



HOLZ
Rubber Company, Inc.

Molded PTFE Expansion Joints

Holz PTFE Molded Expansion Joints are spool-type flexible couplings designed to compensate for movement and abate noise in severe corrosive environments such as chemical processing, petrochemical, power generation, pulp and paper manufacturing, water and wastewater applications. Highly engineered and designed and built for use in the most extreme applications, Holz PTFE Molded expansion Joints can be used where metallic joints/lap joints, or PTFE and FEP-lined may have been previously specified or used.

Holz PTFE Molded Expansion Joints are available in 2,3, 4 or 5 convolutions in a wide variety of dimensions and operating temperatures.

All Holz PTFE expansion joints are delivered complete with ductile iron flanges and control units ready for immediate installation in the field. Flanges in other alloys are available by special order. Call for availability of other materials. Flanges are protected to resist atmosphere corrosion and are tapped to the ANSI standard drilling of 150 lbs.

Control units are assembled with flanges to prevent joints from excessive axial elongation. Holz sets the tie rods at the factory at the maximum face-to-face working limits, with lock nuts protecting against overextension. (Refer to specification tables for detailed engineering data)



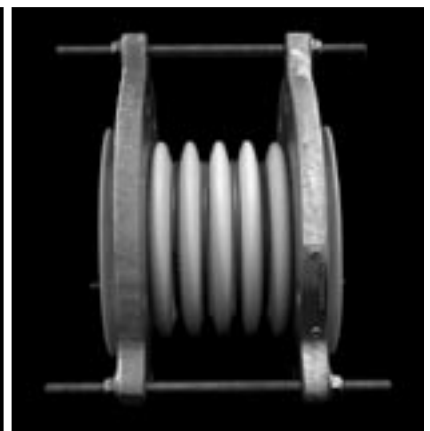
**Holz 820 PTFE
Expansion Joint**



**Holz 830 PTFE
Expansion Joint**



**Holz 840 PTFE
Expansion Joint**



**Holz 850 PTFE
Expansion Joint**

Holz PTFE Expansion Joints

#820 Holz, 2 Convolutions

ND (mm)	ND (inch)	F/F (mm)	F/F (inch)	PRESSURES				MOVEMENTS				SPRING RATES				WEIGHTS (lbs)
				Psig @ °F				AXIAL (inch)	LATERAL (inch)	ANGULAR w/rods (°)	ANGULAR w/o rods (°)	COMPRESSION (lbs/in)	EXTENSION (lbs/in)	LATERAL (lbs/in)	ANGULAR (foot.lbs/°)	
				70°F	175°F	300°F	400°F									
25	1	38	1.50	185	142	100	71	0.24	0.08	5	10	970.7	261.3	896.0	0.78	3.30
32	1.1/4	38	1.50	185	142	100	71	0.28	0.16	5	10	511.0	336.0	896.0	0.92	3.41
40	1.1/2	38	1.50	185	142	100	71	0.31	0.16	5	10	511.0	490.0	896.0	0.92	3.74
50	2	40	1.57	185	142	100	71	0.04	0.24	5	10	600.7	524.4	961.3	1.21	5.28
65	2.1/2	50	1.97	170	142	100	71	0.43	0.24	5	10	483.6	198.5	1,054.7	1.41	9.77
80	3	56	2.20	170	142	100	71	0.43	0.28	5	10	483.6	549.8	1,144.0	1.78	10.65
100	4	60	2.36	170	128	100	71	0.51	0.31	5	10	697.8	1,046.8	896.0	5.13	18.74
125	5	70	2.76	170	142	100	71	0.59	0.31	5	10	1,008.0	1,138.7	1,379.0	15.42	26.18
150	6	76	2.99	185	142	100	71	0.67	0.31	5	10	1,139.8	678.6	1,659.0	20.77	29.22
200	8	76	2.99	185	142	85	57	0.67	0.31	5	7	1,271.5	1,940.2	2,373.0	37.43	38.32
250	10	83	3.27	128	114	85	57	0.79	0.35	5	7	1,433.6	747.6	1,711.1	48.70	57.60
300	12	98	3.86	128	85	42	28	0.79	0.35	4	7	1,610.0	1,713.6	2,289.8	74.61	92.58

