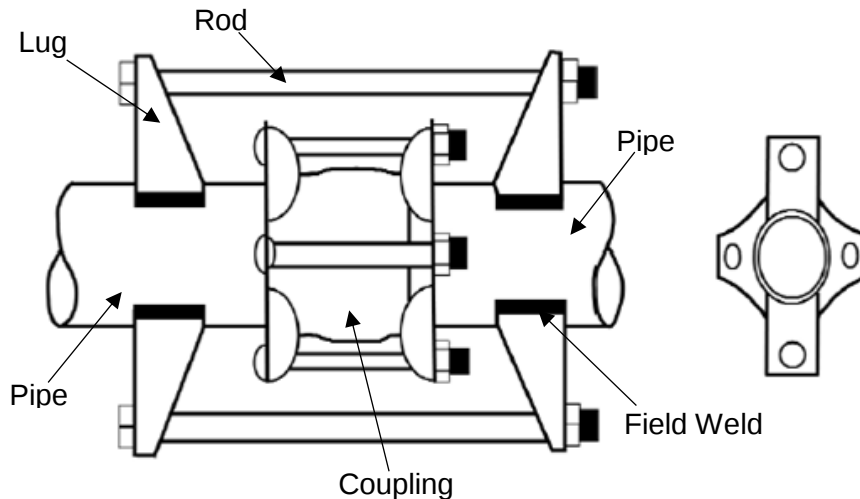


Installation Instructions

Rod & Lug Harness Device



Light Duty Required Number of Sets

Pipe		Pressure											
Size	O.D.	25	50	75	100	150	200	250	300	350	400	450	500
2	2.375	2	2	2	2	2	2	2	2	2	2	2	2
3	3.500	2	2	2	2	2	2	2	2	2	2	2	2
4	4.500	2	2	2	2	2	2	2	2	2	2	2	2
6	6.625	2	2	2	2	2	2	2	3	3	3	4	4
8	8.625	2	2	2	2	2	3	3	4	5	5	6	6
10	10.75	2	2	2	3	3	5	5	6	7	8	9	10
12	12.75	2	2	2	4	4	7	7	8	9	11	12	13
14	14.00	2	2	3	5	5	8	8	10	11	13	14	16
16	16.00	2	3	4	7	7	11	11	13	15	17	19	21
20	20.00	2	4	5	10	10	16	16	19	22	26	29	32
24	24.00	3	5	7	14	14	23	23	28	32	37	41	46

Heavy Duty Required Number of Sets

Pipe		Pressure											
Size	O.D.	25	50	75	100	150	200	250	300	350	400	450	500
2	2.375	2	2	2	2	2	2	2	2	2	2	2	2
3	3.500	2	2	2	2	2	2	2	2	2	2	2	2
4	4.500	2	2	2	2	2	2	2	2	2	2	2	2
6	6.625	2	2	2	2	2	2	2	2	2	2	2	2
8	8.625	2	2	2	2	2	2	2	2	3	3	3	3
10	10.75	2	2	2	2	2	2	3	3	4	4	5	5
12	12.75	2	2	2	2	2	3	4	4	5	6	6	7
14	14.00	2	2	2	2	3	4	4	5	6	7	7	8
16	16.00	2	2	2	3	4	5	6	7	8	9	10	11
20	20.00	2	2	3	4	5	7	8	10	11	13	15	16
24	24.00	2	3	4	5	7	10	12	14	16	19	21	23

STEP 1

Determination of proper preparation and field weld specification are the responsibility of the end user.

STEP 2

Tie rod must be long enough to ensure field welds are a minimum of 6" from the coupling ends. While field welding, heat exposure to the coupling should be mitigated.

STEP 3

Refer to charts (left) to determine the appropriate number of harnesses. Harnesses should be evenly spaced around the circumference of the pipe, and rods should be parallel with the pipe.

Installation Instructions

Rod & Lug Harness Device

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IMPROPER INSTALLATION CAN RESULT IN PRODUCT FAILURE.

Failure to follow proper installation procedures can result in dangerous pipe content escape, property damage, serious injury, and/or death. Read the product installation instructions prior to installing this product.

WARRANTY

Smith-Blair, Inc. warrants its products to be free of defects in materials and workmanship for a period of one (1) year from the date of shipment by Smith-Blair, Inc. (the "Warranty Period"). Dated proof of purchase, such as a bill of sale, is required to establish warranty eligibility. If a product fails to perform due to a defect in materials or workmanship during the Warranty Period, Smith-Blair, Inc. will repair or, at Smith Blair, Inc.'s option, replace the product with the same or comparable item. In the event that the product cannot be repaired and a suitable replacement item is not available, Smith-Blair, Inc. will refund the original purchase price shown on the proof of purchase. In all cases, the customer is responsible for returning the allegedly defective product to the factory or warehouse designated by Smith-Blair, Inc.

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CORROSION & PRODUCT SELECTION NOTICE

Metal products are subject to corrosion, particularly when used outdoors and/or underground. A large number of factors and local conditions affect the rate of corrosion. Consult a local corrosion expert to determine the life expectancy of this product when used with your pipeline content, soil, and environment. Also, consult your system designer to determine the suitability of this product in your piping system. Failure to determine the suitability of this product in your application, soil, and/or environment can result in premature product failure. Smith-Blair will provide additional information about this product's material specifications at your request. You may also obtain product information at www.smith-blair.com.

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