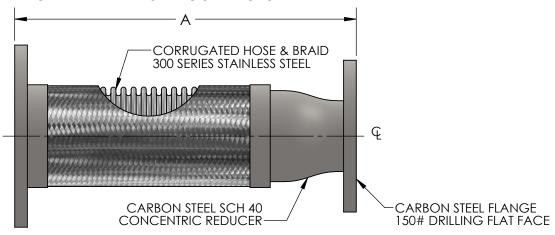
No	:			

SUBMITTAL COVERSHEET Nanuet UFSD -Phase 3 Projects

Architect: KSQ Architects 215 W 40 th Street,15 th Floor New York, NY 10018	Owner: Nanuet Union Free School District 101 Church Street Nanuet, NY 10954	Construction Manager: Jacobs One Penn Plaza, 54 th floor New York, NY 10019
Contractor: Joe Lombardo Plumbing & He	eating of Rockland Inc	Contract: Ron Lombardo
Address: 321 Spook Rock Road Suite 109	9A	845-357-6537 Telephone:
Suffern, New York 10901		Fax: 845-357-8529
School Name: Nanuet Union Free School	District Phase 3 Bond Projects @ Barr	Middle School & Nanuet High School
Type of Submittal:	Re-su	ubmittal: [] No
[] Shop Drawings	a [] Schedule [] San [] Color Sample [] Wa	mple [] rranty []
Submittal Description: EXPANSION FITTING Product Name:	GS AND LOOPS FOR HVAC P	IPING
Manufacturer: B&G		
Subcontractor/ WALLACE EANNA Supplier:	ACE	
References:		
Spec. Section No.: 230516		Dunwing No/o)
		Drawing No(s):
Paragraph:		Rm. or Detail No(s):
	Contractor Review	Rm. or Detail No(s):
Paragraph:	These documents coordinated with joby this office and ha	Rm. or Detail No(s):
Paragraph:	These documents coordinated with joby this office and ha	Rm. or Detail No(s): Statement: have been checked for accuracy and b conditions and Contract requirements ave been found to comply with the ontract Documents.
Paragraph:	These documents coordinated with joby this office and haprovisions of the Co	Rm. or Detail No(s): Statement: have been checked for accuracy and b conditions and Contract requirements ave been found to comply with the ontract Documents.
Paragraph:	These documents coordinated with joby this office and haprovisions of the Control Ronald J. Lombar Name:	Rm. or Detail No(s): Statement: have been checked for accuracy and b conditions and Contract requirements ave been found to comply with the ontract Documents. Tdo 9-14-23
Paragraph:	These documents coordinated with joby this office and haprovisions of the Control Ronald J. Lombar Name:	Rm. or Detail No(s): Statement: have been checked for accuracy and b conditions and Contract requirements ave been found to comply with the ontract Documents. Indo 9-14-23 Date:
Paragraph:	These documents coordinated with joby this office and haprovisions of the Control Ronald J. Lombar Name:	Rm. or Detail No(s): Statement: have been checked for accuracy and b conditions and Contract requirements ave been found to comply with the ontract Documents. Indo 9-14-23 Date:

MODEL RMF REDUCING FLANGED FLEXIBLE PUMP CONNECTOR



OTV	DA DE AULA ADED	PIPE	SIZE		PRESSURE	WEIGHT	DDG IFOT INFORMATION
QTY	PART NUMBER	LARGER	SMALLER	Α	RATING (PSI)*	(LBS)	PROJECT INFORMATION
	RMF0215	2"	1-1/2"	12-1/4"	516	10	
	RMF2502	2-1/2"	2"	12-1/4"	387	15	
	RMF0315		1-1/2"				
	RMF0302	3"	2"	12-1/4"	316	17	
	RMF0325		2-1/2"				
	RMF0402		2"				
	RMF0425	4''	2-1/2"	12-3/4"	232	22	
	RMF0403		3"				
	RMF0525		2-1/2"				
	RMF0503	5"	3"	15-3/4"	191	31	
	RMF0504		4"				
	RMF0602		2"				
	RMF0625		2-1/2"				
	RMF0603	6"	3"	16-1/4"	165	36	
4	RMF0604		4"				P-3 & 4
	RMF0605		5"				
	RMF0804		4"				
	RMF0805	8"	5"	17-1/2"	234	65	
	RMF0806		6"				
	RMF1006	10"	6"	19-1/2"	230	97	
	RMF1008	10	8"	17-1/2	230	7/	
_	RMF1206		6"				
	RMF1208	12"	8"	21-1/2"	161	137	
	RMF1210		10"				

