



HOLZ
RUBBER COMPANY, INC.

SERIES

320EZ

EXPANSION JOINTS

THEY PERFORM LIKE



YOU WON'T BELIEVE

THE EVOLUTION OF ELASTOMERIC EXPANSION JOINT STYLES



Standard Arch
(The 1930's)



Flowing Arch
(The 1970's)



Wide Arch
(The 1970's)



Ez Style
(2004)

The **320EZ** is the latest design in the evolution chain of the “all elastomeric” expansion joints. Since it was first introduced, there has been three changes made, the last two changes were made by Holz Rubber Co. The most advanced joint design is the latest, the **Holz 320EZ**.

The **320EZ** gives you:

Lowest forces to deflect in the industry:

- Lower forces exerted on the mating flanges than any other expansion joint in the industry
- Below all application requirements concerned with spring rates

Light weight construction:

- Easier to handle than any joint currently available
- Improved flexibility allows for easier installation

EZ Arch Design REPLACES the need for:

- Most filled arch designs
- Flowing arch designs
- Standard arch designs
- Most wide arch designs

Increased movement capabilities REPLACES the need for:

- Standard multiple arch design
- The single wide arch design

Excellent Pressure Capabilities REPLACES the need for:

- Low pressure designs
- Standard pressure designs
- Most high pressure designs

New inventoried materials and sizes:

- On the shelf in EPDM tube and cover
- On the shelf in Nitrile tube and Neoprene cover
- In sizes 1-1/2" ID through 20" ID.

SERIES 320EZ

Holz has chosen to inventory the 320EZ in Nitrile/Neoprene and EPDM. These two combinations will take care of most applications you will encounter. Other elastomers are available upon request.

COMPARATIVE PROPERTIES OF ELASTOMERS

Tube Materials:

Nitrile	Resistant to:	Many Hydrocarbons, Fats, Oils, Greases, Hydraulic Fluids, Chemicals.
	Attacked by:	Ozone, Ketones, Esters, Aldehydes, Chlorinated and Nitro Hydrocarbons.
EPDM	Resistant to:	Animal and Vegetable Oil, Ozone, Strong and Oxidizing Chemicals.
	Attacked by:	Mineral Oils and Solvents, Aromatic Hydrocarbons.

Temperature Rating on Tube Materials:

Nitrile	225°F Maximum Continuous Operating Temperature.
EPDM	300°F Maximum Continuous Operating Temperature.

Lower Spring Rates and Lower Reaction Forces will allow the customer to **save money** by utilizing a lighter anchoring system and less reinforcement on the piping and flanges. See below on how the 320EZ out-performs the industry standards in reducing stress loads with lower reaction forces.

REACTION FORCES

	Industry Standard	Holz Style 320EZ		
	@150 PSI	@50 PSI	@100 PSI	@150 PSI
1-1/2" ID	1,885 Lbs.	148 Lbs.	309 Lbs.	477 Lbs.
2" ID	2,386 Lbs.	196 Lbs.	408 Lbs.	620 Lbs.
2-1/2" ID	2,946 Lbs.	262 Lbs.	539 Lbs.	806 Lbs.
3" ID	3,564 Lbs.	377 Lbs.	776 Lbs.	1,161 Lbs.
4" ID	4,978 Lbs.	642 Lbs.	1,336 Lbs.	1,989 Lbs.
5" ID	6,627 Lbs.	1,002 Lbs.	2,157 Lbs.	3,011 Lbs.
6" ID	8,512 Lbs.	1,334 Lbs.	2,822 Lbs.	4,199 Lbs.
8" ID	14,256 Lbs.	2,426 Lbs.	5,204 Lbs.	7,706 Lbs.
10" ID	19,911 Lbs.	3,838 Lbs.	7,841 Lbs.	11,668 Lbs.
12" ID	26,508 Lbs.	5,830 Lbs.	11,356 Lbs.	17,221 Lbs.
14" ID	38,170 Lbs.	7,523 Lbs.	15,368 Lbs.	22,862 Lbs.
16" ID	47,124 Lbs.	9,063 Lbs.	19,223 Lbs.	28,191 Lbs.
18" ID	57,021 Lbs.	10,978 Lbs.	25,405 Lbs.	37,806 Lbs.
20" ID	67,858 Lbs.	13,340 Lbs.	32,231 Lbs.	46,980 Lbs.

