

diameter (mm)	nominal convex curve (D)	power range at main meridian (D)	actual convex curve (N = 1,53) (D)	radius of curvature R1 (mm)	sagitta depth gauge 50 mm bell (mm)	nominal concave curve (N = 1,53) (D)	center thickness (mm)	edge thickness (mm)
70	0,50 EX	-8,25 to -10,00	0,465	1.140,89	0,274	8,31	5,5	15,2
70	0,50	-7,25 to -8,00	0,465	1.140,89	0,274	7,06	3,3	11,3
80	1,00	-6,25 to -7,00	0,817	684,43	0,482	6,90	2,8	12,6
80	2,00	-4,25 to -6,00	1,614	328,36	0,953	6,90	4,0	12,6
80	3,00	-2,25 to -4,00	2,398	221,00	1,419	6,90	5,3	12,6
80	4,00	0,00 to -2,00	3,282	161,48	1,947	6,42	4,5	9,7
75	5,00	+0,25 to +1,00	3,567	148,59	2,118	4,80	6,4	8,0
70	6,00	+1,25 to +2,50	4,355	121,70	2,595	6,42	5,3	7,8
70	7,00	+2,75 to +4,00	5,246	101,03	3,142	6,42	6,4	7,8
65	8,00	+4,25 to +6,00	5,882	90,11	3,537	4,80	7,7	6,5
65	10,00	+6,25 to +9,00	8,150	65,03	8,704	4,80	10,2	6,5
65	12,00	+9,25 to + 11,00	9,700	54,63	6,055	6,20	10,7	6,5
60	14,00	+11,25 to +14,00	11,260	47,07	7,189	6,20	11,5	6,0

EX = extra thick

diameter (mm)	nominal convex curve (D)	power range at main meridian (D)	actual convex curve (N = 1,53) (D)	radius of curvature RI (mm)	sagitta depth gauge 50 mm bell (mm)	nominal concave curve (N = 1,53) (D)	center thickness (mm)	edge thickness (mm)
70	0,50 EX	-10,25 to -15,00	0,395	1.341,44	0,34	8,231	11,7	21,4
70	0,50	-6,25 to -10,00	0,395	1.341,44	0,34	6,625	8,0	15,0
80	0,50	-6,25 to -10,00	0,401	1.322,71	0,27	6,857	7,0	17,0
80	1,00	-4,25 to -6,00	0,867	611,11	0,53	6,857	5,7	15,0
80	2,00	-2,25 to -4,00	1,867	283,86	1,13	6,857	4,7	12,6
80	3,00	0,00 to -2,00	2,473	214,29	1,45	4,780	6,9	10,4
75	3,50	+0,25 to +2,00	3,203	165,46	1,92	4,780	5,8	8,0
70	4,00	+2,25 to +3,00	3,816	138,86	2,25	4,780	6,5	7,7
70	5,00	+3,25 to +4,00	4,809	110,20	2,79	4,780	7,6	7,7
70	6,00	+4,25 to +5,00	5,686	93,21	3,40	4,780	8,8	7,7
70	7,00	+5,25 to +6,00	6,920	76,59	4,04	4,780	10,1	7,7
70	8,00	+6,25 to +8,00	7,496	70,70	4,48	4,780	10,9	7,7
70	9,00	+8,25 to +10,00	8,837	59,97	5,33	4,780	12,4	7,7
65	10,00	+10,25 to +13,00	11,175	47,43	6,53	6,300	11,1	6,3

EX = extra thick

hyper index 167 (MR10) spherical (regular) blank data sheet

A remarkably thin step closer to natural sight

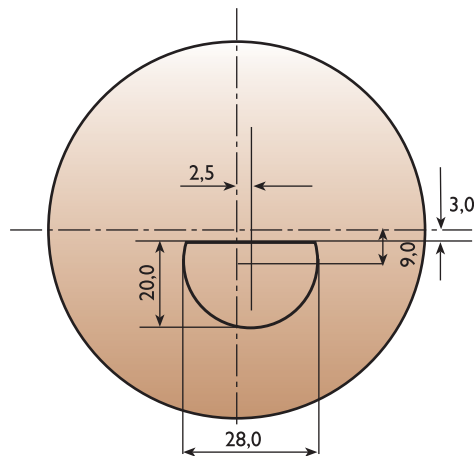
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diameter (mm)	nominal convex curve (D)	power range at main meridian (D)	actual convex curve (N = 1,53) (D)	radius of curvature RI (mm)	sagitta depth gauge 50 mm bell (mm)	nominal concave curve (N = 1,53) (D)	center thickness (mm)	edge thickness (mm)
70	1,50	-7,00 to -12,00	1,49	352,35	0,888	8,25	6,2	14,9
75	2,00	-5,00 to -6,75	1,97	266,50	1,175	6,60	4,5	11,2
75	2,50	-3,00 to -4,75	2,43	216,05	1,451	6,60	5,2	11,3
75	3,00	-1,00 to -2,75	2,96	177,36	1,771	6,60	2,7	8,1
75	3,50	-0,75 to +3,25	3,45	152,17	2,068	6,60	5,7	10,4
75	4,50	+4,50 to +5,00	4,47	117,45	2,692	6,60	6,7	9,9
75	5,50	+6,00 to +6,50	5,44	96,51	3,294	6,60	8,7	10,5
75	6,50	+7,25 to +7,75	6,45	81,40	3,934	6,60	9,2	9,4
70	7,50	+8,75 to +9,50	7,43	70,66	4,570	6,60	10,9	9,7
65	8,50	+10,25 to +10,75	8,45	62,13	5,252	6,60	10,9	8,7
65	9,50	+11,75 to +12,00	9,47	55,44	5,957	6,60	12,3	8,7
65	10,50	+12,25 to +12,50	10,43	50,34	6,647	6,60	13,8	8,8
65	11,50	+12,75 to +13,50	11,47	45,77	7,431	6,60	15,4	8,8

diameter (mm)	nominal front curve (D)	power range (D)	actual front curve (N = 1,53) (D)	sagitta depth gauge 50 mm bell (mm)	actual back curve (N = 1,53) (D)	center thickness (mm)	edge thickness (mm)
75	2,00	-10,00 to -16,00	1,41	0,526	5,5	12,0	20,0
75	4,00	-12,00 to -18,00	3,02	1,460	2,0	18,5	24,4
72	6,00	-14,00 to -20,00	4,63	2,445	4,5	13,0	24,2

diameter (mm)	nominal convex curve (D)	power range at main meridian (D)	actual convex curve (N = 1,53) (D)	radius of curvature RI (mm)	sagitta depth gauge 50 mm bell (mm)	nominal concave curve (N = 1,53) (D)	center thickness (mm)	edge thickness (mm)	add. powers in 0,25 D steps (D)
75	1,00 EX	-15,00 to - 10,25	0,814	650,980	0,69	9,30	13,00	25,0	1,00 to 3,00
75	1,00	-10,00 to - 6,25	0,814	650,980	0,69	7,98	4,8	15,0	1,00 to 3,00
75	2,50	-6,00 to -1,75	1,982	267,418	1,31	6,86	5,0	12,0	1,00 to 3,00
75	4,00	-1,75 to +1,50	3,208	165,215	1,90	6,40	5,0	10,0	1,00 to 3,00
75	5,50	+1,75 to +3,75	4,365	121,434	2,50	4,78	7,0	8,0	1,00 to 3,00
70	7,00	+4,00 to +6,00	5,692	93,115	3,26	4,78	8,0	7,5	1,00 to 3,00

