







Flexible Sprinkler Hose with Fittings





Web:www.firequip.com.au Email: sales@firequip.com.au Phone: 02 9638 1300



SERVICE - COMPLIANCE - INTEGRITY

Braided Type



Model	Length	Max Pressure	Inlet	Outlet	Thread
FDB27700GV	700mm (2.3 ft.)	200PSI	1" BSPT	1/2" or 3/4"	NPT
FDB271000GV	1000mm (3.3 ft.)	200PSI	1" BSPT	1/2" or 3/4"	NPT
FDB271200GV	1200mm (3.9ft.)	200PSI	1" BSPT	1/2" or 3/4"	NPT
FDB271500GV	1500mm (4.9 ft.)	200PSI	1" BSPT	1/2" or 3/4"	NPT
FDB271800GV	1800mm (5.9 ft.)	200PSI	1" BSPT	1/2" or 3/4"	NPT

Accessories - Stocked

110mm (15mm)	110mm (10mm)	155mm (15mm)	Center	110mm
Standard Reducer	Standard Reducer	Standard Reducer	Nozzle Bracket	Elbow Reducer
FDNR2715NPT110GV	FDNR2710NPT110GV	FDNR2715NPT155GV	FDNBGV	FDER2715NPTGV
	Ď	Ž		
150mm	60mm	105mm	38mm Metal Stud	53mm Metal Stud
Pipe Angle Nozzle	Short Grid Bracket	Long Grid Bracket	Side Bracket	Side Bracket
FDAP27GV	FDGBS60GV	FDGBS105GV	FDSSB38GV	FDSSB53GV
65mm Adjustable	60mm Channel Hat	80mm Channel Hat	Wood Beam	0.7m Long
Elbow Bracket	Small Side Bracket	Large Side Bracket	Side Bracket	Square Bar
FD27RES65GV	FDHCSB60GV	FDHCSB80GV	FDWBGV	FDSB0.7V

Accessories - Available on application



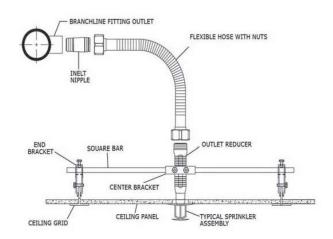
Address 2 Pike St, Rydalmere NSW 2117

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Components Materials:

Flexible Hose - AISI 304 Stainless steel
Braid - (only Braided type) - AISI 304 Stainless steel
Nut - SWRMK (steel), zinc plated
Gasket Seal - NBR
Isolation Ring - NYLON 6
Nipple - SPP (steel), zinc plated
Brackets - SPGC (steel), zinc plated
Support Bar - SGCC (steel), zinc plated



- Available product length and type
 - 700mm, 1000mm, 1200mm, 1500mm, 1800mm
 - Braided Type
- Max. Working pressure
 - 14Kg.cm (200psi)
- ► Maximum number of bends
 - GVFLEX-27B-700, 1000 : 1 max 90 degree bend
 - GVFLEX-27B-1200, 1500, 1800 : 3 max 90 degree bend
 - GVFLEX-27U-700, 1000 : 1 max 90 degree bend
 - GVFLEX-27U-1200, 1500, 1800 : 3 max 90 degree bend
- bending angles (Flow direction)
 - Up to 180 Degree
- ▶ K-factor
 - Largest K-factor 1/2inch Outlet: 8.0 gpm/ sqr(psi)
- Largest K-factor 3/4inch Outlet: 14.00 gpm/ sqr(psi)

 Intended use for direct connection to fire sprinklers.
- ► The hose and fittings have limited flexibility.

