

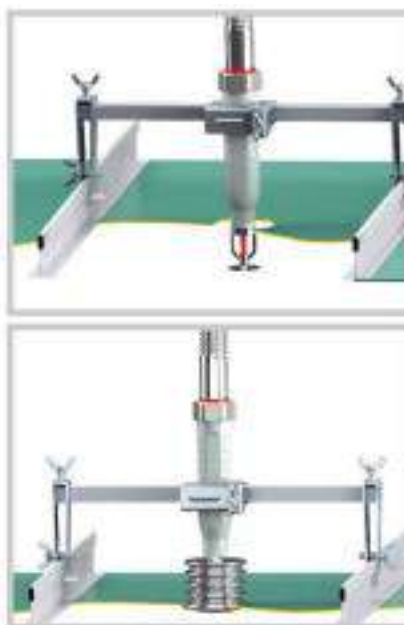
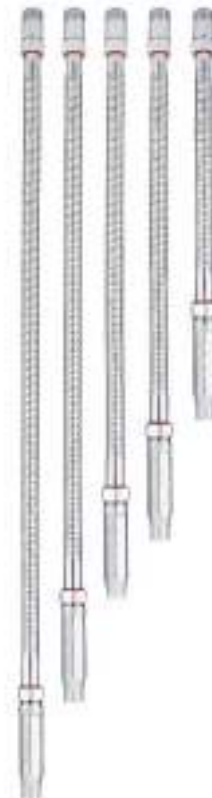
Overview

LIFECO stainless steel hose fittings provide a unique solution for the fire-fighting sprinkler industry. Manufactured in corrosion-resistant AISI Grade 304 stainless steel corrugated high-flexibility tube, these assemblies feature high-integrity O-ring seals and high-performance durability and reliability.

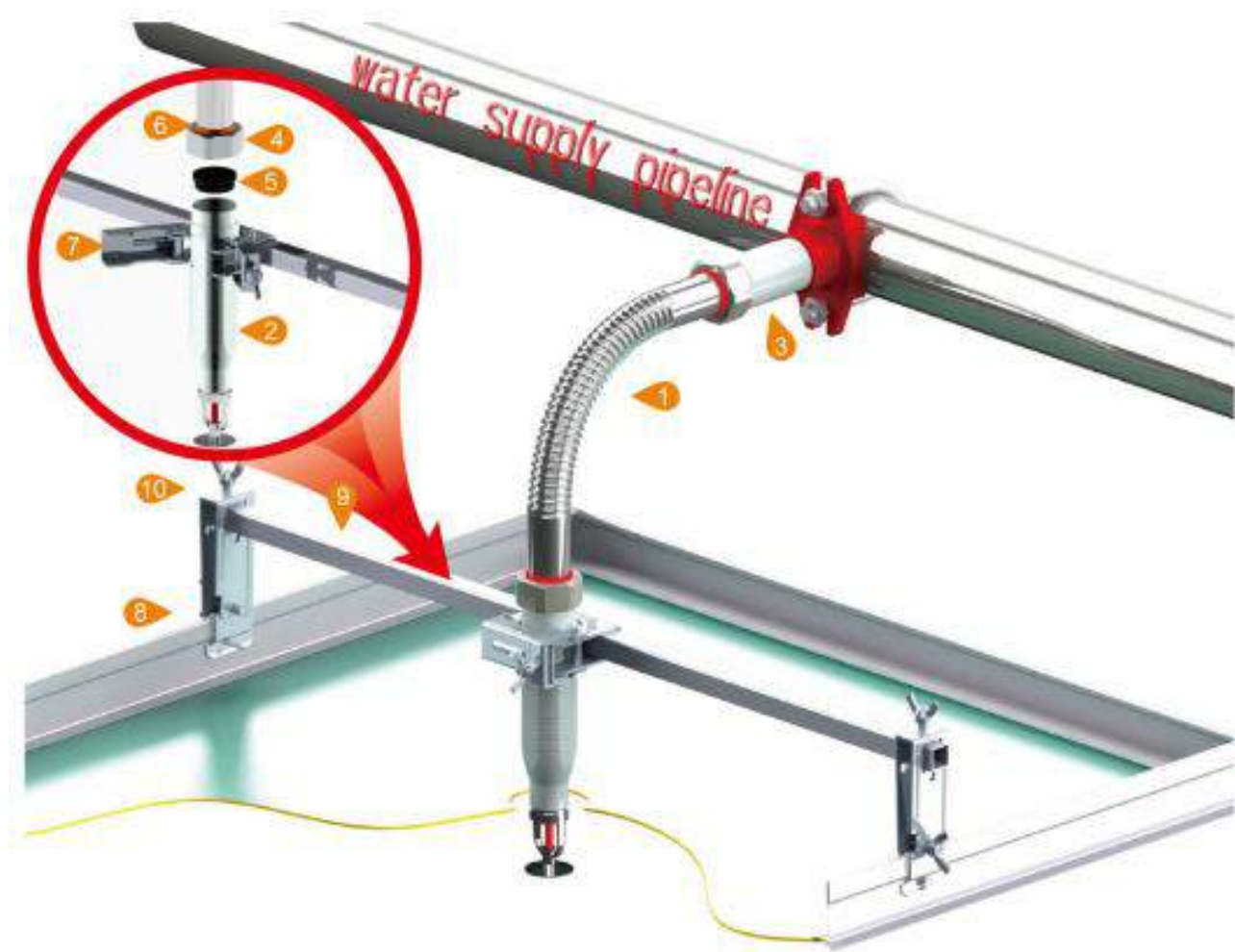
For ease of installation, LIFECO hose assemblies are supplied complete with a custom-designed lightweight galvanized bracketing system, ensuring a quick, safe, and cost-effective installation on every project.

