

CONVERSION CHART

DIOPTERS TO RADIUS OF CURVATURE IN MILLIMETERS

D.	R.	D.	R.	D.	R.	D.	R.
37.00 - 9.12		41.00 - 8.23		45.00 - 7.50		49.00 - 6.88	
37.12 - 9.09		41.12 - 8.20		45.12 - 7.48		49.12 - 6.87	
37.25 - 9.06		41.25 - 8.18		45.25 - 7.45		49.25 - 6.85	
37.37 - 9.03		41.37 - 8.15		45.37 - 7.43		49.37 - 6.83	
37.50 - 9.00		41.50 - 8.13		45.50 - 7.41		49.50 - 6.81	
37.62 - 8.97		41.62 - 8.10		45.62 - 7.39		49.62 - 6.80	
37.75 - 8.94		41.75 - 8.08		45.75 - 7.37		49.75 - 6.78	
37.87 - 8.91		41.87 - 8.06		45.87 - 7.35		49.87 - 6.76	
38.00 - 8.88		42.00 - 8.03		46.00 - 7.33		50.00 - 6.75	
38.12 - 8.85		42.12 - 8.01		46.12 - 7.31		50.12 - 6.73	
38.25 - 8.82		42.25 - 7.98		46.25 - 7.29		50.25 - 6.71	
38.37 - 8.79		42.37 - 7.96		46.37 - 7.27		50.37 - 6.70	
38.50 - 8.76		42.50 - 7.94		46.50 - 7.25		50.50 - 6.68	
38.62 - 8.73		42.62 - 7.91		46.62 - 7.23		50.62 - 6.66	
38.75 - 8.70		42.75 - 7.89		46.75 - 7.21		50.75 - 6.65	
38.87 - 8.68		42.87 - 7.87		46.87 - 7.20		50.87 - 6.63	
39.00 - 8.65		43.00 - 7.84		47.00 - 7.18		51.00 - 6.61	
39.12 - 8.62		43.12 - 7.82		47.12 - 7.16		51.12 - 6.60	
39.25 - 8.59		43.25 - 7.80		47.25 - 7.14		51.25 - 6.58	
39.37 - 8.57		43.37 - 7.78		47.37 - 7.12		51.37 - 6.56	
39.50 - 8.54		43.50 - 7.75		47.50 - 7.10		51.50 - 6.55	
39.62 - 8.51		43.62 - 7.73		47.62 - 7.08		51.62 - 6.53	
39.75 - 8.49		43.75 - 7.71		47.75 - 7.06		51.75 - 6.52	
39.87 - 8.45		43.87 - 7.69		47.87 - 7.05		51.87 - 6.50	
40.00 - 8.43		44.00 - 7.67		48.00 - 7.03		52.00 - 6.49	
40.12 - 8.41		44.12 - 7.64		48.12 - 7.01		52.12 - 6.47	
40.25 - 8.38		44.25 - 7.62		48.25 - 6.99		52.25 - 6.46	
40.37 - 8.36		44.37 - 7.60		48.37 - 6.97		52.37 - 6.44	
40.50 - 8.33		44.50 - 7.58		48.50 - 6.95		52.50 - 6.42	
40.62 - 8.30		44.62 - 7.56		48.62 - 6.94		52.62 - 6.41	
40.75 - 8.28		44.75 - 7.54		48.75 - 6.92		52.75 - 6.39	
40.87 - 8.25		44.87 - 7.52		48.87 - 6.90		52.87 - 6.38	

MINUS

Left - Right

-	+	-	+
4.25=4.00		6.87=6.37	
4.50=4.25		7.00=6.50	
4.75=4.50		7.12=6.62	
5.00=4.75		7.37=6.75	
5.12=4.87		7.50=6.87	
5.37=5.00		7.62=7.00	
5.50=5.12		7.87=7.25	
5.62=5.25		8.00=7.37	
5.75=5.37		8.12=7.50	
5.87=5.50		8.25=7.62	
6.00=5.62		8.50=7.75	
6.12=5.75		8.75=8.00	
6.37=5.87		9.00=8.25	
6.50=6.00		9.25=8.37	
6.62=6.12		9.50=8.62	
6.75=6.25		9.75=8.75	

PLUS

Right - Left

-	+	-	+
10.00=9.00		14.25=12.25	
10.25=9.12		14.75=12.50	
10.50=9.25		15.00=12.75	
10.75=9.37		15.50=13.00	
11.00=9.62		15.75=13.25	
11.25=9.75		16.25=13.50	
11.50=10.00		16.75=13.75	
11.75=10.25		17.00=14.00	
12.00=10.37		17.25=14.25	
12.25=10.50		17.62=14.37	
12.50=10.75		18.00=14.50	
12.75=11.00		18.12=14.75	
13.00=11.25		18.50=15.00	
13.50=11.50		18.75=15.25	
13.75=11.75			
14.00=12.00			

GP EMPIRICAL FITTING CHART.

BASE CURVE	OPTIC ZONE DIAMETER	DIAMETER
7.10	7.6	9.0
7.20	7.6	9.0
7.30	7.6	9.0
7.40	7.7	9.1
7.50	7.7	9.1
7.60	7.8	9.2
7.70	7.9	9.3
7.80	7.9	9.3
7.90	8.0	9.4
8.00	8.1	9.5
8.10	8.1	9.5
8.20	8.1	9.5
8.30	8.2	9.6
8.40	8.2	9.6
8.50	8.3	9.7
8.60	8.4	9.8

K's spherical to 1.00D corneal cylinder, fit on flat K.

K's 1.25D to 1.75D corneal cylinder, fit .25 steeper than flat K.

K's 1.75D to 2.00D corneal cylinder, fit .50 steeper than flat K.

K's 2.50D or more corneal cylinder, fit .75 or more steeper than flat K.

K's exceeding 2.50D corneal cylinder, consider toric design.

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