

SEISMIC SWAY BRACING SYSTEM



COMPANY PROFILE

UTTERLY is a high-tech enterprise integrating product design, research and development, production, sales and technical service. With the strong support from our ISO certified manufacturing facilities, including our foundry, tooling shop, machining shop, stamping shop, rubber shop and zinc plating mill, currently provide the following products/Service to our worldwide customers, especially FM/UL standard seismic sway bracing systems, fittings and hangers:

Utterly Products:

Seismic Sway Bracing, Structural Attachment, Quick Bracing Clamp, Pipe Clamp, Beam Adapter, Swivel Hanger, Clevis Hanger, Beam Clamp
Other Customized Products

One-Stop Procurement Service

In order to make our customer's job easier and more convenient, as one of mutual activities with our customers, we also work together for customer's local outsourcing and consolidation. In addition, we provide quality control, Import & export business handling and agency service if needed.

OEM/ODM Service

Since UTTERLY is customer closely tied company, any idea from our worldwide customers could spark a business opportunities. With our manufacturing facilities and experience in many production processes, such as engineering, tooling, casting, forging, stamping, machining, finish and so on, we can make it happen.

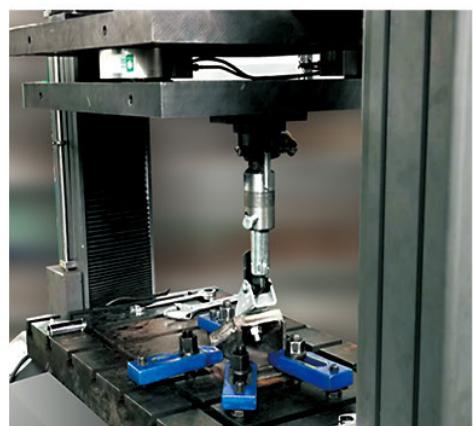
This is general company info. For the latest and most complete products, news, updates and additional information, please contact us. We invite you to work and grow together.





Utterly Intelligent Technology Co.,Ltd

UTTERLY®



WE ARE PRODUCERS

We do OEM,ODM and Customized Products as Well



UTT10 Structural Attachment

Structure -attachment Fitting

Function: Designed for bracing pipe against sway and seismic disturbance. The pipe attachment component of a sway brace system used in conjunction with a UTT Manufacturing structural attachment fitting, and joined together with a bracing pipe element forms a complete sway brace assembly. Sway brace assemblies are intended to be installed in accordance with NFPA 13 and the manufacturer's installation instructions.

Type: Sprinkler Pipe Sch 10,Sch 40,GB/T 3091,JIS G3454

Size: One size fits braced pipe up to 8",with 1/2"bolt hole for structure.

Material: Carbon steel

Finish: Electro - galvanized

Approvals:



UL Maximum Design Load					
Brace Member	lbs.	kN	Wt. Each		
			lb.	kg	
1 " SCH40 pipe	1885	(8.38)	1.54	(0.7)	

FM Maximum Design Load						
Brace Member	Horizontal load ratings installation angle 30° -44°		Horizontal load ratings installation angle 45° -59°		Wt. Each	
	lbs.	kN	lbs.	kN	lb.	kg
1 " SCH40 pipe	1490	(6.62)	1980	(8.80)	1.54	(0.7)

Step 1	Step 2	Step 3
Install:		

Install:

The connection mode of base part connected with the building. The connection between the base part and the building is completed. The accessories connected with the base part is sch40 1-inch pipe. The pipe must be clamped to the bottom of the base part, then fixed with the shear bolt. Tighten the shear bolt until heads break off. Tighten the shear bolt until heads break off.

UTT10Q Structural Attachment

Structure -attachment Fitting

Function: Designed for bracing pipe against sway and seismic disturbance. The pipe attachment component of a sway brace system used in conjunction with a UTT Manufacturing structural attachment fitting, and joined together with a bracing pipe element forms a complete sway brace assembly. Sway brace assemblies are intended to be installed in accordance with NFPA 13 and the manufacturer's installation instructions.

Type: Sprinkler Pipe Sch 10,Sch 40,GB/T 3091,JIS G3454

Size: One size fits braced pipe up to 8",with 1/2"bolt hole for structure.

