

**GB**

## INSTRUCTIONS FOR LIGHT DUTY BALANCERS



### DECLARATION OF CONFORMITY

We declare under our sole responsibility for manufacture of the product

Type

Serial number

To which this declaration relates is in conformity with the following standard:

Following the provisions of EEC Directives:

### BALANCER

9311 9312 9313

from 000001

to 004999

DIN 15112

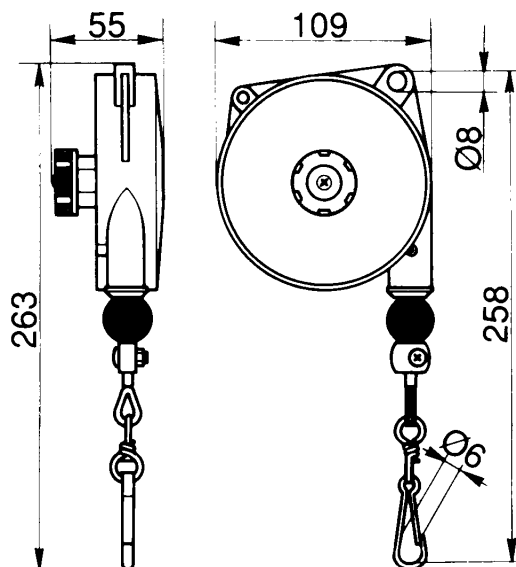
89/392 91/368 93/44 93/68

### CARATTERISTICHE TECNICHE

Table 1

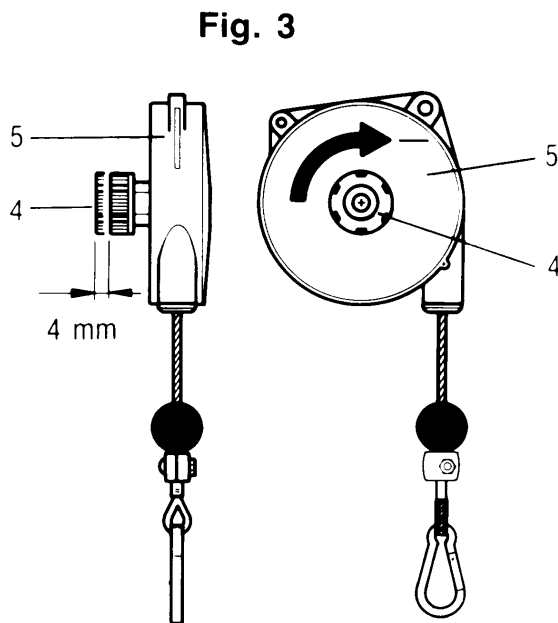
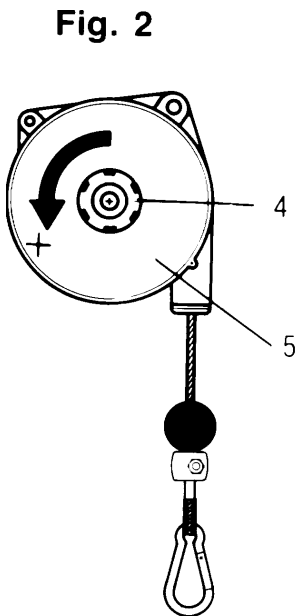
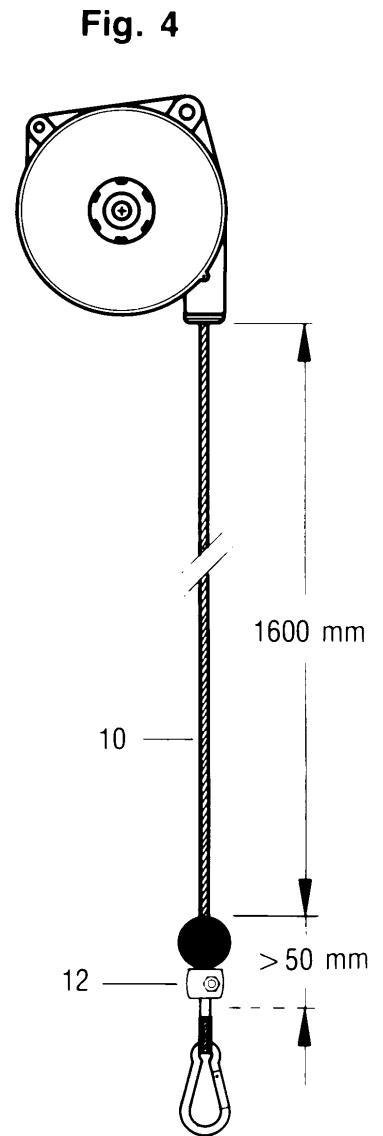
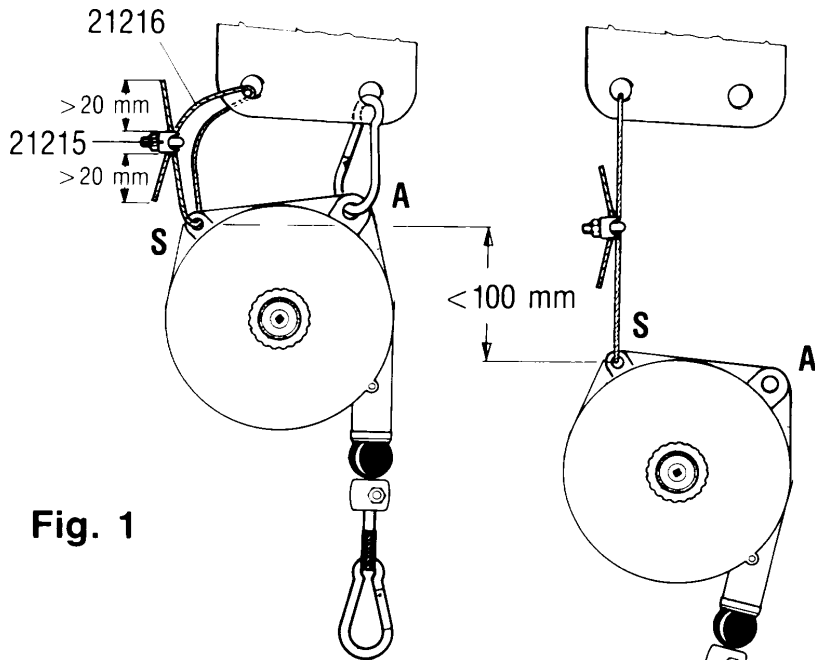
Model	Code	Capacity kg	Weight kg
9311	3999601	0,4-1	0,55
9312	3999602	1-2	0,6
9313	3999603	2-3	0,75

