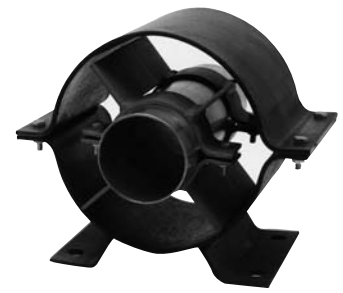


Table 1 Intermediate Pipe Guide Spacing/Series 6500 Packed Expansion Joints

Nominal Size (NPS)	First Guide Spacing (feet)(1)	Intermediate Guide Spacing (feet)(2)					Support Spacing(3)	
		100 psig	150 psig	200 psig	300 psig	400 psig	Water (feet)	Gas (feet)
2	2	12	11	11	10	9	10	13
2 1/2	2 1/2	16	15	14	13	12	11	14
3	3	20	18	17	15	14	12	15
4	4	25	23	21	19	17	14	17
5	5	31	28	26	23	20	16	18
6	6	37	34	31	27	24	17	21
8	8	49	43	39	34	30	19	24
10	10	61	53	48	41	36	22	27
12	12	70	61	54	46	41	23	30
14	14	74	64	57	49	43	25	32
16	16	81	70	62	53	46	27	35
18	18	88	75	67	56	50	28	37
20	20	94	80	71	60	53	30	39
24	24	105	90	79	66	58	32	42
1	2	3	4	5	6	7	8	9



Series 9500 Pipe Alignment Guide

Note:

- (1) Distance measured is from the face of the expansion joint. Recommend distance 10–14 pipe diameters. Tabulated values are based on 12 pipe diameters.
- (2) Tabulated values are based on Hyspan Series 6500 friction forces and standard weight carbon steel pipe. Distances are center to center. Pressures are design values. Guide spacing has been calculated for test pressure (1.5 X design.)
- (3) Tabulated values are the maximum recommended—source ASME 31.1 Power Piping Code.

Travel Required

The axial expansion or contraction of pipe is determined by the change in temperature. In order to select the correct travel refer to Table 2 which includes tabulated values of linear change in inches per 100 feet of pipe run for steel and stainless steel pipe. The values are based on an installation temperature of 70°F.

$$\text{Thermal Expansion or contraction (inches)} = \frac{\text{Length of run between anchors (feet)}}{100} \times \text{Linear change from Table 2}$$

During installation if the temperature is substantially different from 70°F it may be necessary to preset the expansion joint. Refer to Installation Preset, Table 9, on Page 15 to determine the preset required.