Material: Carbon steel&Ductile iron QT450

Finish: Electro - galvanized

Approvals:



UL Maximum Design Load					
Brace Member	lbs.	kN	Wt. Each		
			lb.	kg	
1 " SCH40 pipe	1885	(8.38)	1.82	(0.83)	

Step 1	Step 2	Step 3
Install:		

Install:

The connection mode of base part connected with the building. The connection between the base part and the building is completed. The accessories connected with the base part is sch40 1-inch pipe. The pipe must be clamped to the bottom of the base part, then fixed with the shear bolt. Tighten the shear bolt until heads break off.



UTT20 Pipe Clamp SWAY –Brace Fitting

Function: Designed for bracing pipe against sway and seismic disturbance. The pipe attachment component of a sway brace system used in conjunction with a UTT Manufacturing structural attachment fitting, and joined together with a bracing pipe element forms a complete sway brace assembly. Sway brace assemblies are intended to be installed in accordance with NFPA 13 and the manufacturer's installation instructions.

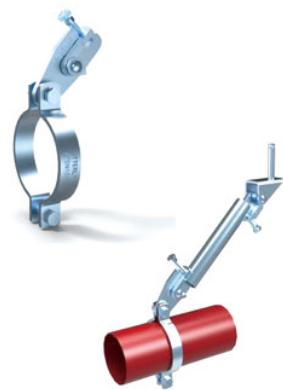
Type: Sprinkler Pipe Sch 10,Sch 40,GB/T 3091,JIS G3454

Size: Pipe size 2"(50)thru 8"(200)

Material: Carbon steel

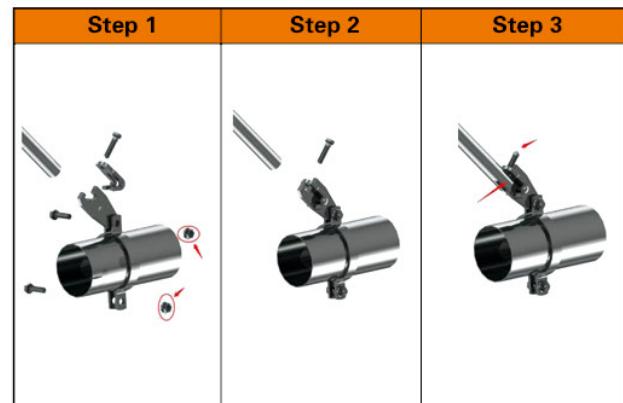
Finish: Electro-galvanized

Approvals:



UL Maximum Design Load					
Pipe Size	lbs.	kN	Wt. Each		
			1" (25mm) Brace Pipe		
			lb.	kg	
2 (50)	680	(3.02)	2.33	(1.06)	
2½ (65)	680	(3.02)	2.42	(1.1)	
3 (80)	680	(3.02)	2.55	(1.16)	
4 (100)	680	(3.02)	2.73	(1.24)	
5 (125)	1090	(4.84)	3.92	(1.78)	
6 (150)	1370	(6.09)	4.29	(1.95)	
8 (200)	1370	(6.09)	4.93	(2.24)	

FM Maximum Design Load					
Pipe Size	Horizontal load ratings installation angle 30° – 44°		Horizontal load ratings installation angle 45° – 59°		Wt. Each 1" (25mm) Brace Pipe
	lbs.	kN	lbs.	kN	
	2 (50)	1070 (4.75)	1440 (6.40)	0.92 (0.42)	
2½ (65)	840 (3.73)	1120 (4.98)	1.01 (0.46)		
3 (80)	1030 (4.58)	1560 (6.93)	1.08 (0.49)		
4 (100)	650 (2.89)	890 (3.95)	1.21 (0.55)		
6 (150)	830 (3.69)	1250 (5.56)	1.52 (0.69)		
8 (200)	880 (3.91)	1150 (5.11)	1.81 (0.82)		



Install:

Install the pipe clamp to the pipe, then install the bolts and nuts as the shown picture. The accessories of UTT20 use the sch40 1-inch pipe,The nuts torque of UTT 20 need to reach 100–115N·M to make all green marking lines visible in the bolts. After the installation of bolts & nuts and other accessories, the pipe must be clamped to the bottom of the accessories.

UTT 20Q Pipe Clamp SWAY –Brace Fitting

Function: Designed for bracing pipe against sway and seismic disturbance. The pipe attachment component of a sway brace system used in conjunction with a UTT Manufacturing structural attachment fitting, and joined together with a bracing pipe element forms a complete sway brace assembly. Sway brace assemblies are intended to be installed in accordance with NFPA 13 and the manufacturer's installation instructions.

