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Info@Mercer-Rubber.com

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

DATE:

TVIE	150	VIBRA	\	LV	DIDE
	130	VIDE	1 -ГL	-ヒヘ	

			Temperature
Tube	Cover		Rating
		Chlorobutyl	180°F

DWG. NO.

		SPLI	T RETAINING RING	SS
COATING OF —			CARBON STEEL HOT DIPPED GAI	(PAINT OR PRIME)
HYPALON PAIN			STAINLESS STEE	
☐Yes ☐No			DUCTILE IRON (E	
CARCASS MADE OF MULTIPLE PLIES OF TOUGH, ELASTOMER IMPREGNATED FABRIC OR TIRE CORD	0 22300000		BY OTHERS	
	02000	— SMOOTH LEAKPROOF		
HELICAL WIRE RADIAL REINFORCEMENT —	00000	TUBE		
KEINI OKCEMENT	100000			ES INTEGRAL
1990			WITH E	ODY
000000				
2000		555		
			' / 🎩	
	35500			
		-CONTROL RODS ((#)	
		☐ YES - MERCE		
			RATED TROPLATED	
		☐ GALVANIZE	D	Expansion joint
		STAINLESS NO - BY OTHE		sides of the join
			ANCHORED	piping moveme
				a safety measu
)	equal to the spe
			_	thrust force on t
	(A)			use the followin
)	Pressure Thrus
				Expansion joint
				equipment mus
RIGID STEEL MATING FLANGE				joint will no long
(WELD NECK OR SLIP ON TYPE)	\			extend the joint
VANSTONE OR FLOATING STUB			GUSSETS	take up axial me possibly angula
FLANGES NOT RECOMMENDED, AND FLANGE HARDWARE		//	☐ DUCTILE ☐ GALVANIZED	be threaded tigl
SUPPLIED BY OTHERS	H 50		STAINLESS	Initial misalignme
			STEEL	Expansion joint f
				maximum of 1/16
	COMPRESSION SLEEVES	ED.		of vitaulic or simi
DDILLING	SUPPLIED BY MERCER RUBB			first. Rubber flan
DRILLING	DUCTILE			on contact with a
STANDARD 150 Lb.	☐ GALVANIZED ☐ STAINLESS STEE	L		must be inserted

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:

Pressure Thrust = (Pressure Thrust Area) x (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.

STYLE 150 DIMENSIONS ALLOWABLE MOVEMENTS and OPERATING PRESSURES

		FACE		DIA.	NO. OF	DIA. OF				RATED		PRESSURE
QUANTITY	SIZE	TO FACE	FLANGE	BOLT	BOLT	BOLT	AXIAL	AXIAL	LATERAL	WORKING	VACUUM	THRUST
	I.D.	F.F.	OD	CIRCLE	HOLES	HOLES	COMPRESSION	EXTENSION	DEFLECTION	PRESSURE	RATING	AREA
	(in)	(in)	(in)	(in)		(in)	(in)	(in)	(in)	(psi)	(IN Hg.)	(in ²)
	2	12	6	4 3/4	4	3/4	1/4	3/8	3/8	150	30	3.1
	2	18	6	4 3/4	4	3/4	3/8	1/2	1/2	150	30	3.1
	3	12	7 1/2	6	4	3/4	1/4	3/8	3/8	150	30	7.0
	3	18	7 1/2	6	4	3/4	3/8	1/2	1/2	150	30	7.0
	3	24	7 1/2	6	4	3/4	1/2	5/8	5/8	150	30	7.0
	4	12	9	7 1/2	8	3/4	1/4	3/8	3/8	150	30	12.5
	4	18	9	7 1/2	8	3/4	3/8	1/2	1/2	150	30	12.5
	4	24	9	7 1/2	8	3/4	1/2	5/8	5/8	150	30	12.5
	5	24	10	8 1/2	8	7/8	1/2	5/8	5/8	150	30	19.6
	6	12	11	9 1/2	8	7/8	1/4	3/8	3/8	150	30	28.2
	6	18	11	9 1/2	8	7/8	3/8	1/2	1/2	150	30	28.2
	6	24	11	9 1/2	8	7/8	1/2	5/8	5/8	150	30	28.2

DATE