

CHEM RING FEP / PFA ENCAPSULATED O RINGS; SIZES AND PRODUCTION TOLERANCES



THIS TABLE PROVIDES INFORMATION TO OUR RANGE OF STANDARD X-SECTIONS. THE MINIMUM ID FOR EACH X-SECTION AND OUR PRODUCTION TOLERANCES; FOR EACH OF 3 I.D. RANGES AND HOLLOW CORE.

The left hand side orange column shows our tolerances on all sizes above the minimum I.D.'s for same shown.

The left middle blue column shows tolerances for smaller I.D.'s, beneath the orange column I.D., down to the I.D. shown.

The right middle green column shows tolerances for the very smallest I.D.'s, beneath the blue column I.D, down to our minimum I.D.

The right hand side yellow column shows tolerances for Hollow Silicone Core Encapsulated O Rings.

Standard Cross Sections Metric mm	Standard Cross Sections Imperial Inch	Standard Production; Minimum ID Q Grade and BLF Grade Non Ex-stock supply = 9 Working days from the Friday of the week of your order			Standard Production; Minimum ID Q Grade and BLF Grade Non Ex-stock supply = 25 Working days from the Friday of the week of your order			Special Production; Minimum ID Usually Q Grade Only Non Ex-stock supply = 25 Working days from the Friday of the week of your order		Hollow SIL only Minimum ID BLF & Q Grade Non Ex-stock supply = 9 to 25 Working days from the Friday of the week of your order	
		FEP / PFA mm	Q Grade & W BLF Grade Tol	Customer Grade Tol	FEP / PFA mm	Q Grade & W BLF Grade Tol	Customer Grade Tol	FEP / PFA mm		Special Production + 25 days	Standard Production + 9 days
		SIL / VIT	X-section		SIL / VIT	X-section		SIL	VIT		
1.50	0.059	16.00	-0.08 / +0.12	-0.08 / +0.08	12.00	-0.14 / +0.19	-0.12 / +0.14	5.30	6.07	-----	-----
1.60	0.063	16.00	-0.08 / +0.12	-0.08 / +0.08	12.00	-0.14 / +0.19	-0.12 / +0.14	6.07	6.07	9.53	-----
1.78	0.070	16.00	-0.08 / +0.12	-0.08 / +0.08	10.82	-0.14 / +0.19	-0.12 / +0.14	6.07	6.07	9.53	20.35
1.80	0.071	16.00	-0.08 / +0.12	-0.08 / +0.08	10.82	-0.14 / +0.19	-0.12 / +0.14	6.07	6.07	9.53	20.35
2.00	0.079	16.00	-0.08 / +0.12	-0.08 / +0.08	12.00	-0.14 / +0.19	-0.12 / +0.14	6.07	6.07	9.53	28.00
2.40	0.094	16.00	-0.08 / +0.12	-0.08 / +0.08	12.00	-0.14 / +0.19	-0.12 / +0.14	7.59	9.20	10.77	28.00
2.50	0.098	16.00	-0.08 / +0.12	-0.08 / +0.08	12.00	-0.14 / +0.19	-0.12 / +0.14	7.59	9.20	10.77	30.00
2.62	0.103	18.00	-0.08 / +0.12	-0.08 / +0.08	12.37	-0.14 / +0.19	-0.12 / +0.14	7.59	9.20	10.77	29.83
3.00	0.118	22.00	-0.08 / +0.12	-0.08 / +0.08	16.00	-0.16 / +0.22	-0.12 / +0.16	9.20	10.00	12.37	30.00
3.15	0.124	22.00	-0.08 / +0.15	-0.08 / +0.08	16.00	-0.16 / +0.22	-0.12 / +0.16	9.20	10.00	12.37	30.00
3.50	0.138	24.00	-0.08 / +0.15	-0.08 / +0.08	18.64	-0.18 / +0.25	-0.14 / +0.18	9.20	12.30	12.37	31.34
3.53	0.139	24.00	-0.08 / +0.15	-0.08 / +0.08	18.64	-0.18 / +0.25	-0.14 / +0.18	9.20	12.30	13.87	31.34
3.80	0.150	32.00	-0.10 / +0.18	-0.10 / +0.10	25.00	-0.21 / +0.28	-0.15 / +0.20	18.00	18.00	19.05	35.00
4.00	0.157	32.00	-0.10 / +0.18	-0.10 / +0.10	26.00	-0.21 / +0.28	-0.15 / +0.20	18.00	18.00	19.05	40.00
4.30	0.170	35.00	-0.10 / +0.18	-0.10 / +0.10	28.00	-0.21 / +0.28	-0.15 / +0.20	18.00	20.00	20.62	42.00
4.50	0.177	37.00	-0.10 / +0.18	-0.10 / +0.10	30.00	-0.21 / +0.28	-0.15 / +0.20	18.00	20.00	20.62	45.00
4.75	0.187	37.00	-0.10 / +0.18	-0.10 / +0.10	30.00	-0.21 / +0.28	-0.15 / +0.20	18.00	20.00	24.77	50.00