SEGMENT LOCATION for 167/32 Semifinished aspheric bifocal Flat top D28 lens



hyper index 167

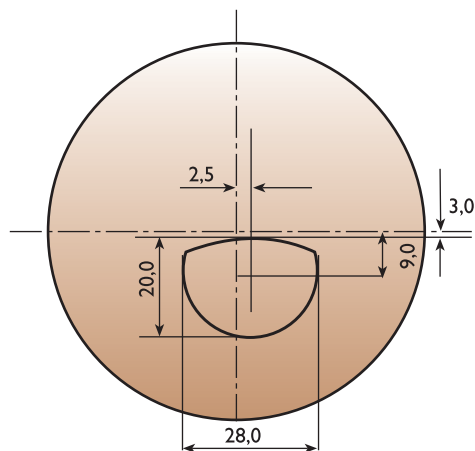
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aspheric bifocal curve top C28 data sheet

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diameter (mm)	nominal convex curve (D)	power range at main meridian (D)	actual convex curve (N = 1,53) (D)	radius of curvature RI (mm)	sagitta depth gauge 50 mm bell (mm)	nominal concave curve (N = 1,53) (D)	center thickness (mm)	edge thickness (mm)	add. powers in 0,25 D steps (D)
75	2,50	-8,00 to -1,75	1,982	267,418	1,31	7,98	5,8	14,5	1,00 to 4,50
75	4,00	-1,50 to +1,50	3,208	165,215	1,90	6,40	5,0	10,0	1,00 to 4,50
75	5,50	+1,75 to +3,75	4,365	121,434	2,50	4,78	7,0	8,0	1,00 to 4,50
70	7,00	+4,00 to +6,00	5,692	93,115	3,26	4,78	8,0	7,5	1,00 to 4,50

SEGMENT LOCATION for I67/32 Semifinished aspheric bifocal Curve top C28 lens



diameter (mm)	nominal convex curve (D)	power range (D)	actual convex curve (N = 1,53) (D)	sagitta depth gauge 50 mm bell (mm)	nominal concave curve (N = 1,53) (D)	center thickness (mm)	edge thickness (mm)	add. powers in 0,25 D steps (D)
70 / 75	1,50	-15,00 to -10,25	1,20	0,71	9,30	16,0	26,5	0,75 to 3,50
75 / 80	2,50	-10,00 to -6,25	2,00	1,18	9,30	9,0	20,3	0,75 to 3,50
75 / 80	3,80	-6,00 to -4,25	2,95	1,75	8,49	4,0	12,4	0,75 to 3,50
75 / 80	4,80	-4,00 to +2,00	3,99	2,37	7,98	5,7	11,7	0,75 to 3,50
75 / 80	6,40	+2,25 to +4,00	5,11	3,06	5,81	8,3	8,9	0,75 to 3,50
75 / 80	8,00	+4,25 to +6,00	6,46	3,91	5,81	10,7	8,9	0,75 to 3,50

diameter (mm)	nominal convex curve (D)	power range (D)	actual convex curve (N = 1,53) (D)	sagitta depth gauge 50 mm bell (mm)	nominal concave curve (N = 1,53) (D)	center thickness (mm)	edge thickness (mm)	add. powers in 0,25 steps (mm)
70	1,5	-12.00 to -10.25	1,20	0,71	9,30	9,7	20,3	0,75 to 3,50
75	2,5 N	-10.00 to -6.25	2,00	1,18	7,98	6,1	15,0	0,75 to 3,50
75	2,5	-10.00 to -6.25	2,00	1,18	9,30	9,0	20,3	0,75 to 3,50
75	3,8	-6.00 to -4.25	2,95	1,75	8,49	4,0	12,4	0,75 to 3,50
75	4,8	-4.00 to +2.00	3,99	2,37	7,98	5,7	11,7	0,75 to 3,50
75	6,4	+2.25 to +4.00	5,11	3,06	5,81	8,3	8,9	0,75 to 3,50
75	8,0	+4.25 to +6.00	6,46	3,91	5,81	10,7	8,9	0,75 to 3,50

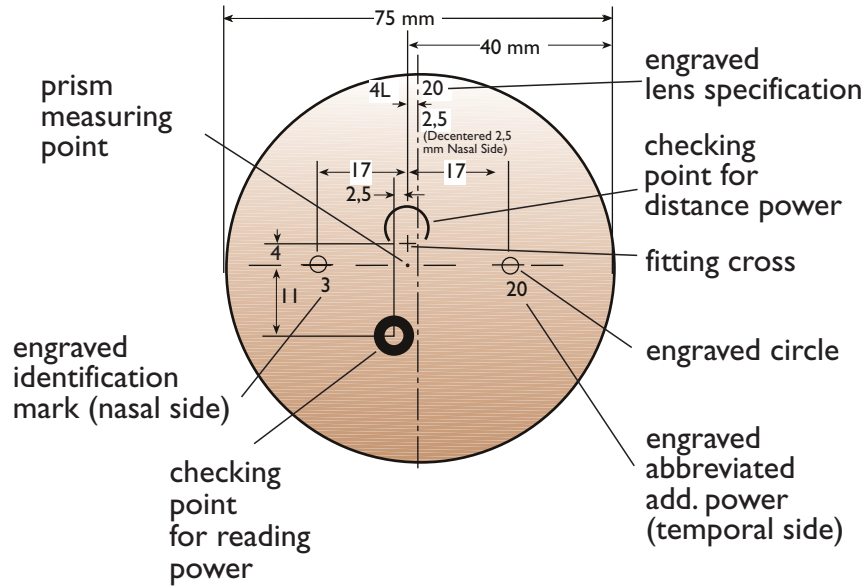
hyper index 167

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aspheric progressive (short corridor) lens

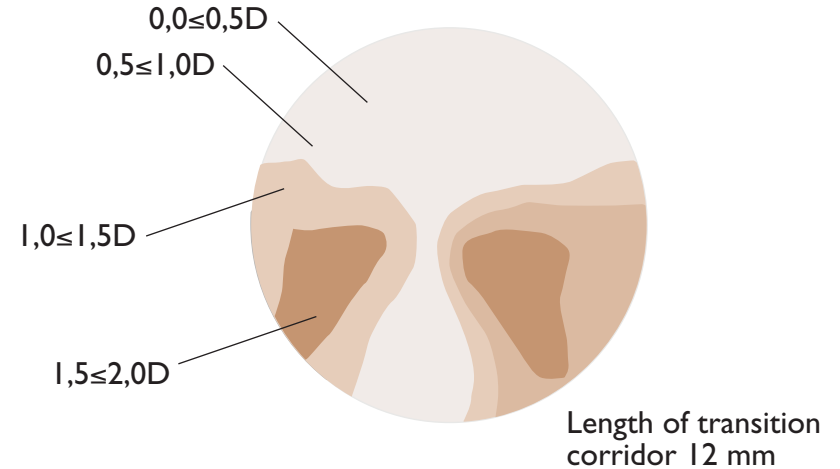
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Identification markings



Distribution of surface astigmatism

Left lens base: +4,80D Add: +2,00D



hyper index 167 BICLEAR semi finished blank data sheet

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diameter (mm)	nominal convex curve (D)	expression	power range at main meridian (D)	actual convex curve (N = 1,53) (D)	radius of curvature (mm)	sagitta depth gauge 50 mm bell (mm)	nominal concave curve (N = 1,53) (D)	center thickness (mm)	edge thickness (mm)
79	3,00	X3 100	-4,25 to -8,00	3,00	176,72	1,78	7,8	7,0	14,4
79	5,00	X5 100	+1,00 to -4,00	4,55	116,39	2,72	6,4	9,2	9,6
79	8,00	X8 100	+1,25 to +3,00	6,24	84,97	3,76	6,4	11,9	9,8

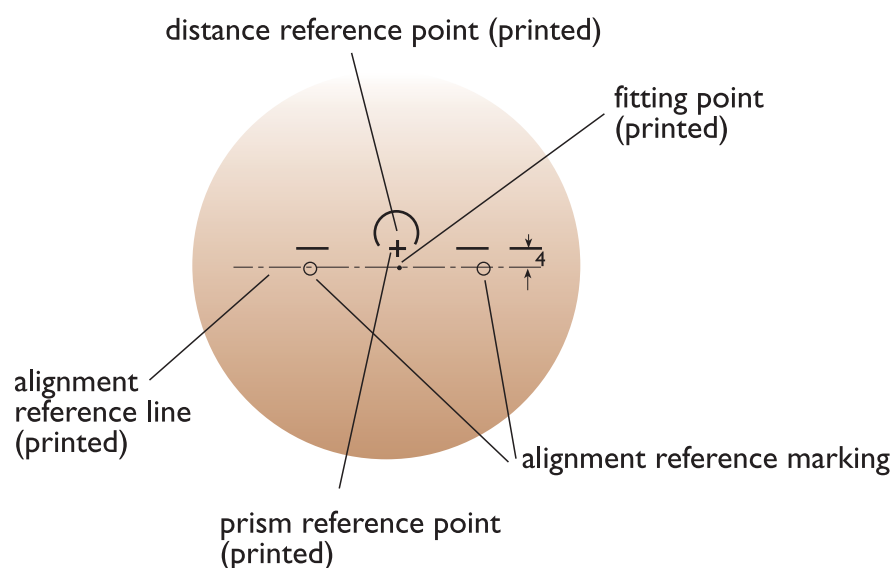
General addition: 1.00 D

Eyestrains are caused by the active work of the ciliary muscle. Especially when using near vision for a long time, there is tension of the ciliary muscle, which is the main reason for eyestrains. This product is a classified progressive lens, but there is no definite difference between far sight and near sight like typical progressive lenses.

The difference between normal progressive lens and Bicular lens is that the Bicular uses the intermediate zone for near sight and not the near zone like normal progressive lenses. The corridor length of Bicular lens is 19 mm which is longer than normal progressive lens. Its design is based on maximized distance power to provide stable far sight by means of aspheric design and it provides natural near sight by reducing the power slightly.

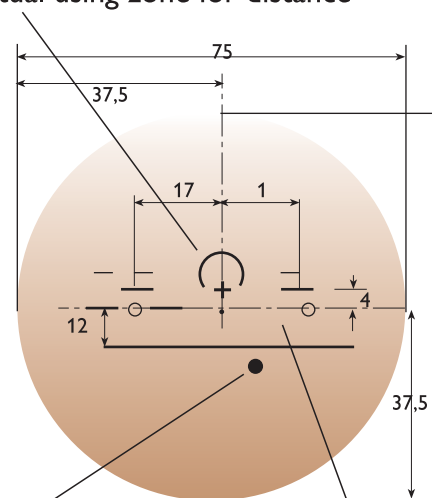
The Bicular lens is especially recommended for the age group 20 to 40 who use the near vision for a long time during PC work or reading.

Bicular Lens



Distance Zone

- aspheric design
- actual using zone for distance



Near Zone

- maximum add is + 1.00 on ●
- different to PAL lens it is not necessary to use this zone for near sight

