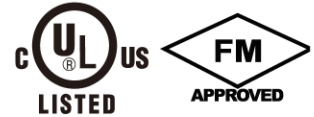


Stainless Steel Flexible Hose



- **Safe & Reliable**

All the parts of flexible hoses are manufactured in corrosion resistant and high-powered stainless steel with 100% leak tested prior to leaving the factory and the environmental temperature resistance being as high as 107°C/225°F.

- **Easy and Quick installation**

No special tools are required and It only needs the simple use of wrench, screw driver and pipe sealing tape, etc, in the installation with the minimal amount of time. The flexibility of hose can be adjusted based on the installation space and can also be combined with 90° elbow, which allows hose to be fixed in limited installation space.

- **Economizing on cost**

With the unique connection mode of flexible hose, the Belven brand is much more time and cost saving and with no need of any machine against traditional hard pipe system installation.

- **Environmental Friendly**

The Belven brand flexible hose can be re-shaped and relocated to suit the final sprinkler location on the ceiling without draining the system, avoiding the pipe wasted by the inaccurate measurement. No sprinkler displacement even after high pressure test and eliminating the need for an oversized ring around the sprinkler.

- **Seismically**

The Belven brand stainless steel hose can absorb seismic shock, and protect the sprinkler system to maintain normal operation in the case of an earthquake.



10X
Faster

10 times time saving against traditional installation

100
circles

The assurance of 100 bends without damage

100%
Tested

100% leak tested prior to leaving the factory

Earthquake

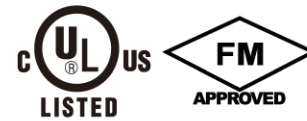
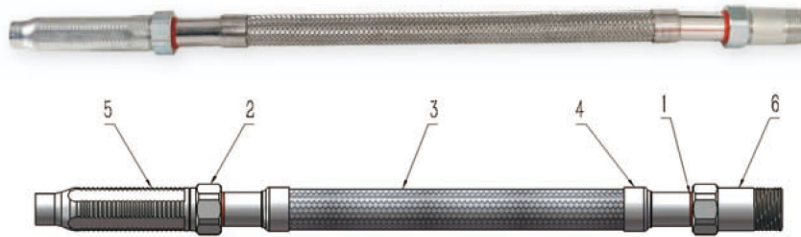
Reducing the damage in the earthquake

7.0Mpa
Burst Test

The burst test pressure being as high as 70 bar

Three-Piece Braided Flexible Hose DN20

Fig. No. FBC1



Maximum working pressure: 1.2Mpa/175psi

Maximum ambient temperature: 107°C / 225 °F

Material detail:

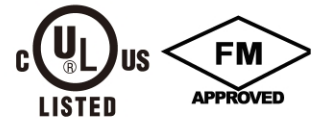
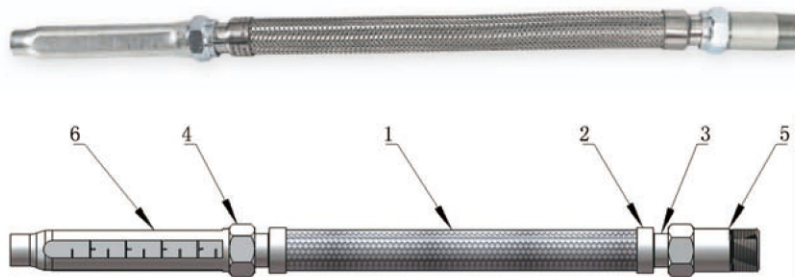
NO.	Description	Material
1	Nylon ring	Nylon
2	Hexagon nut	Carbon Steel (Galvanizing)
3	Hose	Stainless steel 304
4	Outer Shackle	Stainless steel 304
5	Outlet Nipple	Carbon Steel (Galvanizing)
6	Inlet Nipple	Carbon Steel (Galvanizing)

Specifications:

Name	Total length of hose	Dimensions of inlet and outlet connections			
		Inlet		Outlet	
		DN	IN	DN	IN
Model number	MM				
FB28	700	25	1"	15 20	1/2" 3/4"
FB40	1000	25	1"	15 20	1/2" 3/4"
FB48	1200	25	1"	15 20	1/2" 3/4"
FB60	1500	25	1"	15 20	1/2" 3/4"
FB72	1800	25	1"	15 20	1/2" 3/4"

Three-Piece Braided Flexible Hose DN25

Fig. No. FBC2



Maximum working pressure: FM 1.2Mpa/175psi; UL 1.4Mpa/200psi
 Maximum ambient temperature: 107°C / 225 °F

Material detail:

NO.	Description	Material
1	Hose	Stainless steel 304
2	Outer Shackle	Stainless steel 304
3	Welding ring	Stainless steel 304
4	Hexagon nut	Carbon Steel (Galvanizing)
5	Inlet Nipple	Carbon Steel (Galvanizing)
6	Outlet Nipple	Carbon Steel (Galvanizing)

Specifications:

Name	Total length of hose	Dimensions of inlet and outlet connections			
		Inlet		Outlet	
		DN	IN	DN	IN
Model number	MM				
FB28	700	25	1"	15 20	1/2" 3/4"
FB31	790	25	1"	15 20	1/2" 3/4"
FB36	915	25	1"	15 20	1/2" 3/4"
FB40	1000	25	1"	15 20	1/2" 3/4"
FB48	1200	25	1"	15 20	1/2" 3/4"
FB60	1500	25	1"	15 20	1/2" 3/4"
FB72	1800	25	1"	15 20	1/2" 3/4"

Flexible Hose Parts

CENTER BRACKETS

Name	Picture	Material Quality	Application description	Dimensions (mm)
Regular Center Bracket		Carbon Steel ASTM A283 Gr.D		
Fast Center Bracket		Carbon Steel ASTM A283 Gr.D		
Self-Locking Center Bracket		Carbon Steel ASTM A283 Gr.D		

INLET NIPPLES



Material	Description
① Carbon steel	1" Welded Outlet Nipple
② Carbon steel	1" Threaded Outlet Nipple
③ Carbon steel	1" Grooved Outlet Nipple
④ Carbon steel	1" x 1.1/4" Threaded Outlet Nipple

ELBOW REDUCER



Material	Description
① Carbon steel	Elbow Reducer Shot
② Carbon steel	Elbow Reducer Long

SIDE BRACKETS

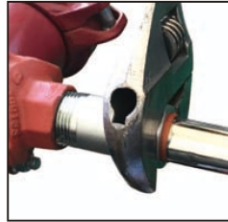
Name	Picture	Material Quality	Application description	Dimensions (mm)
Long Side Bracket		Carbon Steel ASTM A283 Gr.D		
Shot Side Bracket		Carbon Steel ASTM A283 Gr.D		
J-Side Bracket		Carbon Steel ASTM A283 Gr.D		
E-Side Bracket-62		Carbon Steel ASTM A283 Gr.D		
E-Side Bracket-102		Carbon Steel ASTM A283 Gr.D		

REDUCER



Material	Description
① Carbon steel	4.3" Reducer
② Carbon steel	5.5" Reducer
③ Carbon steel	7" Reducer
④ Carbon steel	13" Reducer

How to Install



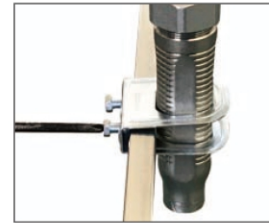
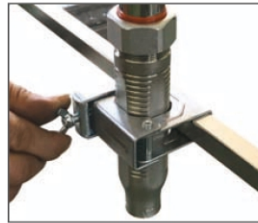
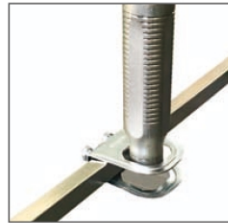
• INLET NIPPLE INSTALLATION

Using pipe wrench to connect Inlet Nipple and mechanical tee of the water supply pipeline, sealing with Teflon tape or pipe glue, etc. Tightening torque would be around 50 N•m(35ft-lbs). Checking the Hexagon nut to keep the mechanical tee and pipe line in good sealing performance.



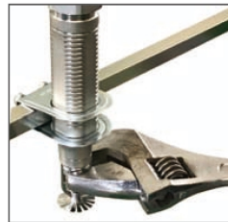
• BRACKET SYSTEM INSTALLATION

Connecting the square bar through three brackets. One bracket is in the middle of square bar is for Discharge Nipple. The other two brackets should be put two sides of the bar. After putting the side brackets into right location, fixing the side brackets to the main-rail and tightening all the bolts on brackets with torque 4 N•m (3ft-lbs)



• HOSE BENDING ADJUSTMENT

Before connecting Discharge Nipple to the center bracket, all the hose bending must be adjusted to the right position according to the requirement of below hose bending degrees. Then tightening the center bracket with torque 4 N•m(3ft-lbs)



• DISCHARGE NIPPLE and SPRINKLER INSTALLATION

Tightening the nut of Discharge Nipple with torque 15 N•m(12ft-lbs).

Connecting the sprinkler head to Discharge Nipple according to the sprinkler installation instructions.

Taking the leakage test in according with NFPA guidelines.