

# **FLEX DROP**

**FLEXIBLE SPRINKLER DROPPER'S**  
**by Yong Won ENC Ltd.**

**MONSHER**  
(INDIA) SAFETY EQUIPMENTS PVT. LTD.  
*We perform. You deliver.*



When you want to sprinkle some safety on yourself, there's only one name to turn too.

We take great pride in our flexible approach to your needs. That's why we're proud to present Flex Drop, a unique fire sprinkler drop assembly that consists of 4 components:

- A stainless steel braided or unbraided corrugated hose
- A sprinkler reducer
- A light weight bracket
- A caring bar

Flex Drop can be easily installed without machines and power tools in all standard ceilings and side walls. It is perfectly suited for residential, commercials, multiplexes, resorts, malls, retail and industrial projects.

Flex Drop replaces the conventional method of fitting the sprinkler head by allowing the fitter to rough in and fit off at the same time. This allows the fitter to test and charge the system with water before the ceiling grid is installed. Once the ceiling grid is in position, Flex Drop can be shaped into position to suit the final sprinkler head location without needing to drain the system.

Flex Drop can be installed in both new and tenancy installation fit outs in all applications, particularly in time-consuming and awkward ceilings where conventional installation methods face problems.



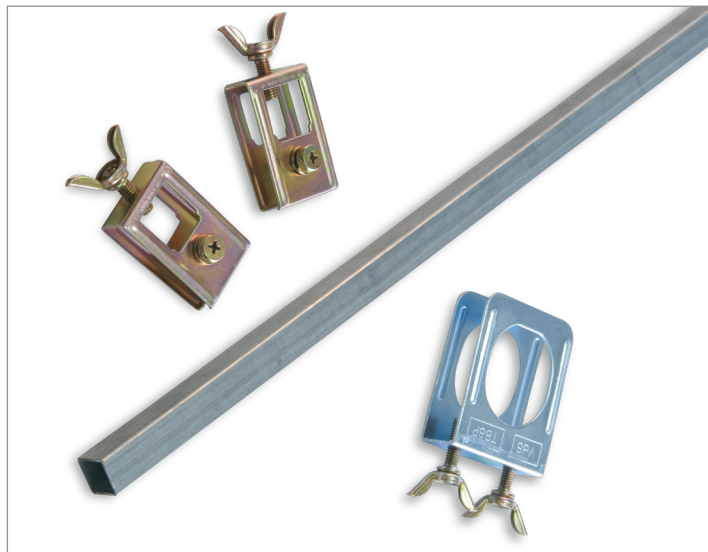
Flex Drop has been used and appreciated in several prestigious locations around the world like:

- **Taipei 101, the tallest building in the world**
- **New York Stock Exchange**
- **Macy's Departmental Store**
- **The Verizon building**
- **Key airports and subways in Singapore, Korea and Australia**

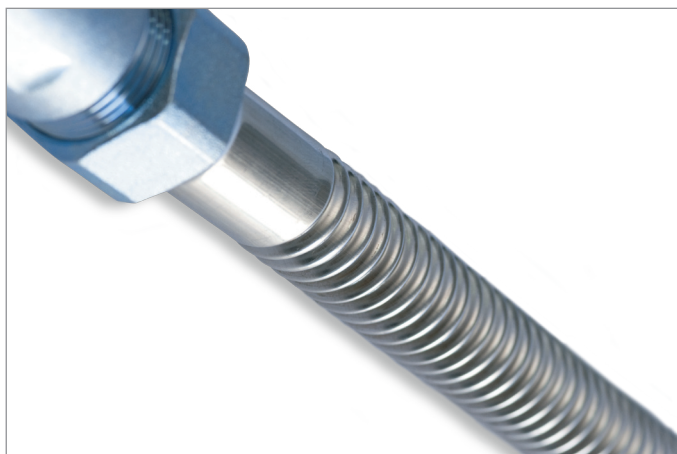
Flex Drop is approved by UL & FM, VDS in Germany, LPCB in the UK, and SSL in Australia. Its manufacturing facility in Korea has ISO 9001 approval.

### Advantages

- **Economy** – Savings as labour costs, as there is no need of equipment, machines and power tools.
- **Time saving** – Installation is 4 times faster compared to traditional hard pipe installations.
- **Safety** – There is less risk of water damage as once water is charged in rough-in stage, draining isn't necessary. Also, not using machines means no noises, fumes, smoke and accidents.
- **Convenience** – Elimination of work inconvenience, as it is easier to bend and manoeuvre in a congested space and adjustments can also be made easily.



