

Fig. 420 - Pipe Alignment Guide — Long Traverse

Fig. 421 - Pipe Alignment Guide — Intermediate Traverse

Size Range — (Fig. 420 and Fig. 421) 3/4" thru 24" pipe

Material — Carbon Steel

Function — To maintain alignment of piping through its axial expansion and contraction cycles. Normally, two or more pipe alignment guides are used on a single piping run to avoid a pivoting effect within the piping system. It is recommended that the first guide should be located a maximum of four pipe diameters from an expansion joint. Additional guides should be employed in accordance with the guide spacing data shown below. Additional supports are usually required between the intermediate guides to comply with the standard support practice.

Installation — The base is set to elevation and welded or bolted to a supporting structure. With the upper half removed, the pipe or tube with spider attached is set into the base and completely insulated. The upper half is then bolted into place to complete the guide.

Note — Spider attachments to pipe or tube must be properly located during installation to insure that a minimum of one-half of the spider width remains within the length of the casing for all conditions of operation. See table for maximum recommended travels. If larger travels are required, special guides can be furnished to special order. Guide casings can be rotated in manufacturing to decrease pipe centerlines. SPECIFY WHEN ORDERING.

Maximum Temperature — 650°F

Finish — Casing and Spider — One shop coat paint. Bolts and Nuts — Electro Galvanized. Also available in HDG finish. Specify.

Order By — Figure number, standard pipe size and insulation thickness. If other than standard pipe is used, specify type and O.D.

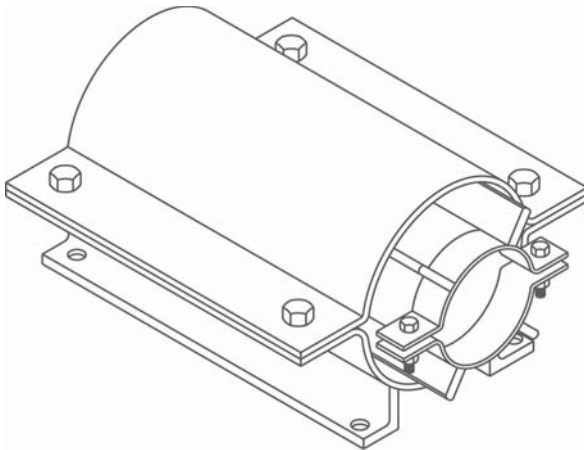


FIG. 420

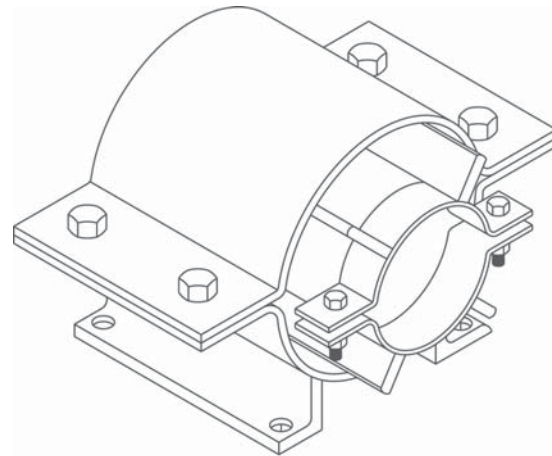


FIG. 421

Recommended Expansion Joint Guide Spacing										
Maximum Distance (Feet) Between Intermediate Guides for Pressure (PSIG)										
Pipe Size	50	100	150	200	250	300	350	400	500	600
2	38	27	22	20	18	17	15	14	13	12
2½	52	37	32	27	25	23	22	19	17	16
3	66	47	40	35	31	28	27	25	23	20
3½	85	62	51	45	40	36	35	32	29	27
4	103	75	62	54	50	45	42	40	35	32
5	118	85	70	60	55	50	46	43	40	35
6	120	87	72	62	57	52	48	45	41	37
8	130	95	78	68	61	57	52	49	45	41
10	145	105	87	75	68	62	58	55	50	45
12	155	110	92	80	73	68	62	58	53	49
14	180	128	105	90	83	75	70	65	60	54