

MECH FLOW SUPPLIES



Malleable Iron
Pipe Fittings



Ductile Iron
Grooved Fittings
and Couplings



Valves



Cast Bronze
Fittings



Electrical
Power Fittings



Malleable Iron
Pipe Clamps



Ductile Iron Pipe Fittings
Cast Iron Pipe Fittings



Pipe Nipples

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UL
LISTED

FM
APPROVED

Stainless Steel Flexible Hose Fitting for Automatic Sprinkler Systems

To Provide **Safe & Reliable** Products and **Smart & Complete**
Solutions for Clients in Fluid Conveying Industry Across the Globe.





玫德集团有限公司
JINAN MEIDE CASTING CO., LTD.

Subject: Granting a representation order.

Date 01/01/2019

Products: ERW STEEL PIPES, DUCTILE GROOVED FITINGS AND COUPLINGS, VALVES,
GALVANIZED FITTINGS

Hereby, Jinan Meide Casting Co .certifies that Mr.Reza Kalvandi, the managing
director of Bita Energy Pars Company, central office: No 72, second floor, Behkish
complex, Kish Island, Iran is the formal distributor of our Company on Iran and
Kish Island.

Valid date is during January 1, 2019 till December 31, 2020

Signature

Jinan Meide Casting Co.,Ltd

Authorized Signature

FEATURE



• Safe & Reliable

All the parts of MECH brand 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 MECH brand 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 MECH brand is much more time and cost saving and with no need of any machine against traditional hard pipe system installation.

• Environmental Friendly

The MECH 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 MECH 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

TECHNICAL SPECIFICATIONS

Style: MDFU

Unbraided Hose with Straight Nipple

listing:  **us** (limited flexibility)
LISTED

Connection: DN25xDN15 or DN20 (1"x1/2" or 3/4")

Hose Diameter: O.D. 26.8mm/1 1/16" Flow: 22.5mm/7/8"

Maximum service pressure: 14bar/200PSI

Maximum ambient temperature: 107°C/225°F



Flexible hose		cULus listing data			
Hose Length	Sprinkler Thread Size	Max. Allow Sprinkler K-factor	Max. No. of 90° Bends	Min. Bending Radius	EQL of 33.7mm 1" SCH40 Pipe
mm in.	DN in.	Metric Imprl.	n x 90°	mm in.	meters feet
700	15	115		100	5.5
	3/4	8.0			18
28	20	202		3.9	7.3
	3/4	14.0			24
1000	15	115	2	100	10.1
	3/4	8.0			33
40	20	202		3.9	12.5
	3/4	14.0			41
1200	15	115	2	100	13.1
	3/4	8.0			43
48	20	202		3.9	14.0
	3/4	14.0			46
1500	15	115	3	100	19.2
	3/4	8.0			63
60	20	202		3.9	19.5
	3/4	14.0			64
1800	15	115	4	100	23.8
	3/4	8.0			78
72	20	202		3.9	24.4
	3/4	14.0			80



TECHNICAL SPECIFICATIONS

Style: MDFB

Braided Hose with Straight Nipple

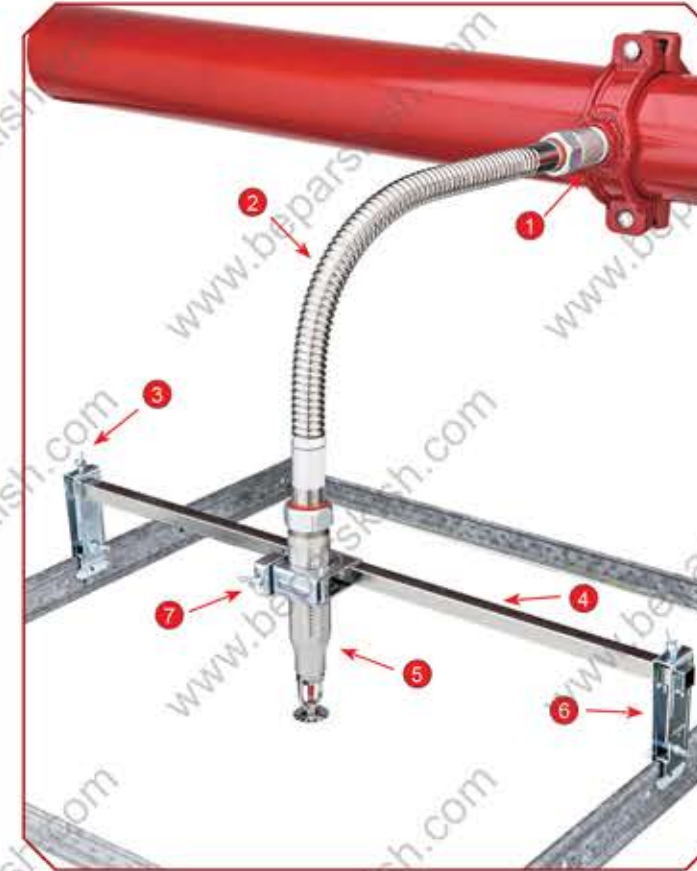


Connection: DN25xDN15 or DN20 (1"x 1/2" or 3/4")
 Hose Diameter: O.D. 26.8mm / 1 1/16" Flow: 21.0 / 3/16"
 Maximum service pressure: 14bar / 200PSI
 Maximum ambient temperature: 107°C / 225°F



Flexible hose		FM approval data				cULus listing data			
Hose Length	Sprinkler Thread Size	Max. Allow. Sprinkler K-factor	Max. No. of 90° Bends	Min. Bending Radius	EQL of 33.7mm/1" SCH40 Pipe	Max. Allow. Sprinkler K-factor	Max. No. of 90° Bends	Min. bending Radius	EQL of 33.7mm/1" SCH40 Pipe
mm in	DN in	Metric Impri	n x 90°	mm in	meters feet	Metric Impri	n x 90°	mm in	meters feet
700	15	115	1	250	8.1	81	2	100	7.6
	1/2	8.0			26.7	5.6			25.0
28	20	202	1	9.8	6.5	115	2	3.9	6.4
	3/4	14.0			21.5	8.0			21.0
1000	15	115	3	250	12.9	81	3	100	10.1
	1/2	8.0			42.6	5.6			33.0
40	20	202	3	9.8	12.0	115	3	3.9	11.0
	3/4	14.0			39.6	8.0			36.0
1200	15	115	3	250	16.2	81	3	100	11.9
	1/2	8.0			53.2	5.6			39.0
48	20	202	3	9.8	15.7	115	3	3.9	13.1
	3/4	14.0			51.6	8.0			43.0
1500	15	115	3	250	20.6	81	3	100	15.2
	1/2	8.0			67.8	5.6			50.0
60	20	202	3	9.8	19.3	115	3	3.9	15.8
	3/4	14.0			63.5	8.0			52.0
1800	15	115	4	250	25.1	81	3	100	17.7
	1/2	8.0			82.4	5.6			58.0
72	20	202	4	9.8	22.9	115	3	3.9	19.2
	3/4	14.0			75.4	8.0			63.0

STRUCTURE & MATERIAL SPECIFICATION



Description	Material	
Corrugated tube Braid & collar-rings	AISI 304 stainless steel	
Discharge Nipple	Straight	Galv. Steel ASTM 1020
	90° Bend	Galv. Steel ASTM 1020
Inlet Nipple	Galv. Steel ASTM 1020	
Hexagon Slip nut	Galv. Steel ASTM 1020	
Gasket	EPDM	
Isolation Ring	Nylon 66	
Center Bracket	Fast Center Bracket	Galv. Steel ASTM A283 Gr.D
	Regular Center Bracket	Galv. Steel ASTM A283 Gr.D
Side Bracket	Long Side Bracket	Galv. Steel ASTM A283 Gr.D
	Shot Side Bracket	Galv. Steel ASTM A283 Gr.D
Square Bar	Galv. Steel ASTM A283 Gr.B	
Bolts & Screws	Hexagon Screw Set	Galv. Steel ASTM A283 Gr.D
	Wing Screw Set	Galv. Steel ASTM A283 Gr.D



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.

USE MECH RADIUS CHECK HOSE HEND

Use outer edge check MDFU unbraided hoses

GREATER than ✓	EQUAL to ✓	SMALLER than ✗

Use inner edge check MDFB unbraided hoses

GREATER than ✓	EQUAL to ✓	SMALLER than ✗

HOSE BENDING, CORRECT OR WRONG