Features & Advantages

- **Safe & Reliable:** 100% leak tested prior to leaving the factory. Rated working pressure of 14 bar (204 psi) with a burst test pressure of 70 bar (1015 psi).
- **Efficiency:** 10 times faster installation compared to traditional steel pipe threaded connections.
- **Flexibility:** Can be re-shaped or relocated to suit final sprinkler locations on ceiling tiles without draining the system.
- **Seismically Prepared:** In the event of an earthquake, the stainless steel hoses absorb seismic shock, helping the sprinkler system maintain normal operation.
- **High Rigidity:** Supporting square bars feature a true 1.20mm (3/64") thickness, providing superior structural rigidity to stabilize the sprinkler head.



Structure & Material Specifications



Ref No.	Description	Material
1	Corrugated Tube (Braid & Collar-rings*)	AISI 304 Stainless Steel
2	Discharge Nipple (Straight/Elbow)	Galv. Steel ASTM 1020
3	Inlet Nipple	Galv. Steel ASTM 1020
4	Hexagon Slip Nut	Galv. Steel ASTM 1020
5	Gasket	EPDM
6	Isolation Ring	Nylon 66
7	Center Bracket	Galv. Steel ASTM A283 Gr. D
8	Side Bracket	Galv. Steel ASTM A283 Gr. D
9	Square Bar	Galv. Steel ASTM A283 Gr. B
10	Bolts & Screws	Galv. Steel ASTM A283 Gr. D
*Braid exists in LF-BTS/LF-BTE and LF-BXTS series only.		



Technical Specifications - Style LF-UTS (Unbraided)

Description: Unbraided hose with straight nipple.

Approvals: UL Listed.

Hose Diameter: O.D. 26.8mm (1-1/16") | Flow: 22.5mm (7/8")



LIFECO Model	Hose Length	Sprinkler Thread	Max No. 90° Bends	Min. Bending Radius	EQL of 1" Pipe
LF-UTS0712	700mm	1/2"	2	100mm	8.2m
LF-UTS1012	1000mm	1/2"	3	100mm	11.3m
LF-UTS1212	1200mm	1/2"	3	100mm	14.9m
LF-UTS1512	1500mm	1/2"	4	100mm	19.2m
LF-UTS1812	1800mm	1/2"	4	100mm	23.8m
LF-UTS0719	700mm	3/4"	2	100mm	8.5m
LF-UTS1019	1000mm	3/4"	3	100mm	12.5m
LF-UTS1219	1200mm	3/4"	3	100mm	14.3m
LF-UTS1519	1500mm	3/4"	3	100mm	19.5m
LF-UTS1819	1800mm	3/4"	4	100mm	24.4m

Technical Specifications - Style LF-BTS / LF-BTE (Braided)

Description: Braided hose with straight nipple (LF-BTS) or elbow nipple (LF-BTE).

Approvals: UL Listed & FM Approved.

Hose Diameter: O.D. 26.8mm (1-1/16") | Flow: 21.0mm (13/16")



LIFECO Model	Length	Thread	Approval	EQL (Straight)	EQL (Elbow)
LF-BTS0712	700mm	1/2"	UL+FM	8.1m	-
LF-BTE0712	700mm	1/2"	FM	-	7.6m
LF-BTS1012	1000mm	1/2"	UL+FM	12.9m	-
LF-BTE1012	1000mm	1/2"	FM	-	10.1m
LF-BTS1212	1200mm	1/2"	UL+FM	16.2m	-



LF-BTE1212	1200mm	1/2"	FM	-	11.9m
LF-BTS1512	1500mm	1/2"	UL+FM	20.6m	-
LF-BTE1512	1500mm	1/2"	FM	-	15.2m
LF-BTS1812	1800mm	1/2"	UL+FM	25.1m	-
LF-BTE1812	1800mm	1/2"	FM	-	17.7m
LF-BTS0719	700mm	3/4"	UL+FM	8.0m	-
LF-BTE0719	700mm	3/4"	FM	-	6.4m
LF-BTS1019	1000mm	3/4"	UL+FM	12.4m	-
LF-BTE1019	1000mm	3/4"	FM	-	11.0m
LF-BTS1219	1200mm	3/4"	UL+FM	15.4m	-
LF-BTE1219	1200mm	3/4"	FM	-	13.1m
LF-BTS1519	1500mm	3/4"	UL+FM	19.3m	-
LF-BTE1519	1500mm	3/4"	FM	-	15.2m
LF-BTS1819	1800mm	3/4"	UL+FM	22.9m	-
LF-BTE1819	1800mm	3/4"	FM	-	19.2m

High Flow & Specialized Solutions

Style LF-BXTS / LF-BXTE / LF-BXGS (High Flow)

Enlarged inner flow diameter up to 1" (25.4mm). Suitable for up to 1" dry pendent sprinkler connections.

Approvals: UL Listed & FM Approved.

Hose Diameter: O.D. 35.0mm (1-3/8") | Flow: 26.0mm (1")



LIFECO Model	Length	Thread	Approval	EQL (Straight)	EQL (Elbow)
LF-BXTS0712	700mm	1/2"	UL+FM	8.5m	-
LF-BXTE0712	700mm	1/2"	FM	-	4.9m
LF-BXTS0719	700mm	3/4"	UL+FM	8.5m	-
LF-BXTE0719	700mm	3/4"	FM	-	4.7m
LF-BXTS0725	700mm	1"	UL+FM	8.5m	-
LF-BXTS1012	1000mm	1/2"	UL+FM	11.3m	-
LF-BXTE1012	1000mm	1/2"	FM	-	7.4m
LF-BXTS1019	1000mm	3/4"	UL+FM	11.3m	-
LF-BXTE1019	1000mm	3/4"	FM	-	7.2m
LF-BXTS1025	1000mm	1"	UL+FM	11.3m	-

LF-BXTS1212	1200mm	1/2"	UL+FM	17.5m	-
LF-BXTE1212	1200mm	1/2"	FM	-	9.0m
LF-BXTS1219	1200mm	3/4"	UL+FM	17.5m	-
LF-BXTE1219	1200mm	3/4"	FM	-	8.8m
LF-BXTS1225	1200mm	1"	UL+FM	17.5m	-
LF-BXTS1512	1500mm	1/2"	UL+FM	23.1m	-
LF-BXTE1512	1500mm	1/2"	FM	-	11.5m
LF-BXTS1519	1500mm	3/4"	UL+FM	23.1m	-
LF-BXTE1519	1500mm	3/4"	FM	-	11.3m
LF-BXTS1525	1500mm	1"	UL+FM	23.1m	-
LF-BXTS1812	1800mm	1/2"	UL+FM	24.5m	-
LF-BXTE1812	1800mm	1/2"	FM	-	14.0m
LF-BXTS1819	1800mm	3/4"	UL+FM	24.5m	-
LF-BXTE1819	1800mm	3/4"	FM	-	13.8m
LF-BXTS1825	1800mm	1"	UL+FM	24.5m	-