*FOR SAFE WORKING PRESSURE ABOVE 70°F, MULTIPLY THE PRESSURE SHOWN AT 70°F TIMES THE CORRECTION FACTOR OF THE REQUIRED TEMPERATURE.

TEMPERATURE (°F)	FACTOR
70	1.0
200	.91
300	.85
400	.78
500	.77
600	.76

CUSTOMER:
PROJECT:
ENGINEER:

MAX INTERMITTENT OFFSET FROM CENTERLINE 1/8" MAX PERMANENT OFFSET FROM CENTERLINE 3/8"

NSF 372 - LEAD FREE

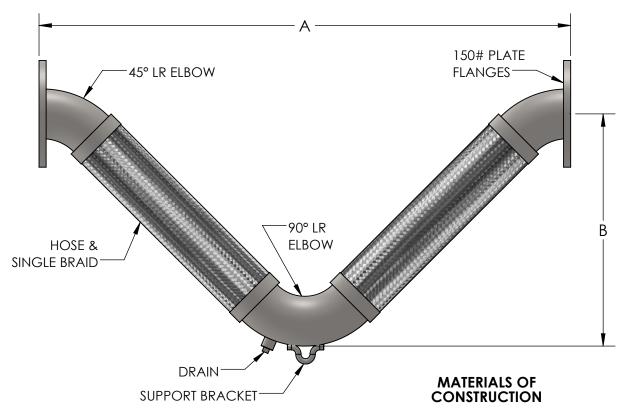
The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (0.25%) of lead by weight. Material complies with state codes and standards, where applicable, requiring reduced lead content. Not suitable for potable water systems due to materials of construction.

	2	RMF1210 ADDED	6/25/2019
REV.	1	TEMP FACTOR UPDATED	DATE 12/28/2016
for pipe	es in	ratlex.	2323 W. HUBBARD ST. CHICAGO, IL 60612 FEL: 312-738-3800 FAX: 312-738-0415 WWW.METRAFLEX.COM

MODEL RMF

REDUCING FLANGED FLEXIBLE PUMP CONNECTOR

DRAWN BY: D I	KISH	DAIE:	1/10/2014		
APPROVED: J (DATE:	1/10/2014		
SCALE: N/A	DRAWING NUMBER: RMF-2				
1 1/ / 1		137711			



END FITTINGS - CARBON STEEL - SCH 40/STD WT HOSE & BRAID - STAINLESS STEEL - 300 SERIES ELBOWS - CARBON STEEL - SCH 40/STD WT

NOTE: V-LOOPS 2" AND LARGER INSTALLED IN ANY ORIENTATION OTHER THAN HANGING DOWN <u>MUST</u> HAVE THE 180° RETURN SUPPORTED. (SEE INSTALLATION INSTRUCTIONS.)

