

1. Description



Quick Lock Hose Clamps are designed for efficient and rapid securing of hoses, particularly those with larger diameters. These clamps feature a specialized housing mechanism that allows the band to be quickly opened and adjusted to the approximate required diameter before final tensioning. Once the quick-lock mechanism is engaged, the clamp is then tightened using a conventional worm drive screw, ensuring a secure and reliable seal. The band is often perforated or features a continuous thread pattern, and is typically designed with smooth edges to prevent damage to the hose surface during installation and use. This type of clamp is ideal for applications where speed of assembly is important, or where clamps need to be frequently opened and closed.

2. Key Features

- **Rapid Installation and Removal:** The quick-lock housing allows for fast adjustment and disengagement of the band, significantly reducing assembly and disassembly time.
- **Wide Clamping Range:** A single clamp can often accommodate a broad range of hose diameters, offering flexibility and potentially reducing inventory needs.
- **Secure Sealing:** Once the quick-lock is engaged, the worm drive screw provides strong and reliable tightening for a secure seal.
- **Hose Protection:** Bands are typically designed with smooth or rolled edges to minimize abrasion and damage to the hose material.
- **Flexibility:** Suitable for a variety of hose materials and applications, especially effective on large diameter hoses.
- **Ease of Use:** The quick-lock feature simplifies the process of fitting the clamp, especially in restricted or hard-to-reach areas.
- **Reusable:** Designed to be opened and re-tightened multiple times while maintaining performance.

3. Technical Data

- **Type:** Worm Drive Hose Clamp with Quick-Lock Mechanism
- **Common Materials:**
 - **Band:** Stainless Steel (e.g., AISI 430, AISI 304, or equivalent grades for corrosion resistance).
 - **Housing:** Galvanized Steel or Stainless Steel (e.g., AISI 304 or equivalent).
 - **Screw:** Galvanized Steel or Stainless Steel.
 - **Typical Material Grade Combinations:**
 - **W2 Equivalent:** Stainless steel band, with galvanized steel housing and screw (offers good corrosion resistance for the band).
 - **W4 Equivalent:** All components (band, housing, screw) made from stainless steel (e.g., AISI 304 or similar) for higher overall corrosion resistance.
- **Band Design:** Can be perforated or feature a continuous embossed thread.
- **Band Widths (Common):** 9mm, 12mm, 18.0mm
- **Band Thickness (Typical):** 0.6mm, 0.8mm, 1.0mm
- **Clamping Diameter Range:**
 - Highly variable, designed to cover a wide spectrum. Common ranges start from approximately 25mm and can extend to very large diameters (e.g., 300mm, 600mm, 1000mm, or even up to 1300mm). Particularly suited for hose diameters greater than 100mm.
- **Screw Head Type:** Typically a hexagonal head, often with a slot for use with a flathead screwdriver or a hex driver. Common hex size is 7mm A/F.
- **Locking Mechanism:** Quick-lock housing (e.g., tilting, pivoting, or latching) combined with a worm gear screw for final tensioning.

4. Common Applications

- **HVAC Systems:** Attaching flexible ducting for air conditioning and ventilation.
- **Water Management:** Securing hoses in irrigation, drainage, and general water transfer.
- **Construction Industry:** Various hose and ducting connections on site.
- **Sanitary Applications:** Used in plumbing and waste systems.
- **Industrial Ducting:** Connecting large diameter hoses for dust extraction, fume removal, or material conveyance.
- **Agricultural Equipment:** Securing large hoses on various types of machinery.
- Applications requiring frequent disassembly/reassembly of hose connections.

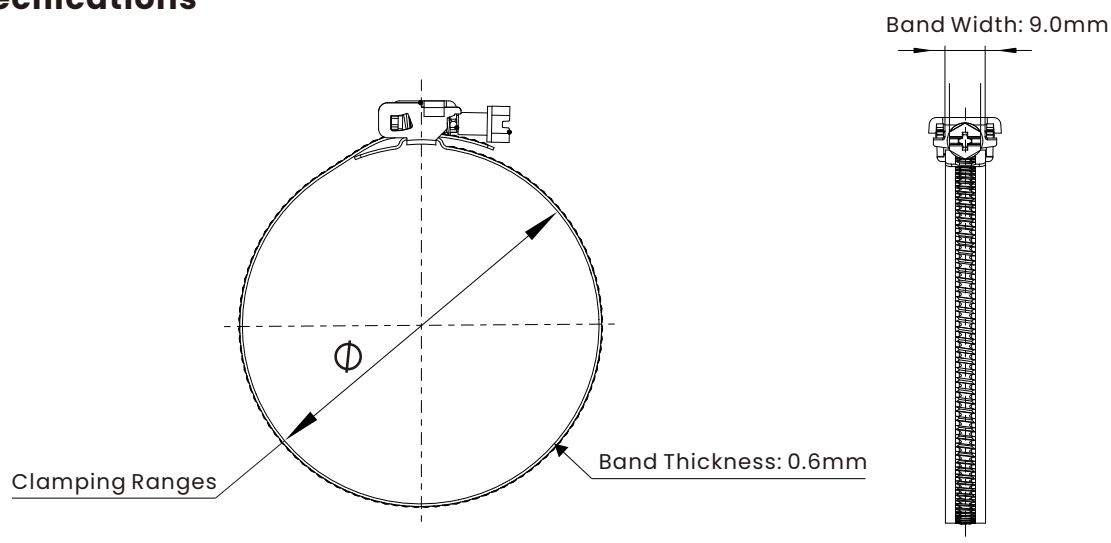
5. Installation Guidance

- **Open the Clamp:** Disengage the quick-lock mechanism on the housing (e.g., by lifting or tilting the screw assembly). This allows the band to be fully opened or its diameter significantly increased.
- **Position Around Hose:** Wrap the opened band around the hose that has been placed over the fitting.
- **Approximate Sizing:** Adjust the band to roughly the correct diameter needed to fit snugly around the hose.
- **Engage Quick-Lock:** Close and secure the quick-lock mechanism on the housing. Ensure it is properly latched or seated.
- **Final Tightening:** Use a suitable screwdriver or hex driver to tighten the worm screw, applying even pressure until the desired clamping force and a secure seal are achieved. Avoid over-tightening, which could damage the hose or the clamp.
- **To Remove:** Slightly loosen the worm screw to release tension, then disengage the quick-lock mechanism to open the clamp quickly.

6. Maintenance & Safety

- **Inspect Mechanism:** Periodically check the quick-lock mechanism (hinges, latches, pivots) and the worm screw for any signs of wear, damage, or corrosion.
- **Ensure Proper Engagement:** Always confirm that the quick-lock mechanism is fully and correctly engaged before applying final tension with the screw.
- **Material Suitability:** Select clamp materials appropriate for the operating environment (e.g., exposure to moisture, chemicals) to prevent premature corrosion.
- **Application Limits:** Use within the manufacturer's recommended pressure and temperature ratings.
- **Safety Equipment:** Wear gloves when handling metal clamps and safety glasses if there's any risk of flying debris during installation or removal.

