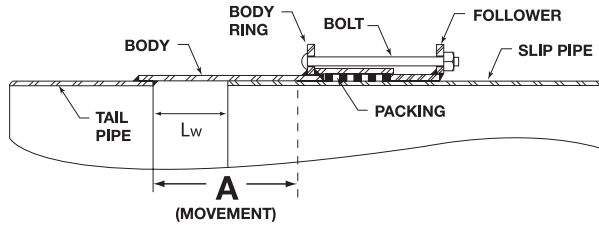


DRESSER Product Submittal

Style 63 Expansion Joints

For absorbing concentrated pipe movement

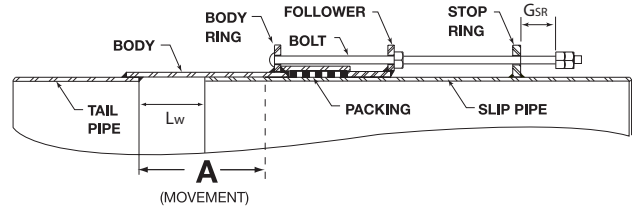
TYPE 1 Expansion Joint - Single End



Type 1 is a single-end expansion joint permitting up to 10" of concentrated pipe movement. Standard packing consists of alternate layers of resilient sealing rings and split jute lubricating rings.

TYPE 3 Expansion Joint

Single End, Limited Movement



Type 3 is a single-end expansion joint equipped with a limited movement feature to limit the maximum amount of slip pipe withdrawal.

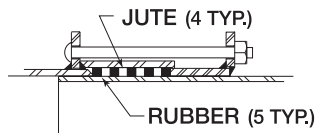
Style 63 Type 1 Size Specifications

Pipe Nominal Size (in)	Outside Diameter (OD)	Bolts No./Diam. x Length (in)	Overall Dimensions		Weight Per Joint (lbs)
			Diam. (in)	Length (in)	
3	3.500	4-5/8 x 11	8-1/2	CONSULT FACTORY PER ORDER	65
4	4.500	4-5/8 x 11	9-1/2		75
5	5.563	4-5/8 x 11	10-5/8		110
6	6.625	6-5/8 x 11	11-3/4		130
8	8.625	6-5/8 x 11	13-3/4		180
10	10.750	8-5/8 x 11	15-7/8		250
12	12.750	8-5/8 x 11	17-7/8		315
	14.000	8-5/8 x 11	19-1/2		340
	16.000	10-5/8 x 11	21-1/2		380
	18.000	10-5/8 x 11	23-1/2		415
	20.000	12-5/8 x 11	25-1/2		470
	22.000	14-5/8 x 11	27-1/2		525
	24.000	14-5/8 x 11	29-1/2	565	

Style 63 Type 3 Size Specifications

Pipe Nominal Size (in)	Outside Diameter (OD)	Bolts No./Diam. x Length (in)	Overall Dimensions		Weight Per Joint (lbs)
			Diam. (in)	Length (in)	
3	3.500	4-5/8 x 24	8-1/2	CONSULT FACTORY PER ORDER	80
4	4.500	4-5/8 x 24	9-1/2		90
5	5.563	4-5/8 x 24	10-5/8		125
6	6.625	6-5/8 x 24	11-3/4		155
8	8.625	6-5/8 x 24	13-3/4		205
10	10.750	8-5/8 x 24	15-7/8		285
12	12.750	8-5/8 x 24	17-7/8		350
	14.000	8-5/8 x 24	19-1/2		385
	16.000	10-5/8 x 24	21-1/2		430
	18.000	10-5/8 x 24	23-1/2		470
	20.000	12-5/8 x 24	25-1/2		530
	22.000	14-5/8 x 24	27-1/2		590
	24.000	14-5/8 x 24	29-1/2	635	

PACKING SEAL



Style 63 packing seals include alternating rings of BUNA-S rubber and lubricating split jute. See back page for maintenance.

WARNING

The pipe(s) adjacent to the expansion joint **MUST** be properly supported and guided to prevent deflection and/or misalignment between the slip pipe(s) and the body cylinder(s).

Materials of Construction

Body & Tail Pipe	AISI C1006, C1010, C1015 or ASTM A513 Carbon Steel
Followers	AISI C1012, C1021, ASTM A20 OR A36 Carbon Steel
Bolts	ANSI/AWWA C111/ANSI A21.11
Slip Pipe	Chrome Plated
Packing	Alternating Rings of BUNA-S and Lubricated Split Jute
Coatings	Fusion-bonded Grey Epoxy Dresser RED-D Shopcoat Optional

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DRESSER Product Submittal

Style 63 Expansion Joints

Prior to installing Dresser Style 63 slip type expansion joints, the initial setting position of the slip pipe must be determined. This is based on the operating temperature range, maximum movement and installation temperature

of the pipe. The amount the slip pipe should be retracted from the fully closed position and setting position of the stop ring nuts (if applicable) are determined as follows:

STYLE 63 EQUATIONS

$$L_w = \frac{(T_{max} - T_{inst}) \times A}{T_{range}}$$

$$G_{sr} = A - L_w$$

VARIABLES

L_w = Length to withdraw slip pipe from fully closed position (in)

T_{max} = Maximum operating temperature (°F)

T_{inst} = Installation temperature (°F)

A = Total movement of expansion joint

T_{range} = Operating temperature range

G_{sr} = Gap from stop ring to stop nuts (in) at setting position

EXAMPLE:

Max. Operating Temp = 100° F

Installation Temp = 75° F

Total Temp Range = 125° F

TOTAL RANGE = 10

$$L_w = \frac{(100^\circ \text{F} - 75^\circ \text{F}) \times 10 \text{ in}}{125 \text{ F}^\circ} = 2 \text{ in}$$

$$G_{sr} = 10 \text{ in} - 2 \text{ in} = 8 \text{ in}$$

In the above example the expansion joint should be retracted 2 inches from the fully closed position at installation and the stop nuts should be positioned 8 inches from the stop ring on the slip pipe (if applicable.)

NOTE: Body and slip pipe(s) are stenciled with Total Movement of Joint. 10" movement is standard.

Maintenance of Dresser Slip-Type Expansion Joints

FOR SEASONAL CYCLING

If pipe movement occurs due to seasonal temperature changes or other than daily cycling, Dresser recommends that inspection and maintenance be done on a yearly basis. During inspection, bolts used to compress the packing should be checked to make sure the nuts are tight.

In the event leakage is evident, tighten bolts on the packing gland until leakage stops. It is recommended that the slip pipe be cleaned and then coated with a non-petroleum based grease, such as Dow-Corning DC-111 grease or an equivalent grease at each inspection, preferably when the expansion joint is in the open position.

FOR DAILY CYCLING

When pipe movement occurs daily due to differential temperature changes caused by something other than seasonal temperature changes, the inspection should be done on a monthly basis. Follow same procedure as outlined above for all sizes of Dresser Style 63 Expansion Joints.

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