Due to the unique design of the 320EZ, the forces applied to the matting flanges are much lower than that of conventional designs.



SERIES 320EZ EXPANSION JOINTS

SERIES 320EZ

NOMINAL DIAMETER		INSTALLING LENGTH	EXTERNAL DIAMETER	FLANGE DRILLING			THICKNESS		ALLOWABLE DISPLACEMENTS			ALLOWABLE OPERATING PRESSURES		
									AXIAL	LAT.	ANG.			
inch	mm	mm	mm	mm		mm	mm	mm	mm	mm	degrees	kg/cm	psi	
1-1/2	40	152	127	98.4	4	15.9	9	9.5	32	16	16	28	16	225
2	50	152	152	120.6	4	19	9	9.5	32	16	16	25	16	225
2-1/2	65	152	178	139.7	4	19	9	9.5	32	16	16	20	16	225
3	80	152	190	152.4	4	19	9	9.5	32	16	16	18	16	225
4	100	152	229	190.5	8	19	9	9.5	32	16	16	14	16	225
5	125	152	254	215.9	8	22.2	9	9.5	32	16	16	13	16	225
6	150	152	279	241.3	8	22.2	9	9.5	32	16	16	12	16	225
8	200	152	343	298.4	8	22.2	10	9.5	32	16	16	12	15	210
10	250	203	406	361.9	12	25.4	15	9.5	51	25	25	12	15	210
12	300	203	483	431.8	12	25.4	15	9.5	51	25	25	11	15	210
14	350	203	533	476.2	12	28.6	15	9.5	51	25	25	11	10	150
16	400	203	597	539.7	16	28.6	15	9.5	51	25	25	10	10	150
18	450	203	635	577.8	16	31.8	15	9.5	51	25	25	9	10	150
20	500	203	698	635	20	31.8	15	9.5	51	25	25	8	10	150
24	600	250	813	749.3	20	34.9	15	9.5	64	32	38	7	6	86
30	750	250	984	914.4	28	34.9	20	9.5	64	32	38	6	6	86
36	900	250	1168	1085.8	32	41.3	20	9.5	64	32	38	5	6	86
42	1050	305	1346	1257.3	36	41.3	20	9.5	89	45	38	5	6	86

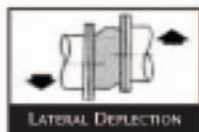
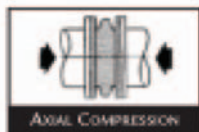
Movements shown are non-concurrent.

Pressure ratings are based on an operating temperature of 194°F.

All sizes are inventoried with ANSI 150# drilled flanges, other drill patterns available.

Available in most materials.

Inventoried in: EPDM, 1-1/2" thru 20" and Nitrile / Neoprene, 1-1/2" thru 12".



SERIES 320EZ

DIMENSIONS (In Inches)								WEIGHTS			TORQUE	CONTROL ROD INFORMATION					
Flange O.D.	Bolt Circle	No. Holes	Hole Dia.	Flange Width	Arch Width	Arch Height	Body O.D.	Joint lbs./ea.	Rings lbs./set	Rods lbs./unit		Flange Bolts ft./lbs.	Plate O.D.	Rod Dia.	Plate Thick	Pressure Rating, PSIG	
															2 Rods	3 Rods	4 Rods
5.00	3.875	4	0.625	0.370	2.50	1.125	2.70	1.30	2.40	3.50	25-40	8.125	.50	0.375	510	0	0
6.00	4.75	4	0.750	0.370	2.50	1.125	3.10	1.70	3.60	3.00	25-40	9.75	0.625	0.375	661	0	0
7.00	5.50	4	0.750	0.370	2.50	1.125	3.65	2.10	5.10	3.70	35-50	10.75	0.625	0.375	529	0	0
7.50	6.00	4	0.750	0.370	2.50	1.125	4.35	2.40	5.50	3.70	35-50	11.25	0.625	0.375	441	0	0
9.00	7.50	8	0.750	0.390	2.50	1.125	5.10	3.20	8.0	3.00	45-60	12.75	0.625	0.375	311	467	622
10.00	8.50	8	0.875	0.390	2.50	1.125	6.10	3.60	8.70	4.70	45-60	13.75	0.625	0.05	235	353	470
11.00	9.50	8	0.875	0.390	2.50	1.125	7.10	4.90	10.40	4.70	65-80	14.75	0.625	0.05	186	278	371
13.50	11.75	8	0.875	0.50	2.50	1.125	9.20	7.70	14.40	9.60	65-80	17.50	1.0	0.05	163	244	326