5.00	0.196	37.00	-0.13 / +0.20	-0.13 / +0.13	30.00	-0.25 / +0.32	-0.18 / +0.26	18.00	20.00	24.77	60.00
5.33	0.210	37.00	-0.13 / +0.20	-0.13 / +0.13	30.00	-0.25 / +0.32	-0.18 / +0.26	20.00	20.00	24.77	62.87
5.50	0.217	48.00	-0.13 / +0.20	-0.13 / +0.13	40.00	-0.25 / +0.32	-0.18 / +0.26	20.00	20.00	24.77	65.00
5.70	0.225	52.00	-0.13 / +0.20	-0.13 / +0.13	44.00	-0.25 / +0.32	-0.18 / +0.26	20.00	27.00	44.45	70.00
6.00	0.236	53.00	-0.13 / +0.20	-0.13 / +0.13	45.00	-0.25 / +0.32	-0.18 / +0.26	20.00	27.00	44.45	80.00
6.30	0.250	55.00	-0.13 / +0.20	-0.13 / +0.13	45.00	-0.25 / +0.32	-0.18 / +0.26	27.00	35.00	57.79	90.00
6.50	0.256	55.00	-0.15 / +0.23	-0.15 / +0.15	45.00	-0.29 / +0.36	-0.20 / +0.30	36.00	37.46	57.79	126.00
6.99	0.275	60.00	-0.15 / +0.23	-0.15 / +0.15	50.00	-0.29 / +0.36	-0.20 / +0.30	36.00	37.46	57.79	126.37
7.00	0.275	60.00	-0.15 / +0.23	-0.15 / +0.15	50.00	-0.29 / +0.36	-0.20 / +0.30	36.00	37.46	57.79	126.37
7.50	0.295	75.00	-0.16 / +0.24	-0.16 / +0.16	70.00	-0.32 / +0.42	-0.22 / +0.32	50.80	60.00	88.27	140.00
8.00	0.315	85.00	-0.16 / +0.24	-0.16 / +0.16	70.00	-0.32 / +0.42	-0.22 / +0.32	50.80	60.00	88.27	150.00
8.40	0.331	105.00	-0.16 / +0.24	-0.16 / +0.16	90.00	-0.32 / +0.42	-0.22 / +0.32	50.80	73.00	95.25	155.00
9.00	0.354	110.00	-0.16 / +0.24	-0.16 / +0.16	100.00	-0.35 / +0.50	-0.24 / +0.34	50.80	73.00	95.25	160.00
9.50	0.375	110.00	-0.16 / +0.24	-0.16 / +0.16	105.00	-0.35 / +0.50	-0.24 / +0.34	50.80	73.00	95.25	162.00
10.00	0.393	125.00	-0.17 / +0.26	-0.17 / +0.17	108.00	-0.35 / +0.50	-0.24 / +0.34	57.00	74.00	100.97	170.00
11.00	0.437	135.00	-0.17 / +0.26	-0.17 / +0.17	120.00	-0.40 / +0.55	-0.25 / +0.35	70.00	102.00	127.00	180.00
12.00	0.472	145.00	-0.17 / +0.26	-0.17 / +0.17	135.00	-0.40 / +0.55	-0.25 / +0.35	70.00	102.00	127.00	190.00
12.70	0.500	170.00	-0.17 / +0.26	-0.17 / +0.17	155.00	-0.40 / +0.55	-0.25 / +0.35	70.00	102.00	127.00	200.00
14.00	0.551	250.00	-0.19 / +0.29	-0.19 / +0.19	220.00	-0.40 / +0.55	-0.25 / +0.35	130.00	130.00	139.70	280.00
15.00	0.591	280.00	-0.19 / +0.29	-0.19 / +0.19	250.00	-0.45 / +0.60	-0.30 / +0.40	150.00	177.80	152.40	300.00
16.00	0.630	280.00	-0.20 / +0.30	-0.20 / +0.20	250.00	-0.45 / +0.60	-0.30 / +0.40	150.00	177.80	-----	NOTE; RED ABOVE ONLY TO VOLUME ORDER
18.00	0.708	340.00	-0.20 / +0.30	-0.20 / +0.20	300.00	-0.50 / +0.70	-0.32 / +0.42	150.00	177.80	203.00	
19.00	0.748	340.00	-0.21 / +0.32	-0.21 / +0.21	300.00	-0.55 / +0.75	-0.32 / +0.42	203.20	203.20	-----	
20.00	0.787	370.00	-0.21 / +0.32	-0.21 / +0.21	320.00	-0.60 / +0.80	-0.34 / +0.44	203.20	203.20	-----	
25.40	1.000	-----	-----	-----	-----	-----	-----	228.60	-----	-----	-----
31.75	1.250	-----	-----	-----	-----	-----	-----	400.00	-----	-----	-----

* 25.40 & 31.75mm PFA/SIL only.

For smaller I.D. Rings, especially those shown in the blue and green columns, the X-section naturally becomes slightly oval. This physical material affect increases as the I.D. size decreases. The tolerance shown on these Small I.D. Rings then, is the average of the axial and radial X-section measurements. This is why the tolerances necessarily increase, though not always to the limits shown. For the sizes shown in the green column, tolerances are absolutely dependant upon the size and thus have to be agreed per size, if required.

Hollow Core Tolerances are same as solid core to same size.