

01-Mech Flexible Hose NEW V8.indd 1 10:70 AM





COMPANY PROFILE

- Quality Products since 1961
- Distribute to more than **130** countries and regions
- One stop supply for **Fire Protection**, HVAC, Gas, Water system, etc















PRODUCT & SERVICE

APPLICATION -



PRODUCT CATEGORY -









COMPANY HISTORY



Malleable Iron Pipe Fittings Cast Iron Fittings Steel Pipe Nipples Red Brass Pipe Nipples Business Started from Grey Iron Pot Export, Main Market: Southeast Asia Conduit Body Self Export, Developed US and European Market 1961 1987 1993 1960 1989 1992 1993 1994 1995 1996 1997 1991 1990 1995

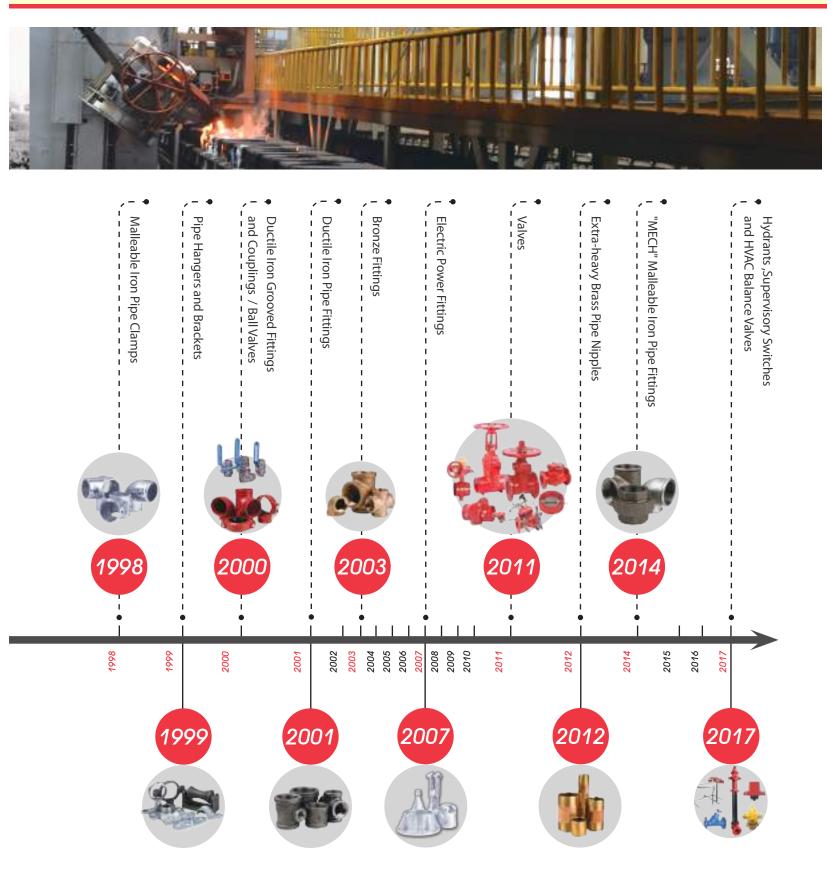


















CERTIFICATES









6



01-Mech Flexible Hose NEW V8.indd 6 10/7/21 10:10 AM







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 $107^{\circ}\text{C}/225^{\circ}\text{F}$.

• 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

Burst Test

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.

being as high as 70 bar

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.

10 times time saving 10X 100 The assurance of 100 against traditional installation bends without damage Faster circles 100% leak tested 100% Earth Reducing the damage prior to leaving the factory quake Tested in the earthquake 7.0Mpa The burst test pressure

U_DUS <









Style: MDFU

Unbraided Hose with Straight Nipple

listing: c

 $c (U_{\mathbb{B}} L)$ us

US (limited flexibility)

.ISTED

 $\label{eq:connection:DN25xDN15orDN20(1"x1/2"or3/4")} \\ Hose Diameter: O.D.26.8mm/11/16"Flow:22.5mm/7/8"$

Maximum service pressure: 14bar/200PSI Maximum ambient temperrature: $107\,^{\circ}\text{C}/225\,^{\circ}\text{F}$



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 ½	115 8.0	1	100	5.5 18	
28	20 ¾	202 14.0	1	3.9	7.3 24	
1000	15 ½	115 8.0	- 2	100 3.9	10.1 33	
40	20 ¾	202 14.0			12.5 41	
1200	15 ½	115 8.0	2	100 3.9	13.1 43	
48	20 ¾	202 14.0	2		14.0 46	
1500	15 ½	115 8.0	3	100 3.9	19.2 63	
60	20 ¾	202 14.0	3		19.5 64	
1800	15 ½	115 8.0	- 4	100 3.9	23.8 78	
72	20 ¾	202 14.0			24.4 80	

c UL U



8







Style: MDFB

Braided Hose with Straight Nipple

listing:

FM

Connection: DN25xDN15orDN20(1"x1/2"or3/4")
Hose Diameter: O.D.26.8mm/11/16"Flow:21.0/13/16"

Maximum service pressure: 14bar/200PSI Maximum ambient temperrature: $107^{\circ}\text{C}/225^{\circ}\text{F}$



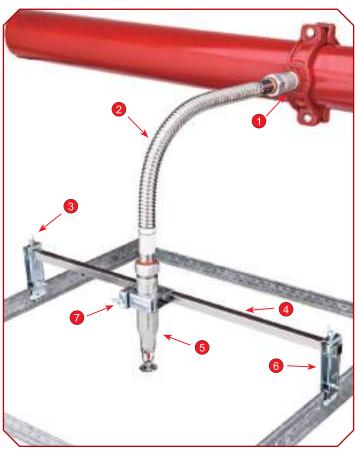
Flexible hose		FM approval data				cULus listing data			
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mm in.	DN in.	Metric Imprl.	n x 90°	mm in.	meters feet	Metric Imprl.	n x 90°	mm in.	meters feet
700	15 ½	115 8.0	- 1 250 9.8	250	8.1 26.7	81 5.6	2	100	7.6 25.0
28	20 ³⁄₄	202 14.0		6.5 21.5	115 8.0	2	3.9	6.4 21.0	
1000	15 ½	115 8.0	3	250 9.8	12.9 42.6	81 5.6	3	100 3.9	10.1 33.0
40	20 3⁄4	202 14.0			12.0 39.6	115 8.0			11.0 36.0
1200	15 ½	115 8.0	3	250 9.8	16.2 53.2	81 5.6	3	100 3.9	11.9 39.0
48	20 ¾	202 14.0			15.7 51.6	115 8.0			13.1 43.0
1500	15 ½	115 8.0		250 9.8	20.6 67.8	81 5.6	3	100 3.9	15.2 50.0
60	20 3⁄4	202 14.0	4		19.3 63.5	115 8.0			15.8 52.0
1800	15 ½	115 8.0	4	250 9.8	25.1 82.4	81 5.6	3	100 3.9	17.7 58.0
72	20 3⁄4	202 14.0			22.9 75.4	115 8.0			19.2 63.0







STRUCTURE & MATERIAL SPECIFICATION



	Description	Material		
	Corrugated tube	AISI 304 stainless steel		
Discharge Nipple	Straight	Galv Steel ASTM 1020		
NPT & BSPT	90° Bend	Galv Steel ASTM 1020		
Inlet	Nipple NPT & BSPT	Galv Steel ASTM 1020		
H	lexagon Slip nut	Galv Steel ASTM 1020		
	Gasket	EPDM		
	Isolation Ring	Nylon 66		
0 1 5 1 1	Fast Center Bracket	Galv. Steel ASTM A283 Gr.D		
Center Bracket	Regular Center Bracket	Galv. Steel ASTM A283 Gr.D		
Side Bracket	Long Side Bracket	Galv. Steel ASTM A283 Gr.D		
Side Bracket	Short Side Bracket	Galv. Steel ASTM A283 Gr.D		
Square	Bar 635mm & 1270mm	Galv. Steel ASTM A283 Gr.B		
Bolts & Screws	Hexagon Screw Set	Galv. Steel ASTM A283 Gr.D		
DOILS & SCREWS	Wing Screw Set	Galv. Steel ASTM A283 Gr.D		

Parts of The Complete Assembly Available for Purchase Individually.





1 Inlet Nipple

 Braided hose Unbraided hose





Wing screw set
 Hexagon screw set



4 Square Bar



5 × 90° bend × Straight



6 X Long side bracket X Short side bracket





7 % Center bracket regular % Fast center bracket



01-Mech Flexible Hose NEW V8.indd 10 10/7/21 10:10 AM

















Dimensions

	Inlet Options		Outiet Options				
	A			A	Δ		
Α	R1 (1" BSPT)*	Rc 1/2 (½" BSPT) ½" NPT*					
	1" NPT Rc 3/4 (¾" BSPT) ¾" NPT		Rc 3/4 (¾" BSPT) ¾" NPT	: 3/4 (¾" BSPT) ¾" NPT			
B mm	64	140	110	67.5	97.5		
C mm				43.5	43.5		

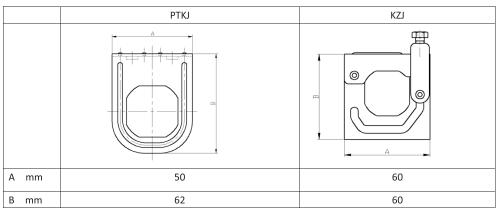
Material Specifications:

All inlets and outlets are made from carbon steel, zinc plated





Dimensions



CUL US

01-Mech Flexible Hose NEW V8.indd 11 10/7/21 10:10 AM



















Dimensions

	EZKJ	EJWJ	EEJZ	EEJZ	EDZJ	ECZJ
		B				
A	45.3	40	62.24	102	70	92
mm B	30	30	30	30	32	32
mm	30	30	50	50	32	32
	J-frame	C-frame	E-TYPE stents	E-type long bracket	Short support	Long support

Material Specifications

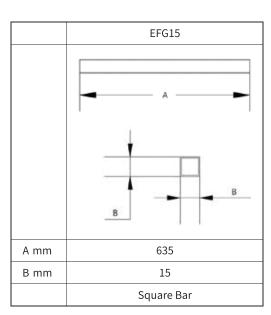
All brackets are made from mild steel, zinc plated.

Square Bar

 $\label{lem:lemm:model} Length \ (mm): \ 635mm/1000mm \ or \ customized \ according \ to \ customers \\ Material \ Specifications$



All brackets are made from mild steel, zinc plated.



12





01-Mech Flexible Hose NEW V8.indd 12 10/7/21 10:10 AM







HOW TO INSTALL









1- 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.

4- 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.









2- 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)









3- 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)

CULUS CISTED

APPROVED

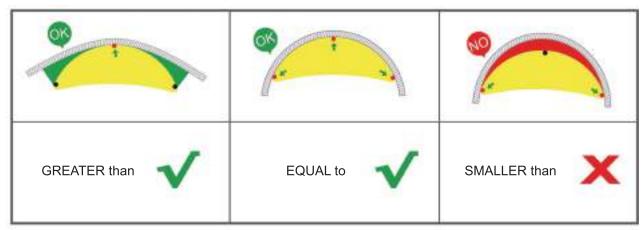




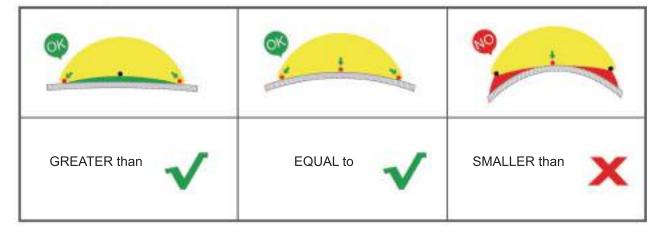


USE MECH RADIUS CHECK HOSE HEND

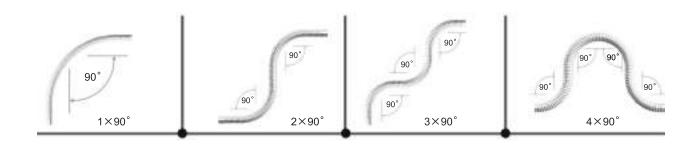
Use outer edge check MDFU unbraided hoses



Use inner edge check MDFB Braided hoses



HOSE BENDING, CORRECT OR WRONG

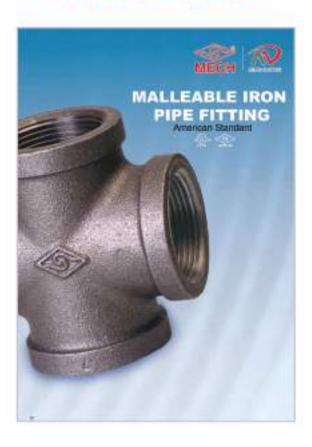


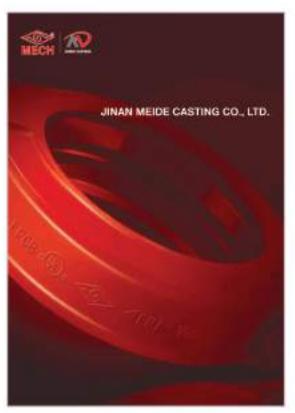
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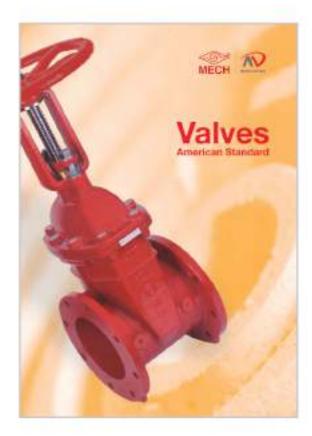


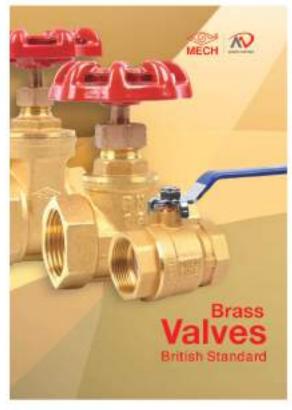


MECH FLOW SUPPLIES









01-Mech Flexible Hose NEW V8.indd 15 10/7/21 10:10 AM