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16.0	14.25	12	1.0	0.580	3.50	1.563	11.45	13.90	16.70	10.50	80-95	20.50	1.0	0.75	163	224	375
19.0	17.0	12	1.0	0.680	3.50	1.563	13.50	19.50	25.80	10.50	80-95	23.75	1.0	0.75	160	240	320
21.0	18.75	12	1.125	0.680	3.50	1.563	15.45	22.70	28.70	12.30	85-100	25.86	1.0	0.75	112	167	223
23.50	21.25	16	1.125	0.680	3.50	1.563	17.50	26.80	35.10	13.50	85-100	29.0	1.25	0.75	113	170	227
25.0	22.75	16	1.25	0.680	3.50	1.563	19.48	29.50	33.80	14.50	100-115	30.50	1.25	0.75	94	141	187
27.50	25.0	20	1.25	0.680	3.50	1.563	21.50	31.80	40.30	16.0	100-115	33.0	1.25	0.75	79	118	158

Torque specifications are approximate, after installation the system should be pressurized and examined to confirm a proper seal. For hydrostatic testing the system, torque values may need to be increased.

Control rod dimensions are to a minimum of FSA standards.

Pressure safety factors are:

Minimum 3 to 1 on sizes 1-1/2" ID thru 12" ID.

Minimum 4 to 1 on sizes 14" ID thru 20" ID.

FLANGE DRILLING DATA TABLES

I.D.	Type	Out. Dia.	Bolt Circle	Bolt Holes	Hole Dia.
1-1/2" 40mm	ANSI B15.1-1975 Class 125, ANSI B16.24-1971, AWWA C207-78 Tbl 1&2, Class D, Tbl 3, Class E MSS SP-44 1975 Class 150, SS SP-51 1965 MSS 150, ANSI 125/150	5.0	3.8750	4	0.6250
	ANSI B16.1-1975 Class 250, ANSI B16.24-1971 300 lb, ANSI 16.5-1973 Class 300, MSS SP-44 1975 Class 300, ANSI 250/300	6.1250	4.50	4	0.8750
	MIL-F-20042C - 50 lb & 150 lb, BU Ships Drw B.176 NAVY/USCG	5.0625	3.9375	6	0.5625
	BS 4504 & 4505, SABS 1123, DIN 2501 DIN/PN 6	5.1181	3.9370	4	0.5512
	DIN/PN 10,16,25	5.9055	4.3307	4	0.7087
	BS 10, AS2129 TABLE D & E	5.2362	3.8583	4	0.5512
	TABLE F & H	5.5118	4.1339	4	0.6693
JIS B2210,12,14, KS-B-1503 JIS 5	4.7244	3.3460	4	0.5906	
JIS 10, 16, 20	5.5118	4.1340	4	0.7090	