- Available square bar length
 - 700mm to 1400mm
- ► Max. Ambient temperature
- 150 °F
- ▶ Minimum installation bending radius
 - 125mm (5in)
- ► Bracket(S) Torque
- 45 Kg.cm
- ▶ Bracket(L) Torque
 - 65Kg.cm
- ► Nut + Nipple/Reducer Torque
 - -500Kg.cm
- System Dry & Wet System



INSTALLATION INSTRUCTION

(Braided & Unbraided Type)

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- 1. Do visual inspection to see if there is any sign of physical damage on the hose.
- 2. Check O-Ring and insulation Ring to see if there is any sign of physical damage.
- 3. Connect Reducer to Nut by using a wrench.
- *Nut and Reducer connection torque: 500Kg/cm







4. Apply Teflon tape on the inlet nipple thread. Usu pipe wrench to connect the inlet nipple to the branch line. 5. After inspect O-ring and insulation Ring of physical damage, connect flexible sprinkler hose to outer nipple.

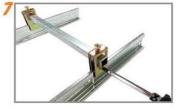
Warning: Do NOT apply Teflon tape on the outer nipple thread when connect to the flexible sprinkler hose.

- *Nipple + main pipe connecting torque: 850~900Kg/cm
- *Nut + Nipple connection torque: 500Kg/cm
- 6. Install aech Bracket-S to Square bar by using drivers as shown on photo 6. Put a space of 600mm to 1200 mm approximately.
- 7. Connect square bar to the T-bar ceiling grid as shown on photo 2 and tighten the bolts on the Bracket-S to secure on the grid.
- *Bracket-S bolts connection torque: 45Kg/cm







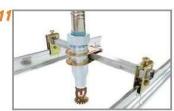


- 8. Place the Bracket-L at the middle of the square bar.
- 9. Insert the outlet reducer vrom the flexible sprinkler hose and securely fasten by tightening two bolts on the Bracket-L
- *Bracket-L bolts connection torque: 65Kg/cm
- 10. Apply the Teflon tape on the inlet thread of sprinkler head and connect to the outer nipple of reducer.
- 11. Check all the parts are securely tightened.











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A suspended ceiling used with the flexible hose with fittings shall be designed to resist upward movement when vertical loads are applied (interlocking) and constructed to support the applied flexible hose loads. Products are intended to be used with ceilings having construction and structural integrity characteristics equivalent to intermediate and heavy duty ceilings described in the Standard for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings, ASTM C635 and Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels, ASTM C636 may be used

Flexible sprinkler hose fittings may be used in wet, preaction, deluge or dry pipe sprinkler systems between the branch line and sprinkler when installed in accordance with NFPA 13, "Standard for the Installation of Sprinkler Systems," NFPA 13R "Standard for the Installation of Sprinkler Systems in Residential Occupancies up to four Stories in Height." and NFPA 13D, "Standard for the Installation Of Sprinkler Systems in one-and Two-Family Dwelling and Mobile Homes". A flexible sprinkler hose fitting consists of a flexible hose, inlet fitting for connection to the branch line, outlet fitting for connection to the sprinkler, and a mounting bracket.

These fittings are intended for use in hydraulically designed sprinkler systems. The hydraulic loss of these fittings needs to be included in the hydraulic design calculations. Losses vary depending on the installed configuration. The allowable number of bends with a minimum bend radius of 5 in(125mm) for each model and the associated pressure losses expressed in equivalent length in feet df 1 in. diameter Schedule 40 steel pipe (with a C-factor of 120) are included in the following table