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

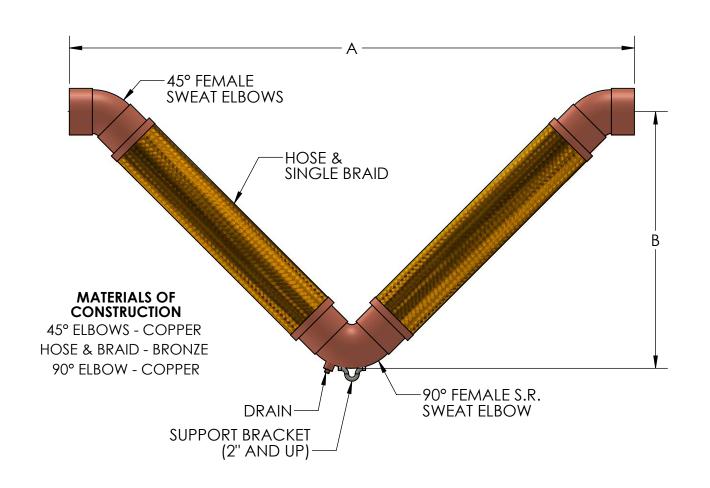
QTY	SIZE	MODEL	MOVEMENT	Α	В	PSI @ 70° F	WT (LBS)	PROJECT INFO
	2" (50mm)	VLF80200	+/- 4"	31.75"	14.25"	516	16	
	2.5" (65mm)	VLF80250	+/- 4"	38"	16.875"	387	24	
	3" (80mm)	VLF80300	+/- 4"	41"	18.125"	316	30	
2	4" (100mm)	VLF80400	+/- 4''	47.375"	20.75"	232	46	
	5" (125mm)	VLF80500	+/- 4"	53.5"	23.125"	191	68	
	6" (150mm)	VLF80600	+/- 4"	60''	25.625"	165	95	
	8" (200mm)	VLF80800	+/- 4''	70.125"	29.125"	234	186	
	10" (250mm)	VLF81000	+/- 4"	82.5"	33.875"	230	287	
	12" (300mm)	VLF81200	+/- 4''	94.5"	38.375"	161	412	

NSF 372 - LEAD FREE

The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (0.25%) of lead by weight. Material complies with state codes and standards, where applicable, requiring reduced lead content. Not suitable for potable water systems due to materials of construction.

CUSTOMER:	
PROJECT:	
ENGINEER:	

REV.	DATE
Metro for pipes in motion	2323 W. HUBBARD ST. CHICAGO, IL 60612 TEL: 312-738-3800 WWW.METRAFLEX.COM
METRA	FLEX V-LOOP
	NDS, +/- 4" MOVEMENT
DRAWN BY: SMARTEN	
APPROVED: DKISH	DATE: 8/3/2015
SCALE: DRAWING NONE	G NUMBER: VLF8



NOTE: V-LOOPS 2" AND LARGER INSTALLED IN ANY ORIENTATION OTHER THAN HANGING DOWN <u>MUST</u> HAVE THE 180° RETURN SUPPORTED. (SEE INSTALLATION INSTRUCTIONS.)

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

QTY	SIZE	MODEL	MOVEMENT	Α	В	PSI @ 70° F	WT (LBS)	PROJECT INFO
	0.5" (15mm)	VLS80050	+/- 4"	19.25"	9"	706	4	
	0.75" (20mm)	VLS80075	+/- 4"	22.25"	10.25"	577	5	
	1" (25mm)	VLS80100	+/- 4"	25.75"	11.75"	470	6	
2	1.25" (32mm)	VLS80125	+/- 4''	28.75"	13.25"	361	8	
	1.5" (40mm)	VLS80150	+/- 4"	30.75"	14.125"	329	10	
	2" (50mm)	VLS80200	+/- 4"	34.125"	15.625"	317	14	
	2.5" (65mm)	VLS80250	+/- 4"	39.125"	17.75"	272	17	
	3" (80mm)	VLS80300	+/- 4"	41.625"	19"	201	20	
	4" (100mm)	VLS80400	+/- 4"	47''	21"	142	24	

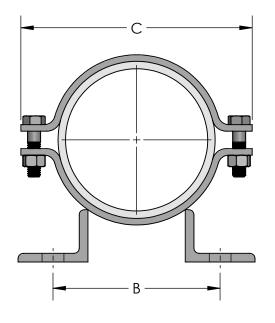
NSF 372 - LEAD FREE

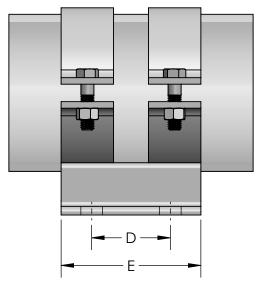
The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (0.25%) of lead by weight. Material complies with state codes and standards, where applicable, requiring reduced lead content.

