

Save Time & Money
No cutting, no welding, no threading
Perfect for retrofit applications
Easy to move for layout changes
Most flexible hose in its class. UL: 3 bends 4" minimum radius

Full assembly includes Stainless Steel Braided Hose, Reducing Discharge Nipple, 1" Inlet Nipple, Hinged Lever Center Bracket, two End Brackets & 24" Square Bar

### **TECHNICAL DATA**

- •Rated Pressure: 203 PSI (14 Bars)
- •Maximum Ambient Temperature: 225°F (107°C)
- •Designed for use in wet and dry systems
- •Flexibility Type: Unlimited
- •Hose Diameter: 0.D. 1-1/16" / Flow 13/16"

				Equivalent Length of 1 ft Sch 40 Pipe						
Friction Loss Data and Specifications					US Max. # of	Min. Bending		FM APPROVED Max. # of	> Min. Bending	
Model	Length	NPT	ITEM #	UL	Bends	Radius	FM	Bends	Radius	
AR-BR FLEX-07-050	28" (0.6 m)	1/2"	6530165A	25 ft	2	4"	26.7 ft	1	10"	
AR-BR FLEX-10-050	40" (0.9 m)	1/2"	6530166A	33 ft	3	4"	42.6 ft	2	10"	
AR-BR FLEX-12-050	48" (1.2 m)	1/2"	6530167A	39 ft	3	4"	53.2 ft	3	10"	
AR-BR FLEX-15-050	60" (1.5 m)	1/2"	6530168A	50 ft	3	4"	67.8 ft	3	10"	
AR-BR FLEX-18-050	72" (1.8 m)	1/2"	6530169A	58 ft	3	4"	82.4 ft	4	10"	
AR-BR FLEX-07-075	28" (0.6 m)	3/4"	6530175A	21 ft	2	4"	22.1 ft	1	10"	
AR-BR FLEX-10-075	40" (0.9 m)	3/4"	6530176A	36 ft	3	4"	40.6 ft	2	10"	
AR-BR FLEX-12-075	48" (1.2 m)	3/4"	6530177A	43 ft	3	4"	53.0 ft	3	10"	
AR-BR FLEX-15-075	60" (1.5 m)	3/4"	6530178A	52 ft	3	4"	64.2 ft	3	10"	
AR-BR FLEX-18-075	72" (1.8 m)	3/4"	6530179A	63 ft	3	4"	75.5 ft	4	10"	

Anchoring components are intended for use with drop ceilings conforming to ASTM C635 and other major standards when installed in accordance with the standard practice for installation of metal ceiling suspension systems for acoustical tile and lay-in panel, ASTMC C635 or other equivalent standards.

System No.	Location	Spec Section	Paragraph	
Submitted By	Date	Approved	Date	



ARGCO's hoses are manufactured with corrosion resistant AISI Grade 304 Stainless Steel corrugated high flexibility tube with two hex slip nuts an high integrity O-ring seals with a burst test pressure of 70 bar/875 psi at ambient temperature, providing flexibility, high performance durability and reliability.

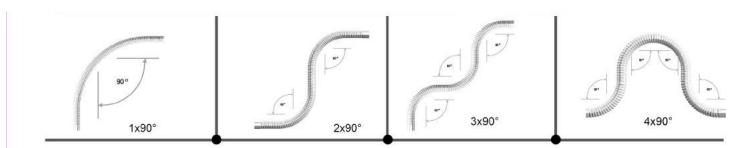
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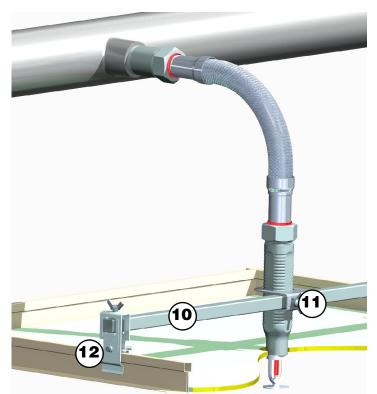
1.	FLEXIBLE TUBE	304 STAINLESS STEEL
2.	ISOLATION RING	NYLON 66
3.	SEALING GASKET	EPDM
4.	NUT	ZINC PLATED STEEL
5.	NIPPLE 1"	ZINC PLATED STEEL
6.	REDUCING NIPPLE	ZINC PLATED STEEL
7.	BRAID	304 STAINLESS STEEL
8.	COLLAR RING (INNER)	304 STAINLESS STEEL
9.	COLLAR RING (OUTER)	304 STAINLESS STEEL
10.	SQUARE BAR	ZINC PLATED STEEL
11.	CENTER BRACKET	ZINC PLATED STEEL
12.	4" END BRACKET(S)	ZINC PLATED STEEL