COMPONENTS



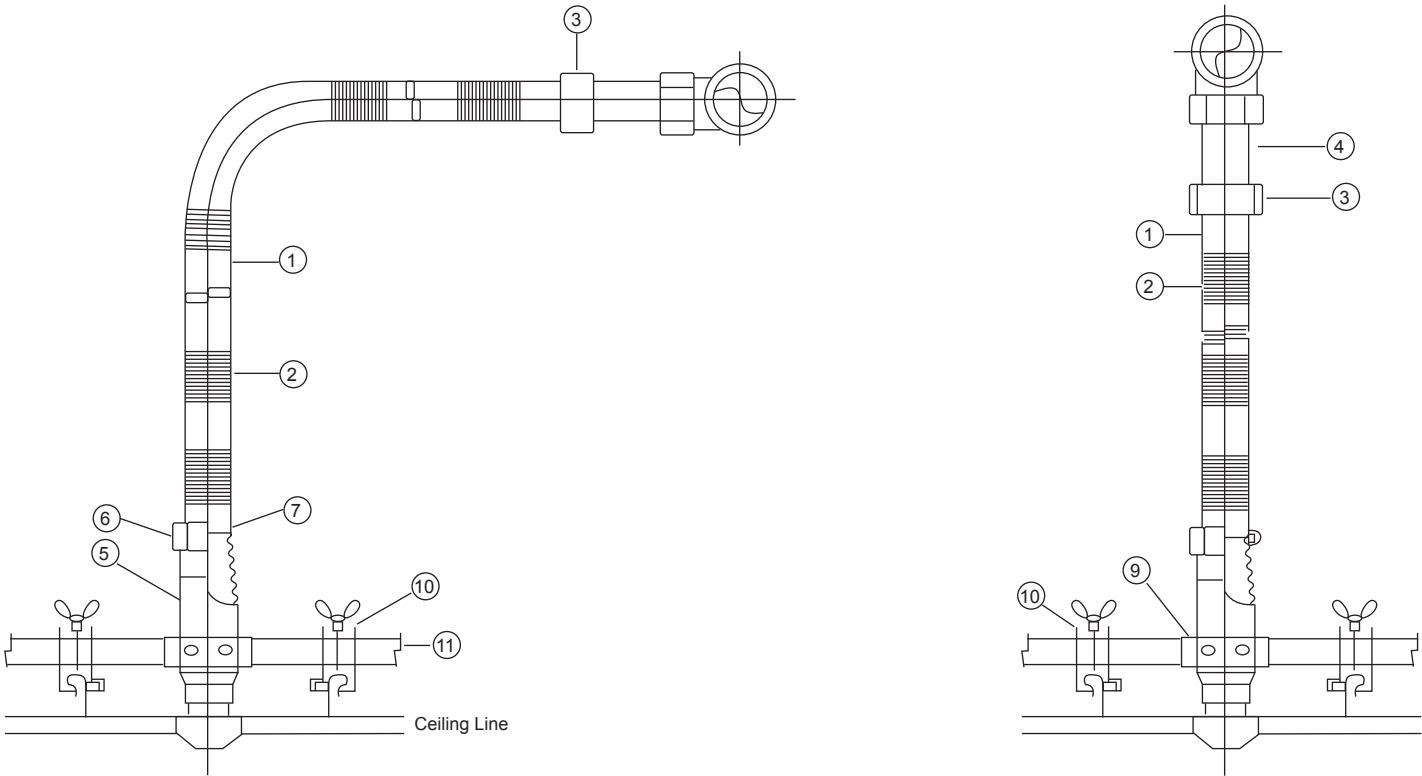
UNBRAIDED



BRAIDED

Specifications

Inlet connection	: DN25, Male BSP or NPT thread
Outlet connection	: 1/2" or 3/4" Female NPT thread
Internal diameter	: 25mm or 28mm
Hose length	: 700mm (28"), 1000mm (40"), 1200mm (47"), 1500mm (59"), 1800 (71") and other lengths provided on request
Bar length	: 700mm (28"), 1000mm (40"), other lengths also available
Working pressure	: 175psi (12.1bar)



Model no.	Finish	Length (mm)	Equivalent length straight (m)	Equivalent length 90° bend (m)	Approvals
YN250700	Un-braided	700	7.60	7.60	UL, LPCB
YN251000	Un-braided	1000	10.35	17.08	UL, LPCB
YN251200	Un-braided	1200	12.19	23.40	UL, LPCB
YN251500	Un-braided	1500	15.24	29.25	UL, LPCB
YB280700	Braided	700	3.00	5.18	UL, FM, VDS, SSL
YB281000	Braided	1000	4.67	6.64	UL, FM, VDS, SSL
YB281200	Braided	1200	5.79	7.62	UL, FM, VDS, SSL
YB281500	Braided	1500	7.24	9.53	UL, FM, VDS, SSL

\*YN25 & YN28: Unbraided type, UL listed  
YB25 & YB28: Braided type, UL listed, FM approved

YN25 & YB25 have the same equivalent length  
YB28 & YB28 have the same equivalent length

## Installation instructions

- Determine the approximate place where the sprinkler head will be located. The maximum distance between ceiling grid centreline is 60 inches (1500mm). The sprinkler should be located as close as possible to the centre of the distance between ceiling beams.
- Slide the sprinkler reducer (5) on the bracket (9). Loosely attach the bracket (9) and the two clamps (10) on the bar (11) and place the clamps on the ceiling head so that the bar crosses the location where the sprinkler head will be.
- Attach the nipple to the branch line. Tighten carefully, applying the wrench to the fitting only and not to the braiding. Do not twist the flexible tube assembly.
- Bend the flexible hose assembly and insert reducer fitting into the bracket. The minimum bending radius is 2 inches (55mm), but the arc should be as large and smooth as possible. Loosely tighten the butterfly bolt on the bracket.
- Attach the sprinkler head to the reducer fitting. Put a wrench on the reducer fitting to counteract the tightening torques and prevent the flexible tube from twisting and tighten the sprinkler head to maximum torque of 58ft-lb.
- Verify that the reducer fitting is seated in the bracket and precisely locate the sprinkler head in all three axes in accordance with manufacturer's instructions.
- Tighten the butterfly bolt on two clamps and the bracket. After tightening all the bolts, verify that the sprinkler head is still properly located in accordance with the manufacturer's instructions. If not, loosen the butterfly bolts and readjust as required.