< 70 dB (A)



⚠ **IMPORTANT SAFETY INFORMATION ENCLOSED. READ THIS MANUAL BEFORE OPERATING BALANCER. IT IS THE RESPONSIBILITY OF THE EMPLOYER TO PLACE THE INFORMATION IN THIS MANUAL INTO THE HANDS OF THE OPERATOR. FAILURE TO OBSERVE THE FOLLOWING WARNINGS COULD RESULT IN INJURY**

Safety connections N. 1 21215 and N.1 21216



## **FORESEEN USE**

- Models 9311-9312-9313 light duty balancers are designed to counter-balance the weight of tools.
- OBER. is not responsible for customers using balancers for other applications on which OBER was not consulted.

## **PLACING BALANCER IN SERVICE**

- Always operate, inspect and maintain this balancer in accordance with all regulations referring to balancers, tools and to working places.
- Calculate the total load to balance: tools, accessories and those sections of hose or cable to be lifted by the balancer. The whole load to be balanced must be within the specified capacity range of the chosen balancer.
- **To achieve the best performance, hang the balancer in A at a height which allows the use of the central section of the cable stroke (10)**

⚠ **Always connect by means of the equipment accessories the suspension (s) of the balancer to a support having the proper dimensions. This support MUST NOT BE the same A is connected to. Leave a maximum extra stroke of 100 mm. (DIN 15112).** Pay attention to both the fixing of the accessory cable 21216 which must be carefully doubled leaving a maximum extra stroke of 100 mm, and to the clamp 21215 which must block both the two sections of the double cable. Repeat the tightening of the clamp after the first grasp by means of a suggested torque of 2 Nm; by doing so it is possible to tighten the yielding taking place between cable and clamp during the first locking phase. (see Fig. 1)

⚠ **The balancer must be free to line up with the load.**

- If screwed fasteners are used to connect the balancer at point A and/or point S either self locking systems and/or split pins should be used.
- Hang the load on the hook (14). Do not lubricate balancers with flammable or volatile liquids.
- Do not remove any label. Replace any damaged label.

## **ADJUSTMENTS**

- To increase capacity turn knob (4) counter-clockwise (afterwards, knob (4) must come back into contact with plate (5) (Fig. 2)
- To reduce capacity, pull out knob (4) and turn it clockwise (afterwards, knob (4) must come back into contact with plate (5) (Fig. 3).
- During working the cable must not unwind its total length. It must stop at least 50 mm before the lower limit of the stroke (Fig. 4). If necessary move and lock clamp (12) to limit the upwards stroke.

## **USING THE BALANCER**

- When the balancer with its load is installed, check that working conditions are correct (smooth movement with minimum effort).
- For a correct and safe use periodically check the status of the upper attachments A and S (if screws are used, the status of self locking systems and/or split pins should be checked).

⚠ **Periodically check that parts under strain ((hook, cable, balancer suspension parts and connections to the tool) are safe and not weakened by wear.**

## **MAINTENANCE**

The balancers are designed for not requiring maintenance during all the operative life. Nevertheless, if a special hard use requires it, **before touching the balancer inside, carefully check that the drum-spring assembly (7) is unloaded.**

⚠ **The spring is the only dangerous component of the balancer and it is kept inside the drum (7) already lubricated for all its life terms. The spring-drum assembly spare part (7) is supplied already assembled and the spring must in no case be taken out. The use of other than OBER replacements parts may result in safety hazards, decreased performance and increased maintenance, and may invalidate all warranties.**

⚠ **When the life of the balancer has expired, it must be either removed or recycled according to the present regulations. Don't disassemble the spring assembly (7) as this operation brings some risks.**

**Save these instructions for all the balancer life.**