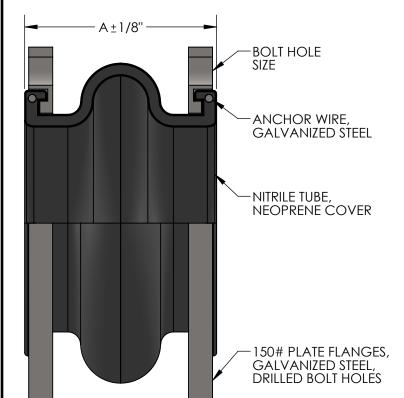
# MODEL MSRDPN, STYLE "R" METRASPHERE NITRILE EXPANSION JOINT, DRILLED BOLT HOLES



### MAXIMUM OPERATING CONDITIONS

TEMPERATURE	PRESSURE (PSI)				
TEMPERATURE	1" - 12"	14" AND UP			
170°	225	125			
180°	200	115			
190°	175	105			
200°	150	95			
210°	125	40			
220°	100	35			
230°	75	25			

MAXIMUM WORKING TEMPERATURE 230°F

#### NOTES:

WWW.METRAFLEX.COM FOR INSTALLATION INSTRUCTIONS.
JOINT MUST BE INSTALLED AT ITS NEUTRAL LENGTH.
BOLTS MUST BE PROPERLY TORQUED.
NOT SUITABLE FOR STEAM OR VACUUM APPLICATIONS.
IF CONNECTING PIPE IS NOT ANCHORED AND GUIDED,
CONTROL UNITS MUST BE USED.

TO BE FURNISHED WITH CONTROL UNITS:

		YES		NO
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QTY	PART NUMBER	PIPE INCH	SIZE	Α	AXIAL COMP.	FORCE (LBS)	AXIAL EXT.	FORCE (LBS)	LATERAL OFFSET	FORCE (LBS)	ANGULAR	WEIGHT (LBS)	BOLT HOLE SIZE
	MSRDPN0100	1"	25	6"	1/2"	N/A	3/8"	N/A	1/2"	N/A	15°	5	5/8"
	MSRDPN0125	1-1/4"	32	6''	1/2"	N/A	3/8"	N/A	1/2"	N/A	15°	6	5/8"
	MSRDPN0150	1-1/2"	38	6''	1/2"	N/A	3/8"	N/A	1/2"	N/A	15°	7	5/8"
	MSRDPN0200	2"	50	6"	1/2"	55	3/8"	73	1/2"	55	15°	8	3/4"
	MSRDPN0250	2-1/2"	65	6"	1/2"	102	3/8"	68	1/2"	97	15°	13	3/4"
	MSRDPN0300	3"	80	6"	1/2"	136	3/8"	115	1/2"	108	15°	14	3/4"
	MSRDPN0400	4"	100	6"	5/8"	145	3/8"	242	1/2"	275	15°	18	3/4"
	MSRDPN0500	5"	125	6"	5/8"	172	3/8"	196	1/2"	308	15°	23	7/8"
	MSRDPN0600	6"	150	6"	5/8"	293	3/8"	563	1/2"	484	15°	28	7/8"
	MSRDPN0800	8"	200	6''	5/8"	372	1/2"	587	1/2"	688	15°	40	7/8"
	MSRDPN1000	10"	250	8"	3/4"	398	1/2"	455	3/4"	781	15°	68	1"
	MSRDPN1200	12"	300	8"	3/4"	390	1/2"	356	3/4"	842	15°	94	1"
	MSRDPN1400	14"	350	8"	3/4"	N/A	1/2"	N/A	3/4"	N/A	15°	105	1-1/8"
	MSRDPN1600	16"	400	8"	3/4"	N/A	1/2"	N/A	3/4"	N/A	15°	120	1-1/8"
	MSRDPN1800	18"	450	8"	3/4"	N/A	1/2"	N/A	3/4"	N/A	15°	125	1-1/4"
	MSRDPN2000	20''	500	8"	3/4"	N/A	1/2"	N/A	3/4"	N/A	15°	145	1-1/4"
	MSRDPN2400	24"	600	10"	3/4"	N/A	1/2"	N/A	3/4"	N/A	15°	265	1-3/8"

#### 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.

CUSTOMER:
PROJECT:
ENGINEER:

Metro experimental structure of the pipes in motion 2323 W. HUBBARD ST. CHICAGO, IL 60612 TEL: 312-738-3800 FAX: 312-738-0415 WWW.METRAFLEX.COM	REV.		DATE
	Met for pipes in	raflex	CHICAGO, IL 60612 TEL: 312-738-3800 FAX: 312-738-0415

## METRASPHERE MODEL MSRDPN NITRILE EXPANSION JOINT, DRILLED BOLT HOLES

 DRAWN BY:
 DKISH
 DATE:
 1/19/2017

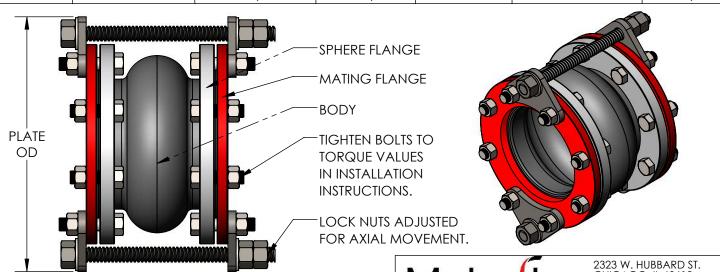
 APPROVED:
 JC
 DATE:
 1/23/2017

SCALE: DRAWING NUMBER: MSRDPN-1

### **CONTROL UNIT SELECTION CHART / DIMENSIONS** FOR MODELS MSR, 100HT, 711 ONLY - ROD LENGTH -LIMIT NUTS (DOUBLE HEX NUTS) FIXED HEX NUT-ALL THREAD CONTROL ROD (1) FLAT WASHER (2) CONTROL UNIT PLATE (2)

CONSULT FACTORY FOR NUMBER OF CONTROL UNITS REQUIRED

CONSOLITA	CIOKI I OK INDIVIDLI	CONTROL DIVI	13 KLQUIKLD			
PIPE SIZE	ROD TYPE	ROD THICKNESS	ROD LENGTH	PLATE TYPE	PLATE THICKNESS	PLATE OD
1"	GUSRD058X120	5/8"	12"	GUSPLT01	3/8"	8-3/8"
1-1/4"	GUSRD058X120	5/8"	12"	GUSPLT01	3/8"	8-3/4"
1-1/2"	GUSRD058X120	5/8"	12"	GUSPLT01	3/8"	9-1/8"
2"	GUSRD058X120	5/8"	12"	GUSPLT0204	3/8"	10-1/8"
2-1/2"	GUSRD058X120	5/8"	12"	GUSPLT2503	3/8"	11-1/8"
3"	GUSRD058X120	5/8"	12"	GUSPLT2503	3/8"	11-5/8"
4''	GUSRD058X120	5/8"	12"	GUSPLT0204	3/8"	13-1/8"
5''	GUSRD058X120	5/8"	12"	GUSPLT0506	1/2"	14-1/8"
6"	GUSRD058X120	5/8"	12"	GUSPLT0506	1/2"	15-1/8"
8''	GUSRD100X145	1"	14-1/2"	GUSPLT0800	1/2"	19-1/8"
10"	GUSRD100X170	1"	17"	GUSPLT1012	3/4"	21-5/8"
12"	GUSRD100X170	1"	1 <i>7</i> ''	GUSPLT1012	3/4"	24-5/8"
14"	GUSRD100X170	1"	17''	GUSPLT1400	3/4"	26-5/8"
16"	GUSRD125X185	1-1/4"	18-1/2"	GUSPLT1600	3/4"	30-1/8"
18"	GUSRD125X185	1-1/4"	18-1/2"	GUSPLT1800	3/4"	31-5/8"
20''	GUSRD125X185	1-1/4"	18-1/2"	GUSPLT2000	3/4"	34-1/8"
24"	GUSRD125X215	1-1/4"	21-1/2"	GUSPLT2400	1"	38-5/8"



CUSTOMER:		
DDO IECT		

**ENGINEER:\_\_** 



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

CONTROL UNITS FOR MSR, 100HT, 711

DRAWN BY: <b>DKISH</b>	DATE: <b>1/5/2017</b>
APPROVED: <b>JC</b>	DATE: <b>1/6/2017</b>

DRAWING NUMBER:
CONTROLUNIT-MSR 1007 1 1