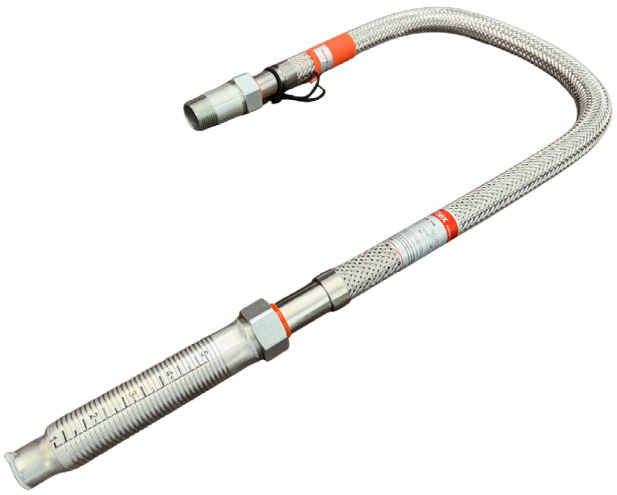
FLEXIBLE SPRINKLER DROPS

BRAIDED FLEXIBLE HOSES

ELITE PERFORMANCE SERIES



Product Overview

GemFlex Elite Performance Series 1-1/4" Braided Flex Drop is designed to simplify sprinkler hose installations in confined ceiling spaces while delivering durable, high-performance connections for fire sprinkler systems. The flexible hose assembly is available in multiple lengths and front-load configurations, allowing installers to quickly position sprinkler heads in acoustical ceiling systems and other suspended ceiling applications.

The hose features an optimized internal profile that significantly reduces friction loss compared to standard flexible sprinkler hose assemblies. Lower friction loss can improve hydraulic performance and may allow tenant improvement projects to proceed without additional hydraulic calculations*.

*Acceptance is subject to Authority Having Jurisdiction. The Manufacturer recommends verification prior to installation.

c UL us LISTED
UL Listed
Under File No. EX29684

FM APPROVED

Specifications

Hose

Type 304 Stainless Steel

Sealing Gasket

Silicone

Nut and Nipple

Zinc-Plated Steel

Isolation Ring

Nylon 66 + GF 30%

Maxium Ambient Temperature

225°F (FM), 300°F (UL)

Maximum Working Pressure

225 psig (FM), 300 psig (UL)

Key Benefits

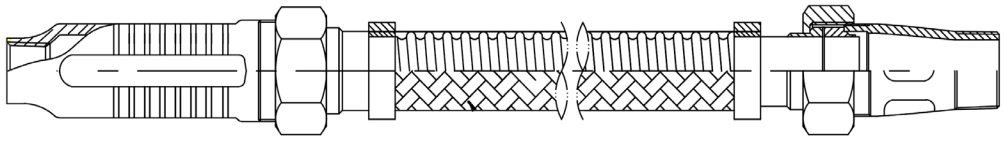
- Reduced friction loss for improved hydraulic performance
- Faster, easier sprinkler installations
- Lower labor and material costs
- Flexible sprinkler placement in suspended ceilings
- Durable stainless steel construction
- Optional grooved inlet assembly
- UL Listed and FM Approved for code-compliant applications
- Buy American Act (BAA) Compliant
  (Manufactured in Korea)

PROJECT INFORMATION	APPROVAL STAMP
Project:	☐ **Approved**
Address:	☐ **Approved as noted**
Contractor:	☐ **Not approved**
Engineer:	**Remarks:**
Submittal Date:	
Notes 1:	
Notes 2:	

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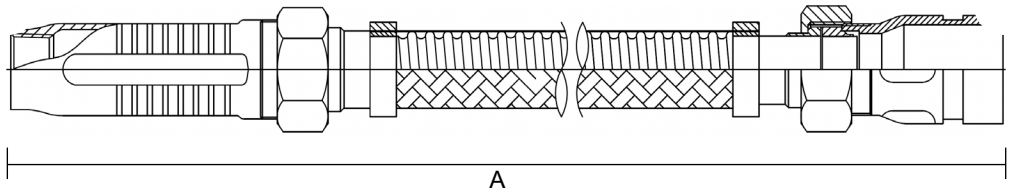


GEMFLEX FLEXIBLE SPRINKLER HOSES - ELITE PERFORMANCE SERIES - THREADED INLET						
Part Number	Hose ID (in.)	Unit True Length (A) (in.)	Hose Type	Connection		Max. K-Factor
				Inlet (in.)	Outlet (in.)	
450-100-03100	1-1/4"	24	Braided	1" NPT	1/2" NPT	K8.0
450-100-03110	1-1/4"	36	Braided	1" NPT	1/2" NPT	K8.0
450-100-03120	1-1/4"	48	Braided	1" NPT	1/2" NPT	K8.0
450-100-03130	1-1/4"	60	Braided	1" NPT	1/2" NPT	K8.0
450-100-03140	1-1/4"	72	Braided	1" NPT	1/2" NPT	K8.0
450-100-03150	1-1/4"	24	Braided	1" NPT	3/4" NPT	K14.0
450-100-03160	1-1/4"	36	Braided	1" NPT	3/4" NPT	K14.0
450-100-03170	1-1/4"	48	Braided	1" NPT	3/4" NPT	K14.0
450-100-03180	1-1/4"	60	Braided	1" NPT	3/4" NPT	K14.0
450-100-03190	1-1/4"	72	Braided	1" NPT	3/4" NPT	K14.0

*DO NOT bend within 2.52 inches from the connection nuts.

