



TABLE OF DIMENSIONS FOR NRCS DIAPHRAGMS (PRESSURIZED PIPE)

PIPE DIAMETER (IN.)	8	10	12	15	18	21	24	30	36	42	48	54	60
	DIAPHRAGM HEIGHT (FT.-IN.)	4-0	4-0	4-0	6-0	6-0	6-0	7-6	7-6	7-6	7-6	9-0	9-0
DIAPHRAGM WIDTH (FT.-IN.)	4-0	4-0	4-0	10-0	10-0	10-3	12-0	12-0	12-3	14-0	14-0	14-0	14-0
YOKE PLATE NO. REQUIRED	2	2	2	2	2	2	2	2	2	2	2	2	2
YOKE PLATE LENGTH (IN.)	25.5	25.5	25.5	37.5	37.5	37.5	46.5	46.5	46.5	46.5	55.5	55.5	55.5
YOKE PLATE WIDTH (IN.)	48	48	48	24	24	24	48	48	48	48	51	72	72
CORRUGATED METAL SHEETS NO. REQUIRED	0	0	0	8	8	8	8	8	8	8	8	8	8
CORRUGATED METAL SHEETS LENGTH (IN.)	-	-	-	37.5	37.5	37.5	46.5	46.5	46.5	46.5	55.5	55.5	55.5
CORRUGATED METAL SHEETS GAGE	-	-	-	16	16	16	16	16	16	14	14	14	14

TABLE OF DIMENSIONS FOR NRCS DIAPHRAGMS (NON-PRESSURIZED PIPE)

PIPE DIAMETER (IN.)	8	10	12	15	18	21	24	30	36	42	48	54	60
	DIAPHRAGM HEIGHT (FT.-IN.)	3-8	3-10	4-0	4-3	4-6	4-9	5-0	5-6	6-0	6-6	7-0	7-6
DIAPHRAGM WIDTH (FT.-IN.)	4-0	4-0	4-0	6-3	6-6	6-9	7-0	7-6	8-0	8-6	9-0	9-6	10-0
YOKE PLATE NO. REQUIRED	2	2	2	2	2	2	2	2	2	2	2	2	2
YOKE PLATE LENGTH (IN.)	23.5	24.5	25.5	27	28.5	30	31.5	34.5	37.5	40.5	43.5	46.5	49.5
YOKE PLATE WIDTH (IN.)	48	48	48	27	30	33	36	42	48	54	60	66	72
CORRUGATED METAL SHEETS NO. REQUIRED	0	0	0	4	4	4	4	4	4	4	4	4	4
CORRUGATED METAL SHEETS LENGTH (IN.)	23.5	24.5	25.5	27	28.5	30	31.5	34.5	37.5	40.5	43.5	46.5	49.5
CORRUGATED METAL SHEETS GAGE	-	-	-	16	16	16	16	14	14	14	14	14	14

- NOTES**
- SEE PLAN VIEW FOR:
 - A: NUMBER OF DIAPHRAGMS.
 - B: PIPE GAGE, METAL TREATMENT AND COATING.
 - ALL NUTS, BOLTS, RIVETS, AND WASHERS SHALL BE GALVANIZED, CADMIUM PLATED, OR STAINLESS STEEL.
 - YOKE WELDS AND THE ASSEMBLY OF CORRUGATED SHEETS (WHEN REQUIRED) SHALL BE SHOP FABRICATED.
 - CONNECTION OF CORRUGATED SHEETS WITH YOKE PLATE MAY BE EITHER SHOP FABRICATED USING 3/8" X 3/4" RIVETS ON 6" CENTERS OR FIELD BOLTED USING 3/8" X 1" BOLTS ON 6" CENTERS.
 - AFTER WELDING, DAMAGED ZINC COATING SHALL BE REPAIRED AS FOLLOWS:
 - A: THOROUGHLY CLEAN THE DAMAGED AREAS ON BOTH SIDES OF THE DAMAGED METAL WITH A WIRE BRUSH.
 - B: PAINT THE CLEANED AREAS WITH TWO COATS OF ZINC OXIDE-ZINC DUST PAINT.

FRONT ELEVATION

SIDE ELEVATION

DETAIL OF TANK LUG

ANTI-SEEP DIAPHRAGM FOR 8" TO 60" HELICAL LOCKSEAM CORRUGATED METAL PIPE

NAME WATERSHED

NAME COUNTY, MINNESOTA

Date	1/31/02
Designed	
Drawn	GRH
Checked	
Approved	



File No. MN-ENG-303
 Drawing No. MNS03.DWG
 Revised 4/04