CUSTOMER:
PROJECT:
ENGINEER:

REV. 1	B DIMENSIONS L	JPDATED	DATE 10/27/2015
Me for pipes in	rafle	X CHI	3 W, HUBBARD ST. CAGO, IL 60612 312-738-3800 W,METRAFIRE,COM
ME	TRAFLE	XV-	LOOP
	AT ENDS, +,		
DRAWN BY: SA	ΛARTEN	DATE: 7/ 3	30/2015
APPROVED: D	KISH	DATE: 8/ ;	3/2015
scale: NONE	DRAWING NUMB	SER: VLS8	}

MODEL PA ANCHOR CLAMP LIGHT WEIGHT ANCHOR FOR "NO THRUST" EXPANSION JOINTS





QTY	PART		SIZE	A (in)	B (in)	B (in) C (in)		E (in)	BOLT	WEIGHT	NOTES
_,	NUMBER	NPS	MM	` '	\	- ()	D (in)	, ,	HOLE	(lbs)	
	PA0075	0.75	20	2.125	3.375	2.75	2.75	4	0.625	3	
	PA0100	1	25	2.125	3.375	2.875	2.75	4	0.625	3	
4	PA0125	1.25	32	2.375	3.375	2.875	2.75	4	0.625	3	
	PA0150	1.5	40	2.5	3.375	3.875	2.75	4	0.625	4	
	PA0200	2	50	2.75	3.375	3.875	2.75	4	0.625	4	
	PA0250	2.5	65	3	3.375	4.875	2.75	4	0.625	4	
	PA0300	3	82	3.25	4.125	4.875	2.75	4	0.625	4	
4	PA0400	4	100	3.5	5.125	6.625	2.75	4	0.625	5	
	PA0500	5	130	4.5	5.875	8.375	4	6	0.75	7	
	PA0600	6	150	5	6.25	8.375	4	6	0.75	8	
	PA0800	8	200	6	6.75	10.875	4	6	0.75	9	
	PA1000	10	250	7	7.75	12.625	4	6	0.75	14	
	PA1200	12	300	8	8.125	14.75	4	6	0.75	16	

MATERIAL: CARBON STEEL FINISH: ONE COAT OF PAINT



FEET CAN BE BOLTED OR WELDED TO STRUCTURE

REV. 1 EDIT WELD ANNOTATIONS DATE: 05/21/2019

2323 W. HUBBARD ST.
CHICAGO, IL 60612
TEL: 312-738-3800
FAX: 312-738-0415
WWW.METRAFLEX.COM

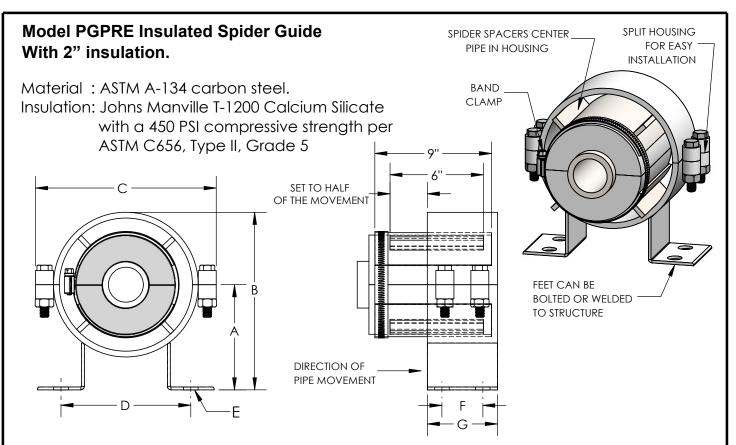
MODEL PA ANCHOR CLAMP

CUSTOMER:_____ MODEL PA ANCHOR CLA

DRAWN BY: DKISH DATE: 12/2/2016
APPROVED: EB DATE: 12/2/2016
SCALE: DRAWING NUMBER: PACLAMP-1

ENGINEER:		

PROJECT:_____



PROVIDES LATERAL STABILITY TO THE PIPE TO PREVENT "BOWING". GUIDES ARE NOT DESIGNED TO SUPPORT THE WEIGHT OF THE PIPE.

