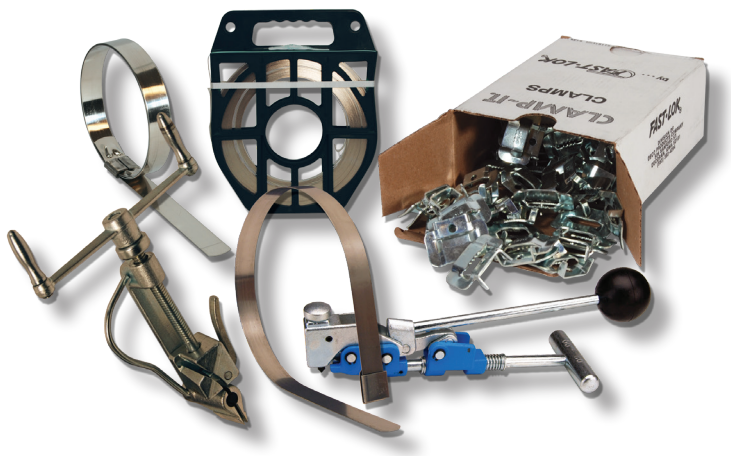
DIXON

The Right Connection®



Band Clamps & Accessories

dixonvalve.com

Customer Service
877.963.4966

Table of Contents

⚠ Safety ⚠

Dixon®'s couplings and retention devices are designed to work safely for their intended use. The selection of the proper hose, coupling and retention device, and the proper application of the coupling to the hose are of utmost importance.

Users must consider the size, temperature, application, media, pressure, and hose and coupling manufacturer's recommendations when selecting the proper hose assembly components. Dixon recommends that all hose assemblies be tested in accordance with the Association for Rubber Products Manufacturer's (ARPM) recommendations and be inspected regularly (before each use) to ensure that they are not damaged or have become loose. Visit ARPMINC.com for more information.

Where safety devices are integral to the coupling, they must be working and utilized. The use of supplementary safety devices such as safety clips or safety cables are recommended.

If any problem is detected, couplings must be removed from service immediately.

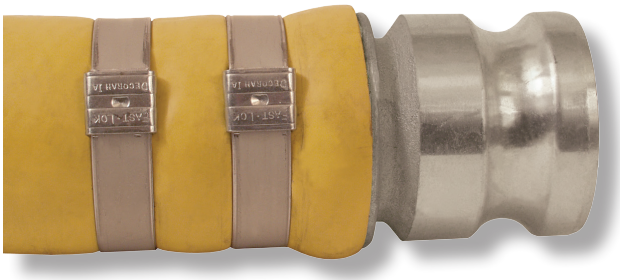
Dixon is available to consult, train and recommend the proper selection and application of all fittings we sell. We strongly recommend that distributors and end users make use of Dixon's Testing and Recommendation Services. Call 877.963.4966 or click dixonvalve.com to learn more.

Safety Recommendations

The use of band style clamps is a proven method of retaining hose couplings in industrial hose.

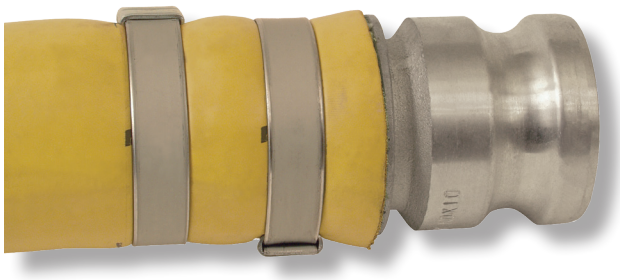
To achieve proper retention and sealing of the hose coupling in the hose, it is imperative that these clamps be installed correctly. Please follow the manufacturer's recommendations as to the proper selection and installation of band clamps.

When installing multiple clamps, the buckles must be offset around the hose, (reference page 8), eliminating the possibility of a straight line leak under the buckle area.



Improper installation of band clamps

Clamps installed with buckles in-line.



Proper installation of band clamps

Clamps installed with buckles equally rotated.

The first clamp should be installed just inside the mark on the hose furthermost from the hose end (reference page 11).

