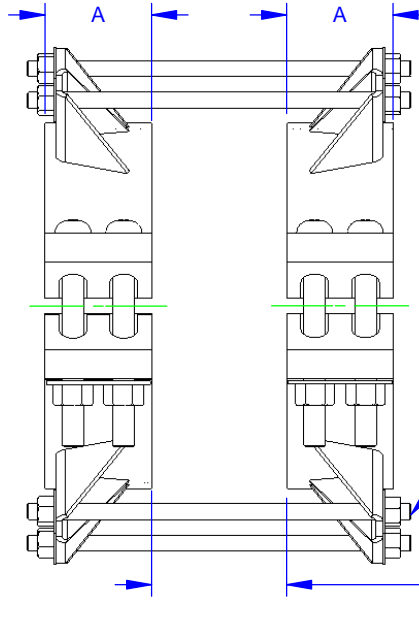


SIDE BOLTS, TRACKHEAD, Ø"G" X 9.0 LG. QTY: "E"

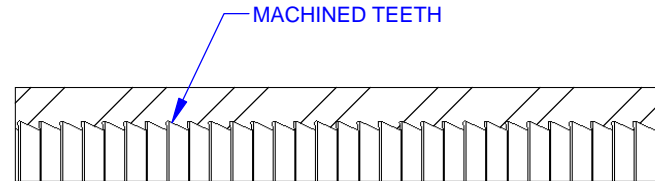


HARNESS RODS, Ø"F" X "D" LG. QTY:"C"

SPACING MIN/MAX "J"

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
0	INITIAL RELEASE	1/15/97	DHE
1	ADDED 32.00 SIZE, COL'S "F" & "G"	9/17/07	NST III
2	ADDED PRESSURE RATINGS ADDED COLUMN H	7/21/08	SH
3	ADDED SIZES: 14.00, 16.00, 18.00, 18.70, 20.00, 22.05, 24.00 & 24.80 ADDED BC MIN/MAX "ØH" 17.40 SS PSI WAS 169 21.60 SS PSI WAS 146 25.80 SS PSI WAS 154 32.00 SS PSI WAS 181	9/24/09	PNN
4	ADDED MAX CLEARANCE 14.00-32.00 Ø'H' WAS CHANGED	10/21/09	PNN
5	HARNESS ROD LENGTH "D" SIZE 14.00-19.50 WAS 26.0 LG, SIZE 20.00-25.80 WAS 32.0 LG, SIZE 32.00 WAS 42.0 LG. ADDED DIM "J"	7/14/14	PNN

PIPE SIZE	DIMENSIONS											WORKING PRESSURE			
	A	B	C	D	E	ØF	G	ØH		J		MAX CLEARANCE	HSLA ROD	SS ROD	
14.00	5.0	22.1	6	30.0	8	3/4	1	16.49	/	19.99	6.0	18.5	19.24	305	260
15.30	5.0	23.4	6	30.0	8	3/4	1	17.79	/	21.29	6.0	18.5	20.54	305	218
16.00	5.0	24.1	6	30.0	8	3/4	1	18.49	/	21.99	6.0	18.5	21.24	305	199
17.40	5.0	25.5	6	30.0	8	3/4	1	19.89	/	23.39	6.0	18.5	22.64	305	225
18.00	5.0	26.1	8	30.0	8	3/4	1	20.49	/	23.99	6.0	18.5	23.24	305	210
18.70	5.0	26.8	8	30.0	8	3/4	1	21.19	/	24.69	6.0	18.5	23.94	305	194
19.50	5.0	27.6	8	30.0	8	3/4	1	21.99	/	25.49	6.0	18.5	24.74	305	179
20.00	7.0	28.1	8	36.0	12	3/4	1	22.49	/	25.99	10.3	22.8	25.24	235	170
21.60	7.0	29.7	8	36.0	12	3/4	1	24.09	/	27.59	10.3	22.8	26.84	235	146
22.05	7.0	30.2	8	36.0	12	3/4	1	24.54	/	28.04	10.3	22.8	27.29	235	140
24.00	7.0	32.1	12	36.0	12	3/4	1	26.49	/	29.99	10.3	22.8	29.24	235	177
24.80	7.0	32.9	12	36.0	12	3/4	1	27.29	/	30.79	10.3	22.8	30.04	235	166
25.80	7.0	33.9	12	36.0	12	3/4	1	28.29	/	31.79	10.3	22.8	31.04	235	153
32.00	10.0	43.0	14	48.0	16	1	1-1/8	36.43	/	40.19	6.0	28.5	39.07	235	210



SECTION A-A

NOTES:

1. MATERIAL MILD STEEL UNLESS OTHERWISE SPECIFIED.
2. SIDE BOLT AND HARNESS ROD MATERIAL PER AWWA C111.
3. COATING PER CUSTOMER ORDER. SHOP COAT ENAMEL STANDARD. FUSION BOND EPOXY EXTERIOR COATING AVAILABLE.

<p>PROPRIETARY NOTICE</p> <p>THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION AND IS THE PROPERTY OF ROMAC IND., INC. IT IS TO BE USED ONLY FOR THE PURPOSE FOR WHICH IT WAS SUBMITTED AND SHALL NOT HAVE ITS INFORMATION DISCLOSED OR REPRODUCED IN WHOLE OR IN PART FOR ANY PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF ROMAC IND., INC.</p>		<p>UNLESS OTHERWISE SPECIFIED</p> <p>DIMENSIONS ARE IN INCHES</p> <p>TOLERANCES ARE ON: 1 PL DECIMALS ± .060 2 PL DECIMALS ± .030 3 PL DECIMALS ± .010 ANGLES ± 1° FRACTIONS ± 1/64</p>		<p>SIGNATURES</p> <p>DRAWN</p> <p>CHECKED</p> <p>APPROVAL ORGANIZATIONS ENGINEERING</p>		<p>ROMAC INDUSTRIES INC., BOTHELL, WA</p> <p>TITLE SJ470 PIPE RESTRAINER 14" - 30"</p>	
DRAWING FILE NAME: B1405-A - SJ470 14 - 30		MODEL NAME: SJ470 ASSEMBLY		CONFIGURATION NAME: Default		AUTHOR: PETER NIELSEN	