

**MEDICENTUR**

Material. Design. Optics.



IOL Portfolio

# Constants table

Product Codes	Nominal	SRK/T Constant A	Haigis (a1)	Haigis (a2)	Hoffer Q	Holladay I	Holladay II (ACD)**	Holladay II SF**	Barrett Universal II (Lens Factor)**	
<b>Bi-Flex HB</b>	877FAB(Y)	118.9	118.90	0.400	0.100	5.460	1.700	5.490	1.73	1.83
<b>Bi-Flex POB-MA</b>	877PA(Y)	118.9	118.90	0.400	0.100	5.460	1.700	5.490	1.73	1.83
<b>Bi-Flex HL</b>	677AB(Y)	118.0	118.10	0.255	0.141	5.010	1.250	5.020	1.28	1.41
<b>Bi-Flex PIL-MA</b>	677P(Y)	118.9	118.83*	0.192*	0.173*	5.431*	1.682*	5.450	1.69	1.79
<b>Bi-Flex T</b>	677TA(Y)	118.9	118.83*	0.192*	0.173*	5.431*	1.682*	5.450	1.69	1.79
<b>Liberty</b>	677(P)MY	118.9	118.83*	0.192*	0.173*	5.431*	1.682*	5.450	1.69	1.79
<b>Liberty Toric</b>	677MTY	118.9	118.83*	0.192*	0.173*	5.431*	1.682*	5.450	1.69	1.79
<b>Q-Flex</b>	640AB(Y)	118.0	118.10	0.427	0.200	5.020	1.250	5.020	1.28	1.41
<b>Q-Flex PIL-MA</b>	640P(Y)	118.9	118.90	0.400	0.100	5.460	1.670	5.490	1.73	1.83
<b>Q-Flex Trifocal</b>	640MY	118.9	118.90	0.400	0.100	5.460	1.670	5.490	1.73	1.83

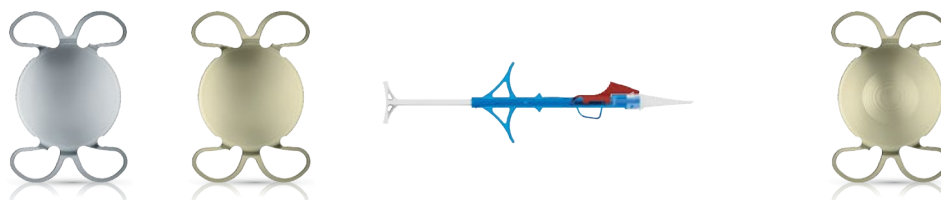
\* Optimized IOL constants: n=350, date: 2018.

\*\* Barrett Universal II and Holladay II constants were calculated with [https://www.apacrs.org/barrett\\_universal2/](https://www.apacrs.org/barrett_universal2/) and <http://www.hicsoap.com> online calculators.

Note: It is recommended that surgeons personalize the constants they use based on their techniques, equipment and post-operative results.

Monofocal				Trifocal
Q-Flex		Q-Flex PIL-MA		Q-Flex Trifocal
640AB	640ABY	640P	640PY	640MY

<b>Type</b>	Single-piece monofocal aspheric hydrophilic IOLs, clear and yellow, for implantation into the capsular bag		Single-piece monofocal aspheric hydrophilic IOLs, clear and yellow, preloaded for a single use injector		Single-piece, yellow tinted, trifocal aspheric hydrophilic IOLs for implantation into the capsular bag
<b>Material</b>	Copolymer of hydrophobic and hydrophilic monomers, 25% water content with UV absorber	+ blue light filter	Copolymer of hydrophobic and hydrophilic monomers, 25% water content with UV Absorber	+ blue light filter	Copolymer of hydrophobic and hydrophilic monomers, 25% water content with UV Absorber + blue light filter
<b>Optic design</b>	Biconvex		Biconvex		Biconvex
<b>Powers available</b>	0.0D -> +9.0D (1.0 D steps) +10.0 D -> +30.0 D · (0.5 D steps) +31.0 D > +35.0 D · (1.0 D steps)		0.0 D > +30.0 D · (0.5 D steps) +31.0 D > +35.0 D · (1.0 D steps)		0.0 D > +35.0 D (steps: 0.5 D)
<b>Diffractive zone</b>	-		-		Anterior surface (diameter 3.0 mm)
<b>Cylinders available</b>	-		-		-
<b>Addition</b>	-		-		+3.5 D
<b>Dimensions</b> overall length and optic diameter	0.0 D > +15.0 D: 11.0 mm +15.5 D > +22.0 D: 10.7 mm +22.5 D > +35.0 D: 10.5 mm optic Ø 6.0 mm		0.0 D > +15.0 D: 11.0 mm +15.5 D > +22.0 D: 10.7 mm +22.5 D > +35.0 D: 10.5 mm optic Ø 6.0 mm		0.0 D > +15.0 D: 11.0 mm +15.5 D > +22.0 D: 10.7 mm +22.5 D > +35.0 D: 10.5 mm optic Ø 6.0 mm
<b>PCO protection</b>	360° Special Square Edge (patented)		360° Special Square Edge (patented)		360° Special Square Edge (patented)
<b>Haptic angulation</b>	0° - 4 closed loops with posterior vaulting		0° - 4 closed loops		0° - 4 closed loops
<b>Sterilization</b>	Steam (shelf life 5 years after sterilization)		Steam (shelf life 3 years after sterilization)		Steam (shelf life 5 years after sterilization)
<b>Storage conditions</b>	+15 - +35°C (15% - 50%)		+15 - +35°C (15% - 50%)		+15 - +35°C (15% - 50%)