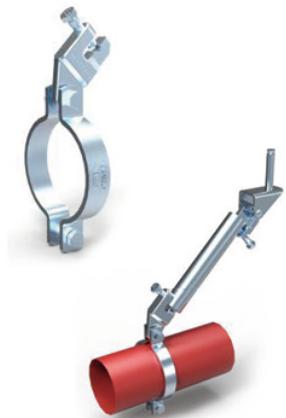
Type: Sprinkler Pipe Sch 10,Sch 40,GB/T 3091,JIS G3454

Size: Pipe size 2"(50)thru 8"(200)

Material: Carbon steel&Ductile iron QT450

Finish: Electro-galvanized

Approvals:



UL Maximum Design Load					
Pipe Size	lbs.	kN	Wt. Each		
			1" (25mm) Brace Pipe		
			lb.	kg	
2 (50)	680	(3.02)	2.13	(0.97)	
2½ (65)	680	(3.02)	2.24	(1.02)	
3 (80)	680	(3.02)	2.35	(1.07)	
4 (100)	680	(3.02)	2.53	(1.15)	
5 (125)	1090	(4.84)	3.72	(1.69)	
6 (150)	1370	(6.09)	4.10	(1.86)	
8 (200)	1370	(6.09)	4.76	(2.16)	



Install:

Install the pipe clamp to the pipe, then install the bolts and nuts as the shown picture. The accessories of UTT20Q use the sch40 1-inch pipe,The nuts torque of UTT 20Q need to reach 100–115N·M,After the installation of bolts & nuts and other accessories, the pipe must be clamped to the bottom of the accessories. After the installation of bolts & nuts and other accessories, the pipe must be clamped to the bottom of the accessories.



UTT11 Beam Adapter

Structure-attachment Adapter



Function: Designed for bracing pipe against sway and seismic disturbance. The pipe attachment component of a sway brace system used in conjunction with a UTT Manufacturing structural attachment fitting, and joined together with a bracing pipe element forms a complete sway brace assembly. Sway brace assemblies are intended to be installed in accordance with NFPA 13 and the manufacturer's installation instructions.

Type: Sprinkler Pipe Sch 10,Sch 40,GB/T 3091,JIS G3454

Size: One size fits braced pipe up to 8",with 1/2" bolt hole for structure.

Material: Ductile iron QT450

Finish: Electro - galvanized

Approvals:

UL Maximum Design Load					
Brace Member	lbs.	kN	Wt. Each		
			lb.	kg	
1 " SCH40 pipe	1890	(4.84)	1.94	(0.88)	

FM Maximum Design Load						
Brace Member	Horizontal load ratings installation angle 30°~44°		Horizontal load ratings installation angle 45°~59°		Wt. Each	
	lbs.	kN	lbs.	kN	lb.	kg
1 " SCH40 pipe	970	(4.31)	1660	(7.38)	1.94	(0.88)



Install:

The installation procedure of UTT11 accessories as shown in the figure, the connecting accessories use the UTT10, the installation torque of bolt is 50~65N•M.Tighten the shear bolt until heads break off after gripping the H steel. The maximum thickness of H steel is 16mm.

UTT18 U Lateral Bracing Clamp

SWAY –Brace Fitting



Function: Designed for bracing pipe against sway and seismic disturbance. The pipe attachment component of a sway brace system used in conjunction with a UTT Manufacturing structural attachment fitting, and joined together with a bracing pipe element forms a complete sway brace assembly. Sway brace assemblies are intended to be installed in accordance with NFPA 13 and the manufacturer's installation instructions.

Type: Sprinkler Pipe Sch 10,Sch 40,GB/T 3091,JIS G3454

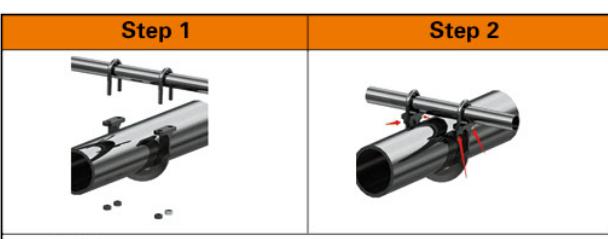
Size: Pipe size 1½"(40) thru 8"(200).

