A

SHIPPING BAR

45° L.R. ELBOW

HOSE & BRAID

90° L.R. ELBOW

MALE NPT END

B

AIR RELEASE OR DRAIN PLUG

SUPPORT BRACKET

UL® LISTED

FOR FIRE SPRINKLER SYSTEMS

MATERIALS OF CONSTRUCTION
END FITTINGS - CARBON STEEL - SCH 40
HOSE & BRAID - STAINLESS STEEL - 300 SERIES
ELBOWS - CARBON STEEL - SCH 40

NOTE: FIREVOOP INSTALLED IN ANY ORIENTATION OTHER THAN HANGING DOWN _MUST_ HAVE THE 180° RETURN SUPPORTED. (SEE INSTALLATION INSTRUCTIONS.)

CONTACT FACTORY FOR ADDITIONAL SIZES AND MOVEMENTS. ALL DIMENSIONS IN INCHES.

QTY	SIZE	MODEL	MOVEMENT	A	B	PSI	WT (LBS)	PROJECT INFO
	0.5" (15mm)	VLUT160050	+/- 8"	30.875"	11.625"	300	3	
	0.75" (20mm)	VLUT160075	+/- 8"	34.375"	13.375"	300	4	
	1" (25mm)	VLUT160100	+/- 8"	36"	14.125"	300	5	
	1.25" (32mm)	VLUT160125	+/- 8"	38.625"	15.375"	300	7	
	1.5" (40mm)	VLUT160150	+/- 8"	41.125"	16.5"	300	9	
	2" (50mm)	VLUT160200	+/- 8"	46"	18.5"	300	14	

SUITABLE FOR USE IN DRY PIPE SYSTEMS
FOR TEMPERATURES TO -40°F.

