## Knee Rebel Reliever® Custom and off-the-shelf PDAC APPROVED L1845 FOR THREE-MEASUREMENTS bracing featuring Thuasne's PDAC APPROVED L1852 OFF-THE-SHELF patented motion hinge Clinically proven to reduce pain and instability while improving technology and specialized knits.

walking capacity, muscle function and quality of life. The Rebel Reliever's patented LoadShifter mechanism and tool-less SnapLock technology gives patients power over their OA with the ability to increase corrective pressure for greater pain relief when they need it the most.

Recommended for: Moderate to severe medial or lateral osteoarthritis/ as well as patients who have OA in combination with ligament instability.

#### **Features**

- Rigid aircraft grade aluminum frame
- Patented adjustable Dual LoadShifters
- Thuasne's patented TM5+ hinge
- Exclusive Synergistic Suspension Strap
- · Rotation control tibial shell contour

#### **Options**

- Tibial shell length 6", 7" or 8"
- Compression/Suspension anti-migration package
- Anti-migration strap padding
- PCL strap
- Flexion stop kit (extension stop kit included)
- Powdercoat finish in a variety of colors (see page 73)

#### **Ordering Methods**

- OTS sizing
- Custom fit from three-measurements
- Custom from a cast or digital leg scan (see page 71)



Size	SM	MD	LG	XL	2XL
CIRCUM 6" Above Knee	15 ½ - 18 ½"	18 ½ – 21"	21 - 23 ½"	23 ½ - 25"	25 - 28"
M-L Width	3 ½ - 4"	4 - 4 1/2"	4 ½ - 5"	5 - 5 ½"	5 ½ - 6"
CIRCUM 6" Below Knee	12 ¼ - 13 ¾"	13 ¼ - 15"	14 ¼ - 15 ¾"	15 – 17"	17 – 19"



New! Strap Replacement Tabs

Now clinicians or patients can easily replace brace strapping at home or in the office.



**New! Segmented Interior Padding** 

Easily trim or modifiy interior shell padding for a customized and intimate fit.



New! Quick Release Clips\*

No need to fasten and unfasten straps, set your sizing once and use the clips for quick donning and doffing.





### Reliever, Reliever Air, & Reliever Air Lite PDAC APPROVED BASE CODE L1846

**Recommended for:** Moderate to severe medial or lateral osteoarthritis

and/or combination OA and ligament instability. Ideal for patients requiring soft tissue containment and maximum off loading.

#### **Features**

31

- · Custom wet lamination carbon graphite shells
- Greater shell-to-skin contact for maximum control
- Thuasne's patented TM5+ hinge
- Patented LoadShifter
- Exclusive Synergistic Suspension Strap
- · Anti-rotation tibial shell bolster (Reliever Air)

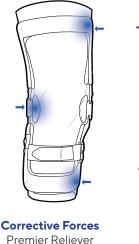
#### **Options**

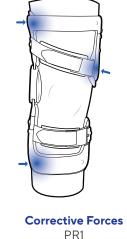
- Virtually any shell length or trimline
- Anti-migration strap padding
- Hinge material aluminum or stainless
- Full figure model for soft tissue containment
- Flexion stop kit (extension stop kit included)
- A variety of colors or fabric inlay (see page 73)

#### Ordering Method

• Custom from a cast or digital leg scan (see page 71)















TM5+ Hinge



#### **Premier Reliever & PR1** PDAC APPROVED BASE CODE L1846 FOR DUAL HINGE PDAC APPROVED BASE CODE L1844 FOR SINGLE HINGE

The Premier Reliever features a lightweight, low-profile custom carbon fiber design that provides comfortable unloading and pain relief through our patented LoadShifter technology.

The PR1 is a single upright custom carbon fiber brace that features an adjustable force buttress allowing for the ability to optimize counter force pressure. This model is ideal for lateral OA (no medial hinge).