Material: Ductile iron QT450

Finish: Electro - galvanized

Approvals:

UL Maximum Design Load					
Pipe Size	lbs.	kN	Wt. Each		
			1" (25mm) Brace Pipe	lb.	kg
1½ (40)	680	(3.02)	1.23	(0.56)	
2 (50)	680	(3.02)	1.36	(0.62)	
2½ (65)	680	(3.02)	1.45	(0.66)	
3 (80)	680	(3.02)	1.54	(0.70)	
4 (100)	680	(3.02)	1.76	(0.80)	
5 (125)	1090	(4.84)	2.16	(0.98)	
6 (150)	1370	(6.09)	2.20	(1.00)	
8 (200)	1370	(6.09)	2.79	(1.27)	



Install:

The pipe clamp with pipe and other accessories' connection is as shown in the figure.The accessories of UTT18 use the sch40 1-inch pipe.Tightened the nuts until 40~45N•M once the four nuts are installed, the installation is complete.



UTT13 U Quick Lateral Bracing Clamp SWAY –Brace Fitting



Function: Designed for bracing pipe against sway and seismic disturbance. The pipe attachment component of a sway brace system used in conjunction with a UTT Manufacturing structural attachment fitting, and joined together with a bracing pipe element forms a complete sway brace assembly. Sway brace assemblies are intended to be installed in accordance with NFPA 13 and the manufacturer's installation instructions.

Type: Sprinkler Pipe Sch 10,Sch 40,GB/T 3091,JIS G3454

Size: Pipe size 1"(25)thru 8"(200)"

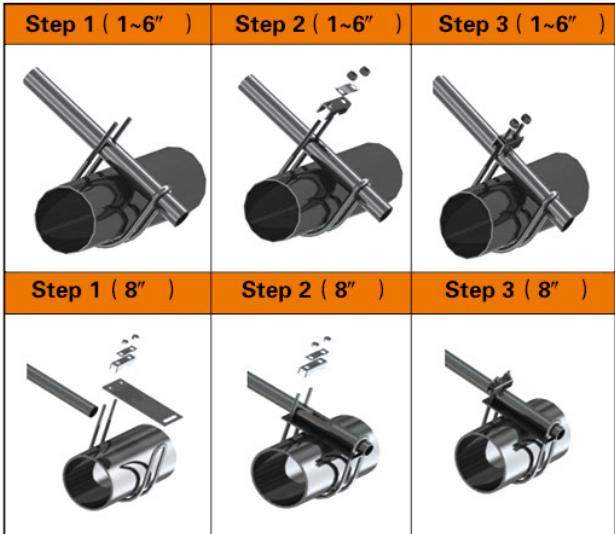
Material: Carbon steel

Finish: Electro-galvanized

Approvals: UL:pipe size 1"(25)thru 8"(200); FM:pipe size 2"(50)thru 8"(200)



UL Maximum Design Load					
Pipe Size	lbs.	kN	Wt. Each		
			1" (25mm) Brace Pipe		
			lb.	kg	
1 (25)	680	(3.02)	0.71	(0.35)	
1 ¹ / ₄ (32)	680	(3.02)	0.81	(0.37)	
1 ¹ / ₂ (40)	680	(3.02)	0.86	(0.39)	
2 (50)	680	(3.02)	0.92	(0.42)	
2 ¹ / ₂ (65)	680	(3.02)	1.01	(0.46)	
3 (80)	680	(3.02)	1.08	(0.49)	
4 (100)	680	(3.02)	1.21	(0.55)	
5 (125)	1090	(4.84)	1.37	(0.62)	
6 (150)	1370	(6.09)	1.52	(0.69)	
8 (219)	1370	(6.09)	1.81	(0.82)	



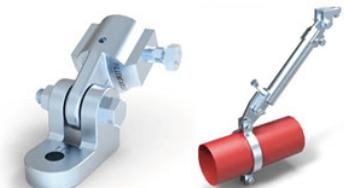
FM Maximum Design Load						
Pipe Size	Horizontal load ratings installation angle 30° -44°		Horizontal load ratings installation angle 45° -59°		Wt. Each	
	lbs.	KN	lbs.	KN	lb.	kg
2 (50)	590	(2.62)	840	(3.73)	0.92	(0.42)
2 ¹ / ₂ (65)	710	(3.15)	1010	(4.49)	1.01	(0.46)
3 (80)	540	(2.40)	770	(3.42)	1.08	(0.49)
4 (100)	540	(2.40)	770	(3.42)	1.21	(0.55)
6 (150)	270	(1.20)	390	(1.73)	1.52	(0.69)
8 (200)	210	(0.93)	290	(1.28)	1.81	(0.82)

Install:

Place over the pipe to be braced, adjust brace angle, and insert bracing pipe through opening leaving a minimum of 1" (25.4) extending from attachment. Brace pipe can be installed on top or bottom of pipe to be braced but must be a minimum of 6" (152.4) away from a pipe joint. Tighten nuts down evenly until 30-35N·M to make all green making lines visible.