REV.		DATE

**Metraflex®**
for pipes in motion

2323 W. HUBBARD ST.
CHICAGO, IL 60612
TEL: 312-738-3800
WWW.METRAFIRE.COM

METRAFLEX FIREVOOP™
THREAD ENDS, +/- 8" MOVEMENT

DRAWN BY: **DKISH**	DATE: **8/24/2015**
APPROVED: **ZB**	DATE: **8/24/2015**
SCALE: N/A	DRAWING NUMBER: VLUT16NEW

CUSTOMER:_____

PROJECT:_____

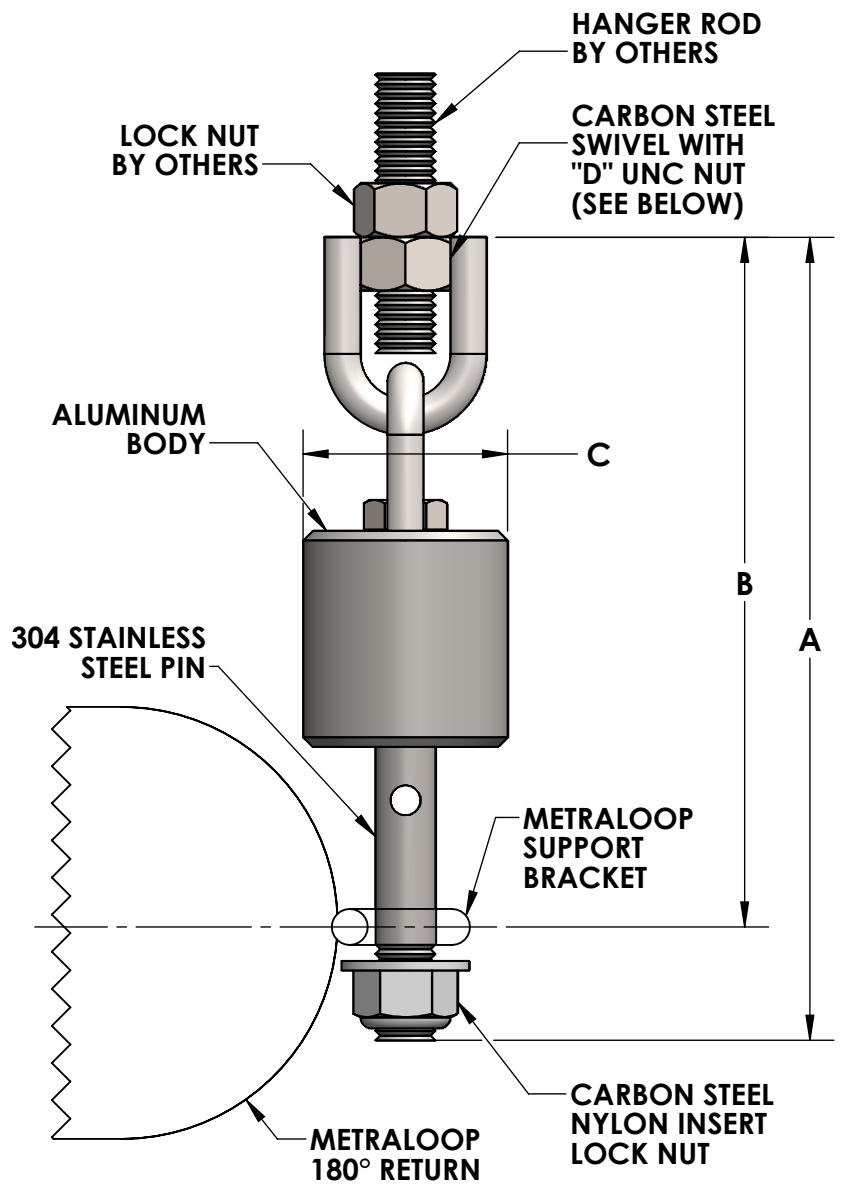ENGINEER:_____

©2015 The Metraflex Co.
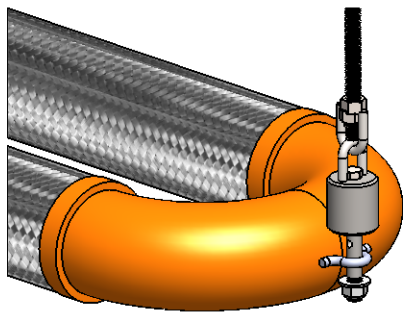
METRALOOP WITH SEISMIC BREAKAWAY HANGER
(FORMERLY BREAKAWAY COUPLING)
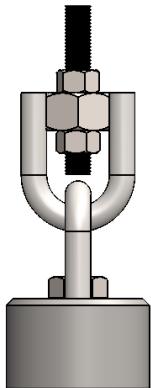
IF THE HANGER ROD IS SMALLER THAN THE NUT OF THE SWIVEL HANGER, SIMPLY SLIDE THE UNDERSIZED ROD THROUGH THE NUT AND FASTEN WITH THE APPROPRIATE SIZED NUTS.
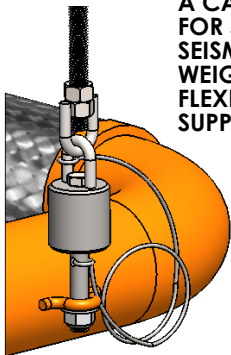
A CABLE TETHER IS SUPPLIED FOR SUPPORTING LARGE SEISMIC LOOPS WHOSE WEIGHT OR EXTREME FLEXIBILITY MAY REQUIRE SUPPORT.

