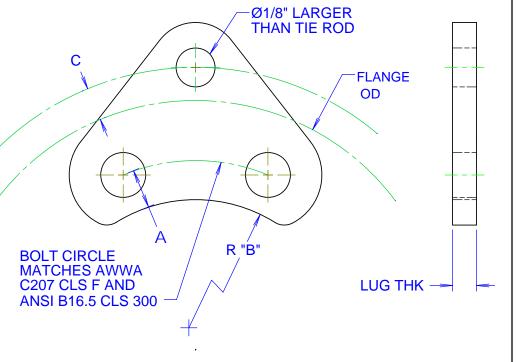
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HARNESS LUG SCHEDULE, 300 PSI MAX								
	FLANGE	LUG	TIE ROD	TIE ROD				
	SIZE	THK	QUANTITY	SIZE,	Α	В	С	WGT, EA
	3	1/2	2	5/8	0.86	2.46	0.88	1.5
	4	1/2	2	5/8	0.82	3.13	0.88	1.8
	6	3/4	2	5/8	1.00	4.31	0.88	2.5
	8	3/4	4	5/8	1.13	5.38	0.88	3.1
	10	1	4	3/4	1.06	6.56	0.88	4.2
	12	1	4	7/8	1.19	7.69	0.94	5.3

	REVISIONS							
REV.	DESCRIPTION	DATE	APPROVED					
0	initial release	7/11/2007	DH EATON					
1	ADDED NOTE 9 AND 10. WAS B16.5 CLS 150	7/11/2007	DH EATON					
2	6 & 8 TIE ROD SIZE WAS 3/4", 10" WAS 7/8"	1/25/2008	N THOGERSEN					
3	10" TIE ROD SIZE WAS INCORRECTLY SHOWN AS 3/8	5/12/2008	N. THOGERSEN					
	UPDATED TEMPLATE, COATING OPTIONS AND NOTES	8/20/2013	N THOGERSEN					
5	UPDATED NOTES TO CLARIFY ADDITIONAL LUG QUANTITES ABOVE 300 PSI	1/22/2016	N THOGERSEN					

NOTE:

- LUG DESIGN ALLOWS MAXIMUM CLEARANCE BETWEEN PIPE OR FLANGE HUB OD AND LUG. CUSTOMER TO VERIFY LUG CLEARANCE OVER FLANGE HUB FOR THREADED DI FLANGES. SEE DIAMETER "B".
- DIMENSION "C" IS FROM OD OF FLANGE TO TIE ROD BOLT CIRCLE.
- EACH TIE ROD REQUIRES 2 LUGS, ONE LOCATED ON THE OUTSIDE OF EACH FLANGED CONNECTION.
- COATING: COATING: BARE, SHOPCOAT PAINT, OR NSF 61 FUSION BONDED EPOXY, BLACK
- 5. MIN. TIE ROD MATERIAL = ASTM A193 B7, (ALLOY STEEL), B8 (304 SS), OR B8M (316 SS)
- 6. PIPE THRUST (LBS) = 0.7854 X PRESSURE X [PIPE OD]²
- 7. TIE ROD QUANTITIES LISTED IN TABLE WILL ACCOMMODATE 300 PSI MAX.
- 8. HIGHER PRESSURES WILL REQUIRE ADDITIONAL TIE RODS. QUANTITY = PIPE THRUST / ALLOWABLE LUG THRUST
 - a. 1/2" THK LUG. 3000 LBS PIPE THRUST.
 - b. 3/4" THK LUG .6000 LBS PIPE THRUST.
 - c. 1" LUG. 15000 LBS PIPE THRUST.
- 9. LUG MATERIAL: STEEL A36, STAINLESS A240 TYPE 304 OR 316
- 10. SPECIFY TIE ROD LENGTH WHEN ORDERING. NUTS REQUIRED PER TIE ROD, (DOUBLE NUT CONFIGURATION.) TIE RODS SOLD SEPERATELY, SPECIFY LENGTH WHEN ORDERING.



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PROPRIETARY INFORMATION AND IS THE PROPERTY OF ROMAC IND., INC. IT IS TO BE USED ONLY FOR THE PURPOSE FOR	TOLERANCES ARE ON:				HARNESS LUG, 3" - 12". 3 HOLE					
WHICH IT WAS SUBMITTED AND SHALL NOT HAVE ITS INFORMATION DISCLOSED	1 PL DECIMALS ± 0.060 2 PL DECIMALS ± 0.030	APPROVED		AWWA CLS F/ ANSI CLS 300, STYLE 491						
OR REPRODUCED IN WHOLE OR IN PART FOR ANY PURPOSE WITHOUT PRIOR	3 PL DECIMALS ± 0.010 ANGLES ± 1°				DWG. NO.	SIZE	REV. NO.	SCALE	SHEET	
WRITTEN PERMISSION OF ROMAC IND., INC.	FRACTIONS ± 1/64				B2754-A	Α	5	NTS	1 OF 1	