All Accessories & Spare Parts

Category	LIFECO Model	Description
Inlet Nipples		
	LF-13101	Inlet nipple 1" NPT
	LF-13201	Inlet nipple 1" BSPT
	LF-13131	Inlet nipple 1-1/4" NPT
	LF-13231	Inlet nipple 1-1/4" BSPT
	LF-13111	Inlet nipple 1/2" NPT
	LF-13211	Inlet nipple 1/2" BSPT

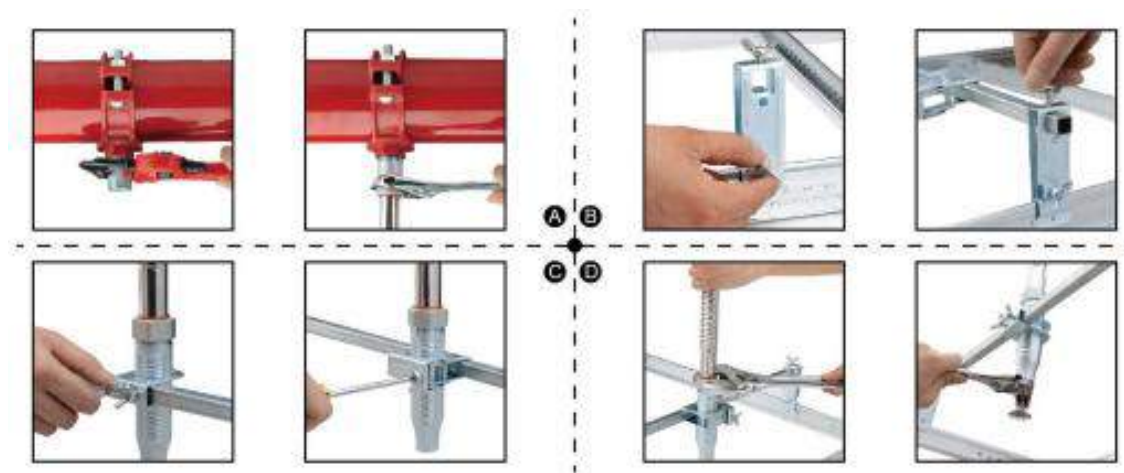
Reducers		
	LF-13102	Straight reducer 1/2" NPT
	LF-13202	Straight reducer 1/2" BSPT
	LF-13103	Straight reducer 3/4" NPT
	LF-13203	Straight reducer 3/4" BSPT
	LF-13109	Straight reducer 3/8" NPT
	LF-13209	Straight reducer 3/8" BSPT
	LF-13110	Straight reducer 1" NPT
	LF-13210	Straight reducer 1" BSPT
	LF-13104	90° Elbow reducer 1/2" NPT
	LF-13204	90° Elbow reducer 1/2" BSPT
	LF-13105	90° Elbow reducer 3/4" NPT
	LF-13205	90° Elbow reducer 3/4" BSPT
	LF-13112	Long reducer 1/2" NPT (254mm/10")
	LF-13212	Long reducer 1/2" BSPT (254mm/10")
	LF-13132	Sidewall reducer 1/2" NPT
	LF-13232	Sidewall reducer 1/2" BSPT

Cast Elbows		
	LF-13137	Cast elbow short 1/2" NPT (85mm)
	LF-13237	Cast elbow short 1/2" BSPT (85mm)
	LF-13138	Cast elbow short 3/4" NPT (85mm)
	LF-13238	Cast elbow short 3/4" BSPT (85mm)
	LF-13147	Cast elbow long 1/2" NPT (115mm)
	LF-13247	Cast elbow long 1/2" BSPT (115mm)
	LF-13148	Cast elbow long 3/4" NPT (115mm)
	LF-13248	Cast elbow long 3/4" BSPT (115mm)
Brackets		
	LF-12120	Center bracket 2 bolts (hex)
	LF-12140	Center bracket 2 bolts (wing)
	LF-12220	Fast center bracket (hex)
	LF-12240	Fast center bracket (wing)
	LF-12320	Easy-Snap C. bracket

