MEDICNTUR

Material. Design. Optics.

IOL Portfolio

Constants table

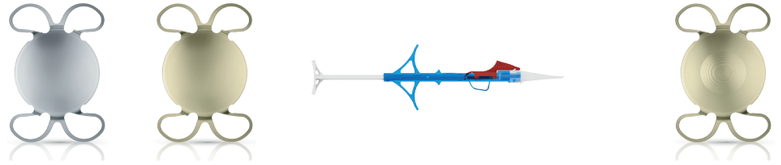
	Product Codes	Nominal	SRK/T Constant A	Haigis (a_0)	Haigis (a_1)	Haigis (a_2)	Hoffer Q	Holladay I	Holladay II (ACD)**	Holladay II SF**	Barrett Universal II (Lens Factor)**
Bi-Flex HB	877FAB(Y)	118.9	118.90	1.320	0.400	0.100	5.460	1.700	5.490	1.73	1.83
Bi-Flex POB-MA	877PA(Y)	118.9	118.90	1.320	0.400	0.100	5.460	1.700	5.490	1.73	1.83
Bi-Flex HL	677AB(Y)	118.0	118.10	0.325	0.255	0.141	5.010	1.250	5.020	1.28	1.41
Bi-Flex PIL-MA	677P(Y)	118.9	118.83*	0.190	0.192*	0.173*	5.431*	1.682*	5.450	1.69	1.79
Bi-Flex T	677TA(Y)	118.9	118.83*	0.190	0.192*	0.173*	5.431*	1.682*	5.450	1.69	1.79
Liberty	677(P)MY	118.9	118.83*	0.190	0.192*	0.173*	5.431*	1.682*	5.450	1.69	1.79
Liberty Toric	677MTY	118.9	118.83*	0.190	0.192*	0.173*	5.431*	1.682*	5.450	1.69	1.79
Q-Flex	640AB(Y)	118.0	118.10	0.278	0.427	0.200	5.020	1.250	5.020	1.28	1.41
Q-Flex PIL-MA	640P(Y)	118.9	118.90	1.243	0.400	0.100	5.460	1.670	5.490	1.73	1.83
Q-Flex Trifocal	640MY	118.9	118.90	1.243	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/ 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.

Q | FLEX

	Monofocal				Trifocal
	Q-Flex		Q-Flex PIL-MA		Q-Flex Trifocal
	640AB	640ABY	640P	640PY	640MY
Type	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
Material	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
Optic design	Biconvex		Biconvex		Biconvex
Powers available	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)
Diffractive zone	-		-		Anterior surface (diameter 3.0 mm)
Cylinders available	-		-		-
Addition	-		-		+3.5 D
Dimensions 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
PCO protection	360° Special Square Edge (patented)		360° Special Square Edge (patented)		360° Special Square Edge (patented)
Haptic angulation	0° - 4 closed loops with posterior vaulting		0° - 4 closed loops		0° - 4 closed loops
Sterilization	Steam (shelf life 5 years after sterilization)		Steam (shelf life 3 years after sterilization)		Steam (shelf life 5 years after sterilization)
Storage conditions	+15 - +35°C (15% - 50%)		+15 - +35°C (15% - 50%)		+15 - +35°C (15% - 50%)



3! | FLEX

LIBERTY®

	Monofocal								Monofocal Toric		Trifocal		Trifocal Toric
	Bi-Flex HB		Bi-Flex POB-MA		Bi-Flex HL		Bi-Flex PIL-MA		Bi-Flex T		Liberty	Liberty PIL-MA	Liberty Toric
	877FAB	877FABY	877PA	877PAY	677AB	677ABY	677P	677PY	677TA	677TAY	677MY	677PMY	677MTY
Type	Single-piece monofocal aspheric hydrophobic IOLs, clear and yellow, for implantation into the capsular bag		Single-piece monofocal aspheric hydrophobic IOLs, clear and yellow, preloaded in a single-use injector		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 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
Material	Hydrophobic acrylic with UV absorber	+ blue light filter	Hydrophobic acrylic 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	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
Optic design	Biconvex		Biconcave (-10.0 D-> -1.0 D) Biconvex (0.0 D -> 35.0 D)		Convex-Concave (-10.0 D-> -1.0 D) Biconvex (0.0 D -> 35.0 D)		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
Powers available	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)		-10.0 D -> -1.0 D (1.0 D steps) 0.0 D -> +30.0 D · (0.5 D steps) +31.0 D -> +45.0 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)		-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)		+8.0 D > +35.0 D (0.5 D steps)	+8.0 D > +35.0 D (0.5 D steps)	+8.0 D > +35.0 D (0.5 D steps)
Diffractive zone	-		-		-		-		-		Anterior surface (diameter 3.0 mm)	Anterior surface (diameter 3.0 mm)	Anterior surface (diameter 3.0 mm)
Cylinders available	-		-		-		-		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
Addition	-		-		-		-		-		+3.5 D	+3.5 D	+3.5 D
Dimensions 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		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
PCO protection	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)		360° Special Square Edge (patented)	360° Special Square Edge (patented)	360° Special Square Edge (patented)
Haptic angulation	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		0° - posterior vaulting fenestrated C-loop	0° - posterior vaulting fenestrated C-loop	0° - posterior vaulting fenestrated C-loop
Sterilization	Steam (shelf life 5 years after sterilization)		Steam (shelf life 30 months after sterilization)		Steam (shelf life 5 years after sterilization)		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)
Storage conditions	+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%)		+15 - +35°C (15% - 50%)	+15 - +35°C (15% - 50%)	+15 - +35°C (15% - 50%)

1stQ AddOn®

SML SCHARIOTH MACULA LENS

	1stQ AddOn				SML
	Refractive	Refractive Toric	Trifocal	Trifocal Toric	
	A46R	A45RT	A45RD2	A45DT	A45SML
Type	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
Material	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
Optic design	Convex-Concave		Convex-Concave		Special convex-concave bifocal optic for AMD visual correction
Powers available	-10.0 D -> +10.0 D (0.25 D steps)		-5.0 D -> +5.0 D (0.25 D steps)	-3.0 D -> +3.0 D (0.5 D steps)	0.0 D
Diffractive zone	-		Anterior surface (diameter 3.0 mm)		-
Cylinders available	-	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)	-
Addition	-		+3.0 D		+10.0 D
Dimensions 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
PCO protection	-		-		-
Haptic angulation	0° - 4 closed loops, straight		0° - 4 closed loops, straight		0° - 4 closed loops, straight
Sterilization	Steam		Steam		Steam
Storage conditions	+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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