## CHARACTERISTICS:

•Minimum bend radius Braided 3" (230 mm) •Flexibility Type: Limited

### HOSE BENDING PARAMETERS









### INSTALLATION CLEARANCE

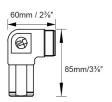
This data sheet indicates the minimum distance for Flex Hose installation between the building room and ceiling tiles. Unless otherwise specified, all figures include 25 mm / 1" operation space.

Grid		Straight	reducer%	Cast elbo	ow short <sup>\$</sup>	Cast elb	ow long*	Elbow reducer <sup>+</sup>	
type	Side bracket	concealed sprinkler	pendent sprinkler	concealed sprinkler	pendent sprinkler	concealed sprinkler	pendent sprinkler	concealed sprinkler	pendent sprinkler
	RF-12210/30 Long S. bracket	1.1	2.1	/	/	1.4	/	1.7	/
T-bar grid	RF-12110/30 Short S. bracket	/	2.2	1.2	/	/	2.4	/	2.6
	RF-12510 B-shape S. bracket	/	2.3	1.3	/	/	2.5	/	2.7
C-beam	RF-12610/30 C-clamp	/	4.2	/	4.3	/	4.5	/	4.7
	RF-12510 B-shape S. bracket	/	4.1	3.1	/	3.2	4.4	/	4.6
	RF-12210/30 Long S. bracket	3.3	4.8	/	/	/	3.4	/	4.7
	RF-12110/30 Short S. bracket	/	4.9	3.5	/	3.6	4.10	/	4.11
Hat furring channel	RF-12310 Hat furring channel bracket	5.1	6	/	/	5.2	/	5.3	/

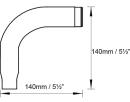
140mm / 51/2"

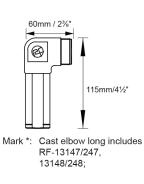


Mark %: Straight reducer includes RF-13102/202, 13103/203, 13109/209, 13110/210



Mark \$: Cast elbow short includes RF-13137/237, 13138/238;

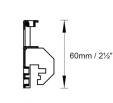






RF-12210/30 Long side bracket

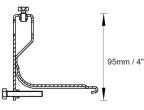




RF- 12510 B-shape side bracket



RF-12110/30 Short side bracket



RF-12310 Hat furring channel bracket

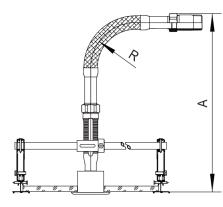




### **INSTALLATION CLEARANCE**

This data sheet indicates the minimum distance for Flex Hose installation between the building room and ceiling tiles. Unless otherwise specified, all figures include 25 mm / 1" operation space.

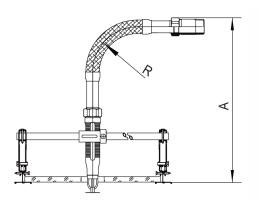
Concealed sprinklers on T-bar grid



Straight Reducer with Long End Bracket

Installation Clearance							
	UL FM						
R	Minimum bend radius	3.9"	5.8"				
A	Minimum	15.4"	22.0"				

Pendent sprinklers on T-bar grid



Straight Reducer with Long End Bracket

Installation Clearance							
	UL FM						
R	Minimum bend radius	3.9"	9.8"				
A	Minimum	14.0"	20.0"				



# FLEXIBLE SPRINKLER DROP HOSE INSTALLATION INSTRUCTIONS

ARGCO.com Updated 2/17/2023 © ARGCO

Determine the approximate place where the sprinklers will be located. The sprinkler should be located as close as possible to the center of the distance between ceiling grid's T-bars.