12.125

12.875

14.625

NPS	Insul Thkns	Part No.	A	В	C	D	E	F	G	Weight
.5"	2''	PGPRE260050	5.25	9.25	10	6.375	0.625	1.75	3	13
.75"	2"	PGPRE260075	5.25	9.25	10	6.375	0.625	1.75	3	13
1"	2"	PGPRE260100	5.25	9.25	10	6.375	0.625	1.75	3	13
1.25"	2"	PGPRE260125	5.25	9.25	10	6.375	0.625	1.75	3	13
1.5"	2"	PGPRE270150	6.25	11.625	12.125	7.125	0.625	2.75	4	20
2"	2"	PGPRE270200	6.25	11.625	12.125	7.125	0.625	2.75	4	20
2.5"	2"	PGPRE270250	6.25	11.625	12.125	7.125	0.625	2.75	4	20
3"	2"	PGPRE270300	6.25	11.625	12.125	7.125	0.625	2.75	4	20
4''	2"	PGPRE280400	7	13.375	14.125	8.375	0.625	2.75	4	25
5"	2"	PGPRE280500	7	13.375	14.125	8.375	0.625	2.75	4	25
6"	2"	PGPRE290600	7.875	14.875	16.125	9.875	0.75	4	6	40
8"	2"	PGPRE300800	8.875	16.875	18.125	10.875	0.75	4	6	45
10"	2"	PGPRE311000	9.625	18.625	20.125	11.875	0.75	4	6	55
12"	2"	PGPRE321200	10.875	20.875	22.125	11.75	0.75	4	6	65

23.125

24.875

27.625

24.125

26.125

28.125

14.5

15.5

NSF 372 - LEAD FREE

14"

16"

18"

The wetted surface of this product contacted by consumable water contain less than one quarter of one percent (0.25%) of lead by weight. Material complies with state codes and standards, where applicable, requiring reduced lead content.

PGPRE331400

PGPRE341600

PGPRE381800

CUSTOMER:	 	
PROJECT:	 	
ENGINEER:		

Me for pipes	etrafle	X _® I	2323 W. HUBBARD ST. CHICAGO, IL 60612 EL: 312-738-3800 AX: 312-738-0415 WWW.METRAFLEX.COM
	MODEL WITH 2" IN	_	
DRAWN BY:	BK	DATE:	9/30/21
APPROVED	:	DATE:	
SCALE: N/A	DRAWING NUMB	ER:	PGPRE
			00000 11 - 14 - 17 00000

0.875

0.875

8

8

6

95

100

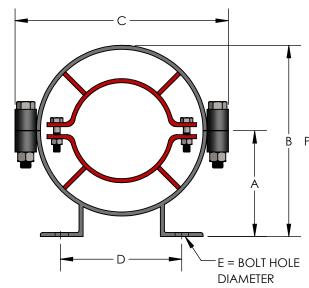
120

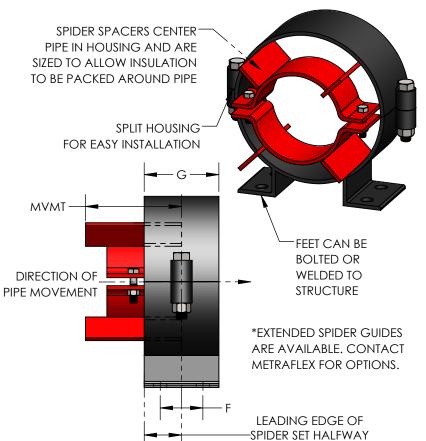
MODEL PGIV - 1.5" MAX INSULATION STYLE IV SPIDER TYPE GUIDE

GUIDE HARDWARE

MATERIAL: CARBON STEEL FINISH: ONE COAT OF PAINT MODELS 23-28 HAVE 2 BOLTS MODELS 29-36 HAVE 4 BOLTS

FOR COPPER TUBE CLAMPS USE MODEL PGIVC





PROVIDES LATERAL STABILITY TO THE PIPE TO PREVENT "BOWING".
GUIDES ARE NOT DESIGNED TO SUPPORT THE WEIGHT OF THE PIPE.

