



**MERCER
RUBBER Co.**

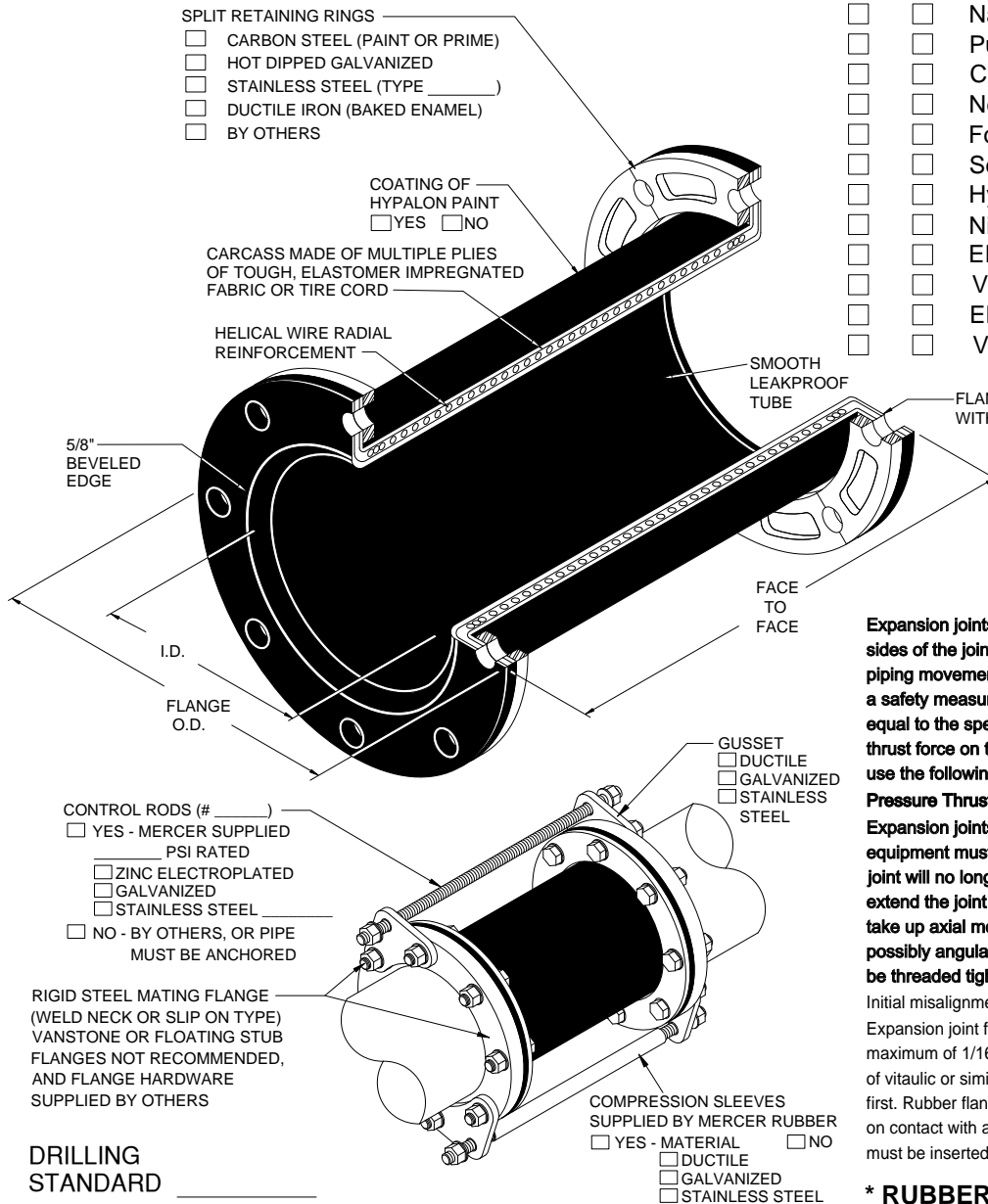
350 Rabro Drive
Hauppauge, NY 11788
Tel 631-582-1524
FAX 631-348-0279