Leaving excess band material turned back over the buckle does not improve the performance of the clamp. In fact, a safety hazard develops from this practice by leaving sharp edged material exposed.

Reference pages 10 and 11 for selection and preparation guidelines.

F and FO-Series Clamps

Features

- Install with center punch tools F1, F38, F40, and F100, other manufacturer's punch style tools may also be used
- On stainless clamps, bands are 300-series stainless steel, buckles are 302-series stainless steel
- Double-wrapped
- Triple-punched
- Holds permanently
- Sold in package quantities only

The F-series double-wrapped metal band clamp is formed to a given diameter with a tailpiece through the buckle.

The FO clamp is open-ended and can be applied easily without sliding the clamp over the hose end.

Pre-formed F-Series

Band Width	Clamp I.D.	Band THK	Stainless Steel Part #	Pkg Qty	Band THK	Galvanized Steel Part #	Pkg Qty
3/8"	13/16"	.020"	FS3	100	.025"	F3	100
	1-3/8"	.020"	FS311	100	.025"	F311	100
5/8"	1"	.022"	FS4	100	.025"	F4	100
	1-1/4"	.022"	FS5	100	.025"	F5	100
	1-1/2"	.022"	FS6	100	.031"	F6	100
	1-3/4"	.022"	FS7	100	.031"	F7	100
	2"	.022"	FS8	100	.031"	F8	100
	2-1/4"	.022"	FS9	100	.031"	F9	100
	2-1/2"	.022"	FS10	50	.031"	F10	50
	2-3/4"	.022"	FS11	50	.031"	F11	50
	3"	.022"	FS12	50	.031"	F12	50
	3-1/2"	.022"	FS14	50	.031"	F14	50
	4"	.022"	FS16	25	.031"	F16	25
	4-1/2"	.022"	FS18	25	.031"	F18	25
	5"	.022"	FS20	25	.031"	F20	25
	6"	.022"	FS24	25	.031"	F24	25
	7"	.022"	FS28	25	.031"	F28	25
	8"	.022"	FS32	25	.031"	F32	25

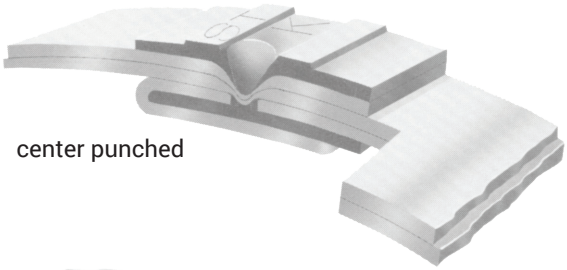
Open End FO-Series

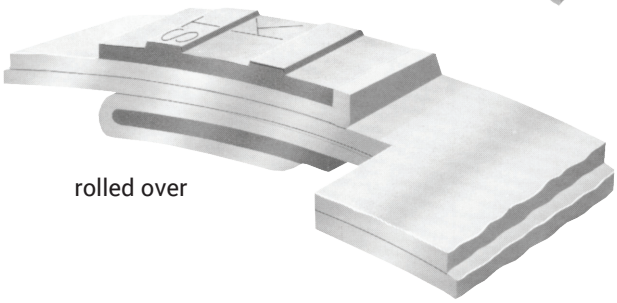
Band Width	Clamp I.D.	Band THK	Stainless Steel Part #	Pkg Qty	Band THK	Galvanized Steel Part #	Pkg Qty
3/8"	13/16"	.020"	FOS3	100	.025"	FO3	100
	1-3/8"	.020"	FOS311	100	.025"	FO311	100
	2"	.020"	FOS316	100	.025"	FO316	100
	3-1/8"	.020"	FOS325	100	.025"	FO325	100
5/8"	2"	.022"	FOS8	100	.025"	FO8	100
	2-1/2"	.022"	FOS10	50	.025"	FO10	50
	3"	.022"	FOS12	50	.031"	FO12	50
	3-1/2"	.022"	FOS14	50	.031"	FO14	50
	4"	.022"	FOS16	50	.031"	FO16	50
	4-1/2"	.022"	FOS18	50	.031"	FO18	50
	5"	.022"	FOS20	25	.031"	FO20	25
	6"	.022"	FOS24	25	.031"	FO24	25
	7"	.022"	FOS28	25	.031"	FO28	25
	8"	.022"	FOS32	25	.031"	FO32	25
	9"	.022"	---	---	.031"	FO36	25
	10"	.022"	---	---	.031"	FO40	25
	12"	.022"	---	---	.031"	FO48	25
	14"	.022"	---	---	.031"	FO56	10