QTY	SIZE	INS	MODEL	Α	В	С	D	Е	F	G	MVMT	WEIGHT
	1/2"	1-1/2"	PGIV230050	3-1/2"	5-7/8"	6-1/8"	4-1/8"	5/8"	1-3/4"	3"	4"	7 LBS
	3/4"	1-1/2"	PGIV240075	4"	6-3/4"	7-1/8"	4-3/8"	5/8"	1-3/4"	3"	4"	8 LBS
	1"	1-1/2"	PGIV240100	4"	6-3/4"	7-1/8"	4-3/8"	5/8"	1-3/4"	3"	4"	8 LBS
4	1-1/4"	1-1/2"	PGIV240125	4''	6-3/4"	7-1/8"	4-3/8"	5/8"	1-3/4"	3"	4"	8 LBS
	1-1/2"	1-1/2"	PGIV240150	4"	6-3/4"	7-1/8"	4-3/8"	5/8"	1-3/4"	3"	4"	8 LBS
	2"	1-1/2"	PGIV250200	4-3/8"	7-5/8"	8-1/8"	5-1/8"	5/8"	1-3/4"	3"	4"	9 LBS
	2-1/2"	1-1/2"	PGIV250250	4-3/8"	7-5/8"	8-1/8"	5-1/8"	5/8"	1-3/4"	3"	4"	9 LBS
	3"	1-1/2"	PGIV260300	5-1/4"	9-1/4"	10-1/8"	6-1/8"	5/8"	1-3/4"	3"	4"	11 LBS
	4''	1-1/2"	PGIV260400	5-1/4"	9-1/4"	10-1/8"	6-1/8"	5/8"	1-3/4"	3"	4"	11 LBS
	5''	1-1/2"	PGIV270500	6-1/4"	11-5/8"	12-1/8"	7''	5/8"	2-3/4"	4"	6"	17 LBS
	6''	1-1/2"	PGIV270600	6-1/4"	11-5/8"	12-1/8"	7''	5/8"	2-3/4"	4''	6"	17 LBS
	8''	1-1/2"	PGIV280800	7''	13-3/8"	14-1/8"	8-1/4"	5/8"	2-3/4"	4''	6"	20 LBS
	10"	1-1/2"	PGIV301000	8-7/8"	1 <i>7</i> ''	18-1/8"	10-7/8"	3/4"	4"	6"	8"	48 LBS
	12"	1-1/2"	PGIV311200	9-3/4"	18-3/4"	20-1/8"	11-7/8"	3/4"	4"	6"	8"	54 LBS
	14"	1-1/2"	PGIV321400	10-7/8"	21"	22-1/8"	11-3/4"	3/4"	4''	6"	8"	61 LBS
	16"	1-1/2"	PGIV331600	12-1/8"	23-1/8"	24-1/8"	14-1/2"	7/8"	6"	8"	8"	89 LBS
	18"	1-1/2"	PGIV341800	13"	25"	26-1/8"	15-1/2"	7/8"	6"	8"	8"	102 LBS
	20"	1-1/2"	PGIV352000	14-3/4"	27-3/4"	28-1/8"	17-1/8"	1-1/8"	6"	8"	12"	110 LBS
	24"	1-1/2"	PGIV362400	16-1/2"	31-1/2"	32-1/8"	19-1/4"	1-1/8"	6"	8"	12"	150 LBS

CUSTOMER:______PROJECT:______ENGINEER:

REV. 1	INSTALL IMAGE UPDATED
Me for pipes in	rotion lex 2323 CHIC TEL:: FAX: WW

2323 W. HUBBARD ST. CHICAGO, IL 60612 TEL: 312-738-3800 FAX: 312-738-0415 WWW.METRAFLEX.COM

DATE 6/11/2020

INTO HOUSING

MODEL PGIV

STYLE IV SPIDER TYPE GUIDE FOR 1-1/2" MAX INSULATION

DRAWN BY: **DKISH**APPROVED: **JC**DATE: **4/3/2018**DATE: **4/3/2018**

SCALE: DRAWING NUMBER: PGIV-INS 1.5-REV 1