I.D.	Type	Out. Dia.	Bolt Circle	Bolt Holes	Hole Dia.
2" 50mm	ANSI B15.1-1975 Class 125, ANSI B16.24-1971, AWWA C207-78 Tbl 1&2, Class D, Tbl 3, Class E MSS SP-44 1975 Class 150, SS SP-51 1965 MSS 150, ANSI 125/150	6.0	4.75	4	0.750
	ANSI B16.1-1975 Class 250, ANSI B16.24-1971 300 lb, ANSI 16.5-1973 Class 300, MSS SP-44 1975 Class 300, ANSI 250/300	6.50	5.0	8	0.750
	MIL-F-20042C - 50 lb & 150 lb, BU Ships Drw B.176 NAVY/USCG	5.5625	4.4375	6	0.5625
	BS 4504 & 4505, SABS 1123, DIN 2501 DIN/PN 6	5.5118	4.3307	4	0.5512
	DIN/PN 10, 16, 25	6.4961	4.9213	4	0.7087
	BS 10, AS2129 TABLE D & E	5.9842	4.4882	4	0.6693
	TABLE F & H	6.4961	5.0000	4	0.6693
JIS B2210,12,14, KS-B-1503 JIS 5	5.1181	4.1339	4	0.5906	
JIS 10	6.1024	4.7244	4	0.7480	
JIS 16, 20	6.1024	4.7244	8	0.7480	

I.D.	Type	Out. Dia.	Bolt Circle	Bolt Holes	Hole Dia.
2-1/2" 65mm	ANSI B15.1-1975 Class 125, ANSI B16.24-1971, AWWA C207-78 Tbl 1&2, Class D, Tbl 3, Class E MSS SP-44 1975 Class 150, SS SP-51 1965 MSS 150, ANSI 125/150	7.0	5.50	4	0.750
	ANSI B16.1-1975 Class 250, ANSI B16.24-1971 300 lb, ANSI 16.5-1973 Class 300, MSS SP-44 1975 Class 300, ANSI 250/300	7.50	5.8750	8	0.8750
	MIL-F-20042C - 50 lb & 150 lb, BU Ships Drw B.176 NAVY/USCG	6.1250	5.0	6	0.5625
	BS 4504 & 4505, SABS 1123, DIN 2501 DIN/PN 6	6.2992	5.1181	4	0.5512
	DIN/PN 10, 16	7.2835	5.7087	4	0.7087
	DIN/PN 25	7.2835	5.7087	8	0.7087
	BS 10, AS2129 TABLE D & E	6.4961	5.0	4	0.6693
TABLE F & H	7.2441	5.7480	8	0.6693	
JIS B2210,12,14, KS-B-1503 JIS 5	6.1024	5.1181	4	0.5906	
JIS 10, 16, 20	6.8898	5.5118	8	0.7480	

I.D.	Type	Out. Dia.	Bolt Circle	Bolt Holes	Hole Dia.
3" 80mm	ANSI B15.1-1975 Class 125, ANSI B16.24-1971, AWWA C207-78 Tbl 1&2, Class D, Tbl 3, Class E MSS SP-44 1975 Class 150, SS SP-51 1965 MSS 150, ANSI 125/150	7.50	6.0	4	0.750
	ANSI B16.1-1975 Class 250, ANSI B16.24-1971 300 lb, ANSI 16.5-1973 Class 300, MSS SP-44 1975 Class 300, ANSI 250/300	8.250	6.6250	8	0.8750
	MIL-F-20042C - 50 lb & 150 lb, BU Ships Drw B.176 NAVY/USCG	6.6250	5.50	8	0.5625
	BS 4504 & 4505, SABS 1123, DIN 2501 DIN/PN 6	7.4803	5.9055	4	0.7087
	DIN/PN 10, 16, 25	7.8740	6.2992	8	0.7087
	BS 10, AS2129 TABLE D & E	7.2441	5.7480	4	0.6693
	TABLE F & H	7.9921	6.4961	8	0.6693
JIS B2210,12,14, KS-B-1503 JIS 5	7.0866	5.7087	4	0.7480	
JIS 10	7.2835	5.9055	8	0.7480	
JIS 16, 20	7.8740	6.2992	8	0.9055	

