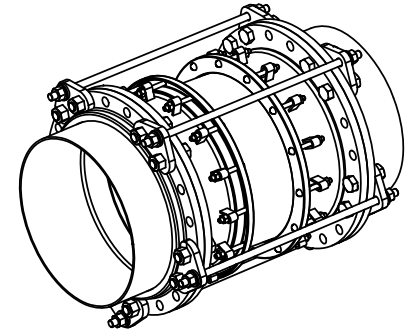


HARNES LUG SCHEDULE

FLG SIZE	LUG THK	TIE ROD QUANTITY					TIE ROD SIZE	A	R "B"	Ø "C"	B.C. Ø "D"	E	WGT, EA. (LBS)
		50 PSI	100 PSI	150 PSI	200 PSI	275 PSI							
3	1/2	2	2	2	2	2	5/8	0.19	2.40	4.80	9.26	6.12	1.8
4	1/2	2	2	2	2	2	5/8	0.16	3.19	6.38	10.76	4.75	1.3
6	3/4	2	2	2	2	2	5/8	0.20	4.08	8.16	12.76	5.89	2.6
8	3/4	2	2	2	3	3	5/8	0.21	5.19	10.38	15.26	6.75	3.1
10	1	2	2	2	3	3	3/4	0.25	6.34	12.68	17.76	6.19	4.0
12	1	2	2	2	3	3	7/8	0.41	7.56	15.12	20.88	6.90	5.1

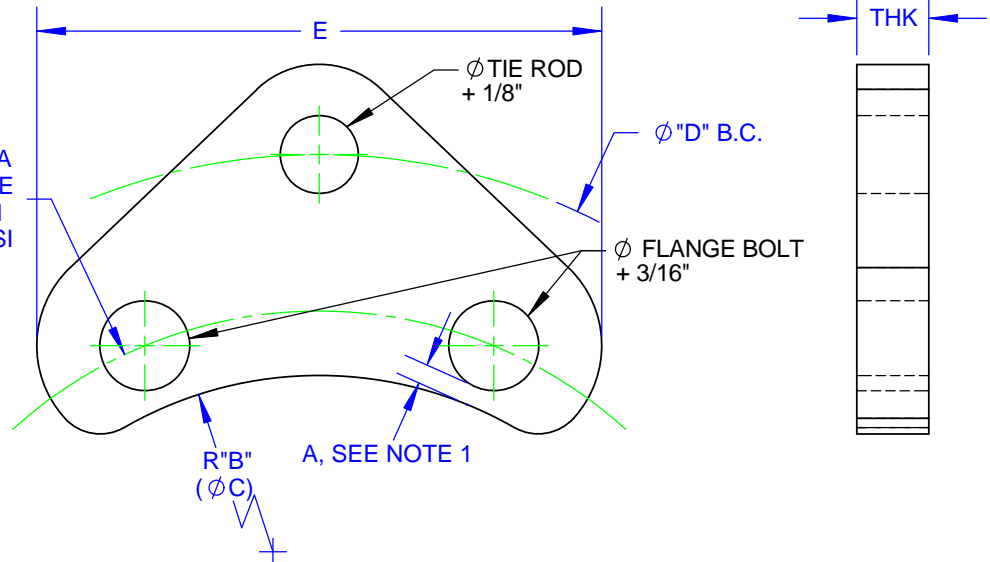


ASSEMBLY VIEW

NOTE:

1. ROMAC HARNES LUG WITH MAXIMUM CLEARANCE BETWEEN FLANGE HUB OD AND LUG RADIUS FOR MAJORITY OF THREADED DI FLANGES.
2. CUSTOMER TO VERIFY LUG CLEARANCE OVER FLANGE HUB FOR THREADED DI FLANGES. SEE DIAMETER C.
3. EACH TIE ROD REQUIRES 2 LUGS, ONE LOCATED ON THE OUTSIDE OF EACH FLANGED CONNECTION (SEE ASSEMBLY VIEW).
4. LUG MATERIAL: STEEL A36, STAINLESS A240 TYPE 304 OR 316
5. TIE ROD MATERIAL = ASTM A193 B7, (ALLOY STEEL), B8 (304 SS), OR B8M (316 SS)
6. COATING: BARE, SHOPCOAT PAINT, OR NSF 61 FUSION BONDED EPOXY, BLACK
7. 4 NUTS REQUIRED PER TIE ROD, (DOUBLE NUT CONFIGURATION.)
8. 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



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
0	INITIAL RELEASE REPLACES B2591-A	10/08/09	SH

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<p>ROMAC INDUSTRIES INC., BOTHELL, WA</p>				
<p>TITLE HARNES LUGS, 3"-12" STYLE 490 CLS D & E, 125/150 HIGH HUB CLEARANCE</p>				
DWG. NO.	SIZE	REV. NO.	SCALE	SHEET
B3305-A	A	0	NTS	1 OF 1