

PROCO™

STYLE 4405



five convolution heavy-duty molded PTFE bellows

TABLE 4

NOMINAL SIZE I.D.	NEUTRAL LENGTH INCHES	MOVEMENT CAPABILITIES BASED ON FIVE CONVOLUTION DESIGN			SPRING RATE CAPABILITY BASED ON 1" OF MOVEMENT AT ZERO PRESSURE CONDITIONS			EXPANSION JOINT FLANGE DRILLING						PRESSURE AT TEMPERATURE (PSIG) @ °F								VACUUM Hg at Temp.	WEIGHT / LBS		
		± AXIAL (ΔX) MOVEMENT	LATERAL (ΔY) DEFLECTION	ANGULAR DEFLECTION	FORCE LBS PER 1" RATED EXTENSION	FORCE LBS PER 1" RATED COMPRESSION	FORCE LBS PER 1" RATED LATERAL DEFLECTION	# HOLES	THREADED HOLE SIZE	BOLT CIRCLE FLANGE "A"	FLANGE THICKNESS	NOMINAL FLANGE DIAMETER	LIMIT BOLT DIAMETER	BOLT CIRCLE LIMIT BOLT "B"	LIMIT BOLT "EAR" O.D.	All units are hydrostatically tested at 1.5 times rated pressure after manufacturing.									
		IN	IN	DEG.	LB/IN	LB/IN	LB/IN									70°	100°	150°	200°	250°	300°			350°	400°
1.00	2.560	.779	.394	30	514	343	800	4	1/2-13	3.125	.551	4.250	.250	5.300	6.102	232	183	150	104	90	75	62	50	29.9° @ 350°F	4
1.25	3.150	.984	.472	30	514	343	800	4	1/2-13	3.500	.551	4.625	.250	6.700	7.480	232	183	150	104	90	75	62	50	29.9° @ 350°F	6
1.50	3.937	.984	.472	30	514	343	800	4	1/2-13	3.875	.630	5.000	.250	6.700	7.480	232	183	150	104	90	75	62	50	29.9° @ 350°F	8
2.00	3.937	1.107	.551	26	800	400	914	4	5/8-11	4.750	.630	6.000	.250	7.300	8.071	232	183	150	104	90	75	62	50	29.9° @ 350°F	9
2.50	4.724	1.230	.591	25	800	400	914	4	5/8-11	5.500	.630	7.000	.250	8.100	8.858	232	183	150	104	90	75	62	50	29.9° @ 350°F	10
3.00	5.118	1.393	.669	24	1028	400	1085	4	5/8-11	6.000	.630	7.500	.250	8.700	9.449	232	183	150	104	90	75	62	50	29.9° @ 350°F	13
4.00	5.512	1.475	.709	22	1028	457	1200	8	5/8-11	7.500	.630	9.000	.250	9.400	10.236	232	183	150	104	90	75	62	50	29.9° @ 350°F	15
5.00	5.906	1.516	.709	19	1028	514	1313	8	3/4-10	8.500	.630	10.000	.375	11.000	11.417	232	183	150	104	90	75	62	50	29.9° @ 350°F	24
6.00	6.103	1.557	.748	17	1314	629	1656	8	3/4-10	9.500	.709	11.000	.375	12.400	13.583	232	183	150	104	90	75	62	50	29.9° @ 350°F	25
8.00	6.693	1.598	.748	15	1599	800	2170	8	3/4-10	11.750	.709	13.500	.375	14.600	15.748	232	183	150	104	90	75	62	50	29.9° @ 212°F	36
10.00	6.890	1.598	.748	13	2056	971	2684	12	7/8-9	14.250	.709	16.000	.375	16.700	17.913	232	183	150	104	90	75	62	50	29.9° @ 212°F	54
12.00	7.087	1.639	.787	13	2342	1142	2970	12	7/8-9	17.000	.709	19.000	.375	19.700	21.260	232	183	150	104	90	75	62	50	29.9° @ 212°F	65
14.00	7.087	1.680	.787	12	ENGINEERED PER SPECIFICATIONS			12	1-8	18.750	.787	21.000	.375	22.200	22.244	232	183	150	104	90	75	62	50	14.9° @ 70°F	81
16.00	7.480	1.721	.827	12				16	1-8	21.250	.787	23.500	.375	24.300	25.000	232	183	150	104	90	75	62	50	14.9° @ 70°F	117
18.00	7.480	1.721	.827	10				16	1 1/8-7	22.750	.866	25.000	.375	25.800	27.362	232	183	150	104	90	75	62	50	14.9° @ 70°F	141
20.00	7.677	1.762	.827	10				20	1 1/8-7	25.000	.866	27.500	.375	28.500	29.134	232	183	150	104	90	75	62	50	14.9° @ 70°F	163
22.00	7.677	1.762	.866	8				20	1 1/4-7	27.250	.945	29.500	.375	30.500	31.890	232	183	150	104	90	75	62	50	14.9° @ 70°F	198
24.00	7.874	1.762	.866	8				20	1 1/4-7	29.500	.945	32.000	.375	32.900	34.646	232	183	150	104	90	75	62	50	14.9° @ 70°F	243

Larger diameters, custom lengths, and performance requirements available upon request.

Pressure Rating Note:

316 Stainless Steel Anti-Squirm Flanges are available for higher pressure applications. (See Back Cover.)

MATERIALS OF CONSTRUCTION	
DESCRIPTION	STYLE 4405
BELLOWS	WHITE PTFE
FLANGES	DUCTILE IRON
REINFORCING RINGS	304 SS
LIMIT BOLTS	CARBON STEEL
NUTS	CARBON STEEL
INSULATING SLEEVES	POLYETHYLENE
WASHERS	CARBON STEEL / NYLON