I.D.	Type	Out. Dia.	Bolt Circle	Bolt Holes	Hole Dia.
4" 100mm	ANSI B15.1-1975 Class 125, ANSI B16.24-1971, AWWA C207-78 Tbl 1&2, Class D, Tbl 3, Class E MSS SP-44 1975 Class 150, SS SP-51 1965 MSS 150, ANSI 125/150	9.0	7.50	8	0.750
	ANSI B16.1-1975 Class 250, ANSI B16.24-1971 300 lb, ANSI 16.5-1973 Class 300, MSS SP-44 1975 Class 300, ANSI 250/300	10.0	8.750	8	0.8750
	MIL-F-20042C - 50 lb & 150 lb, BU Ships Drw B.176 NAVY/USCG	7.6875	6.5625	8	0.5625
	BS 4504 & 4505, SABS 1123, DIN 2501 DIN/PN 6	8.2677	6.6929	4	0.7087
	DIN/PN 10,16, 25	8.6614	7.0866	8	0.7087
	DIN/PN 25	9.2520	7.4803	8	0.7480
	BS 10, AS2129 TABLE D	8.5039	7.0079	4	0.6693
TABLE E	8.5039	7.0079	8	0.6693	
TABLE F & H	9.0157	7.5197	8	0.6693	
JIS B2210,12,14, KS-B-1503 JIS 5	7.8740	6.4961	8	0.7480	
JIS 10	8.2677	6.8898	8	0.7480	
JIS 16, 20	8.8583	7.2835	8	0.9055	

I.D.	Type	Out. Dia.	Bolt Circle	Bolt Holes	Hole Dia.
5" 125mm	ANSI B15.1-1975 Class 125, ANSI B16.24-1971, AWWA C207-78 Tbl 1&2, Class D, Tbl 3, Class E MSS SP-44 1975 Class 150, SS SP-51 1965 MSS 150, ANSI 125/150	10.0	8.50	8	0.8750
	ANSI B16.1-1975 Class 250, ANSI B16.24-1971 300 lb, ANSI 16.5-1973 Class 300, MSS SP-44 1975 Class 300, ANSI 250/300	11.0	9.250	8	0.8750
	MIL-F-20042C - 50 lb & 150 lb, BU Ships Drw B.176 NAVY/USCG	9.0625	7.8125	10	0.6875
	BS 4504 & 4505, SABS 1123, DIN 2501 DIN/PN 6	9.4488	7.8740	8	0.7087
	DIN/PN 10,16	9.8425	8.2677	8	0.7087
	DIN/PN 25	10.6299	8.6614	8	1.0236
	BS 10, AS2129 TABLE D & E	10.0	8.2677	8	0.6693
TABLE F & H	10.9842	9.2520	8	0.8661	
JIS B2210, 12, 14, KS-B-1503 JIS 5	9.2520	7.8740	8	0.7480	
JIS 10	9.8425	8.2677	8	0.9055	
JIS 16, 20	10.6299	8.8583	8	0.9843	

I.D.	Type	Out. Dia.	Bolt Circle	Bolt Holes	Hole Dia.
6" 150mm	ANSI B15.1-1975 Class 125, ANSI B16.24-1971, AWWA C207-78 Tbl 1&2, Class D, Tbl 3, Class E MSS SP-44 1975 Class 150, SS SP-51 1965 MSS 150, ANSI 125/150	11.0	9.50	8	0.8750
	ANSI B16.1-1975 Class 250, ANSI B16.24-1971 300 lb, ANSI 16.5-1973 Class 300, MSS SP-44 1975 Class 300, ANSI 250/300	12.50	10.6250	12	0.8750
	MIL-F-20042C - 50 lb & 150 lb, BU Ships Drw B.176 NAVY/USCG	10.1250	8.8750	12	0.6875
	BS 4504 & 4505, SABS 1123, DIN 2501 DIN/PN 6	10.4331	8.8583	8	0.7087
	DIN/PN 10,16	11.2205	9.4488	8	0.8661
	DIN/PN 25	11.8110	9.8425	8	1.0236
	BS 10, AS2129 TABLE D & E	11.2205	9.4488	8	0.8661
TABLE F & H	11.8110	9.8425	8	1.0236	
JIS B2210, 12, 14, KS-B-1503 JIS 5	10.4331	9.0551	8	0.7480	
JIS 10	11.0236	9.4488	8	0.9055	
JIS 16, 20	12.0079	10.2362	12	0.9843	