Recommended for: Moderate to severe medial or lateral unicompartment osteoarthritis. The double upright model is recommended for combination OA and ligament instability. The single hinge PR1 is ideal for lateral OA.

#### **Features**

- Custom molded solid core carbon graphite shells
- Thuasne's patented TM5+ hinge
- Exclusive Synergistic Suspension Strap
- · Rotation control tibial shell contour

#### **Options**

- 7" or 8" upper and lower
- Anti-migration strap padding
- Stainless Steel TM5+ with no LoadShifter
- · Compression/Suspension anti-migration package in the double upright model
- Flexion stop kit (extension stop kit included)
- High gloss paint or powdercoat finish (see page 73)

#### Ordering Method

• Custom from a cast or digital leg scan (see page 71)



32

**Custom Specialty Orthoses** 

# **UniReliever**

### PDAC Approved L1843/L1851

Powerful OA correction in a brace that's lightweight, flexible, and easy to wear. The UniReliever from Thuasne USA is the universal OA bracing solution that's offering targeted relief and personalized fit, with trusted Thuasne hinge technology.

Featuring correction targets and individualized force offloading, the cross strap system with BOA dial technology makes it easy for patients to control their correction for greater pain relief.

**Recommended for:** conditions requiring mild to moderate osteoarthritis uni-compartmental offloading / meniscal cartilage repair / avascular necrosis / varus and valgus instability

- Consolidated cross strapping system with buttress designed to alleviate OA through even load disbursement
- Thuasne motion hinge technology with range of motion
- Flexible open cuffs for a comfortable and breathable fit
- · Antimicrobial and anti-migration padding with non-slip silicone webbing
- Formable uprights and trimmable straps
- BOA® fit system for precise force adjustment

· Universal sizing, left or right





## **Select Reliever** PDAC APPROVED L1843/L1851

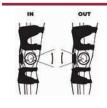
Give your patients the osteoarthritis relief they need with the Select Reliever from Thuasne USA. Improve patient compliance and manage inventory with this low profile, universal design perfect for medial and lateral OA.

#### **Features**

- Lightweight, low-profile, single upright OA brace.
- Quick release buckle system for easy-on and easy-off eliminates need for strap adjustments with every use.
- Maximized 3 points of leverage for medial compartment.
- Specially designed to correct medial and lateral OA with a lateral frame application.
- · Lateral uprights avoid opposite limb during gate, increasing comfort and patient compliance.

#### Ordering

#### **Hinge Side**



Left Lateral/Right Medial"

Right Lateral/Left Medial

### **Active Reliever** PDAC APPROVED L1843/1851

Recommended for: Unicompartment osteoarthritis / articular cartilage defect repair / meniscal cartilage repair or osteochondral defect repair.

- Breathable spacer fabric sleeve with posterior expandable Lycra panel
- Thuasne's patented TM5+ hinge
- · Corrective force strap applies maximum counterforce at midstance phase of gait
- Patient friendly quick release buckles
- · Anterior opening thigh section for easy-on and easy-off

#### **Options**

- Medial or lateral OA
- · Left or right leg

	Size	xs	SM	MD	LG	XL	2XL	3XL
1/ - 5.1	CIRCUM 6" Above Knee							29 - 32"
	CIRCUM 6" Below Knee	10 – 12"	12 – 14"	14 – 16"	16 – 18"	18 – 20"	20 - 22"	





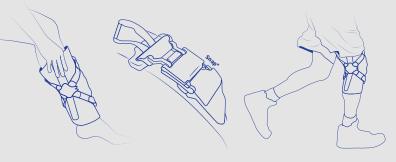
Foot & Ankle

### **Action Reliever** PDAC APPROVED L1843/L1851

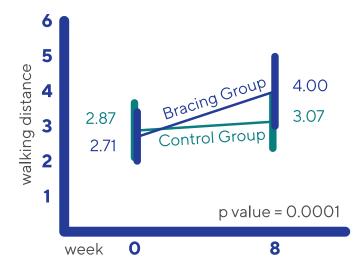
Relieve pain and inflammation while increasing mobility and improving quality of life. The Action Reliever uses compression and a patented three-point strapping system to create a comfortable and easy to use brace with an ultra-low-profile look and fit.