#830 Holz, 3 Convolutions

ND (mm)	ND (inch)	F/F (mm)	F/F (inch)	PRESSURES				MOVEMENTS				SPRING RATES				WEIGHTS (lbs)
				Psig @ °F				AXIAL (inch)	LATERAL (inch)	ANGULAR w/rods (°)	ANGULAR w/o rods (°)	COMPRESSION (lbs/in)	EXTENSION (lbs/in)	LATERAL (lbs/in)	ANGULAR (foot.lbs/°)	
				70°F	175°F	300°F	400°F									
25	1	50	1.97	178	142	71	42	0.35	0.16	7	15	644	174.2	448.0	0.72	3.34
32	1.1/4	51	2.01	178	142	71	42	0.47	0.24	7	15	356.6	247.3	466.7	0.98	3.45
40	1.1/2	51	2.01	178	142	71	42	0.47	0.24	7	15	356.6	275.3	466.7	0.98	4.00
50	2	58	2.28	142	142	71	42	0.59	0.39	7	15	356.6	272.5	509.6	1.79	5.28
65	2.1/2	68	2.68	142	114	64	42	0.59	0.39	7	15	353.7	190.4	414.4	1.24	9.68
80	3	74	2.91	128	128	71	42	0.63	0.47	7	15	324.8	280.0	504.0	1.28	10.87
100	4	82	3.23	128	100	71	42	0.79	0.47	8	15	497.3	299.6	625.3	3.03	19.65
125	5	94	3.70	142	114	64	42	0.87	0.47	8	15	513.0	417.5	886.7	5.20	27.04
150	6	104	4.09	156	100	64	42	0.98	0.55	8	15	710.0	421.1	1,068.0	10.01	30.32
200	8	104	4.09	100	106	57	28	1.10	0.55	8	15	1,178.0	540.0	1,692.0	19.00	39.42
250	10	111	4.37	92	92	57	28	1.18	0.59	7	10	1,006.1	812.0	1,721.1	26.55	60.90
300	12	135	5.31	78	57	42	28	1.18	0.59	6	10	1,995.5	737.3	1,220.8	56.72	94.78

#840 Holz, 4 Convolutions

ND (mm)	ND (inch)	F/F (mm)	F/F (inch)	PRESSURES				MOVEMENTS				SPRING RATES				WEIGHTS (lbs)
				Psig @ °F				AXIAL (inch)	LATERAL (inch)	ANGULAR w/rods (°)	ANGULAR w/o rods (°)	COMPRESSION (lbs/in)	EXTENSION (lbs/in)	LATERAL (lbs/in)	ANGULAR (foot.lbs/°)	
				70°F	175°F	300°F	400°F									
25	1	60	2.36	170	106	57	28	0.47	0.28	9	22	593.6	158.7	319.2	0.65	3.39
32	1.1/4	65	2.56	128	106	57	28	0.59	0.31	10	22	324.8	190.4	322.0	0.96	3.63
40	1.1/2	65	2.56	128	106	57	28	0.59	0.31	10	22	324.8	231.5	322.0	0.96	3.96
50	2	70	2.76	128	114	57	28	0.79	0.55	10	20	324.8	305.2	320.0	1.15	5.50
65	2.1/2	86	3.39	100	71	42	28	0.79	0.59	10	20	238.0	154.0	321.1	0.84	10.08
80	3	92	3.62	142	100	42	28	0.79	0.59	10	20	271.6	182.0	332.3	1.37	11.09
100	4	103	4.06	114	100	42	28	1.06	0.63	10	18	336.0	319.4	381.5	3.72	20.06
125	5	118	4.65	114	114	42	28	1.14	0.63	10	17	561.9	361.1	696.5	6.61	26.77
150	6	132	5.20	100	71	42	28	1.30	0.67	10	16	409.0	329.2	602.8	8.17	31.42
200	8	132	5.20	128	100	42	28	1.46	0.67	10	15	856.6	561.5	1,185.9	16.98	41.62
250	10	139	5.47	128	100	42	28	1.57	0.71	10	11	805.0	518.0	1,309.8	18.48	62.00
300	12	172	6.77	85	42	28	21	1.57	0.71	8	11	582.4	373.8	886.7	24.43	96.98

#850 Holz, 5 Convolutions

ND (mm)	ND (inch)	F/F (mm)	F/F (inch)	PRESSURES				MOVEMENTS				SPRING RATES				WEIGHTS (lbs)
				Psig @ °F				AXIAL (inch)	LATERAL (inch)	ANGULAR w/rods (°)	ANGULAR w/o rods (°)	COMPRESSION (lbs/in)	EXTENSION (lbs/in)	LATERAL (lbs/in)	ANGULAR (foot.lbs/°)	
				70°F	175°F	300°F	400°F									
25	1	70	2.76	156	85	42	28	0.59	0.43	12	30	420.0	97.1	168.0	0.49	3.41
32	1.1/4	78	3.07	114	100	42	28	0.75	0.51	12	30	282.9	156.2	172.3	0.57	3.85
40	1.1/2	78	3.07	114	100	42	28	0.75	0.51	12	30	282.9	200.4	172.3	0.57	3.96
50	2	85	3.35	114	85	42	28	0.98	0.55	13	26	255.4	159.0	248.0	0.51	5.72
65	2.1/2	104	4.09	92	64	42	28	0.98	0.59	13	25	329.3	123.2	179.2	1.26	10.30
80	3	110	4.33	92	85	42	28	0.98	0.67	12	24	219.5	147.8	253.6	1.29	12.19
100	4	125	4.92	114	71	42	28	1.30	0.71	14	22	380.1	183.3	304.9	1.96	20.72
125	5	142	5.59	128	114	42	28	1.46	0.71	14	20	463.1	221.0	404.4	3.58	28.25
150	6	160	6.30	78	71	42	28	1.65	0.75	14	20	466.7	408.0	421.5	5.24	32.52
200	8	160	6.30	114	85	42	28	1.85	0.75	13	15	881.7	428.9	689.7	16.36	42.72
250	10	167	6.57	114	85	42	28	1.97	0.75	12	13	731.4	460.3	574.7	18.17	64.20
300	12	209	8.23	85	2.5	28	21	1.97	0.79	10	13	579.0	369.6	918.4	30.07	98.08