I.D.	Type	Out. Dia.	Bolt Circle	Bolt Holes	Hole Dia.
8" 200mm	ANSI B15.1-1975 Class 125, ANSI B16.24-1971, AWWA C207-78 Tbl 1&2, Class D, Tbl 3, Class E MSS SP-44 1975 Class 150, SS SP-51 1965 MSS 150, ANSI 125/150	13.50	11.750	8	0.8750
	ANSI B16.1-1975 Class 250, ANSI B16.24-1971 300 lb, ANSI 16.5-1973 Class 300, MSS SP-44 1975 Class 300, ANSI 250/300	15.0	13.0	12	1.0
	MIL-F-20042C - 50 lb & 150 lb, BU Ships Drw B.176 NAVY/USCG	12.3750	11.0625	14	0.6875
	BS 4504 & 4505, SABS 1123, DIN 2501 DIN/PN 6	12.5984	11.0236	8	0.7087
	DIN/PN 10,16	13.3859	11.6142	8,12	0.8661
	DIN/PN 25	14.1732	12.2047	12	1.0236
	BS 10, AS2129 TABLE D & E	13.2677	11.4960	8	.67&.87
TABLE F & H	14.4882	12.7559	12	0.8661	
JIS B2210, 12, 14, KS-B-1503 JIS 5	12.5984	11.0236	8	0.9055	
JIS 10	12.9921	11.4173	12	0.9055	
JIS 16, 20	13.7795	12.0079	12	1.0236	

FLANGE DRILLING DATA TABLES

I.D.	Type	Out. Dia.	Bolt Circle	Bolt Holes	Hole Dia.
10" 250mm	ANSI B15.1-1975 Class 125, ANSI B16.24-1971, AWWA C207-78 Tbl 1&2, Class D, Tbl 3, Class E MSS SP-44 1975 Class 150, SS SP-51 1965 MSS 150, ANSI 125/150	16.0	14.250	12	1.0
	ANSI B16.1-1975 Class 250, ANSI B16.24-1971 300 lb, ANSI 16.5-1973 Class 300, MSS SP-44 1975 Class 300, ANSI 250/300	17.50	15.250	16	1.1250
	MIL-F-20042C - 50 lb & 150 lb, BU Ships Drw B.176 NAVY/USCG	15.0	13.4375	15	0.8125
	BS 4504 & 4505, SABS 1123, DIN 2501				
	DIN/PN 6	14.7638	13.1890	12	0.7087
	DIN/PN 10	15.5512	13.7795	12	0.8661
	DIN/PN 16	15.9449	13.9764	12	1.0236
	DIN/PN 25	16.7323	14.5669	12	1.1811
	BS 10, AS2129				
	TABLE D	15.9842	14.0157	8	0.8661
TABLE E	15.9842	14.0157	12	0.8661	
TABLE F & H	17.0078	15.0	12	0.9843	
JIS B2210,12,14, KS-B-1503					
JIS 5	15.1575	13.5827	12	0.9055	
JIS 10	15.7480	13.9764	12	0.9843	
JIS 16, 20	16.9291	14.9606	12	1.0630	

I.D.	Type	Out. Dia.	Bolt Circle	Bolt Holes	Hole Dia.
12" 300mm	ANSI B15.1-1975 Class 125, ANSI B16.24-1971, AWWA C207-78 Tbl 1&2, Class D, Tbl 3, Class E MSS SP-44 1975 Class 150, SS SP-51 1965 MSS 150, ANSI 125/150	19.0	17.0	12	1.0
	ANSI B16.1-1975 Class 250, ANSI B16.24-1971 300 lb, ANSI 16.5-1973 Class 300, MSS SP-44 1975 Class 300, ANSI 250/300	20.50	17.750	16	1.250
	MIL-F-20042C - 50 lb & 150 lb, BU Ships Drw B.176 NAVY/USCG	17.6250	16.0625	18	0.8125
	BS 4504 & 4505, SABS 1123, DIN 2501				
	DIN/PN 6	17.3228	15.5512	12	0.8661
	DIN/PN 10	17.5197	15.7480	12	0.8661
	DIN/PN 16	18.1102	16.1417	12	1.0236
	DIN/PN 25	19.0945	16.9291	16	1.1811
	BS 10, AS2129				
	TABLE D	17.9921	15.9842	12	0.8661
TABLE E	17.9921	15.9842	12	0.9843	
TABLE F & H	19.2519	17.2441	16	0.9843	
JIS B2210,12,14, KS-B-1503					
JIS 5	16.9291	15.3543	12	0.9055	
JIS 10	17.5197	15.7480	16	0.9843	
JIS 16, 20	18.8976	16.9291	16	1.0630	