Equivalent Length in feet of 1 inch Schedule 40 pipe

	Rated	Max.	Nom.	Assembly	Max	Min	Equivalent	Flexibility
	Pressure,	Ambient	Inlet	Length,	No. of	Bend	Length of	type
Model	psig	Temp, °F	by Outlet	ft (mm)	90°	Radius,	1 in.	
iviodei			Size, in.		Bends	in.	Schedule 40	
							Steel pipe	
							(C = 120), ft	
GVFLEX-27B-700 &	200	150	1 by 1/2	700	1	5	26	Limited
GVFLEX-27U-700	200	150	1 by 1/2	700	'	3	20	Limited
GVFLEX-27B-1000 &	200	150	1 by 1/2	1000	1	5	36	Limited
GVFLEX-27U-1000	200	150	1 by 1/2	1000	'	3	30	Limited
GVFLEX-27B-1200 &	200	150	1 by 1/2	1200	3	5	67	Limited
GVFLEX-27U-1200	200	150	1 by 1/2	1200	3	3	07	Limited
GVFLEX-27B-1500 &	200	150	1 by 1/2	1500	3	5	84	Limited
GVFLEX-27U-1500	200	150	1 by 1/2	1300	3	3	04	Limited
GVFLEX-27B-1800 &	200	150	1 by 1/2	1800	3	5	101	Limited
GVFLEX-27U-1800	200	150	1 by 1/2	1000	3	3	101	Limited
GVFLEX-27B-700 &	200	150	1 by 3/4	700	1	5	32	Limited
GVFLEX-27U-700	200	100	1 by 3/4	700	,	J	UZ.	Limited
GVFLEX-27B-1000 &	200	150	1 by 3/4	1000	1	5	42	Limited
GVFLEX-27U-1000	200	150	1 by 3/4	1000	'	3	42	Limited
GVFLEX-27B-1200 &	200	150	1 by 3/4	1200	3	5	73	Limited
GVFLEX-27U-1200	200	130	1 by 3/4	1200	3	3	73	Lillilleu
GVFLEX-27B-1500 &	200	150	1 by 3/4	1500	3	5	77	Limited
GVFLEX-27U-1500	200	130	1 by 5/4	1300	3	,	''	Lilliled
GVFLEX-27B-1800 &	200	150	1 by 3/4	1800	3	5	105	Limited
GVFLEX-27U-1800	200	130	1 by 5/4	1000	3		103	Lilliled

* GVFLEX-27B: Braided Type and GVFLEX-27U: Unbraided Type

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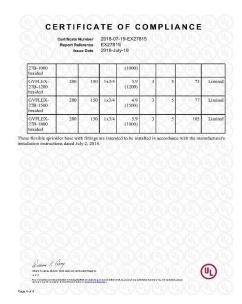


Certificates:



	Certificate Nu Report Refe Issue		2018-0 EX278 2018-J		5			
27U-1000 unbraided	DU.	M	(U	(1000)	J)(H	火	(1)	U)(
GVFLEX- 27U-1200 unbraided	200	150	1x3/4	3.9 (1200)	3	5	73	Limited
GVFLEX- 2711500 unbraided	200	150	1x3/4	4.9 (1500)	3	5	77	Limite
GVFLEX- 27U-1800 unbraided	200	150	1x3/4	5.9 (1800)	3	5	105	Limite
GVFLEX- 27B-700 braided	200	150	1x1/2	2.3 (700)	1	5	26	Limite
GVFLEX- 27B-1000 braided	200	150	1x1/2	3.3 (1000)	1	5	36	Limite
GVFLEX- 27B-1200 braided	200	150	1x1/2	3.9 (1200)	3	5	67	Limite
GVFLEX- 27B-1500 braided	200	150	1x1/2	4,9 (1500)	3	5	84	Limite
GVFLEX- 27B-1800 braided	200	150	1x1/2	5.9 (1800)	3	5	101	Limited
GVFLEX- 27B-700 braided	200	150	1x3/4	2.3 (700)	3/1	5	32	Limited
GVTLEX-	200	150	1x3/4	3.3	1	5	42	Limited
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Model	Rated Pressure, psig	Max Ambient Temp,	Nom Inlet by Outlet Size, in.	Assembly Length, ft (mm)	Max No. of 90° Bends	Min Bend Radius, in,	Equivalent Length of 1 in. Schedule 40 Steel Pipe (C = 120), ft	Flexibili
GVFLEX- 27U-700 unbraided	200	150	1x1/2	2.3 (700)	N.	5	26	Limit
GVFLEX- 27U-1000 unbraided	200	150	1x1/2	3.3 (1000)		5	36	Limits
GVFLEX- 27U-1200 unbraided	200	150	1x1/2	3.9 (1200)	3	5	67	Limit
GVFLEX- 27U-1500 unbraided	200	150	1x1/2	4.9 (1500)	3	5	84	Limite
GVFLEX- 27U-1800 unbraided	200	150	1x1/2	5.9 (1800)	3	5	101	Limita
GVFLEX- 27U-700 unbraided	208	150	1x3/4	2.3 (700)	n d	5	32	Limite
GVFLEX-	200	150	1x3/4	3.3	- 1	5	42	Limite