Monofocal					
Bi-Flex HB		Bi-Flex POB-MA		Bi-Flex HL	
877FAB	877FABY	877PA	877PAY	677AB	677ABY
<b>Type</b>		Single-piece monofocal aspheric hydrophobic IOLs, clear and yellow, for implantation into the capsular bag		Single-piece monofocal aspheric hydrophilic IOLs, clear and yellow, for implantation into the capsular bag	
<b>Material</b>		Hydrophobic acrylic with UV absorber	+ blue light filter	Hydrophobic acrylic with UV absorber	+ blue light filter
<b>Optic design</b>		Biconvex		Convex-Concave (-10.0 D-> -1.0 D ) Biconvex (0.0 D -> 35.0 D)	
<b>Powers available</b>		0.0 D -> +9.0 D (1.0 D steps) +10.0 D -> +30.0 D · (0.5 D steps) +31.0 D -> +35.0 D · (1.0 D steps)		-10.0 D -> +9.0 D (1.0 D steps) +10.0 D -> +30.0 D · (0.5 D steps) +31.0 D -> +35.0 D · (1.0 D steps)	
<b>Diffractive zone</b>		-		-	
<b>Cylinders available</b>		-		-	
<b>Addition</b>		-		-	
<b>Dimensions</b> overall length and optic diameter		overall length 13.0 mm optic Ø 6.0 mm		overall length 13.0 mm optic Ø 6.0 mm	
<b>PCO protection</b>		360° Special Square Edge (patented)		360° Special Square Edge (patented)	
<b>Haptic angulation</b>		0° - posterior vaulting fenestrated C-loop		0° - posterior vaulting fenestrated C-loop	
<b>Sterilization</b>		Steam (shelf life 5 years after sterilization)		Steam (shelf life 5 years after sterilization)	
<b>Storage conditions</b>		+15 - +35°C (15% - 50%)		+15 - +35°C (15% - 50%)	