	LF-12280	Fast center bracket (sidewall/rod)
	LF-12110	Side bracket 60mm (hex)
	LF-12130	Side bracket 60mm (wing)
	LF-12210	Side bracket 102mm (hex)
	LF-12230	Side bracket 102mm (wing)
	LF-12410	C-clamp (hex screw)
	LF-12430	C-clamp (wing screw)
	LF-12310	Furring channel bracket
	LF-12510	B-shape side bracket

Bars		
	LF-12101	Square bar 25"
	LF-12104	Square bar 40"
	LF-12102	Square bar 50"
	LF-12103	Square bar 55"

Installation & Bending Guidelines



Installation Options:

- T-bar grid ceiling system (Regular and Concealed).
- Wood stud / Metal joist using Long Side Brackets.
- Furring channel and C-beam systems.
- Wall/Isolation board penetration.

Bending Rules:

- OK: Bend radius is GREATER than or EQUAL to the minimum specified.
- NO: Bend radius is SMALLER than the minimum specified.
- Fatigue: Proven for 100 cycles of fatigue/bending (50,000 cycles for braided series).

TECHNICAL SPECIFICATION



Installation on T-bar grid ceiling system,
one solution for regular pendent and
concealed sprinklers



Installation on wood stud with Long
Side Bracket



Installation on furring channel system



Installation on C-beam ceiling system



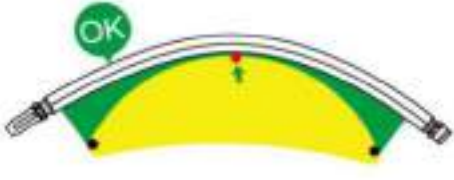
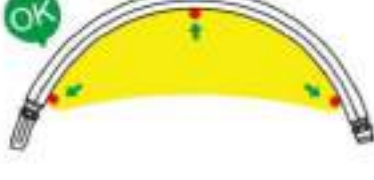
Wall / isolation board penetration solution



Short elbow + short side bracket to
reduce installation clearance to
minimum 145mm

Use LIFECO Radius Gauge to Check Hose Bend

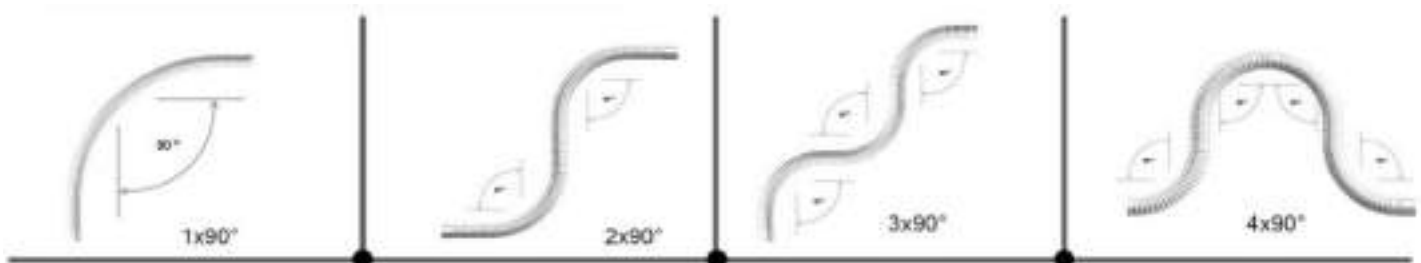
Use outer edge check unbraided hoses

		
GREATER than ✓	EQUAL to ✓	SMALLER than ✗

Use inner edge check braided hoses

		
GREATER than ✓	EQUAL to ✓	SMALLER than ✗

HOSE BENDING, CORRECT or WRONG?



Calculation of bending degrees

Note: Bending direction to be decided according to actual installation condition, sketches for reference only.