#### **CONNECT INLET NIPPLE**

Use a pipe wrench to screw the INLET NIPPLE into the branch outlet. Apply pipe joint compound or Teflon tape to the tapered threads to seal and tighten the branch line nipple into the branch line outlet, with 35ft-lbs/50N•m. DO NOT OVERTIGHTEN.

### ATTACH BRACKET SET

Attach SIDE BRACKETS and SQUARE BAR to the main rail of the T-Bar grid, with the CENTER BRACKET in the middle. Tighten horizontal bolts on the side brackets with 3ft-lbs/4N•m. For installation requiring UL listing - Drill two sheet metal screws through T-bar grids

### **BENDING AND LOCATING**

With CENTER BRACKET in the middle of the SQUARE BAR, bend the FLEXIBLE HOSE body as desired (According to hose bending parameters) and locate the DISCHARGE NIPPLE into the CENTER BRACKET and hinge arm and and tighten wing nut with 3ft-lbs/4N•m torque, after the proper location of sprinkler head has been determined.

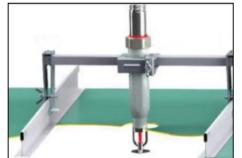
### **CONNECT DISCHARGE NIPPLE**

Apply Teflon tape to the male threads of the sprinkler. Tighten slip nuts of CENTER BRACKET and install sprinkler head to discharge nipple by following the sprinkler manufacturer's installation instructions.

### TEST

After installation is complete, test the system for leaks in accordance with NFPA guidelines.

Simply add 4x sheet metal screws to build a tamper resistant installation.



















## AR-200 FLEXIBLE SPRINKLER DROP HOSE ACCESSORIES





90° Reducing Nipple 6530190: 1" x 1/2" 6530192: 1" x 3/4"



Straight Reducing Nipple 6530181: 1" x 1/2" standard 6530180: 1" x 3/4" standard 6530191: 1" x 1/2" x 9" length



Flex Hose End Brackets 6530185: Standard 4" End Brackets (sold each) 6530183: Short 2-1/4" End Brackets (sold each)



6530194 : Metal Stud End Bracket (C-Clamp)





6530195: Furring Channel End Bracket (Hat Channel Bracket)





Flex Hose Center Brackets 6530184: Center bracket with hinged lever handle



Flex Hose Square Bar 6530182: 25" Square bar to fit standard ceiling tile grids





ARGCO Flexible Sprinkler Drops are designed to reduce labor and installation costs by installing without cutting and threading pipe associated with installing a drop, arm-over and elbows. ARGCO offers braided and unbraided hoses in 28, 40, 48, 60 and 72" lengths with simple brackets for suspended ceilings.

#### National Fire Protection Association (NFPA):

•NFPA 13: Standard for the Installation of Sprinkler Systems

- •NFPA 13R: Standard for the Installation of Sprinkler Systems in residential Occupancies up to and including four stories in height.
- •NFPA 13D: Standard for the Installation of Sprinkler Systems in One and Two-Family Dwellings and Manufactured Homes
- •NFPA 13 Section 9.2.1.3.3.3: No hangers are required for flexible connections as long as the length does not exceed 6 feet.

#### American Society for Testing Methods (ASTM):

- •ASTM C635: Standard specifications for the manufacture, performance, and testing of metal suspension systems for acoustical tile and lay-in panel ceilings
- •ASTM C636: Standard practice for installation of metal ceiling suspension systems for acoustical tile and lay-in panels.

#### Factory Mutual (FM):

•Approved standard for flexible sprinkler hose with threaded end fittings

#### Underwriter's Laboratories (FM):

•Standard for flexible sprinkler hose with fittings for fire protection service

#### International Building Code (IBC):

•Flexible Sprinkler Connections are an alternative solution to install without seismic escutcheons.

System No.	Location	Spec Section	Paragraph	
Submitted By	Date	Approved	Date	