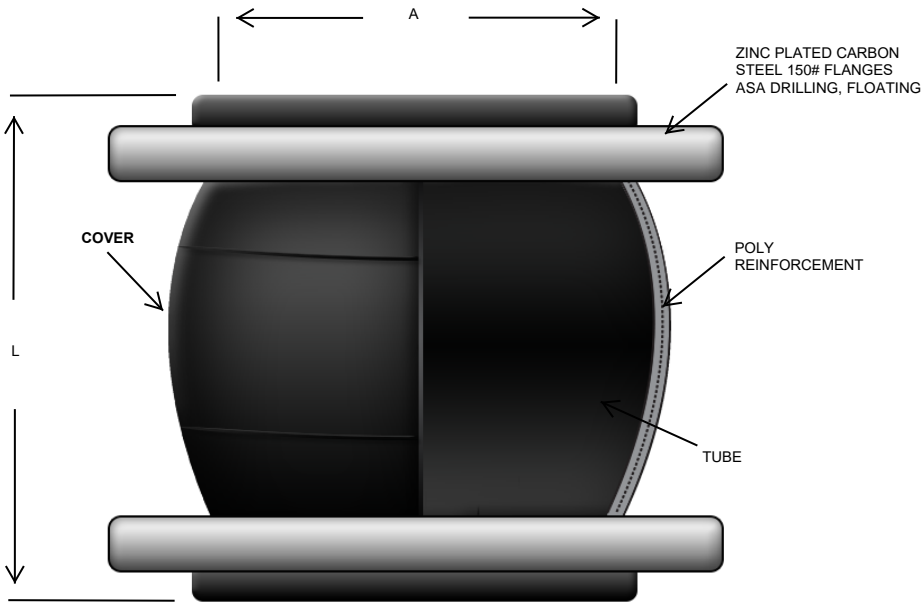


### MS1



### CONTROL RODS

PIPE SIZE	PSI
1" - 4"	180
5" - 10"	135
12" - 14"	90
16" - 24"	45

\* USE CONTROL RODS IF PSI IS AT OR EXCEEDS RATINGS IN CHART

DESIGN DATA:
1) MAX NEGATIVE PRESSURE. 26" HG VACUUM
2) TEMPERATURE RANGE: 20° F - 250° F
3) LISTED MOVEMENTS CANNOT OCCUR SIMULTANEOUSLY
4) 3:1 SAFETY FACTOR (BURST TO OPERATING PRESSURE)

Pressure rating is based on 170°F operating temperature

BODY CONSTRUCTION:	MAXIMUM TEMPERATURE
NEOPRENE NYLON	up to 230 DEGREES F
EPDM NYLON	up to 250 DEGREES F
BUTYL NYLON	up to 250 DEGREES F
NITRILE NYLON	up to 230 DEGREES F

\*EPDM acceptable for Lead Free



QTY	MODEL NUMBER	"A" NOMINAL SIZE	"L" FACE TO FACE	WRK. PRESS	LATERAL DEFLECT	AXIAL EXT.	AXIAL COMP.	ANGULAR	APPROX. WEIGHT (LB.)
	MS1-1 1/2	1 1/2"	6"	225	(+/- 1/2")	3/8"	1/2"	27	7
	MS1-2	2"	6"	225	(+/- 1/2")	3/8"	1/2"	20	9
	MS1-2 1/2	2 1/2"	6"	225	(+/- 1/2")	3/8"	1/2"	17	13
	MS1-3	3"	6"	225	(+/- 1/2")	3/8"	1/2"	14	14
	MS1-4	4"	6"	225	(+/- 1/2")	1/2"	3/4"	14	19
	MS1-5	5"	6"	225	(+/- 1/2")	1/2"	3/4"	11	23
	MS1-6	6"	6"	225	(+/- 1/2")	1/2"	3/4"	9	27
	MS1-8	8"	6"	225	(+/- 1/2")	1/2"	3/4"	7	41
	MS1-10	10"	8"	225	(+/- 3/4")	3/4"	1"	7	57
	MS1-12	12"	8"	225	(+/- 3/4")	3/4"	1"	6	83
	MS1-14	14"	8"	150	(+/- 3/4")	3/4"	1"	5	115
	MS1-16	16"	8"	125	(+/- 3/4")	3/4"	1"	4	165
	MS1-18	18"	8"	125	(+/- 3/4")	3/4"	1"	4	168
	MS1-20	20"	8"	125	(+/- 3/4")	3/4"	1"	3	170
	MS1-24	24"	10"	110	(+/- 3/4")	3/4"	1"	3	255

DRAWN BY:

DRAWING NUMBER:

REV:

SIGNATURE:

DATE:

PO NUMBER:

PROJECT:

CUSTOMER:

NOTES: