RSa
Refractive Surgery GP

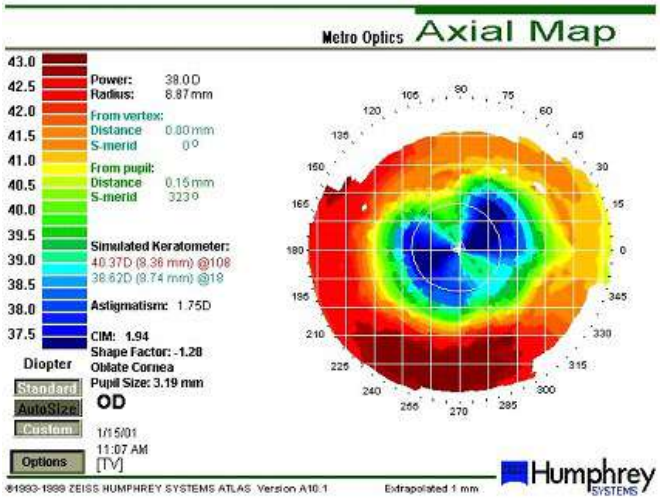
Post Refractive Surgery & Post Corneal Graft GP Contact Lens

The RSa incorporates a combination of spherical and aspheric curves to optimally fit the surgically altered cornea. The diagnostic set is divided into two sections to separately address the Post Refractive or Post Graft cornea.

Post Refractive Fitting Instructions

Step 1 **Initial Diagnostic Lens Selection**

A.) **Using Corneal Topography or Manual Keratometry-** Use "K" readings to select a diagnostic lens that is nearest to **1 diopter steeper than Steepest "K".**



EXAMPLE: Above Topo. 38.62 / 40.37 = 40.37 Steep "K"
add 1.00 diopter for a result of 41.37.
Use 41.00 diagnostic from Post-Refractive section.

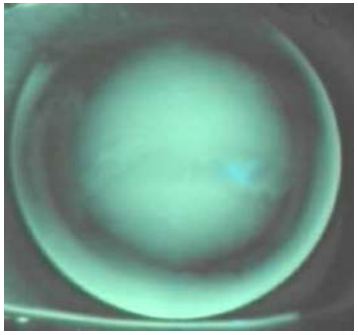
B.) **Without Corneal Data -**
Select 42.00 diopter base curve RSa diagnostic lens from Post-Refractive section. This is the median curve and will provide a good starting point.

Step 2 Apply Diagnostic Lens

Apply the selected diagnostic lens and allow it to settle for 2 to 3 minutes then instill a small amount of fluorescein. **Note:** RSa diagnostic lenses contain a UV blocker. For best evaluation results, evaluate fluorescein with a blue cobalt light and a Yellow Wratten filter.

Step 3 Evaluate Fit

The ideal fit will show peripheral alignment and central vault. Pooling in the central portion of the lens should not contain bubbles or be so heavy that the pupil cannot be seen through it. Adequate lens movement is also very important and the lens should move with the blink and immediately return to a centered position.



Note: If the best fitting diagnostic lens exhibits excessive edge lift, call Metro Optics Consultation Department to discuss an RSb lens option.

Step 4 Over-Refract

When the best fitting diagnostic lens is determined and allowed to settle for 2 to 3 minutes, over-refract. Note: Vertex all Over-Refractions ± 4.00 diopters.

Post Corneal Graft Fitting Instructions

Step 1 Initial Diagnostic Lens Selection

Using either simulated "K" readings from topography or manual "K"'s, select diagnostic lens that is nearest to **1 dipoter steeper than Steepest "K"** from the Post-Graft section.

EXAMPLE: "K"'s of 45.00 / 47.50 = 47.50 steep "K"
and add 1.00 dipter for a result of 48.50.
Use 48.25 RSa diagnostic lens

Step 2 Apply Diagnostic Lens

Apply the selected diagnostic lens and allow it to settle for 2 to 3 minutes then instill a small amount of fluorescein. **Note:** RSa diagnostic lenses contain a UV blocker. For best evaluation results, evaluate fluorescein with a blue cobalt light and a Yellow Wratten filter.

Step 3 Evaluate Central Fit

A graft that is fairly regular in curvature will exhibit good central alignment. A graft that is highly irregular will require achieving the best balance of overall central fit. This may include areas of significant vault as well as areas of slight to moderate touch.

Step 4 Evaluate Edge Fit

Adequate to moderately heavy edge lift should not require adjustment. Excessive edge standoff will fall into one of the following categories:
1.) Excessive edge standoff at steep axis indicates a toric base curve is needed. Call Metro Optics Consultation Department for design assistance.
2.) Excessive edge standoff of entire lens indicates a steeper lens is needed. If a steeper lens does not alleviate standoff, an RSb series lens is needed. Call Metro Optics Consultation Department for design assistance.

Always Ahead of the Curve

METRO OPTICS

800-223-1858

www.metro-optics.com

DIOPTER CONVERSION TABLE

32.00	10.55	40.12	8.41	44.25	7.63	48.37	6.98	52.50	6.43
33.00	10.23	40.25	8.39	44.37	7.61	48.50	6.96	52.62	6.41
34.00	9.93	40.37	8.36	44.50	7.58	48.62	6.94	52.75	6.40
34.50	9.78	40.50	8.33	44.62	7.56	48.75	6.92	52.87	6.38
35.00	9.64	40.62	8.31	44.75	7.54	48.87	6.91	53.00	6.37
35.50	9.51	40.75	8.28	44.87	7.52	49.00	6.89	53.12	6.35
36.00	9.38	40.87	8.26	45.00	7.50	49.12	6.87	53.25	6.34
36.50	9.25	41.00	8.23	45.12	7.48	49.25	6.85	53.37	6.32
37.00	9.12	41.12	8.21	45.25	7.46	49.37	6.84	53.50	6.31
37.12	9.09	41.25	8.18	45.37	7.44	49.50	6.82	53.62	6.29
37.25	9.06	41.37	8.16	45.50	7.42	49.62	6.80	53.75	6.28
37.37	9.03	41.50	8.13	45.62	7.40	49.75	6.78	53.87	6.27
37.50	9.00	41.62	8.11	45.75	7.38	49.87	6.77	54.00	6.25
37.62	8.97	41.75	8.08	45.87	7.36	50.00	6.75	54.12	6.24
37.75	8.94	41.87	8.06	46.00	7.34	50.12	6.73	54.25	6.22
37.87	8.91	42.00	8.04	46.12	7.32	50.25	6.72	54.37	6.21
38.00	8.88	42.12	8.01	46.25	7.30	50.37	6.70	54.50	6.19
38.12	8.85	42.25	7.99	46.37	7.28	50.50	6.68	54.62	6.18
38.25	8.82	42.37	7.97	46.50	7.26	50.62	6.67	54.75	6.16
38.37	8.80	42.50	7.94	46.62	7.24	50.75	6.65	54.87	6.15
38.50	8.77	42.62	7.92	46.75	7.22	50.87	6.63	55.00	6.14
38.62	8.74	42.75	7.89	46.87	7.20	51.00	6.62	55.50	6.08
38.75	8.71	42.87	7.87	47.00	7.18	51.12	6.60	56.00	6.03
38.87	8.68	43.00	7.85	47.12	7.16	51.25	6.59	56.50	5.97
39.00	8.65	43.12	7.83	47.25	7.14	51.37	6.57	57.00	5.92
39.12	8.63	43.25	7.80	47.37	7.12	51.50	6.55	57.50	5.87
39.25	8.60	43.37	7.78	47.50	7.11	51.62	6.54	58.00	5.82
39.37	8.57	43.50	7.76	47.62	7.09	51.75	6.52	58.50	5.77
39.50	8.54	43.62	7.74	47.75	7.07	51.87	6.51	59.00	5.72
39.62	8.52	43.75	7.71	47.87	7.05	52.00	6.49	59.50	5.67
39.75	8.49	43.87	7.69	48.00	7.03	52.12	6.48	60.00	5.63
39.87	8.47	44.00	7.67	48.12	7.01	52.25	6.46	61.00	5.53
40.00	8.44	44.12	7.65	48.25	6.99	52.37	6.44	62.00	5.44