HANGER ROD BY OTHERS

CARBON STEEL SWIVEL WITH "D" UNC NUT (SEE BELOW)

LOCK NUT BY OTHERS

ALUMINUM BODY

C

B

A

304 STAINLESS STEEL PIN

METRALOOP SUPPORT BRACKET

CARBON STEEL NYLON INSERT LOCK NUT

METRALOOP 180° RETURN

SEISMIC BREAKAWAY HANGER SIZING CHART				
LOOP SIZE	LOOP MOVEMENT			
	±4"	±8"	±16"	±24"
1/2"	NOT REQUIRED		SBH65	SBH65
3/4"			SBH65	SBH65
1"			SBH65	SBH65
1-1/4"			SBH65	SBH65
1-1/2"			SBH65	SBH65
2"			SBH65	SBH80
2-1/2"		SBH80	SBH80	SBH130
3"	SBH80	SBH80	SBH130	SBH130
4"	SBH130	SBH130	SBH130	SBH200
5"	SBH130	SBH130	SBH200	SBH400
6"	SBH200	SBH200	SBH400	SBH400
8"	SBH400	SBH650	SBH650	SBH650

QTY	PART #	A (in)	B (in)	C (in)	D (in)
	SBH30	7.25	6.375	2.125	5/8"
	SBH45	7.25	6.375	2.125	5/8"
	SBH65	7.25	6.375	2.125	5/8"
	SBH80	7.25	6.375	2.125	5/8"
	SBH130	9.75	8.75	2.875	5/8"
	SBH200	9.75	8.75	2.875	3/4"
	SBH400	12.75	11.625	2.875	3/4"
	SBH650	12.75	11.625	2.875	3/4"

REV.		DATE

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SEISMIC BREAKAWAY HANGER
(FORMERLY BREAKAWAY COUPLING)

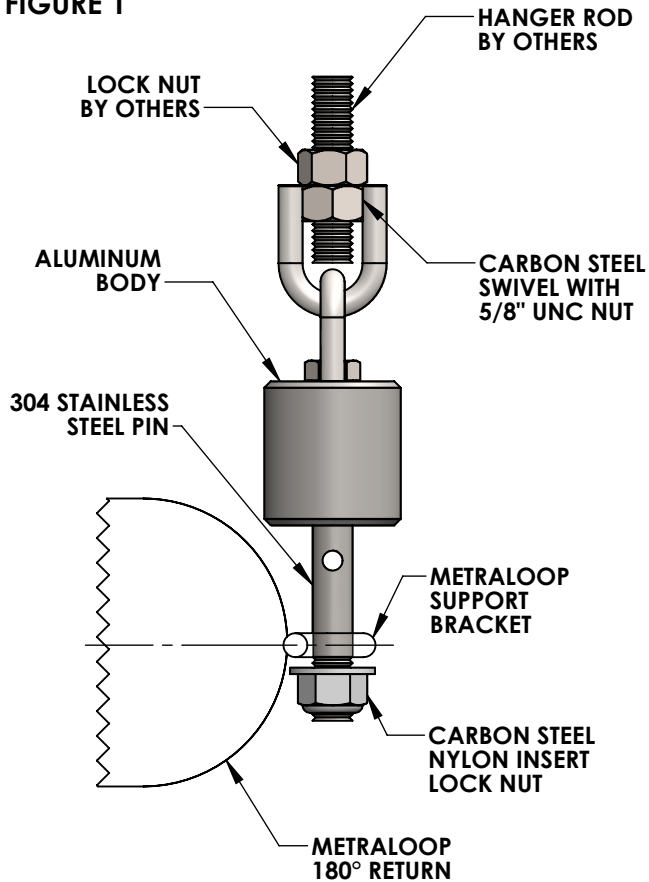| DRAWN BY: DKISH	DATE: 9/25/2018
APPROVED:	DATE:
SCALE: N/A	DRAWING NUMBER: SBH-4

CUSTOMER:_____

PROJECT:_____

ENGINEER:_____

METRAFLEX SEISMIC BREAKAWAY HANGER
OPERATION, INSTALLATION, AND MAINTENANCE INSTRUCTIONS

General: The purpose of the Metraflex Seismic BreakAway Hanger is to support the flexible element of a seismic joint such as the Metraloop. During a seismic event, the Seismic BreakAway Hanger will break free allowing the seismic joint to freely move in its complete range of motion. After the seismic event, the Metraflex Seismic BreakAway Hanger can be simply reassembled.