**Recommended for:** Mild to moderate medial or lateral osteoarthritis / simple application for active patients looking for a slim and comfortable OA bracing solution.

## Magnetic buckles for an easy apply and go.



Snap Slide Go



#### **Features**

- · Inflammation-reducing compression and alignment-enhancing stabilization.
- Three-point strapping system relieves pain and increases mobility. • Ultra-low-profile fit disappears
- under clothing
- Super slim magnetic buckles for an easy self-connect.

#### **Options**

- · Medial or lateral OA
- · Right or left leg

#### **Pain Reduction**

By wearing the brace, the pain on exertion was reduced and the pain-free distance extended.

Dr M. Benning, CTR, Version 1; 31-03-2017. Prospective randomized comparative study to demonstrate the medical benefits and ease of use during practical application of: Thuasne Action Reliever.

Size	1	2	3	4	5	6	7	8
CIRCUM 5 ½" Above Knee	15 - 16 1/4"	16 1⁄4 - 17 3⁄4"	17 <sup>3</sup> / <sub>4</sub> – 19"	19 - 20 ½"	20 - 21 ½"	21 - 22 ½"	22 - 24"	24 - 26 ½"
CIRCUM 4 ¾" Below Knee	11 – 12 ¼"	12 1/4 - 13 3/4"	13 ¾ - 15"	15 - 16 ½"	16 ½ - 17 ½"	17 ½ – 18 ½"	18 ½ – 20"	20 - 21 1/4"









**Custom** 

Fit

## **Color Options**

**Key Features** 



#### **Ligament Knee Orthosis**

Lightweight, cutting edge, and truly custom support for ligament injuries or following reconstructive knee surgery.\*

#### **OA Knee Orthosis**

Provides comfortable offloading and pain relief for mild to moderate medial or lateral unicompartmental osteoarthritis

#### **Features**

- 3D Printed custom ultralight knee brace weighs less than a 1lb.
- Latest 3D scanning technology provides a precise and intimate fit
- Multiple frame thickness and length options
- BOA fit system allows patient to achieve perfect fit and support while enhancing suspension
- Not recommended for severe medial or lateral OA or extreme varus/

\*Not recommended for impact sports, 350lb weight limit.



#### **BOA®** stiffness adjustment system

The integrated patented BOA dial system, recognized worldwide for its reliability and durability, allows the user to precisely adjust the fit of the brace. This allows the patient to achieve the perfect combination of of correction and support, while limiting migration.



# Matte Grey **Rebel Series Braces** PDAC APPROVED L1845 FOR THREE-MEASUREMENTS

The ultimate solution for recovery and protection, the Rebel Series line of knee braces combines high-grade aluminum with Thuasne USA's trusted core technologies. Featuring the patented TM5+ hinge, shell options ranging in strength and size, suspension technology, rotation control and a three-measurement custom fit, the Rebel Series is the perfect choice for a variety of patients and activity levels.

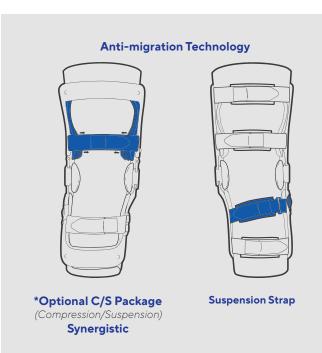
#### Recommended for: Ligament injuries and/or reconstructive knee surgery.

