

# PROCO™

STYLE

# 440-BE



## molded PTFE expansion joints (440-E Neutral Lengths with 440-BD Limit Bolts)

Table 7: Sizes • Movements • Spring Rates • Flange Standards • Temperatures • Vacuum • Weights																												
NOMINAL SIZE I.D.	NEUTRAL LENGTH INCHES	MOVEMENT CAPABILITIES <sup>1</sup>			SPRING RATE CAPABILITY <sup>2</sup>				EXPANSION JOINT FLANGE DRILLING								PRESSURE AT TEMPERATURE (PSIG) @ °F								VACUUM RATING <sup>3</sup>	WEIGHT / LBS		
		± AXIAL (Δx) MOVEMENT	LATERAL (Δy) DEFLECTION	ANGULAR DEFLECTION	COMPRESSION SPRING RATE	EXTENSION SPRING RATE	LATERAL SPRING RATE	THRUST FACTOR	# HOLES	THREADED HOLE SIZE	BOLT CIRCLE FLANGE "A"	PTFE FLARE O.D. "B"	FLANGE THICKNESS	NOMINAL FLANGE O.D.	LIMIT BOLT DIAMETER	BOLT CIRCLE LIMIT BOLT "C"	LIMIT BOLT "EAR" O.D.	70°	100°	150°	200°	250°	300°	350°			400°	Hg at Temp.
		IN	IN	DEG.	LB <sub>v</sub> /IN	LB <sub>v</sub> /IN	LB <sub>v</sub> /IN																					
<b>Style 442-BE — 442-E Neutral Lengths with 442-BD Limit Bolts</b>																												
1.00	1.750	0.344	.125	7	140	144	120	2.76	4	1/2- 13	3.125	2.000	.438	4.250	.250	5.125	6.000	185	170	148	130	115	100	84	68	29.9° @ 425°F	2	
1.50	1.813	0.344	.125	7	240	200	240	4.60	4	1/2- 13	3.875	2.875	.469	5.000	.250	5.875	6.750	185	170	148	130	115	100	84	68	29.9° @ 425°F	2	
2.00	1.875	0.344	.125	7	430	350	440	7.07	4	5/8- 11	4.750	3.625	.484	6.000	.375	6.875	8.125	185	170	148	130	115	100	84	68	29.9° @ 425°F	7	
3.00	2.188	0.406	.188	7	650	320	350	15.90	4	5/8- 11	6.000	5.000	.578	7.500	.375	8.750	10.000	185	170	148	130	115	100	84	68	29.9° @ 425°F	10	
4.00	2.281	0.438	.250	7	360	280	630	23.75	8	5/8- 11	7.500	6.188	.578	9.000	.375	9.875	11.125	185	170	148	130	115	100	84	68	29.9° @ 400°F	18	
6.00	2.531	0.469	.250	7	460	350	720	50.24	8	3/4- 10	9.500	8.500	.641	11.000	.500	12.500	14.000	185	170	148	130	115	100	84	68	29.9° @ 400°F	29	
8.00	2.750	0.531	.250	7	300	230	800	81.48	8	3/4- 10	11.750	10.625	.688	13.500	.500	14.750	16.250	164	150	129	112	100	87	73	60	29.9° @ 250°F	47	
10.00	2.969	0.563	.250	6	1280	870	1000	108.38	12	7/8- 9	14.250	12.750	0.734	16.000	.500	17.500	19.000	164	150	129	112	100	87	73	60	29.9° @ 250°F	64	
12.00	3.094	0.594	.250	5	380	240	1000	176.63	12	7/8- 9	17.000	15.000	0.813	19.000	.625	20.500	22.000	70	59	48	40	35	30	26	22	29.9° @ 75°F	115	
<b>Style 443-BE — 443-E Neutral Lengths with 443-BD Limit Bolts</b>																												
1.00	2.313	0.500	.250	14	130	130	260	2.81	4	1/2- 13	3.125	2.000	.438	4.250	.250	5.125	6.000	138	126	107	90	76	64	53	45	29.9° @ 400°F	2	
1.50	2.406	0.531	.250	12	80	70	110	5.09	4	1/2- 13	3.875	2.875	.469	5.000	.250	5.875	6.750	138	126	107	90	76	64	53	45	29.9° @ 400°F	4	
2.00	2.500	0.531	.375	12	70	80	160	9.11	4	5/8- 11	4.750	3.625	.484	6.000	.375	6.875	8.125	138	126	107	90	76	64	53	45	29.9° @ 400°F	8	
3.00	2.906	0.625	.500	10	140	160	190	16.91	4	5/8- 11	6.000	5.000	.578	7.500	.375	8.750	10.000	138	126	107	90	76	64	53	45	29.9° @ 400°F	13	
4.00	3.063	0.656	.500	10	220	160	190	25.40	8	5/8- 11	7.500	6.188	.578	9.000	.375	9.875	11.125	138	126	107	90	76	64	53	45	29.9° @ 400°F	19	
6.00	3.375	0.719	.563	9	350	190	540	50.24	8	3/4- 10	9.500	8.500	.641	11.000	.500	12.500	14.000	138	126	107	90	76	64	53	45	29.9° @ 300°F	30	
8.00	3.656	0.781	.563	9	450	170	750	81.48	8	3/4- 10	11.750	10.625	.688	13.500	.500	14.750	16.250	120	110	94	80	67	57	47	38	29.9° @ 125°F	48	
<b>Style 445-BE — 445-E Neutral Lengths with 445-BD Limit Bolts</b>																												
1.00	3.500	0.844	.500	20	50	110	50	2.81	4	1/2- 13	3.125	2.000	.438	4.250	.250	5.125	6.000	72	61	46	40	34	29	27	24	NOT	2	
1.50	3.625	0.785	.500	20	75	80	50	5.09	4	1/2- 13	3.875	2.875	.469	5.000	.250	5.875	6.750	72	61	46	40	34	29	27	24	DESIGNED	5	
2.00	3.750	0.875	.500	15	60	50	50	9.11	4	5/8- 11	4.750	3.625	.484	6.000	.375	6.875	8.125	72	61	46	40	34	29	27	24	FOR	9	
3.00	4.375	1.031	.500	17	55	60	170	16.91	4	5/8- 11	6.000	5.000	.578	7.500	.375	8.750	10.000	72	61	46	40	34	29	27	24	VACUUM	14	
4.00	4.563	1.094	.625	15	70	60	80	25.40	8	5/8- 11	7.500	6.188	.578	9.000	.375	9.875	11.125	72	61	46	40	34	29	27	24	SERVICE	20	
6.00	5.031	1.188	.625	15	190	130	195	50.24	8	3/4- 10	9.500	8.500	.641	11.000	.500	12.500	14.000	72	61	46	40	34	29	27	24	SERVICE	31	

- NOTES: 1. Movements are non-concurrent and based from Neutral Length with Limit Bolts installed.  
 2. Spring Rate Capability is based on 1" of movement at zero pressure conditions.  
 3. Vacuum Rating is based from fully extended position. Style 445-BE is not designed for Vacuum Service.

PROCO STYLE NUMBER:	STYLE 440-BE MATERIALS OF CONSTRUCTION						
442-BE — 1" THROUGH 12"	BELLOWS	FLANGES	REINFORCING RINGS	LIMIT BOLTS	NUTS	GROMMETS	WASHERS
443-BE — 1" THROUGH 8"							



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