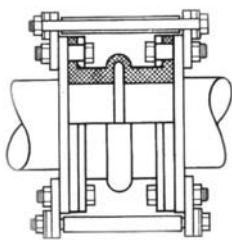
I.D.	Type	Out. Dia.	Bolt Circle	Bolt Holes	Hole Dia.
14" 350mm	ANSI B15.1-1975 Class 125, ANSI B16.24-1971, AWWA C207-78 Tbl 1&2, Class D, Tbl 3, Class E MSS SP-44 1975 Class 150, SS SP-51 1965 MSS 150, ANSI 125/150	21.0	18.750	12	1.1250
	ANSI B16.1-1975 Class 250, ANSI B16.24-1971 300 lb, ANSI 16.5-1973 Class 300, MSS SP-44 1975 Class 300, ANSI 250/300	23.0	20.250	20	1.250
	MIL-F-20042C - 50 lb & 150 lb, BU Ships Drw B.176 NAVY/USCG	19.1250	17.375	19	0.9375
	BS 4504 & 4505, SABS 1123, DIN 2501				
	DIN/PN 6	19.2913	17.5197	12	0.8661
	DIN/PN 10	19.8819	18.1102	16	0.8661
	DIN/PN 16	20.4724	18.5039	16	1.0236
	DIN/PN 25	21.8504	19.2913	16	1.2992
	BS 10, AS2129				
	TABLE D & E	20.7480	18.5039	12	0.9843
TABLE F & H	21.7322	19.4882	16	1.1417	
JIS B2210,12,14, KS-B-1503					
JIS 5	18.8976	17.1260	12	0.9843	
JIS 10	19.2913	17.5197	16	0.9843	
JIS 16, 20	21.2598	18.8976	16	1.2992	

I.D.	Type	Out. Dia.	Bolt Circle	Bolt Holes	Hole Dia.
16" 400mm	ANSI B15.1-1975 Class 125, ANSI B16.24-1971, AWWA C207-78 Tbl 1&2, Class D, Tbl 3, Class E MSS SP-44 1975 Class 150, SS SP-51 1965 MSS 150, ANSI 125/150	23.50	21.250	16	1.1250
	ANSI B16.1-1975 Class 250, ANSI B16.24-1971 300 lb, ANSI 16.5-1973 Class 300, MSS SP-44 1975 Class 300, ANSI 250/300	25.50	22.500	20	1.3750
	MIL-F-20042C - 50 lb & 150 lb, BU Ships Drw B.176 NAVY/USCG	21.1875	19.4375	20	0.9375
	BS 4504 & 4505, SABS 1123, DIN 2501				
	DIN/PN 6	21.2598	19.4882	16	0.8661
	DIN/PN 10	22.2441	20.2756	16	1.0236
	DIN/PN 16	22.8346	20.6693	16	1.1811
	DIN/PN 25	24.4094	21.6535	16	1.4173
	BS 10, AS2129				
	TABLE D & E	22.7559	20.5118	12	0.9843
TABLE F & H	24.0157	21.7322	20	1.1417	
JIS B2210,12,14, KS-B-1503					
JIS 5	21.2598	19.4882	16	0.9843	
JIS 10	22.0472	20.0787	16	1.0630	
JIS 16, 20	23.8189	21.2598	16	1.2992	