7. Specifications

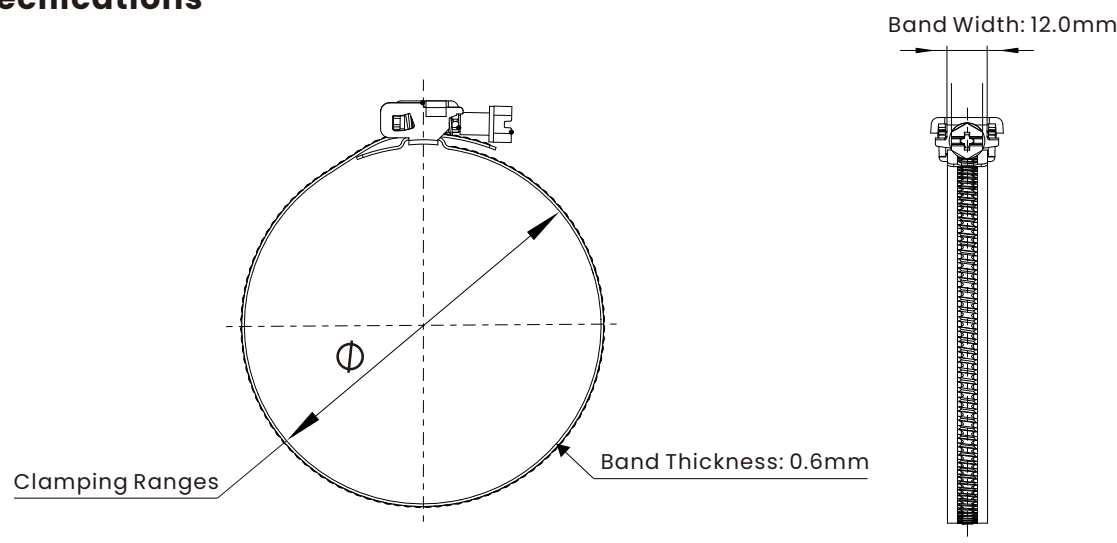


Band Width:9.0mm Band Thickness: 0.6mm

Code	Clamping Ranges		Code	Clamping Ranges	
	mm	inch		mm	inch
QLA40	25-40	1 - 1 9/16	QLA175	60-175	2 3/8 - 6 7/8
QLA45	25-45	1 - 1 3/4	QLA215	60-215	2 3/8 - 8 7/16
QLA50	32-50	1 1/4 - 2	QLA270	60-270	2 3/8 - 10 5/8
QLA60	40-60	1 9/16 - 2 3/8	QLA280	60-280	2 3/8 - 11
QLA70	50-70	2 - 2 3/4	QLA290	60-290	2 3/8 - 11 7/16
QLA80	60-80	2 3/8 - 3 1/8	QLA325	60-325	2 3/8 - 12 13/16
QLA90	60-90	2 3/8 - 3 9/16	QLA370	60-370	2 3/8 - 14 9/16
QLA100	60-100	2 3/8 - 3 15/16	QLA380	60-380	2 3/8 - 14 15/16
QLA110	60-110	2 3/8 - 4 5/16	QLA425	60-425	2 3/8 - 16 3/4
QLA125	60-125	2 3/8 - 4 15/16	QLA525	60-525	2 3/8 - 20 11/16
QLA35	60-135	2 3/8 - 5 5/16	QLA630	60-630	2 3/8 - 24 13/16
QLA145	60-145	2 3/8 - 5 11/16	QLA660	60-660	2 3/8 - 26
QLA165	60-165	2 3/8 - 6 1/2	QLA1050	60-1050	2 3/8 - 41 5/16
QLA170	60-170	2 3/8 - 6 11/16	QLA1300	60-1300	2 3/8 - 51 3/16

Please contact sales for customizing any other specific sizes.

8. Specifications

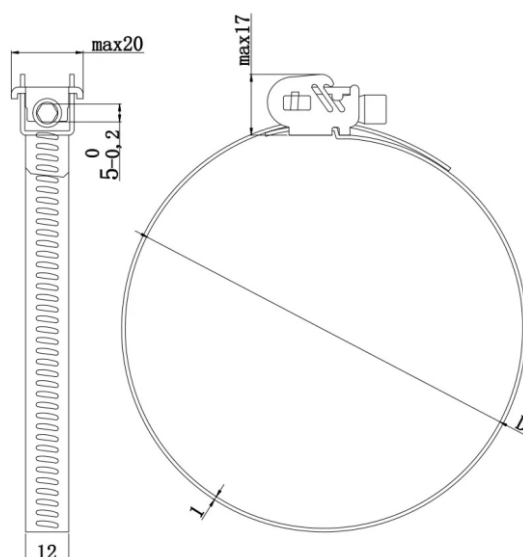


Band Width:12.0mm Band Thickness: 0.6mm

Code	Clamping Ranges		Code	Clamping Ranges	
	mm	inch		mm	inch
QLB70	50-70	2 - 2 3/4	QLB270	60-270	2 3/8 - 10 5/8
QLB80	60-80	2 3/8 - 3 1/8	QLB280	60-280	2 3/8 - 11
QLB90	60-90	2 3/8 - 3 9/16	QLB290	60-290	2 3/8 - 11 7/16
QLB100	60-100	2 3/8 - 3 15/16	QLB325	60-325	2 3/8 - 12 13/16
QLB110	60-110	2 3/8 - 4 5/16	QLB370	60-370	2 3/8 - 14 9/16
QLB125	60-125	2 3/8 - 4 15/16	QLB380	60-380	2 3/8 - 14 15/16
QLB35	60-135	2 3/8 - 5 5/16	QLB425	60-425	2 3/8 - 16 3/4
QLB145	60-145	2 3/8 - 5 11/16	QLB525	60-525	2 3/8 - 20 11/16
QLB165	60-165	2 3/8 - 6 1/2	QLB630	60-630	2 3/8 - 24 13/16
QLB170	60-170	2 3/8 - 6 11/16	QLB660	60-660	2 3/8 - 26
QLB175	60-175	2 3/8 - 6 7/8	QLB1050	60-1050	2 3/8 - 41 5/16
QLB215	60-215	2 3/8 - 8 7/16	QLB1300	60-1300	2 3/8 - 51 3/16

Please contact sales for customizing any other specific sizes.

9. Specifications



Band Width:12.0mm

Band Thickness: 0.8mm

Code	Max Bundle Diameter	
	mm	inch
QLC70	70	2.8
QLC80	80	3.1
QLC90	90	3.5
QLC100	100	4.0
QLC130	120	4.7
QLC150	150	5.9
QLC180	180	7.1
QLC200	200	7.9
QLC250	250	9.8
QLC300	300	11.8
QLC350	350	13.8
QLC400	400	15.7

Band Width:18.0mm

Band Thickness: 1.0mm

Code	Max Bundle Diameter	
	mm	inch
QLD80	80	3.1
QLD90	90	3.5
QLD100	100	4.0
QLD130	120	4.7
QLD150	150	5.9
QLD180	180	7.1
QLD200	200	7.9
QLD250	250	9.8
QLD300	300	11.8
QLD350	350	13.8
QLD400	400	15.7
QLD400	500	19.7

Please contact sales for customizing any other specific sizes.

Disclaimer: This datasheet provides general information typical for Quick Lock Hose Clamps. Specific technical data, materials, design of the quick-lock mechanism, and performance characteristics can vary significantly between different manufacturers and product lines. Always refer to the manufacturer's official documentation and specifications for the particular hose clamp being considered or used.