



160LL™, 161LL™ & 179™ Specialty Brackets



160LL Lock Lever Bracket

Standard Pack (10/box)		
Size	Anochrome (ANO)	Brass-look (BR)
6"	160LL ANO 6	—
8"	160LL ANO 8	160LL BR 8
10"	160LL ANO 10	160LL BR 10
12"	160LL ANO 12	160LL BR 12
14"	160LL ANO 14	—
16"	160LL ANO 16	160LL BR 16
18"	160LL ANO 18	—

160LL Series Lock Lever Bracket

Applications Ideal for high traffic displays. For use with 1" adjustment standards

Mounting Wall

Material 14-gauge steel

Finishes Compliant: Anochrome (ANO) & Brass-Look (BR): Long-lasting, corrosion resistant finish

- Features**
- Vertically adjustable in 1" increments
 - 14-gauge steel construction
 - Made in the USA
 - Available from open stock



161LL Heavy-Duty Lock Lever Bracket

Standard Pack (10/box)	
Size	Anochrome (ANO)
14"	161LL ANO 14
16"	161LL ANO 16
18"	161LL ANO 18
20"	161LL ANO 20
24"	161LL ANO 24

161LL Series Heavy-Duty Lock Lever Bracket

Applications Designed for commercial shelving applications. For heavy-duty use with KV 83 or 85 Standards

Mounting Wall

Material 14-gauge steel

Finishes Compliant: Anochrome (ANO): Long-lasting, corrosion resistant finish

- Features**
- Vertically adjustable in 1" increments
 - 14-gauge steel construction
 - Made in the USA
 - Available from open stock



179 Adjustable Angle Bracket

Standard Pack (10/box)	
Size	Anochrome (ANO)
10"	179 ANO 10
12"	179 ANO 12
14"	179 ANO 14

179 Series Adjustable Angle Bracket

Applications Ideal for display shelving. For use with 1" adjustable standards (80, 83 and 85 Series)

Mounting Wall

Material 14- and 16-gauge steel

Finishes Compliant: Anochrome (ANO): Long-lasting, corrosion resistant finish

- Features**
- Adjusts to 0° (level), 15°, 30°, or 45°
 - Vertically adjustable in 1" increments
 - 14- and 16-gauge steel construction
 - Made in the USA
 - Available from open stock

160LL™, 161LL™ & 179™ Specialty Brackets



160LL Lock Lever Bracket



161LL Heavy-Duty Lock Lever Bracket



179 Adjustable Slanting Bracket

1. Product Name

160LL Lock Lever Bracket. Ideal for high traffic displays. For use with 1" adjustment standards. **161LL Heavy-Duty Lock Lever Bracket.** Designed for commercial shelving applications. For use with KV 83 or 85 1" adjustment standards. **179 Adjustable Angle Bracket.** Ideal for display shelving. For use with 1" adjustment standards.

2. Manufacturer

Knape & Vogt® Manufacturing Company
2700 Oak Industrial Dr. NE, Grand Rapids, MI USA 49505-6026
616.459.3311 | www.kv.com

3. Product Description

Basic Use: 160LL Lock Lever Bracket are ideal for high traffic displays. For use with 1" adjustment standards.

161LL Heavy-Duty Lock Lever Brackets are designed for commercial shelving applications. For use with KV 83 or 85 1" adjustment standards.

179 Adjustable Slanting Brackets are ideal for display shelving. For use with 1" adjustment standards.

Composition and Materials:

- 160LL Lock Lever Bracket: 14-gauge cold rolled steel
- 161LL Heavy-Duty Lock Lever Bracket: 14-gauge cold rolled steel
- 179 Adjustable Slanting Bracket: 14- and 16-gauge cold rolled steel

Sizes:

- 160LL Lock Lever Bracket: 6", 8", 10", 12", 14", 16", 18"
- 161LL Heavy-Duty Lock Lever Bracket: 14", 16", 18", 20", 24"
- 179 Adjustable Slanting Bracket: 10", 12", 14"

Finishes: RoHS compliant: Anochrome (electro-plated steel). Brass-look (limited size).

4. Technical Data

Applicable Standards: Standards and brackets are tested to meet or exceed ANSI performance standards as established by BHMA in the Knape & Vogt (KV) recommended application.

These load limits are intended to be used as general guidelines only, and no warranty — expressed or implied — is made by Knape & Vogt.

Results were obtained by laboratory testing in accordance with ANSI/ BHMA A156.9-2003 performance standard. (Load ratings based on standards being mounted on 16" centers. Wider spacing will result in reduced load capacity.) Actual use conditions will typically result in lower load capacity than laboratory conditions.

Representative testing in a fully configured application is the only way to assure proper performance, durability, and safety.

The aforementioned shelf support load limit is intended as a guide only and not as a warranty. Actual load bearing capabilities depend upon the type of cabinet/wall material and use of appropriate shelf standard mounting fasteners, installation technique, shelf standard spacing, shelf size and construction.

Environmental Considerations:

Environment: Excessive humidity, salts, or other chemical agents can corrode the finish and attack metal or plastic components.

Fastening: Inadequate or incorrect fasteners can result in the standards pulling loose and causing damage.

Alignment: Improper standard and clip alignment can result in a system that is ineffective and unsafe.

5. Installation

For maximum loading capacity, standards should be mounted directly to wall studs, which are generally found at 16" intervals. (If standards will not be mounted to studs, use appropriate wall anchors.)

Use the recommended fasteners in all holes to properly secure the standard. Prior to drilling all holes, check to be sure that the standard is vertically level.

Place the bracket into the standard slots. Using a hammer handle or screwdriver handle, tap lightly near the bracket's base. The bracket will snap into place.

6. Availability and Cost

Availability: Knape & Vogt (KV) products are available from stocking distributors and through KV Representatives worldwide.

Cost: Current pricing is available from area KV Representatives. Please call for the nearest representative at: 800.253.1561.

7. Warranty

Limited Lifetime Warranty: Knape & Vogt offers its standard Limited Lifetime Warranty to the initial purchaser of commercial products. This warranty covers defects in materials and workmanship which occur during normal use, and the remedy is limited to repair or replacement of defective products, at KV's option. Certain types of defects and damage are excluded from warranty coverage, costs and expenses are not covered, and additional restrictions apply. A copy of the Limited Lifetime Warranty, with all warranty details, limitations and disclaimers, is available on the Customer Care Connection location at www.kv.com or from KV Customer Service, 2700 Oak Industrial Drive, Grand Rapids, MI 49505, 800.253.1561.

8. Maintenance

160 Lock Lever Brackets, 161 Heavy-Duty Lock Lever Brackets, and 179 Adjustable Slanting Brackets require no maintenance. Inspect for proper fit periodically and adjust when necessary. Replace as required or recommended by application.

9. Technical Services

Knape & Vogt and area representatives can assist with any application. For further information, or for the name of the representative nearest you, please call Knape & Vogt Customer Service: 800.253.1561 or visit our website at: www.kv.com.

10. Filing Systems

Additional product information, data sheets, application sheets, and a full catalog are available upon request from Knape & Vogt.



KNAPE & VOGT

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1.800.253.1561 | 616.459.3311
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BHMA Knape & Vogt shelving products follow the ANSI testing standards established by BHMA.

This and other KV literature is available for download at www.kv.com > Resource Library
Knape & Vogt reserves the right to change product specifications at any time without notice and without incurring responsibility for existing units. This information conforms to editorial style prescribed by The Construction Specifications Institute.
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