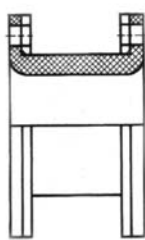
I.D.	Type	Out. Dia.	Bolt Circle	Bolt Holes	Hole Dia.
18" 450mm	ANSI B15.1-1975 Class 125, ANSI B16.24-1971, AWWA C207-78 Tbl 1&2, Class D, Tbl 3, Class E MSS SP-44 1975 Class 150, SS SP-51 1965 MSS 150, ANSI 125/150	25.0	22.750	16	1.250
	ANSI B16.1-1975 Class 250, ANSI B16.24-1971 300 lb, ANSI 16.5-1973 Class 300, MSS SP-44 1975 Class 300, ANSI 250/300	28.0	24.750	24	1.3750
	MIL-F-20042C - 50 lb & 150 lb, BU Ships Drw B.176 NAVY/USCG	23.250	21.50	22	0.9375
	BS 4504 & 4505, SABS 1123, DIN 2501				
	DIN/PN 6	23.4252	21.6535	16	0.8661
	DIN/PN 10	24.2126	22.2441	20	1.0236
	DIN/PN 16	25.1968	23.0315	20	1.1417
	DIN/PN 25	26.3779	23.6220	20	1.4173
	BS 10, AS2129				
	TABLE D	25.2362	22.9921	12	0.9843
TABLE E	25.2362	22.9921	16	0.9843	
TABLE F & H	26.4960	24.0157	20	1.2598	
JIS B2210,12,14, KS-B-1503					
JIS 5	23.8189	21.8504	16	0.9843	
JIS 10	24.4094	22.2441	20	1.0630	
JIS 16, 20	26.5748	23.8189	20	1.2992	

I.D.	Type	Out. Dia.	Bolt Circle	Bolt Holes	Hole Dia.
20" 500mm	ANSI B15.1-1975 Class 125, ANSI B16.24-1971, AWWA C207-78 Tbl 1&2, Class D, Tbl 3, Class E MSS SP-44 1975 Class 150, SS SP-51 1965 MSS 150, ANSI 125/150	27.50	25.0	20	1.250
	ANSI B16.1-1975 Class 250, ANSI B16.24-1971 300 lb, ANSI 16.5-1973 Class 300, MSS SP-44 1975 Class 300, ANSI 250/300	30.50	27.0	24	1.3750
	MIL-F-20042C - 50 lb & 150 lb, BU Ships Drw B.176 NAVY/USCG	25.8125	23.8125	24	1.0625
	BS 4504 & 4505, SABS 1123, DIN 2501				
	DIN/PN 6	25.3937	23.6220	20	0.8661
	DIN/PN 10	26.3779	24.4094	20	1.0236
	DIN/PN 16	28.1496	25.5905	20	1.2992
	DIN/PN 25	28.7401	25.9842	20	1.4173
	BS 10, AS2129				
	TABLE D & E	27.7559	25.2755	16	0.9843
TABLE F & H	29.0157	26.4960	24	1.2598	
JIS B2210,12,14, KS-B-1503					
JIS 5	25.7874	23.8189	20	0.9843	
JIS 10	26.5748	24.4094	20	1.0630	
JIS 16, 20	28.7401	25.9842	20	1.2992	

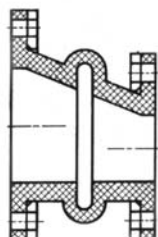
Other HOLZ Expansion Joint Products



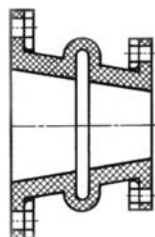
ARCH TYPE



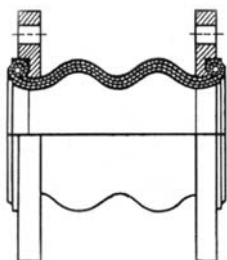
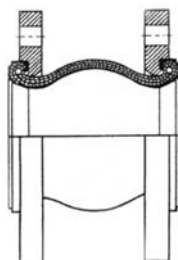
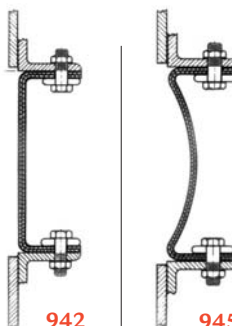
U-TYPE



ECCENTRIC



CONCENTRIC

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ARCH

942



945



952



501HT

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