#### **Features**

· Rigid aircraft grade aluminum frame

PDAC APPROVED L1852 OFF-THE-SHELF

- Thuasne's patented TM5+ hinges
- Exclusive Synergistic Suspension Strap
- · Rotation control tibial shell contour



#### **Options**

- Available in three different frames
- > Rebel Lite (lowest weight, less rigid) 13" only
- > Rebel (ideal for most patients)
- > Rebel Pro (heavy users and contact sports)
- Anti-migration strap padding
- ACL or combined instabilities
- 6", 7", or 8" lower; 7" or 8" upper
- Compression/Suspension anti-migration package\*
- Flexion stop kit (extension stop kit included)
- Powdercoat finish in a variety of colors (see page 73)

#### Ordering Methods

- OTS sizing
- Custom fit from three-measurements
- Custom from a cast or digital leg scan (see page 71)

Size	XS	SM	MD	LG	XL	2XL	3XL	_*
CIRCUM 6" Above Knee	12 ½ - 15 ½"	15 ½ – 18 ½"	18 ½ – 21"	21 – 23 ½"	23 ½ - 25"	25 – 28"	28 - 31"	Rebel Pro
M-L Width	3 - 3 1/2"	3 ½ - 4"	4-41/2"	4 ½ - 5"	5 - 5 ½"	5 ½ - 6"	6 - 6 ½"	14"
CIRCUM 6" Below Knee	11 - 12 ½"	12 1/4 - 13 3/4"	13 ¼ - 15"	14 1/4 - 15 3/4"	15 - 17"	17 – 19"	19 – 21"	only









**Air Townsend** 













#### **Air Townsend & Air Lite** PDAC APPROVED CODE L1846

**Recommended for:** Patients who desire or require maximum control after experiencing a ligament injury and/or reconstructive knee surgery.

- Greater shell-to-skin contact for maximum control
- · Custom wet lamination carbon graphite shells
- Thuasne's patented TM5+ Hinge
- Exclusive Synergistic Suspension Strap
- · Anti-rotation tibial shell bolster available in the Air Townsend

#### **Options**

- Custom shell lengths
- Anti-migration strap padding
- Aluminum or stainless hinge material
- Special trim lines and full figure models
- Flexion stop kit (extension stop kit included)
- A variety of colors or fabric inlay (see page 73)

#### Ordering Method

• Custom from a cast or digital leg scan (see page 71)



### **Premier Series** PDAC APPROVED BASE CODE L1846

Recommended for: Ligament injuries and/or reconstructive knee surgery or prophylactic use.

#### **Features**

- Custom molded solid core carbon graphite shells
- Thuasne's patented TM5+ Hinge
- Exclusive Synergistic Suspension Strap
- · Rotation control tibial shell contour

#### **Options**

- ACL or combined instabilities
- Anti-migration strap padding
- 13, 14, 15- and 16-inch shell length
- Hinge material aluminum or stainless
- Compression/Suspension anti-migration package
- Flexion stop kit (extension stop kit included)
- High gloss paint or powdercoat finish (see page 73)

#### Ordering Method

• Custom from a cast or digital leg scan (see page 71)

#### Accessories available for use with a variety of knee braces



C/S Wrap PDAC Sugeested L2397 One Size Fits All

- Improves brace suspension
- Reduces migration
- Limits rotation
- Prevents chafing or irritation



The Spooner PDAC Sugeested L2800/L2795 One Size Fits All

- Controls patella instabilities
- · Ensures proper brace alignment
- · Soft universal J-shaped patella buttress
- Easily retrofits to most Thuasne USA rigid knee braces



**Neoprene Under Sleeve** PDAC Sugeested L2397 Sizing: XS, S, M, L, XL, 2XL

- Eliminates chafing
- Reduces chance of skin irritation
- Improves tissue containment
- · Increases comfort



**Under Sleeve (18 & 22")** PDAC Sugeested L2397 Sizing: XS, S, M, L, XL, 2XL

- Cotton material
- · Eliminates chafing
- Reduces chance of skin irritation
- Improves tissue containment and compression
- Increases comfort