K-Series Clamps

Features

- On stainless clamps, bands are 300-series stainless steel, buckles are 302-series stainless steel
- Designed to be slipped over the hose end before the fitting is inserted
- Can be center punched or rolled over, install with the center punch or roll over tools
  - Fast-Lok™ tools: F1, F40, and F100
  - Super Strap Tools: 51960 screw action with 51970 adapter
  - Band-It®: S100 air tool with S180 Jr. head, C-001 hand tool with J001 Jr. adapter, S350 air tool with S260 Jr. head, T-240 for 3/8" only or T-250 for 3/8" and 5/8", S-38 for 3/8" and 5/8", J-102 Pok-It for 3/8" only.
  - Punch-Lok™ tools: P-1000 for 3/8" and 5/8", P-3000 for 3/8" only, P-38 for 3/8" and 5/8"
- Sold in package quantities only





stainless steel

galvanized steel

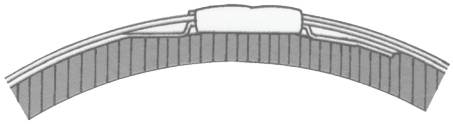
Band Width	Clamp I.D.	Band THK	Stainless Steel Part #	Pkg Qty	Band THK	Galvanized Steel Part #	Pkg Qty
3/8"	13/16"	.025"	KS3	100	.025"	K3	100
	1-3/8"	.025"	KS311	100	.025"	K311	100
5/8"	1"	.030"	KS4	100	.031"	K4	100
	1-1/4"	.030"	KS5	100	.031"	K5	100
	1-1/2"	.030"	KS6	100	.031"	K6	100
	1-3/4"	.030"	KS7	100	.031"	K7	100
	2"	.030"	KS8	100	.031"	K8	100
	2-1/4"	.030"	KS9	100	.031"	K9	100
	2-1/2"	.030"	KS10	50	.031"	K10	50
	2-3/4"	.030"	KS11	50	.031"	K11	50
	3"	.030"	KS12	50	.031"	K12	50
	3-1/2"	.030"	KS14	50	.031"	K14	50
	4"	.030"	KS16	25	.031"	K16	25
	4-1/2"	.030"	KS18	25	.031"	K18	25
	5"	.030"	KS20	25	.031"	K20	25
	6"	.030"	KS24	25	.031"	K24	25
	7"	.030"	KS28	25	.031"	K28	25
	8"	.030"	KS32	25	.031"	K32	25

Band Width	I.D.	Band THK	Stainless Steel Part #	Pkg Qty
3/4"	2"	.030	KS87501	100
	2-1/4"	.030	KS97501	100
	2-1/2"	.030	KS107501	50
	2-3/4"	.030	KS117501	50
	3"	.030	KS127501	50
	3-1/2"	.030	KS147501	50
	4"	.030	KS167501	25
	4-1/2"	.030	KS187501	25
	5"	.030	KS207501	25
	6"	.030	KS247501	25
	7"	.030	KS287501	25
	8"	.030	KS327501	25

Dixon® Smooth I.D. Clamps

Application
- For use with industrial hose made of stiffer, thinner thermoplastics

Features
- Provide a uniform, gap-free inside diameter, and strong holding power
- Install with roll over type clamp tools and most common band clamp tools such as the 51960 and 51970 band tools
- Sold in package quantities only