Info@Mercer-Rubber.com

JOB NAME _____
CUSTOMER _____
CUSTOMER P.O. _____
MERCER NO. _____

DATE: _____ DWG. NO. _____

STYLE 150 VIBRA-FLEX PIPE



Tube	Cover		Temperature Rating
<input type="checkbox"/>	<input type="checkbox"/>	Natural Rubber	180°F
<input type="checkbox"/>	<input type="checkbox"/>	Pure Gum	180°F
<input type="checkbox"/>	<input type="checkbox"/>	Chlorobutyl	250°F
<input type="checkbox"/>	<input type="checkbox"/>	Neoprene	225°F
<input type="checkbox"/>	<input type="checkbox"/>	Food Grade Neoprene	225°F
<input type="checkbox"/>	<input type="checkbox"/>	Self Extinguishing Neoprene	225°F
<input type="checkbox"/>	<input type="checkbox"/>	Hypalon	225°F
<input type="checkbox"/>	<input type="checkbox"/>	Nitrile (Buna N)	210°F
<input type="checkbox"/>	<input type="checkbox"/>	EPDM	250°F
<input type="checkbox"/>	<input type="checkbox"/>	Viton	250°F
<input type="checkbox"/>	<input type="checkbox"/>	EPDM w/Kevlar	350°F
<input type="checkbox"/>	<input type="checkbox"/>	Viton w/Kevlar	400°F

Expansion joints installed in piping systems must be anchored on both sides of the joint. In this case no control rods are necessary providing piping movements are within allowables. If control rods are installed as a safety measure, the locking nuts must be backed off with a clearance equal to the specified axial movement. The expansion joint will exert a thrust force on the anchors. To calculate pressure thrust on anchors use the following equation:

$$\text{Pressure Thrust} = (\text{Pressure Thrust Area}) \times (\text{Rated Working Pressure})$$

Expansion joints installed in unanchored piping or connected to isolated equipment must have control rods. Once control rods are installed the joint will no longer act as an expansion joint, since the pressure will extend the joint into the nuts of the control rods. The joint will no longer take up axial motion. It will make up for misalignment, transverse and possibly angular motion. In this case the nuts of the control rods should be threaded tight to control rod gussets, thereby locking out control rods. Initial misalignment should be kept to a maximum of 1/8".

Expansion joint flanges must be in contact with a continuous surface, or a maximum of 1/16" standard raised face. Depressions or protrusions typical of vitaulic or similar type flanges must be covered with a steel spacer flange first. Rubber flanges will not retain loose elements in valve bodies that rely on contact with a steel flange. In these applications, a steel spacer flange must be inserted between the rubber expansion joint and the valve body.

*** RUBBER EXPANSION JOINTS ARE NOT TO BE INSTALLED IN OCCUPIED SPACE ***

STYLE 150 DIMENSIONS, ALLOWABLE MOVEMENTS and OPERATING PRESSURES

QUANTITY	SIZE I.D. (in)	FACE TO FACE F.F. (in)	FLANGE OD (in)	DIA. BOLT CIRCLE (in)	NO. OF BOLT HOLES	DIA. OF BOLT HOLES (in)	AXIAL COMPRESSION (in)	AXIAL EXTENSION (in)	LATERAL DEFLECTION (in)	RATED WORKING PRESSURE (psi)	VACUUM RATING (IN Hg.)	PRESSURE THRUST AREA (in ²)
	1 1/4		4 5/8	3 1/2	4	5/8				150	30	1.2
	1 1/2		5	3 7/8	4	5/8				150	30	1.7
	2		6	4 3/4	4	3/4				150	30	3.1
	2 1/2		7	5 1/2	4	3/4				150	30	4.9
	3		7 1/2	6	4	3/4				150	30	7.0
	4		9	7 1/2	8	3/4				150	30	12.5
	5		10	8 1/2	8	7/8				150	30	19.6
	6		11	9 1/2	8	7/8				150	30	28.2
	8		13 1/2	11 3/4	8	7/8				150	30	50.2

