



Sprinkler Joint System

- Product Documentation -



G-FLEX 27

1. Introduction

G-FLEX 27, GS FIRE SAFETY Flexible Sprinkler Hose, is designed to be used in wet sprinkler systems between the branchline and sprinkler when installed in accordance with NFPA 13, 13D, and 13R.

G-FLEX 27 provides a unique sprinkler drop assembly comprised of the following components:

- Stainless Steel Flexible Hose with Two Slip Nuts
- Branchline Inlet Nipple
- Straight Sprinkler Reducer
- Reducer Bracket, Bar Fixing Clamps, and Support Bar

2. Features

Product: Flexible Sprinkler Hose With Fittings

Hose Diameter: Ø26.8, OD (3/4" - DN20, ID)

Max. Working Pressure: 200 psi

Max. Ambient Temperature: 227°F

End Connections: 1/2", 3/4" Outlet Reducer For Sprinkler (NPT/BSPT)
1" Inlet Nipple For Pipe

(NPT/BSPT) Materials: Stainless Steel 304

Product Codes: **G-FLEX 27N-TXXX** / **G-FLEX 27B-TXXX**

3. Strength

Using **G-FLEX 27** saves time and cost because the system can be installed in false ceilings without cutting and threading pipes associated with installing a drop, arm-over, and elbows.

G-FLEX 27 makes it possible to test and charge the system with water before installing the ceiling grid. After the ceiling grid is in position, the **G-FLEX 27** can be reshaped to suit the final sprinkler location without draining the system.

G-FLEX 27 is installed quickly without large and expensive tools. Ideal applications include offices, schools, libraries, hospitals, and shopping complexes.

4. PN Composition

G-FLEX : Brand For Sprinkler Joint System

27: Hose Nominal Diameter (Ø26.8, OD)

N / B: **N** - Non-braided Type / **B** - Braided Type

XXX: Length (mm - 700, 1000, 1200, 1500, 1800)

5. Approvals

G-FLEX 27N-TXXX / **G-FLEX 27B-TXXX**

Unbraided	UL	FM	Braided	UL	FM
G-FLEX 27N-T700	UL	N/A	G-FLEX 27B-T700	UL	FM
G-FLEX 27N-T1000			G-FLEX 27B-T1000		
G-FLEX 27N-T1200			G-FLEX 27B-T1200		
G-FLEX 27N-T1500			G-FLEX 27B-T1500		
G-FLEX 27N-T1800			G-FLEX 27B-T1800		

6. Specification

Hose Diameter	27A: G-FLEX 27	I.D: 26.2mm O.D: 26.8mm
Hose Type	Unbraided or Braided Type / Threaded or Welded Type / Helical Corrugated Hose	
Max. Ambient Temperature	227°F (107°C)	
Max. Working Pressure	200 psi	
Minimum Bend Radius	4 Inch (UL/ULc) / 9 Inch (FM)	
K-Factor	1/2" Outlet	5.6 gpm (G-FLEX 27N-TXXX)
		8.0 gpm (G-FLEX 27B-TXXX)
	3/4" Outlet	8.0 gpm (G-FLEX 27N-TXXX)
		14.0 gpm (G-FLEX 27B-TXXX)
Length Available	700mm, 1000mm, 1200mm, 1500mm, 1800mm	
Connection	Inlet Nipple	1" NPT / BSPT
	Outlet Reducer	1/2" or 3/4" NPT / BSPT

7. Technical Data

UL 27 – G-FLEX 27N-TXXX

Model	Rated Pressure, psig (kPa)	Max Ambient Temp, °F (°C)	Nom Inlet by Outlet Size, in.	Assembly length, ft (mm)	Max No. of 90° Bends	Min Bend Radius, in (mm)	Equivalent Length of 1 in. Schedule 40 Steel Pipe(c=120), ft
G-FLEX 27N-T700	200 (1380)	225 (107)	1 x 1/2	2.3 (700)	2	4 (100)	26 (8)
G-FLEX 27N-T1000	200 (1380)	225 (107)	1 x 1/2	3.3 (1000)	3	4 (100)	45 (13.7)
G-FLEX 27N-T1200	200 (1380)	225 (107)	1 x 1/2	3.9 (1200)	3	4 (100)	51 (15.5)
G-FLEX 27N-T1500	200 (1380)	225 (107)	1 x 1/2	4.9 (1500)	3	4 (100)	66 (20.1)
G-FLEX 27N-T1800	200 (1380)	225 (107)	1 x 1/2	5.9 (1800)	3	4 (100)	69 (21)
G-FLEX 27N-T700	200 (1380)	225 (107)	1 x 3/4	2.3 (700)	2	4 (100)	31 (9.45)
G-FLEX 27N-T1000	200 (1380)	225 (107)	1 x 3/4	3.3 (1000)	3	4 (100)	50 (15.2)
G-FLEX 27N-T1200	200 (1380)	225 (107)	1 x 3/4	3.9 (1200)	3	4 (100)	55 (16.8)
G-FLEX 27N-T1500	200 (1380)	225 (107)	1 x 3/4	4.9 (1500)	3	4 (100)	70 (21.3)
G-FLEX 27N-T1800	200 (1380)	225 (107)	1 x 3/4	5.9 (1800)	3	4 (100)	74 (22.6)

UL 27 – G-FLEX 27B-TXXX

Model	Rated Pressure, psig (kPa)	Max Ambient Temp, °F (°C)	Nom Inlet by Outlet Size, in.	Assembly length, ft (mm)	Max No. of 90° Bends	Min Bend Radius, in (mm)	Equivalent Length of 1 in. Schedule 40 Steel Pipe(c=120), ft
G-FLEX 27B-T700	200 (1380)	225 (107)	225 (107)	1 x 1/2	2.3 (700)	2	26 (8)
G-FLEX 27B-T1000	200 (1380)	225 (107)	225 (107)	1 x 1/2	3.3 (1000)	3	45 (13.7)
G-FLEX 27B-T1200	200 (1380)	225 (107)	225 (107)	1 x 1/2	3.9 (1200)	3	51 (15.5)
G-FLEX 27B-T1500	200 (1380)	225 (107)	225 (107)	1 x 1/2	4.9 (1500)	3	66 (20.1)
G-FLEX 27B-T1800	200 (1380)	225 (107)	225 (107)	1 x 1/2	5.9 (1800)	3	69 (21)
G-FLEX 27B-T700	200 (1380)	225 (107)	225 (107)	1 x 3/4	2.3 (700)	2	31 (9.45)
G-FLEX 27B-T1000	200 (1380)	225 (107)	225 (107)	1 x 3/4	3.3 (1000)	3	50 (15.2)
G-FLEX 27B-T1200	200 (1380)	225 (107)	225 (107)	1 x 3/4	3.9 (1200)	3	55 (16.8)
G-FLEX 27B-T1500	200 (1380)	225 (107)	225 (107)	1 x 3/4	4.9 (1500)	3	70 (21.3)
G-FLEX 27B-T1800	200 (1380)	225 (107)	225 (107)	1 x 3/4	5.9 (1800)	3	74 (22.6)

FM 27 – G-FLEX 27B-TXXX

Model	NPT in	K-Factor	Minimum Bend Radius in.(mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in.(mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft(m)
G-FLEX 27B-T700	1/2	5.6	9(229)	2	200(1375)	28 (700)	28.4(8.6)
G-FLEX 27B-T1000	1/2	5.6	9(229)	3	200(1375)	40 (1000)	45.8(13.9)
G-FLEX 27B-T1200	1/2	5.6	9(229)	3	200(1375)	48 (1200)	57.4(17.5)
G-FLEX 27B-T1500	1/2	5.6	9(229)	4	200(1375)	60 (1500)	69.6(21.2)
G-FLEX 27B-T1800	1/2	5.6	9(229)	4	200(1375)	72 (1800)	81.8(24.9)
G-FLEX 27B-T700	3/4	8.0	9(229)	2	200(1375)	28 (700)	27.6(8.4)
G-FLEX 27B-T1000	3/4	8.0	9(229)	3	200(1375)	40 (1000)	40.8(12.4)
G-FLEX 27B-T1200	3/4	8.0	9(229)	3	200(1375)	48 (1200)	49.6(15.1)
G-FLEX 27B-T1500	3/4	8.0	9(229)	4	200(1375)	60 (1500)	62.7(19.1)
G-FLEX 27B-T1800	3/4	8.0	9(229)	4	200(1375)	72 (1800)	75.8(23.1)



G-FLEX 27B-TXXX / G-FLEX 27N-TXXX