		Monofocal Toric		Trifocal		Trifocal Toric
Bi-Flex PIL-MA		Bi-Flex T		Liberty	Liberty PIL-MA	Liberty Toric
677P	677PY	677TA	677TAY	677MY	677PMY	677MTY
Single-piece monofocal aspheric hydrophilic IOLs, clear and yellow, preloaded for a single use injector		Single-piece monofocal aspheric hydrophilic toric IOLs, clear and yellow, for implantation into the capsular bag		Single-piece, yellow tinted, trifocal aspheric hydrophilic IOLs for implantation into the capsular bag	Single-piece, yellow tinted, trifocal aspheric hydrophilic IOLs preloaded for a single use injector	Single-piece, yellow tinted, trifocal toric aspheric hydrophilic IOLs for implantation into the capsular bag
Copolymer of hydrophobic and hydrophilic monomers, 25% water content with UV Absorber	+ blue light filter	Copolymer of hydrophobic and hydrophilic monomers, 25% water content with UV Absorber	+ blue light filter	Copolymer of hydrophobic and hydrophilic monomers, 25% water content with UV Absorber + blue light filter	Copolymer of hydrophobic and hydrophilic monomers, 25% water content with UV Absorber + blue light filter	Copolymer of hydrophobic and hydrophilic monomers, 25% water content with UV Absorber + blue light filter
Convex-Concave (-10.0 D -> -1.0 D ) Biconvex (0.0 D -> 35.0 D)		Convex-Concave (-10.0 D -> +5.5 D ) Biconvex (6.0 D -> 35.0 D)		Biconvex	Biconvex	Biconvex
-10.0D -> -1.0D (1.0 D steps) 0.0 D -> +30.0 D · (0.5 D steps) +31.0 D -> +35.0 D · (1.0 D steps)		-10.0D -> -1.0D (1.0 D steps) 0.0 D -> +30.0 D · (0.5 D steps) +31.0 D -> +35.0 D · (1.0 D steps)		0.0 D > +35.0 D (0.5 D steps)	0.0 D > +35.0 D (0.5 D steps)	+5.0 D > +35.0 D (0.5 D steps)
-		-		Anterior surface (diameter 3.0 mm)	Anterior surface (diameter 3.0 mm)	Anterior surface (diameter 3.0 mm)
-		1.0 D; 1.5 D -> 9.0 D (0.75 D steps); 10.0 D		-	-	+1.0 D -> +4.5 D (0.5 D steps) +5.25 D -> +6.0 D (0.75 D steps)* * only above +10.0 D SEQ
-		-		+3.5 D	+3.5 D	+3.5 D
overall length 13.0 mm optic Ø 6.0 mm		overall length 13.0 mm optic Ø 6.0 mm		overall length 13.0 mm optic Ø 6.0 mm	overall length 13.0 mm optic Ø 6.0 mm	overall length 13.0 mm optic Ø 6.0 mm
360° Special Square Edge (patented)		360° Special Square Edge (patented)		360° Special Square Edge (patented)	360° Special Square Edge (patented)	360° Special Square Edge (patented)
0° - posterior vaulting fenestrated C-loop		0° - posterior vaulting fenestrated C-loop		0° - posterior vaulting fenestrated C-loop	0° - posterior vaulting fenestrated C-loop	0° - posterior vaulting fenestrated C-loop
Steam (shelf life 3 years after sterilization)		Steam (shelf life 5 years after sterilization)		Steam (shelf life 5 years after sterilization)	Steam (shelf life 3 years after sterilization)	Steam (shelf life 5 years after sterilization)
+15 - +35°C (15% - 50%)		+15 - +35°C (15% - 50%)		+15 - +35°C (15% - 50%)	+15 - +35°C (15% - 50%)	+15 - +35°C (15% - 50%)



1stQ AddOn				SML
Refractive	Toric	Trifocal	Trifocal Toric	
A46R	A45RT	A45RD2	A45DT	A45SML
<b>Type</b>	Single-piece intraocular lens for implantation into the ciliary sulcus in addition to the primary IOL in the patient's pseudophakic eye		Single-piece intraocular lens for implantation into the ciliary sulcus in addition to the primary IOL in the patient's pseudophakic eye	Single-piece intraocular lens for implantation into the ciliary sulcus in addition to the primary IOL in the patient's pseudophakic eye
<b>Material</b>	Copolymer of hydrophobic and hydrophilic monomers, 25% water content with UV absorber		Copolymer of hydrophobic and hydrophilic monomers, 25% water content with UV absorber	Copolymer of hydrophobic and hydrophilic monomers, 25% water content with UV absorber
<b>Optic design</b>	Convex-Concave		Convex-Concave	Special convex-concave bifocal optic for AMD visual correction
<b>Powers available</b>	-10.0 D -> +10.0 D (0.25 D steps)		-7.0 D -> -0.5 D (0.25 D steps) 0.0 D +0.5 D -> +6.0 D (0.25 steps)	-3.0 D -> +3.0 D (0.5 D steps) 0.0 D
<b>Diffractive zone</b>	-		Anterior surface (diameter 3.0 mm)	
<b>Cylinders available</b>	-	1.0 D; 1.5 D -> 9.0 D (0.75 D increment); 10.0 D; 11.0 D*	-	+1.0 D -> +4.5 D (0.5 D steps)
<b>Addition</b>	-		+3.5 D	+10.0 D
<b>Dimensions</b> overall length and optic diameter	overall length 13.0 mm optic Ø 6.0 mm		overall length 13.0 mm optic Ø 6.0 mm	overall length 13.0 mm optic Ø 6.0 mm
<b>PCO protection</b>	-		-	-
<b>Haptic angulation</b>	0° - 4 closed loops, straight		0° - 4 closed loops, straight	0° - 4 closed loops, straight
<b>Sterilization</b>	Steam		Steam	Steam
<b>Storage conditions</b>	+15 - +35°C (15% - 50%)		+15 - +35°C (15% - 50%)	+15 - +35°C (15% - 50%)

\* only in SEQ range: -3.0 D - +8.0 D)





Focusing on patients'  
vision since 1989.

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