**Sports Cover** Sizing: SM/MD, LG/XL

- Padding protects frame and hinge during activities
- Suitable for team or contact sports • Keeps hinges clear of dirt and debris
- Polyester material ensures a snug fit over brace







**Recommended for:** Severe instabilities requiring a locking orthosis.

#### Features

- Exclusive Synergistic Suspension Strap
- Anti-migration strap padding
- Anti-rotation tibial shell
- Compression/Suspension Package

#### Options

- 14, 15- and 16-inch shell length
- Locking position can be set at 0° or 5°
- Flexion stops at 30°, 60°, or 90°
- Extension Assist
- Powdercoat finish in a variety of colors (see page 73)

#### Ordering Method

- Custom fit from three-measurements
- Custom from a cast or digital leg scan (see page 71)

	Size	Λ3	SM	טויו	LG	ΛL
	CIRCUM 6" Above Knee	12 ½ - 15 ½"	15 ½ - 18 ½"	18 ½ – 21"	21 - 23 ½"	23 ½ - 25"
##	M-L Width	3 - 3 ½"	3 ½ - 4"	4 - 4 ½"	4 ½ - 5"	5 - 5 ½"
	CIRCUM 6" Below Knee	11 - 12 ½"	12 1/4 - 13 3/4"	13 ¼ - 15"	14 ¼ - 15 ¾"	15 – 17"





## **Motocross Series**

PDAC SUGEESTED L1846

Recommended for: Motocross riders who have experienced ligament injuries and/or reconstructive knee surgery or prophylactic use.

#### Features

- Custom wet lamination carbon graphite shells
- Thuasne's patented TM5+ hinge
- Exclusive Synergistic Suspension Strap available in the Motocross Air
- Second shell pad with no patella guard
- Anti-migration strap padding

#### Options

- Shell length (Motocross Air)
- Hinge material aluminum or stainless (Motocross Air)
- Flexion stop kit (extension stop kit included)
- A variety of colors or fabric inlay (Motocross Air) (see page 73)

#### Ordering Method

• Custom from a cast or digital leg scan (see page 71)



# EXOGUARD PDAC APPROVED L1846

**Recommended for:** Active patients returning to sports after ligament injury or reconstructive surgery or prophylactic use.

Combining the most advanced composite technology with Thuasne's tradition of perfect fit and function, EXOGUARD provides the ultimate protection for athletes.

#### **Features**

- Thuasne's patented TM5+ hinge
- Extremely durable yet lightweight structure
- Synergistic Suspension Strap
- Unique tibial shell design and vacuum lamination process for superior rotary control
- Superior durability in lateral impact testing

#### ptions

- Available with light weight, aircraft grade aluminum or high strength, stainless-steel hinge
- Flexion stop kit (extension stop kit included)
- HD lamination option designed for high impact sports

#### Ordering Method

• Custom from a cast or digital leg scan (see page 71)

43

## **ROM-R**

#### PDAC APPROVED CODE L1832/L1833

Recommended for: Patients who require post-operative fixation and/or range of motion control for post-injury stabilization.

#### **Features**

- ROM hinges with drop locks and tool-free adjustable flexion and extension settings
- Sturdy aluminum struts with extendable ends that telescope from 19" to 26" in  $\frac{1}{2}$ " increments
- · Comfortable and light weight
- Malleable paddles with individual cool pads can be contoured to the leg to achieve an intimate fit, increase stabilization and improve brace suspension
- Universal size, no measurement required
- · Easy to adjust

#### **Options**

• Full Shell pads available





Length adjustment







**ROMX Hinge** 



## **ROMX**

#### **RECOMMENDED L-CODE L1832/L1833**

**Recommended for:** Patients who require post-operative fixation and/or range of motion control for post-injury stabilization.

