



# Instructions for the safe use of Flints Hanging Clamps

The information in this leaflet should be passed to  
the user of the equipment

This document is issued in accordance with the requirements of Section 6 of the Health and Safety at Work Act 1974, amended March 1988.

These instructions apply to Flints Hanging Clamps with Codes FHS002HCR, FHS002HC and FHS002LHC

## Working Load Limits

**FHS002HCR 150kg\***

**FHS002HC 550kg\***

**FHS002LHC 550kg\***

\*Reduce WLL by 50% if plates are more than 10mm apart.

## Use for which the article is designed

Flints Hanging Clamps have been designed for the flying of conventional steel or aluminium flying bars in the indoor theatre environment. It is assumed the flying bars are flown using standard theatre counterweight or hemp systems or power flying systems fitted with soft starts. The fittings may also be used as an attachment point for suspending lines from trussing. The use of the fittings for any other purpose would be inappropriate. The fittings should be fitted to the tube by a competent person familiar with the theatre environment.

## Always

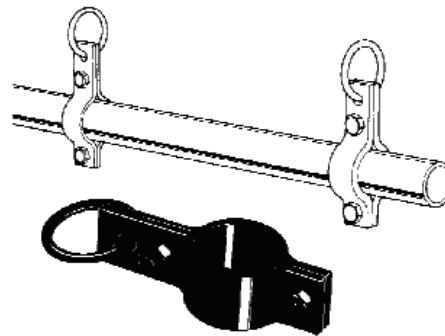
- ✓ Store the fittings in a area which is dry, clean and protected from corrosion.
- ✓ Inspect the fittings before putting into use or before being placed into storage. Any fittings found to be faulty should be marked as such and taken out of service and destroyed.
- ✓ Ensure fittings are selected and fitted by a competent person.
- ✓ Ensure the fittings are used in such a way that the failure of any one fitting would not lead to a dangerous situation.
- ✓ Ensure any fitting subjected to excessive load by way of shock loading or any other means is immediately removed from service and marked for destruction.
- ✓ Follow the fitting instructions with particular regard to tube size and the distance between the matching halves.
- ✓ Ensure the load is applied in the direction as stated in the instructions.
- ✓ Ensure the fittings are thoroughly inspected by a competent person at six monthly intervals or after any exceptional circumstance or according to an examination scheme.
- ✓ Individually mark the fittings and record their details together with the EC Declaration of Conformity.

## Never

- ✗ Exceed the working load limit.
- ✗ Subject fittings to shock loads.
- ✗ Never use a fitting which is bent, modified in an unapproved manner, stretched, has nicks, gouges or cracks, has signs of heat or burning, or signs of corrosion.
- ✗ Apply a load without ensuring any shackles or rigging screws are correctly aligned.

## Selection of Correct Fitting

Choose type FHS002HC or FHS002HCR for barrel diameters of 45mm to 55mm. Choose FHS002LHC for gas barrel 60.3mm diameter. Only use the Hanging Clamp with Ring (FHS002HCR) for hand hauling light-weight bars such as aluminium flying bars with cloths for all other purposes choose the Hanging Clamps requiring a shackle (FHS002HC or FHS002LHC).



## Correct Fitting

Hanging Irons should be attached to the tube using the Grade 8.8 hexagonal M10 bolts, washers and Nylon insert nuts provided. Some bolt thread should be visible after the Nylon

insert nut has been tightened. To obtain the stated Working Load Limit the distance between the plates should not exceed 10mm. If the gap is greater than 10mm the WLL should be reduced by 50%. The top hole is 13mm diameter and is designed to take a 1t or 1.5t US Fed Spec or equivalent shackle. A minimum of three lines should be used on a flying bar. Before flying out carefully inspect any tube joiners in use along the bar to ensure they are correctly fitted and preferably through bolted.

**Safe Use** The load should be applied vertically in line with the Hanging Clamps. Bridles may be employed but the angle subtended between the wire and the vertical should not exceed 45° and the bridle must be along the axis of the flying bar. Before applying a load ensure any shackles and rigging screws are correctly aligned. Care should be taken during flying to avoid shock loads which may arise due to wires becoming slack if a piece of scenery becomes caught on a fixed object while flying in.

**In Service Inspection and Maintenance** The fittings should be kept clean and free of corrosion. They must be inspected every six months or after any exceptional circumstance or according to an examination scheme drawn up by a competent person. Inspect for illegible markings, distortion, wear, stretched or bent clamps or rings, nicks, gouges, cracks, corrosion, heat marks or any other defect. If in doubt replace the fitting or seek further advice.



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