VERTEX CONVERSION TABLE

Spectacle Lens Power	Vertex Distance / Millimeters — Plus Lenses								Minus Lenses							
	8	9	10	11	12	13	14	15	8	9	10	11	12	13	14	15
4.00	4.12	4.12	4.12	4.12	4.25	4.25	4.25	4.25	3.87	3.87	3.87	3.87	3.87	3.75	3.75	3.75
4.50	4.62	4.75	4.75	4.75	4.75	4.75	4.75	4.87	4.37	4.37	4.25	4.25	4.25	4.25	4.25	4.25
5.00	5.25	5.25	5.25	5.25	5.25	5.37	5.37	5.37	4.75	4.75	4.75	4.75	4.75	4.75	4.62	4.62
5.50	5.75	5.75	5.75	5.87	5.87	5.87	6.00	6.00	5.25	5.25	5.25	5.12	5.12	5.12	5.12	5.12
6.00	6.25	6.37	6.37	6.37	6.50	6.50	6.50	6.62	5.75	5.62	5.62	5.62	5.62	5.50	5.50	5.50
6.50	6.87	6.87	7.00	7.00	7.00	7.12	7.12	7.12	6.12	6.12	6.12	6.00	6.00	6.00	6.00	5.87
7.00	7.37	7.50	7.50	7.62	7.62	7.75	7.75	7.75	6.62	6.62	6.50	6.50	6.50	6.37	6.37	6.37
7.50	8.00	8.00	8.12	8.12	8.25	8.25	8.37	8.50	7.12	7.00	7.00	6.87	6.87	6.87	6.75	6.75
8.00	8.50	8.62	8.75	8.75	8.87	8.87	9.00	9.12	7.50	7.50	7.37	7.37	7.25	7.25	7.25	7.25
8.50	9.12	9.25	9.25	9.37	9.50	9.50	9.62	9.75	8.00	7.87	7.87	7.75	7.75	7.62	7.62	7.50
9.00	9.75	9.75	9.87	10.00	10.12	10.25	10.37	10.37	8.37	8.37	8.25	8.25	8.12	8.00	8.00	8.00
9.50	10.25	10.37	10.50	10.62	10.75	10.87	11.00	11.12	8.87	8.75	8.62	8.62	8.50	8.50	8.37	8.37
10.00	10.87	11.00	11.12	11.25	11.37	11.50	11.62	11.75	9.25	9.12	9.12	9.00	8.87	8.87	8.75	8.75
10.50	11.50	11.62	11.75	11.87	12.00	12.12	12.25	12.50	9.62	9.62	9.50	9.37	9.37	9.25	9.12	9.12
11.00	12.00	12.25	12.37	12.50	12.75	12.87	13.00	13.12	10.12	10.00	9.87	9.75	9.75	9.62	9.50	9.50
11.50	12.62	12.87	13.00	13.12	13.37	13.50	13.75	13.87	10.50	10.37	10.37	10.25	10.12	10.00	9.87	9.87
12.00	13.25	13.50	13.62	13.87	14.00	14.25	14.50	14.62	11.00	10.87	10.75	10.62	10.50	10.37	10.25	10.12
12.50	13.87	14.12	14.25	14.50	14.75	15.00	15.25	15.37	11.37	11.25	11.12	11.00	10.87	10.75	10.62	10.50
13.00	14.50	14.75	15.00	15.25	15.50	15.62	16.00	16.12	11.75	11.62	11.50	11.37	11.25	11.12	11.00	10.87
13.50	15.12	15.37	15.62	15.87	16.12	16.37	16.62	16.87	12.25	12.00	11.87	11.75	11.62	11.50	11.37	11.25
14.00	15.75	16.00	16.25	16.50	16.75	17.12	17.50	17.75	12.62	12.50	12.25	12.12	12.00	11.87	11.75	11.50
14.50	16.50	16.75	17.00	17.25	17.50	17.87	18.25	18.50	13.00	12.75	12.62	12.50	12.37	12.25	12.00	11.87
15.00	17.00	17.37	17.75	18.00	18.25	18.62	19.00	19.37	13.37	13.25	13.00	12.87	12.75	12.50	12.37	12.25
15.50	17.75	18.00	18.25	18.75	19.00	19.37	19.75	20.25	13.75	13.62	13.50	13.25	13.00	12.87	12.75	12.62
16.00	18.25	18.75	19.00	19.37	19.75	20.25	20.50	21.00	14.25	14.00	13.75	13.62	13.50	13.25	13.00	12.87
16.50	19.00	19.37	19.75	20.25	20.50	21.00	21.50	21.87	14.50	14.37	14.12	14.00	13.75	13.62	13.50	13.25
17.00	19.75	20.25	20.50	21.00	21.50	22.00	22.25	22.87	15.00	14.75	14.50	14.25	14.12	14.00	13.75	13.50
17.50	20.50	20.75	21.25	21.75	22.25	22.75	23.25	23.75	15.37	15.12	14.87	14.75	14.50	14.25	14.00	13.87
18.00	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.62	15.75	15.50	15.25	15.00	14.75	14.62	14.37	14.12
18.50	21.75	22.25	22.75	23.25	23.75	24.50	25.00	25.62	16.12	15.87	15.62	15.37	15.12	14.87	14.75	14.50
19.00	22.50	23.00	23.50	24.00	24.75	25.25	26.00	26.50	16.50	16.25	16.00	15.75	15.50	15.25	15.00	14.75