#### **Features**

- Rigid aluminum bars
- Hinges with adjustable extension & flexion limitations
- Drop lock mechanism
- Strap lock mechanism for the length adjustment
- · Universal left or right

#### **Options**

- ROMX extendable from 18" to 23"
- Shell pads (full, air, or breeze)
- Straps with hook and loop or buckle closures





Adjustments

#### **SafeLimb RECOMMENDED L-CODE L5450**

Providing comfort and security during post-surgical care, SafeLimb offers supportive protection of the residual limb in case of patient falls.

**Recommended for:** Post-operative Below Knee Amputation (BKA) patients. Offers limb protection after transtibial amputation. Prevention of knee flexion contracture following transtibial amputation.

#### **Features**

- Unique design, materials and adaptability enhances fit, suspension and patient compliance
- High density distal foam pad provides protection to the residual limb
- Length and contour of the medial/lateral bars can be adjusted to fit patient
- Anterior opening and anterior straps for ease of
- Unique "SupraPatellar Strap" prevents migration
- · Lightweight and breathable structure

Size	SM	MD	LG	XL	2XL
CIRCUM 6" Mid Patella	14 - 18 ¾"	18 ¾ - 20 ¾"	20 3/4 - 24 3/4"	24 3/4 - 29 1/2"	29 - 34"

**Full Pads Now Available** 





**Pull-on Sleeve Style** 

## **Hinge Adjustment**







Remove hinge cover to set extension/flexion stops.



**Open Wrap Style** 

### **GenuStart & GenuStart ROM PDAC APPROVED L1820 - ROM L1832/L1833**

Comfortable, versatile and easy to use, the GenuStart line of knee braces offers a variety of fit and treatment options designed for a superior patient experience. Available in two lengths, wrap or sleeve styles and two hinge options, the GenuStart is a powerful new solution featuring trusted Thuasne hinge technology.

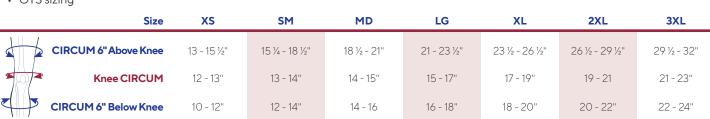
Recommended for: Functional treatment of the knee before or after surgery / rehabilitation following mild to moderate sprains of the cruciate and/or collateral ligaments / knee ligament injuries or ruptures / instability of the knee joint.

#### **Features**

- Easy to fit, adjust and adapt with sleeve or wrap styling, available in short and long lengths.
- Thuasne's patented TM5+ or TM5 hinge options replicate the natural movement of the knee.
- Alternating strap pattern prevents rotation and improves
- Open patella buttress for increased stability and support.
- Anatomically shaped medial/lateral aluminum stays for superior support.

#### **Ordering Methods**

OTS sizing





# Genu Dynastab® PDAC APPROVED L1810

Recommended for: Functional treatment of mild sprains and the resumption of sports activities after a sprain (mild, moderate, or severe)

- Dual hinge design provides stability
- Semi-rigid strapping gives extra support and prevents migration
- · Patented pull tabs for easy application and removal
- Universal left or right

 Size	1	2	3	4	5	6
Knee CIRCUM	12 ½ - 13 ¾"	13 ¾ - 15"	15 – 16 ½"	16 ½ – 18"	18 – 19 ½"	19 ½ - 21"

# Genu Ligaflex® ROM PDAC APPROVED L1832/L1833

**Recommended for:** Mild to moderate ligament injuries and instabilities /early stage OA / meniscus injuries and post-operative meniscal repairs.