Intermediate Zone

- average Add + 0.75
- actual using zone for near

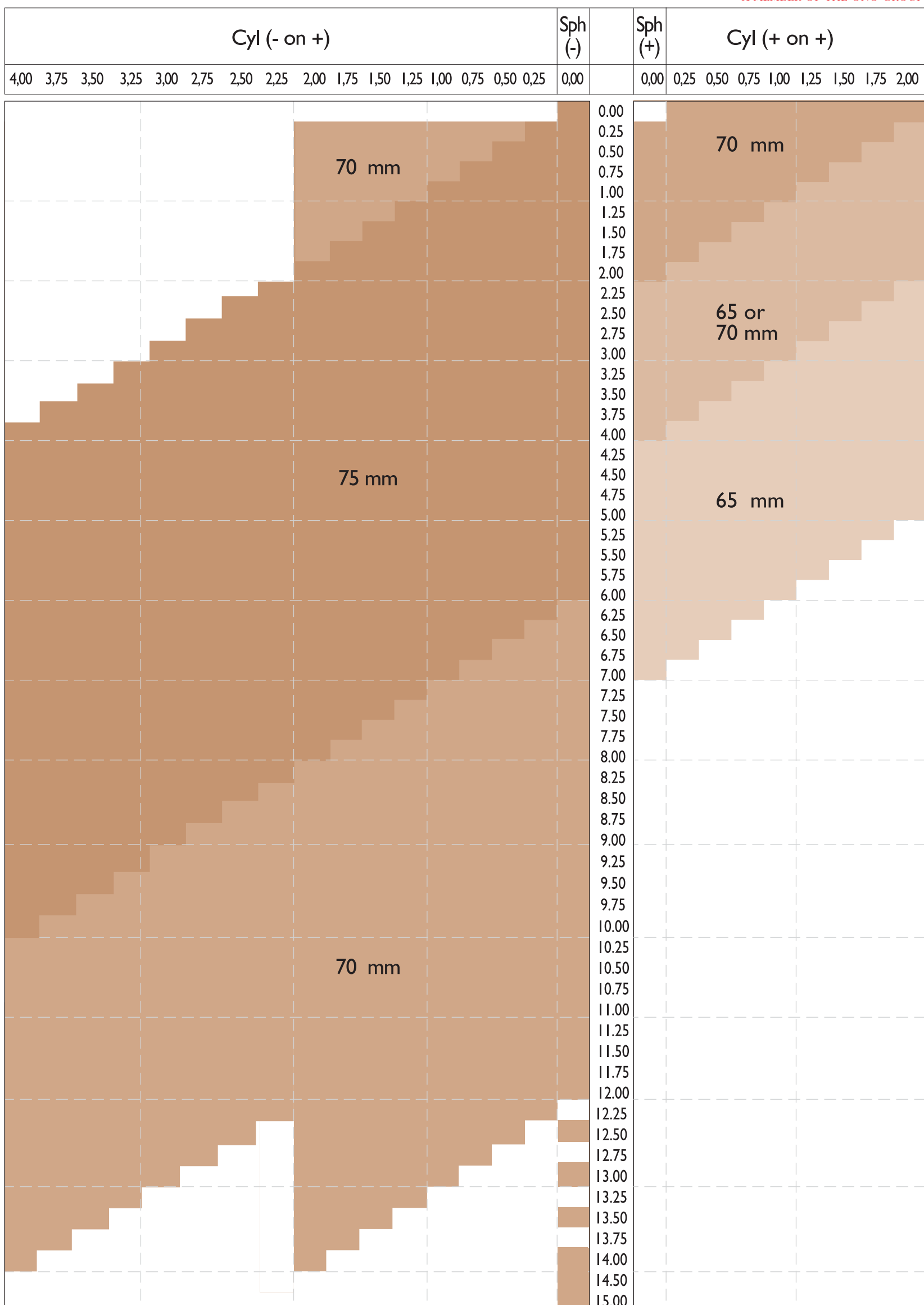
- is measurement point for near sight
- not necessary to locate within a frame
- inset 2.5 mm
- 19 mm below from eyepoint

hyper index 167 finished aspheric single vision lens

A remarkably thin step closer to natural sight

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Cyl (- on +)															Sph (-)		Sph (+)	Cyl (+ on +)									
4,00	3,75	3,50	3,25	3,00	2,75	2,50	2,25	2,00	1,75	1,50	1,25	1,00	0,75	0,50	0,25	0,00		0,00	0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	