The smooth inside diameter produces a uniform clamping surface to prevent leak paths

stainless steel

galvanized steel

Band Width	Clamp I.D.	Band THK	201 Stainless Steel Part #	Pkg Qty	Galvanized Steel Part #	Pkg Qty
3/8"	13/16"	.025"	JS201	100	JS301	100
	1"	.025"	JS243	100	JS343	100
	1-3/8"	.025"	JS202	100	JS302	100
	2"	.025"	JS245	100	---	---
1/2"	1"	.030"	JS203	100	JS303	100
	1-1/4"	.030"	JS204	100	JS304	100
	2-3/4"	.030"	JS230	100	JS330[1]	100
5/8"	1-1/2"	.030"	JS205	100	JS305	100
	1-3/4"	.030"	JS206	100	JS306	100
	2"	.030"	JS207	100	JS307	100
	2-1/4"	.030"	JS208	100	JS308	100
	2-1/2"	.030"	JS209	100	JS309	100
3/4"	2-3/4"	.030"	JS210	50	---	---
	3"	.030"	JS211	50	JS311	50
	3-1/2"	.030"	JS212	50	JS312	50
	4"	.030"	JS213	25	JS313	25
	4-1/2"	.030"	JS214	25	JS314	25
	5"	.030"	JS215	25	JS315	25
	6"	.030"	JS216	25	---	---
	7"	.030"	JS218	25	---	---

[1] Stock quantities only

Dixon® Smooth I.D. Center Punch Clamps

Application
- For use in applications where conditions are highly corrosive

Features
- Double wrapped and locked with the conical punch of the F100 tool (reference page 16-17)
- Unique dimple design offers excellent sealing strength while maintaining radial compression
- Heavy buckle provides optimal holding power
- Ideal for thin wall hose
- Low profile
- Sold in package quantities only

Band Width	Clamp I.D.	Band THK	201 Stainless Steel Part #	Pkg Qty
5/8"	1"	.025"	HBC4S	100
	1-1/4"	.025"	HBC5S	100
	1-1/2"	.025"	HBC6S	100
	1-3/4"	.025"	HBC7S	100
	2"	.025"	HBC8S	100
	2-1/4"	.025"	HBC9S	100
	2-1/2"	.025"	HBC10S	50
	2-3/4"	.025"	HBC11S	50
	3"	.025"	HBC12S	50
	3-1/2"	.025"	HBC14S	50
	4"	.025"	HBC16S	25
	4-1/2"	.025"	HBC18S	25
	5"	.025"	HBC20S	25
	6"	.025"	HBC24S	25
	7"	.025"	HBC28S	25
	8"	.025"	HBC32S	25

Pow'r Tight® Clamps

Application
- Ideal for thick-walled and higher durometer hose
- Industries these clamps typically used in are agriculture, oil, gas, mining, construction, chemical processing, refining, and municipalities

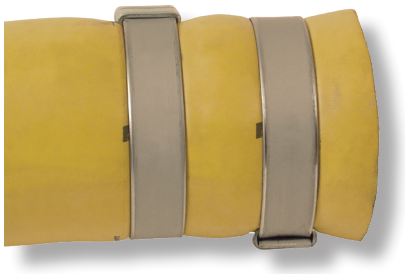
Size
- I.D. - 2" to 9"

Features
- Heavy-duty buckle and double wrapped to provide optimal holding power
- Smooth seal design for gap-free contact
- 3/4" band width
- 0.030" band thickness

Material
- 201 1/4 hard stainless steel for exceptional band strength

Size I.D.	Part #
2"	PHDS200
2-3/4"	PHDS275
3"	PHDS300
3-3/4"	PHDS375
4"	PHDS400
4-1/2"	PHDS450
5"	PHDS500
6"	PHDS600
6-1/2"	PHDS650
7"	PHDS700
8"	PHDS800
9"	PHDS900

Band & Buckles System



Features

- Install with 51960 band clamp tools
- Economical method of securing fittings to large diameter rubber hose (2" and above)
- Do not use strapping and buckles made of different metals, e.g. stainless steel strapping must be used with stainless steel buckles
- Sold in box quantities only

Band & Buckles System

Band Width	201 Stainless Steel Part #	Pkg Qty
3/8"	CS375	100
1/2"	CS500	100
5/8"	CS625	100
3/4"	CS750	100

