

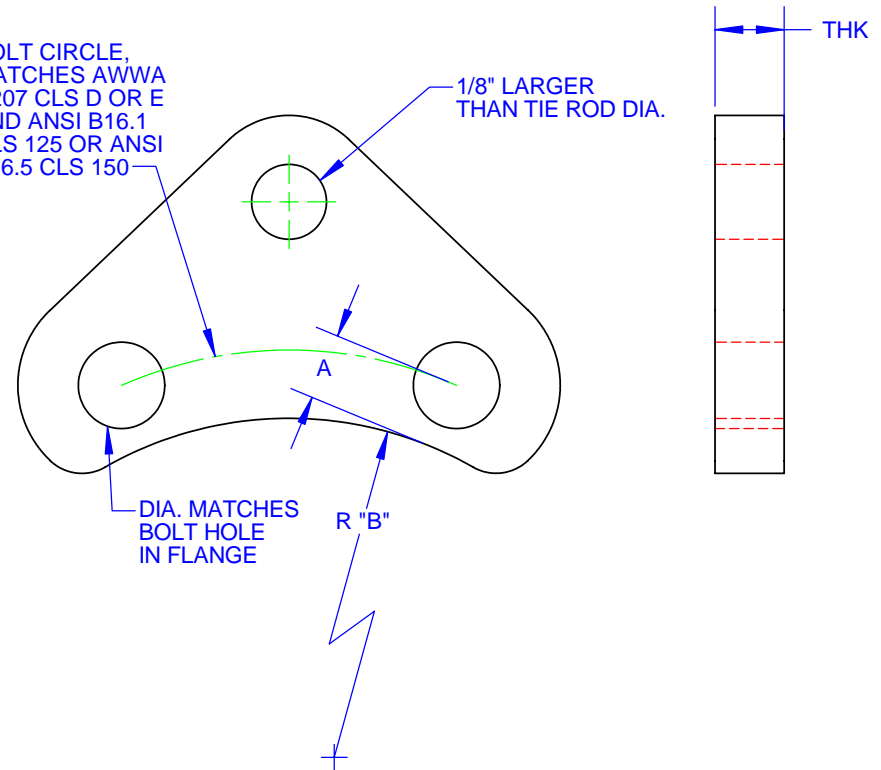
HARNES LUG SCHEDULE							
FLANGE SIZE	LUG THK	TIE ROD QUANTITY		TIE ROD		RADIUS "B"	WGT, EA. (LBS)
		100 PSI	200 PSI	SIZE	A		
3	1	2	2	3/4	0.60	2.40	3.9
4	1	2	2	3/4	0.84	2.91	3.1
6	1	2	2	3/4	0.72	4.03	3.7
8	1	2	2	3/4	0.76	5.12	4.5
10	1	2	4	3/4	0.84	6.28	4.1
12	1	2	4	3/4	1.11	7.39	5.2
14	1	2	4	3/4	0.94	8.25	5.5
16	1	4	6	3/4	1.09	9.35	5.2
18	1	4	8	3/4	0.92	10.39	5.4
20	1.25	4	6	1	1.00	11.44	7.0
24	1.25	4	6	1	1.15	13.54	8.7
30	1.25	6	10	1	1.44	16.50	8.4
36	1.25	8	14	1	1.63	19.69	9.9

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
1	ADDED 100 PSI COLUMN IN TABLE, ADDED 18"	6/12/2007	NST III
2	ADDED LUG MATERIALS, ADDED WEIGHTS.	8/30/2007	NST III

NOTE:

- LUG DESIGN ALLOWS MAXIMUM CLEARANCE BETWEEN PIPE OR FLANGE HUB OD AND LUG.
- EACH TIE ROD REQUIRES 2 LUGS, ONE LOCATED ON THE OUTSIDE OF EACH FLANGED CONNECTION.
- LUG MATERIAL: STEEL A36, STAINLESS A240 TYPE 304 OR 316
- TIE ROD MATERIAL = ASTM A193 B7, (ALLOY STEEL), B8 (304 SS), OR B8M (316 SS)
- COATING: BARE, SHOPCOAT PAINT, OR NSF 61 FUSION BONDED EPOXY, BLACK
- 4 NUTS REQUIRED PER TIE ROD, (DOUBLE NUT CONFIGURATION.)
- HARNES LUG HAS STANDARD THICKNESS AND ROD SIZE FOR SIMPLICITY.
- TIE RODS SOLD SEPERATELY, SPECIFY LENGTH WHEN ORDERING.

BOLT CIRCLE, MATCHES AWWA C207 CLS D OR E AND ANSI B16.1 CLS 125 OR ANSI B16.5 CLS 150



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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE ON: 2 PL DECIMALS +/- .05 3 PL DECIMALS +/- ANGLES +/- FRACTIONS +/-	SIGNATURES N. THOGERSEN	DATE 10/04/2006		ROMAC IND. INC., SEATTLE, WA	
	CHECKED	TITLE HARNES LUG, 3" - 36", 3 HOLE ANSI CLS 125/150, 100 & 200 PSI, STYLE 494			
MATERIAL: SEE NOTE 3	SIZE A	DWG. NO. B2784-A	REV. NO. 2	SCALE NTS	
		SHEET 1 OF 1			