Please refer to the below extract, from the FM Approvals Guide, confirming that the GVFLEX, exclusively distributed in Australia by Firequip, meets the requirements of AS2118-2017 Section 7.6(a) specifically that the minimum size of flexible tube assemblies, for the connection of individual sprinklers to rigid pipework above suspended ceilings, shall be DN25.

for Commercial Suspended Ceilings Flexible sprinkler hose with threaded end fittings are for use in commercial suspended ceilings. The flexible hoses are to be installed according to the manufacturer's directives. Models GVFLEX-27B-700, GVFLEX-27B-1000, GVFLEX-27B-1200, GVFLEX-27B-1500, GVFLEX-27B-1800 Product Specification Equivalent

Model No	NPT		K-Factor	В	imum end idius	Number of Bends	Wo	ated rking ssure	Ass	ose sembly ength	Leng 1 Scho	valent oth of in. edule Pipe
	in	(mm)		in	(mm)		psi	(kPa)	in	(mm)	ft	(m)
GVFLEX-27B-700	1/2	(15)	5.6	11.8	(300)	1	200	(1380)	27.5	0	33	(10.1)
GVFLEX-27B-1000	1/2	(15)	5.6	11.8	(300)	2	200	(1380)	39.4	(1000)	43.6	(13.2)
GVFLEX-27B-1200	1/2	(15)	5.6	11.8	(300)	3	200	(1380)	47.2	(1200)	55.9	(17.0)
GVFLEX-27B-1500	1/2	(15)	5.6	11.8	(300)	4	200	(1380)	59.0	(1500)	67.5	(20.6)
GVFLEX-27B-1800	1/2	(15)	5.6	11.8	(300)	4	200	(1380)	70.1	(1800)	78.8	(23.9)
GVFLEX-27B-700	3/4	(20)	8.0	11.8	(300)	1	200	(1380)	27.5	0	28.3	(8.6)
GVFLEX-27B-1000	3/4	(20)	8.0	11.8	(300)	2	200	(1380)	39.4	(1000)	48.1	(14.7)
GVFLEX-27B-1200	3/4	(20)	8.0	11.8	(300)	3	200	(1380)	47.2	(1200)	86.8	(26.4)
GVFLEX-27B-1500	3/4	(20)	8.0	11.8	(300)	4	200	(1380)	59.0	(1500)	111.0	(33.8)
GVFLEX-27B-1800	3/4	(20)	8.0	11.8	(300)	4	200	(1380)	70.1	(1800)	120.8	(36.8)

1 in. nominal dia. flexible metal hose for providing a connection to automatic sprinklers in commercial suspended ceilings. Approval is limited for use in commercial suspended ceilings with a bracket system (Bracket-S, Rondo Bracket, Bracket-L, Reducer, Nipple, Square Bar) manufactured by GV Fire Ltd.

The code of information for the model designation is as follows:

Marking	Description	
GVFLEX	Manufacturer's initials	
27	Nominal Hose OD size in mm (1.06 inch)	
В	Braided	
700	Hose length in mm (2.3 ft.)	
1000	Hose length in mm (3.3 ft.)	
1200	Hose length in mm (3.9 ft.)	
1500	Hose length in mm (4.9 ft.)	
1800	Hose length in mm (5.9 ft.)	

Company Name:	GV Fire Ltd
Company Address:	28, Salme St., Tallinn 10413, Estonia
Company Website:	http://qvfire.eu
New/Updated Product Listing:	Yes
Listing Country:	Estonia

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