#### **Features**

47

- 16" length with anterior closure
- Medical grade compression
- Easy to use Velcro tabs
- Low profile tension buckles
- TM5+ Hinge that replicates the natural movement of the knee
- Patented integrated anti-slip silicon knitting
- Tool-less hinge with easy to apply flexion and extension stops to restrict range of motion
- Contoured aluminum uprights to improve fit and comfort
- Universal left or right

Size	1	2	3	4	5	6
Knee CIRCUM	12 ½ - 13 ¾"	13 ¾ - 15"	15 - 16 ½"	16 ½ – 18"	18 – 19 ½"	19 ½ – 21"









technology Comfort, compression and breathability

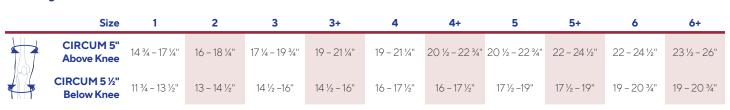
# Genu Ligaflex® PDAC APPROVED L1820

**Recommended for:** Resumption of non-contact sports and regular daily activities after mild or moderate knee injuries.

#### **Features**

- Anterior wrap closure model: ultra easy to fit with speed clips
- Medical grade compression
- Hyper-flexible knitted areas in the popliteal crease and proximal edge
- Semi-rounded straps for improved comfort
- Thuasne's patented TM5 Hinge technology
- Dual tab calf strap improves suspension
- Integrated anti-slip silicone in the thigh section
- Aluminum uprights provide lateral stability
- Double adjustable hook and loop tabs help optimize placement of uprights

# **Genu Ligaflex Anterior Closure**













### Patella Reliever (A) PDAC APPROVED L1810/L1812

Recommended for: Patello-femoral pain syndrome / lateral patellar subluxation / lateral patellar dislocations / patello-femoral arthritis / lateral patellar compression syndrome

- Medical grade compression
- Crescent shaped patella insert with lateral tracking system
- Distal strap for improved suspension
- Patented integrated antislip silicone knitting in the upper thigh
- Available in left and right

Size	1	2	3	4	5	6
Knee	12 ¼ - 13 ½"	13 ½ - 14 ½"	14 ½ - 15 ¾"	15 ¾ – 17"	17 – 18"	18 – 19 ¼"

#### Silistab Genu (B) **PDAC APPROVED A4467**

Recommended for: Maintenance / compression and support of the knee after mild or moderate knee strains or sprains

- Medical grade compression
- Patented silicone patella insert provides kneecap support and protects the patella tendon
- Breathable cotton fabric integrated posteriorly
- Flexible lateral stays give additional reinforcement
- · Anatomically shaped elastic knit for optimal thigh, calf, and popliteal comfort
- · Lateral silicone anti-slip system for better hold
- Universal left or right

Size	1	2	3	4	5	6
Knee	12 ½ - 13 ¾"	13 ¾ - 15"	15 – 16 ½"	16 ½ – 18"	18 – 19 ½"	19 ½ – 21"

# Ligastrap Genu (C) PDAC APPROVED A4466

**Recommended for:** Maintenance, compression and support of the knee after mild or moderate knee strains or sprains

- Medical grade compression
- Numbered figure eight strapping delivers extra stabilization
- · Anatomically shaped elastic knit for optimal thigh, calf, and popliteal comfort
- · Patented pull tabs for easy application and removal
- Universal left or right

Size	1	2	3	4	5	6
Knee	12 ½ - 13 ¾"	13 ¾ - 15"	15 – 16 ½"	16 ½ – 18"	18 – 19 ½"	19 ½ - 21"

#### Genuextrem (D) PDAC APPROVED A4467

Recommended for: Maintenance, compression and support of the knee after mild or moderate knee strains or sprains.

- Medical grade compression
- Flexible lateral stays for additional reinforcement
- · Anatomically shaped elastic knit for optimal thigh, calf, and popliteal comfort
- · Lateral silicone anti-slip system for better hold
- Patented pull tabs for easy application and removal
- Universal left or right

Size 1	2	3	4	5	6
Knee 12 ½ - 13 ¾"	13 ¾ - 15"	15 – 16 ½"	16 ½ – 18"	18 – 19 ½"	19 ½ – 21"