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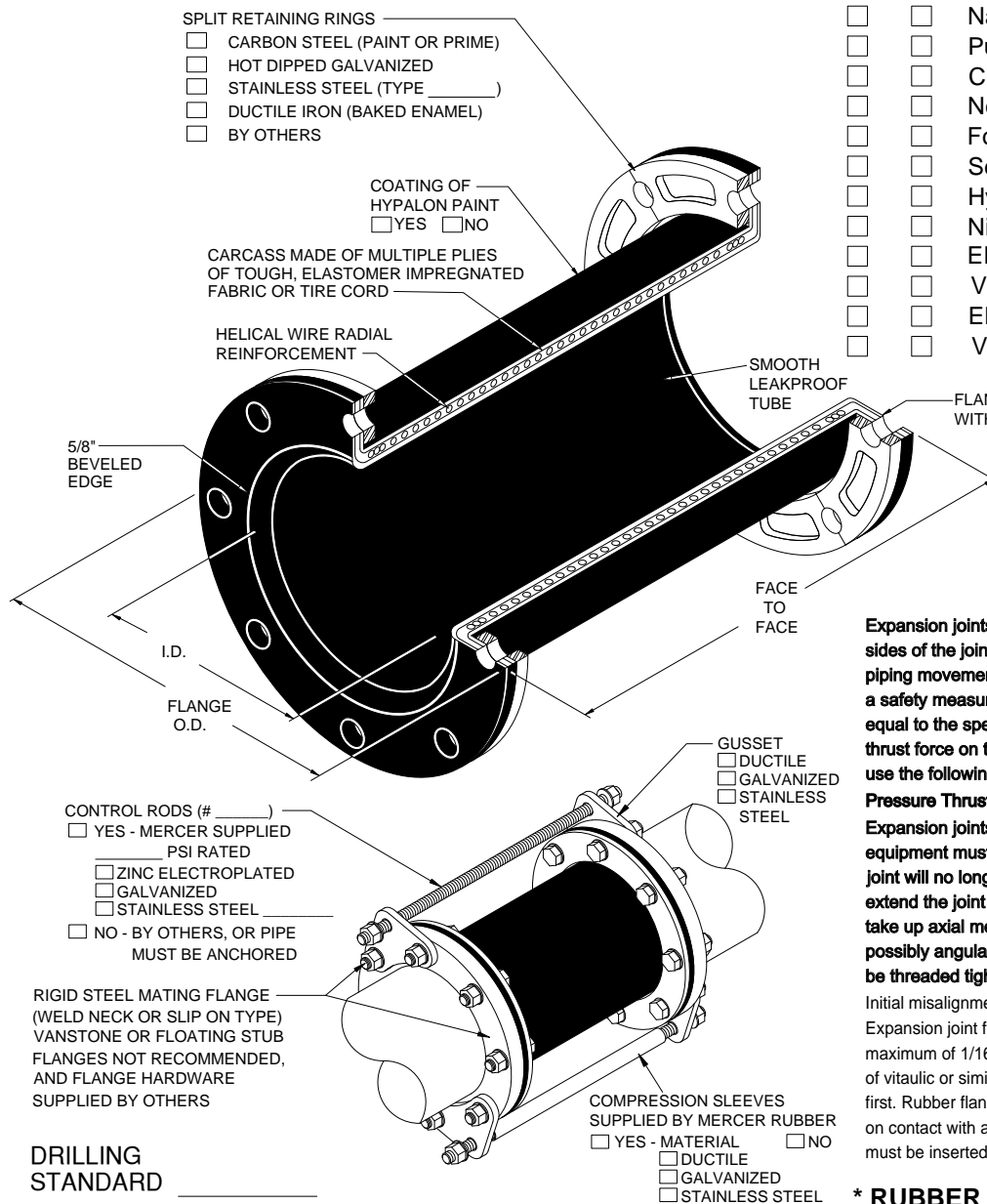
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	10		16	14 1/4	12	1				150	30	78.5
	12		19	17	12	1				150	30	113.1
	14		21	18 3/4	12	1 1/8				150	30	153.9
	16		23 1/2	21 1/4	16	1 1/8				150	30	201.1
	18		25	22 3/4	16	1 1/4				150	30	254.5
	20		27 1/2	25	20	1 1/4				150	30	314.2
	22		29 1/2	27 1/4	20	1 3/8				150	30	380.1
	24		32	29 1/2	20	1 3/8				150	30	452.4

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