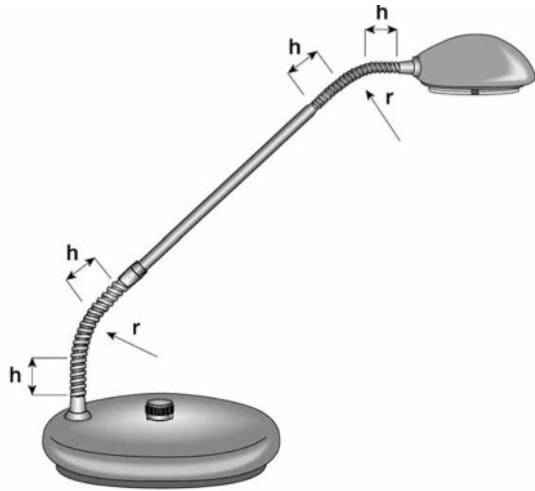


## Raw Flexible Gooseneck Arm:

SAFETY INSTRUCTIONS AND PRESCRIPTIONS FOR PROPER USE WARNINGS, STORAGE AND ENVIRONMENTAL CONDITIONS



### Flexible Flexible tube

$\varnothing/mm$	$r/^\circ$	$h/mm$
4	25	10
5	30	10
6	30	10
8	40	10
8,5	42	10
10	50	20
10,5	52	20
11	55	20
12	60	20
13	65	30
14	70	30
15	75	40
18	90	50

$r$  = Minimum recommended radius of curvature.

$h$  = Minimum recommended distance between mounting and bending points.

### Warning:

Contact with oils or similar substances adversely affect the functionality of the flexible tube.

The Isoflex **flexible gooseneck arm** (i.e. FLEX) is a **mechanical component** of much more complicated finished products which must meet the legal regulations in force. It has however its own specific characteristics, properties and performances. Since the final application of our flexible arm is almost always unknown, our website contains some significant infos useful for the design, use, safety and storage of our product. Users shall consider such information when designing or using their own products.

**Operating principle.** The flexible tube is a flexible arm able to keep its position without yielding or vibrating and whose operation is based on frictions developing between the inner spiral metal and the outer covering. The surface application of paints, galvanic treatments, heatshrinkable sleeves, textiles etc. is to be understood as an aesthetical and functional improvement of the product itself always keeping in mind the mechanical properties of the flexible tube since surface finishings could damage it or being damaged from this latter.

### WARNINGS:

- avoid contact with any kind of solid, liquid or gel lubricating substance (oils, soaps, talcum powder, graphite etc.) since they could cause the structural yielding of the product as well as the contact with water or liquids would damage it causing oxidation etc.;
- any kind of cleaning or air pressure blowing need to be oil or lubricant free otherwise the product would be definitely damaged (eliminating the friction between the metal surfaces). It is strictly FORBIDDEN to use lubricated air pressure;
- insulate the electric wires from metal or metallic dust since friction between the two FLEX metallic components slowly produces a microscopic conductive dust which is electrically conductive both inside and outside;
- take preventive measures to avoid burns and electric contact; the FLEX metal can conduit both electricity and heat.

### Use, maintenance and storage:

- clean the flexible tube only with a dry cloth;
- the flexible gooseneck arm functioning is based on the metal friction between two metal parts (spring and covering) and it is normal to find internally traces of metal powder dust produced during its working life. This natural phenomenon cannot be prevented or eliminated. The Client is therefore obliged to look after the correct safety measures or process corrections (like cleaning by dried air pressure or electrical insulation etc.) depending on the final application regulations to meet;
- carry out any galvanic or painting treatment with the FLEX in vertical position, not bent since this would irreparably damage the FLEX mechanics;
- don't exceed the 140° C temperature limit for No. 1 cycle of max. 30 minutes for surface treatments;
- respect the load limits stated in the charts of the technical sheets;
- respect the below stated limits of the minimum bending radius and distance from the fixing point of joints;
- respect the application limits at room temperature ranging between +5°C and +40°C and relative humidity not higher than 60%;
- always use FLEX at dry conditions so don't get in touch with any kind of water or liquids since they would cause oxidation or other chemical reactions which inevitably damage the product properties;
- store the FLEX products at constant temperature and at the lowest humidity rate however never higher than 50% to avoid condensation which would damage it. N.B.: the above prescriptions are valid even for finished or semifinished products using our FLEX as component.

### Warranty:

- the FLEX product is submitted to destructive tests with bending sequences always in the same point not lower than 50,000 and up to 150,000 cycles, according to the product types to check the declared functions;
- the product is delivered according to the technical drawings and resistance characteristics required for each single item and it is guaranteed for 4 months from the shipping date;
- any claim shall be sent to Isoflex in writing together with some explanatory technical proof. Such claims will be accepted provided that the product is in the same condition as originally delivered and packed, properly stored without any additional change and/or processing. Faulty pieces can be sent back to Isoflex only upon previous written authorization by this latter.
- warranty automatically expires should the above given prescriptions not be observed and if the FLEX product has been modified, changed, improperly stored, submitted to treatments or in any way used in a WRONG manner;
- it is to be pointed out that since the flexible tube is a mechanical component, Isoflex is not aware of its final application. Therefore any necessary law fulfilment shall be carried out by the customer whereas Isoflex is always ready to give any further information.