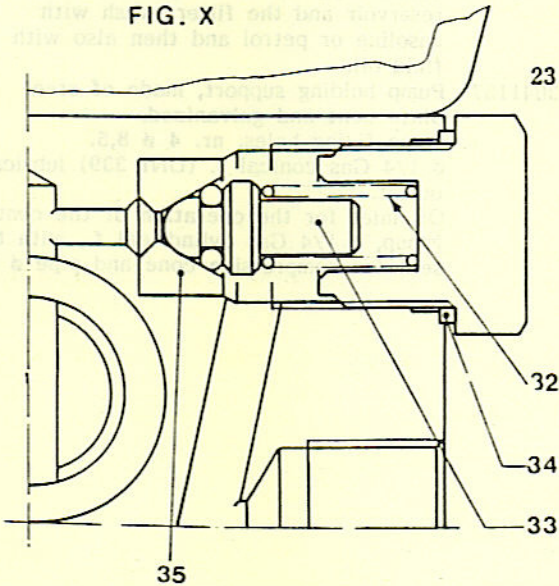


SECTION B - B



- 21 - 16406 Locking nut of the delivery regulator.
- 22 - 3001110 Delivery regulator gudgeon. It changes the delivery from 0.5 up to 2 cc. for operation; the increase of the delivery is obtained by turning the screw anti-clockwise.
- 23 - 3042113 Protective cap for the delivery regulator.

FIG. X







OLEODYNAMIC CONTROL PUMP  
FOR SERIAL LUBRICATION SYSTEM  
RATIO 4.8 : 1

3414012

Pos.	Description	Part No.	Q.ty	Pos.	Description	Part No.	Q.ty
1	Plug (spanner 10)	3230103	1	19	Copper gasket	3190127	1
2	Filter 120 mesh/cm <sup>2</sup>	3130100	1	20	OR seal	18812	1
3	OR seal	18801	1	21	M8 nut	16406	1
4	Plug (spanner 1/4)	3234108	1	22	Pivot	3001110	1
5	Filling valve	3093050	1	23	Cap	3042113	1
6	Plug	91144	2	24	Fitting	3084140	1
7	M8x6 screw TE	11401	2	25	Spring	114011	1
8	Elastic washer	16012	2	26	Pin	16814	1
9	Support	3041157	1	27	OR seal	18830	1
10	Pump body	3072154	1	28	Cylinder	3113105	1
11	Gasket Petrolvis	3190129	1	29	OR seal	61113	1
12	M6x14 screw TC	12696	4	30	Air waste screw	3230991	1
13	Copper gasket	97010	4	31	OR seal	61119	1
14	Reservoir fixing flange	3045101	1	32	Spring	3191100	1
15	Piston	3101121	1	33	Cupheadscrew	3096102	1
16	1/4 G fitting	3234994	1	34	Copper gasket	3190101	1
17	OR seal	18808	1	35	Valve seat	3014102	1
18	Piston	3101104	1				

## MAINTENANCE

### Filter cleaning.

Unhook the hinge of the reservoir, take out the pressing piston (press the push button, whilst pulling the handle); if too high resistance; tilt it aside, in order to make the air inflow between the piston and the grease easier.

Take out the residual grease and the filter 2.

Wash with gasoline or petrol and fluid oil then reassemble.

### Pump cleaning.

Disconnect the delivery pipe and then, in addition to filter cleaning (above), unscrew the plug, 16 the pin 26, taking out the piston 15, paying attention not to damage the seal 27.

Take out the piston 18, inspect its efficiency and the state of the seal 17.

The screws 7 connect the body 10 to the fixing support 9. The access to the valve 33 and the spring 32 is obtained, by taking away the 4 plug.

Clean everything with gasoline or petrol and fluid oil.

Fill up the reservoir with clean lubricant and set the pump to work, until (lubricant comes out from the delivery hole) without air bubbles.

Now the pump is ready to be connected again to the system.