UTT071 Structural Attachment

Structure –attachment Fitting



Function: Designed for bracing pipe against sway and seismic disturbance. The pipe attachment component of a sway brace system used in conjunction with a UTT Manufacturing structural attachment fitting, and joined together with a bracing pipe element forms a complete sway brace assembly. Sway brace assemblies are intended to be installed in accordance with NFPA 13 and the manufacturer's installation instructions.

Type: Sprinkler Pipe Sch 10,Sch 40,GB/T 3091,JIS G3454

Size: One size fits braced pipe up to 8",with 1/2" bolt hole for structure.

Material: Ductile iron QT450

Finish: Electro - galvanized

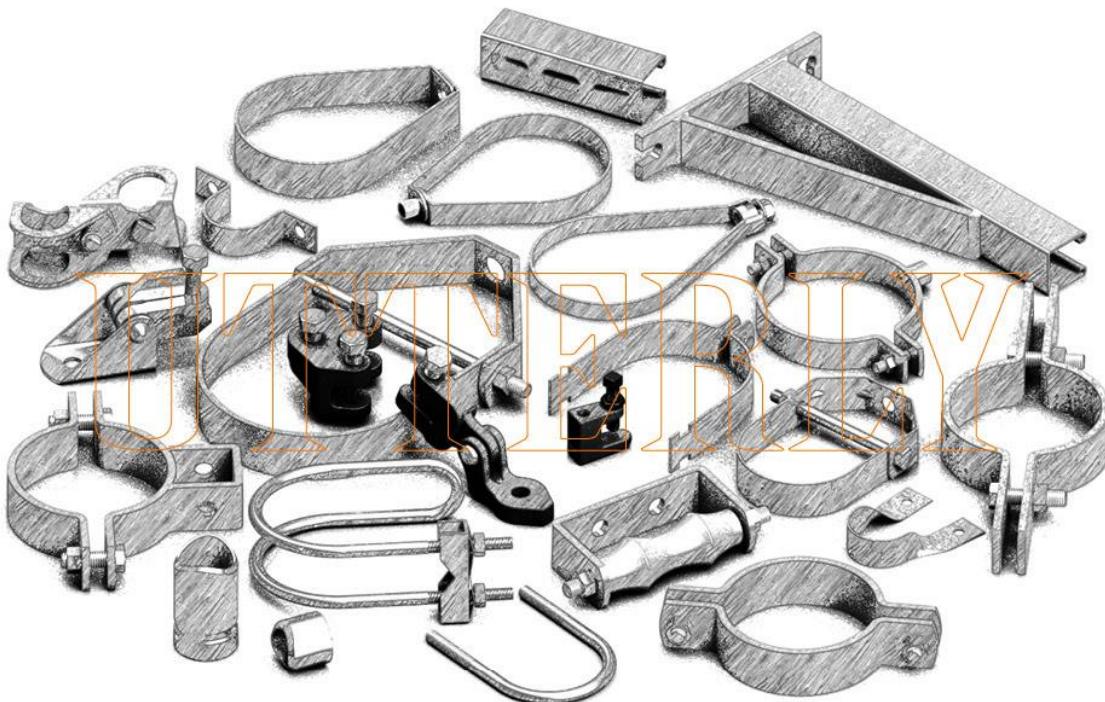
Approvals: UL CE

UL Maximum Design Load					
Brace Member	lbs.	kN	Wt. Each		
			lb.	kg	
1" SCH40 pipe	1885	(8.38)	2.22	(1.01)	



Install:

The installation mode of UTT071's base part confined with the building ,the installation torque of bolt M12 is 50-65N·M.The accessories of UTT071 base part use the sch40 1-inch pipe .The connecting pipe should be inserted into the bottom according to the direction shown in the figure, and tighten with shear bolt. Tighten the shear bolt until heads break off, the installation is complete.



WE DO.....

Sway Bracing Components
Beam Clamp
Swivel Hanger
Clevis Hanger
C Pipe Loop
Strut Channel
U Bolt
Pipe Strap
Pipe Clamp
Riser