Application: Each Metraflex Seismic BreakAway Hanger is factory set for a specific load and will be matched to a specific Metraloop or other seismic joint. The Metraflex Seismic BreakAway Hanger is installed in the hanger rod of the seismic joint. For the Metraloop product this will be located at the 180° return fitting. For Dog Leg products this will be at the 90° elbow. For large movement units, Seismic BreakAway Hangers may be required to support the flexible hose, see figure 4 and 4A.

Tethers: Tethers are used to prevent the seismic joint from over flexing and are included on all Seismic BreakAway Hangers.

Installation:
1. The Metraflex Seismic BreakAway Hanger should be installed as close to the seismic joint as possible. See figure 1.
2. Insure that the correct size Hanger has been selected for installation by reviewing the submittal.
3. The swivel eye bolt should be installed in the top position attached to rod or cable that complies with the contract documents. See figure 1 and 2.
4. A male thread is provided for connection to the seismic joint. See figure 1 and 2.
5. Apply the no step stickers provided with the Hanger to the pipe / insulation cover.

Caution:
1. When lifting from the flexible hose, never point load the hose during the installation process, always use a saddle. The hose consists of corrugated stainless steel hose and can be damaged.
2. The Seismic BreakAway Hanger is designed for a specific load based on the size and configuration of the seismic joint. People walking on the seismic joint or other outside loads on the devise can result in premature breaking of the coupling and should be avoided. No Step warning stickers have been provided with the Seismic BreakAway Hanger for larger pipe sizes.
3. When installing a seismic joint with multiple Seismic BreakAway Hangers, evenly lift the seismic device into place. Do not over flex the hose.

Testing:
Each Seismic BreakAway Hanger is factory tested prior to shipment. No field testing is necessary.

Maintenance:
The Metraflex Seismic BreakAway Hanger does not require maintenance and there are no serviceable parts. If the Hanger is ever pulled apart, for any reason, simply insert the pin back into the Hanger until it is bottomed out. For Hangers designed to support larger seismic connections a "C-clamp" may be required to push the pin for reassembly.

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CUSTOMER:_____

PROJECT:_____

ENGINEER:_____

SEISMIC BREAKAWAY HANGER
OPERATION, INSTALLATION, AND MAINTENANCE INSTRUCTIONS

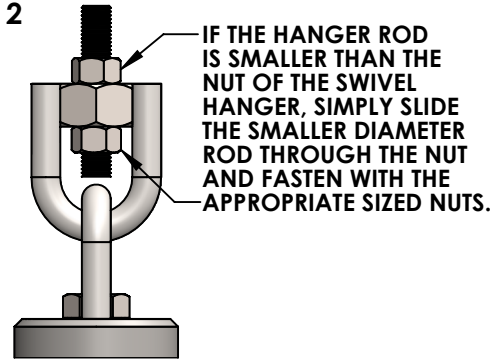|		
DRAWN BY: DKISH		DATE: 11/12/2015
APPROVED: JC		DATE: 11/12/2015
SCALE: N/A	DRAWING NUMBER:	SBH-OIM 1 of 2

METRAFLEX SEISMIC BREAKAWAY HANGER
OPERATION, INSTALLATION, AND MAINTENANCE INSTRUCTIONS

INSTRUCTIONS CONTINUED:

FIGURE 1

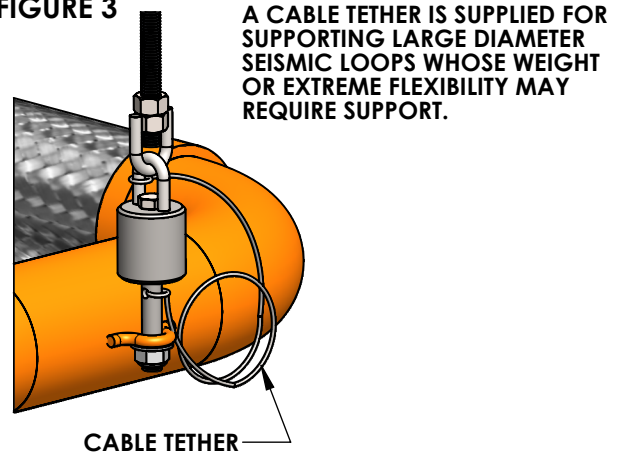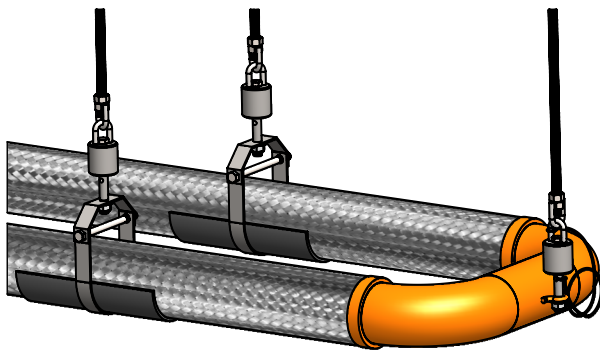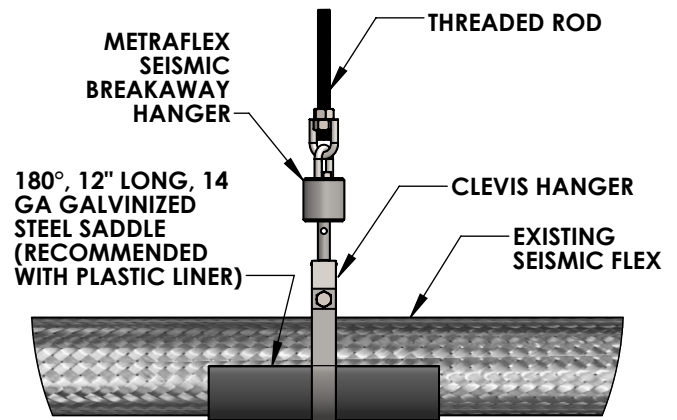HANGER ROD BY OTHERS

LOCK NUT BY OTHERS

ALUMINUM BODY

CARBON STEEL SWIVEL WITH 5/8" UNC NUT

304 STAINLESS STEEL PIN

METRALOOP SUPPORT BRACKET

CARBON STEEL NYLON INSERT LOCK NUT

METRALOOP 180° RETURN

FIGURE 2

IF THE HANGER ROD IS SMALLER THAN THE NUT OF THE SWIVEL HANGER, SIMPLY SLIDE THE SMALLER DIAMETER ROD THROUGH THE NUT AND FASTEN WITH THE APPROPRIATE SIZED NUTS.

FIGURE 3

A CABLE TETHER IS SUPPLIED FOR SUPPORTING LARGE DIAMETER SEISMIC LOOPS WHOSE WEIGHT OR EXTREME FLEXIBILITY MAY REQUIRE SUPPORT.

CABLE TETHER

FIGURE 4

UNITS CAN ALSO BE USED WITH SADDLES TO PREVENT LONG FLEXIBLE LEGS ON LARGE LOOPS FROM SAGGING.

FIGURE 4A

THREADED ROD

METRAFLEX SEISMIC BREAKAWAY HANGER

180°, 12" LONG, 14 GA GALVINIZED STEEL SADDLE (RECOMMENDED WITH PLASTIC LINER)

CLEVIS HANGER

EXISTING SEISMIC FLEX

CUSTOMER:_____

PROJECT:_____

ENGINEER:_____

SEISMIC BREAKAWAY HANGER
OPERATION, INSTALLATION, AND MAINTENANCE INSTRUCTIONS

DRAWN BY: DKISH	DATE: 11/10/2015
APPROVED: JC	DATE: 11/11/2015

SCALE: N/A	DRAWING NUMBER: SBH-OIM 2 of 2