Note: This product is intended for the follow systems: wet, deluge, pre-action, and dry. It is intended for direction connection to fire sprinklers. No hangers and seismic escutcheons are required.

The required torque to assemble the reducer and nipple with the flexible hose is 50 ft-lbs.



GEMFLEX FLEXIBLE SPRINKLER HOSES - ELITE PERFORMANCE SERIES - GROOVED INLET						
Part Number	Hose ID (in.)	Unit True Length (A) (in.)	Hose Type	Connection		Max. K-Factor
				Inlet (in.)	Outlet (in.)	
450-100-03200	1-1/4"	24	Braided	1-1/4" GRV	1/2" NPT	K8.0
450-100-03210	1-1/4"	36	Braided	1-1/4" GRV	1/2" NPT	K8.0
450-100-03220	1-1/4"	48	Braided	1-1/4" GRV	1/2" NPT	K8.0
450-100-03230	1-1/4"	60	Braided	1-1/4" GRV	1/2" NPT	K8.0
450-100-03240	1-1/4"	72	Braided	1-1/4" GRV	1/2" NPT	K8.0
450-100-03250	1-1/4"	24	Braided	1-1/4" GRV	3/4" NPT	K14.0
450-100-03260	1-1/4"	36	Braided	1-1/4" GRV	3/4" NPT	K14.0
450-100-03270	1-1/4"	48	Braided	1-1/4" GRV	3/4" NPT	K14.0
450-100-03280	1-1/4"	60	Braided	1-1/4" GRV	3/4" NPT	K14.0
450-100-03290	1-1/4"	72	Braided	1-1/4" GRV	3/4" NPT	K14.0

*DO NOT bend within 2.52 inches from the connection nuts.

Note: This product is intended for the follow systems: wet, deluge, pre-action, and dry. It is intended for direction connection to fire sprinklers. No hangers and seismic escutcheons are required.

The required torque to assemble the reducer and nipple with the flexible hose is 50 ft-lbs.

UL FRICTION LOSS DATA					
	Outlet Connection (in.)	K-Factor	Min. Bend Radius* (in.)	Max. Number of 90° Bends	Equivalent Length of Sch. 40 Pipe (ft.)
24	1/2"	8.0	2-1/2"	2	3
	3/4"	14.0	2-1/2"	2	10
36	1/2"	8.0	2-1/2"	5	12
	3/4"	14.0	2-1/2"	5	22
48	1/2"	8.0	2-1/2"	8	19
	3/4"	14.0	2-1/2"	8	34
60	1/2"	8.0	2-1/2"	10	26
	3/4"	14.0	2-1/2"	10	40
72	1/2"	8.0	2-1/2"	12	37
	3/4"	14.0	2-1/2"	12	46

*UL: 2.5" minimum bend radius, where C = 120
Flexibility Type: Limited

FM FRICTION LOSS DATA					
Length (in.)	Outlet Connection (in.)	K-Factor	Min. Bend Radius* (in.)	Max. Number of 90° Bends	Equivalent Length of Sch. 40 Pipe (ft.)
24	1/2"	5.6 / 8.0	6-1/2"	1	2.1 / 3.6
	3/4"	8.0 / 14.0	6-1/2"	1	3.6 / 3.8
36	1/2"	5.6 / 8.0	6-1/2"	2	4.5 / 5.1
	3/4"	8.0 / 14.0	6-1/2"	2	6.0 / 6.0
48	1/2"	5.6 / 8.0	6-1/2"	3	6.9 / 6.6
	3/4"	8.0 / 14.0	6-1/2"	3	8.4 / 8.3
60	1/2"	5.6 / 8.0	6-1/2"	4	9.4 / 8.1
	3/4"	8.0 / 14.0	6-1/2"	4	10.9 / 10.6
72	1/2"	5.6 / 8.0	6-1/2"	4	11.9 / 9.7
	3/4"	8.0 / 14.0	6-1/2"	4	13.4 / 12.9

*FM: 6.5" minimum bend radius, where C = 120
Flexibility Type: Limited

For more information
Learn more about GemFlex's Elite Preformance Series Braided Hose and other products available by visiting www.gemflex.com

GemFlex
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