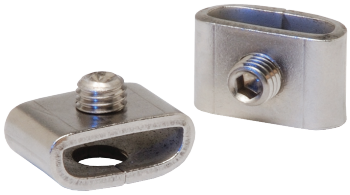
Strapping

Band Width	Band Thickness	Length	201 Stainless Steel Part #	Galvanized Steel Part #
3/8"	.025"	100'	SS375	SG375
1/2"	.031"	100'	SS500	SG500
5/8"	.031"	100'	SS625	SG625
3/4"	.031"	100'	SS750	SG750

Set Screw Buckles

Application
- Used in applications when a temporary clamp is desired, or space limitations do not allow for tool roll-over

Features
- Set screw locks band after tensioning
- Sold in box quantities only

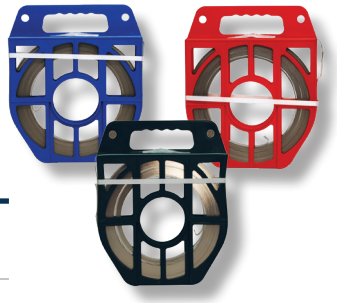


Band Width	201 Stainless Steel Part #	Pkg Qty
1/2"	SSB500	25
3/4"	SSB750[1]	25

[1] 3/4" buckle may be used with 5/8" band

Stainless Steel Banding with Tote

Features
- Resistant to moisture
- Built-in handle
- Full view of available band
- Easy to dispense and recoil



Band Width	Band Thickness	Length	Description	201 Stainless Steel Part #
1/2"	.030"	100'	plastic blue tote	ST204B
5/8"	.030"	100'	plastic green tote	ST205G
3/4"	.030"	100'	plastic red tote	ST206R

Clamp Selection

Pre-Formed Band Clamps

1. Measure the hose free O.D. (Outside Diameter) with a Dixon® diameter tape. Free O.D. is measured before the stem is inserted.
2. Select the clamp having an I.D. (Inside Diameter) as close to the measured hose O.D. but not less than 1/4". This is so that the clamps can be slid onto the hose before the couplings are inserted.

Example:	Hose O.D. is 2-11/16"	Use 3" I.D. clamp
	Hose O.D. is 2-7/8"	Use 3-1/2" I.D. clamp

Band and Buckle

Caution
Strapping edges can be extremely sharp. All necessary precautions should be taken to prevent the installer's hands from being cut during the assembly process. Do not use strapping and buckles made of different metals or of different widths together.

1. Measure the hose circumference with a standard tape measure.
2. Cut a piece of strapping that is 6" longer than two times the circumference.

Example: Hose circumference	13
Multiplied by two	x 2
Equals	26
Plus six inches	+6
Total length of straps needed	32"

3. Slide one end of the strap through the buckle loop. Make certain the 'ears' of the buckle are pointing up and are closest to the end of the strap.
4. Slide the buckle approximately 3" down the strap.
5. Using pliers, create a strap loop by bending approximately 1/2" of strap material down and under.
6. Slide the buckle into the strap loop.
7. Using pliers, crimp the strap loop tightly to the buckle. Do not squeeze on the buckle loop.
8. Lap the free end of the strap around the hose and through the buckle loop.
9. Again, lap the free end of the strap around hose and through the buckle loop.
10. Using pliers, pull the free end of the strap as tight as possible.
11. Bend the strap free end up and slightly over the buckle. This will prevent the strap from sliding out from under the buckle.

NOTE: Do not use strapping and buckles made of different metals.
Example: Stainless steel strapping must be used with stainless steel buckles.

Notes:
1. Proper tension is achieved when the outside diameter of the band clamp is even with or slightly below the diameter of the hose. This is a rule of thumb measurement of proper clamp tension and can vary from one stem/hose combination to another. The installer's experience with a particular stem/hose combination will tell them when the clamp is properly tensioned.
2. Bend excess clamp tail away from tool handles to avoid being cut by sharp edges.
3. When multiple clamps are used, clamp buckles must be offset to prevent a leak path.
   2 Clamps - Buckles at 180°. 3 Clamps - Buckles at 120°. 4 Clamps - Buckles at 90°.

Preparing the Hose for Assembly

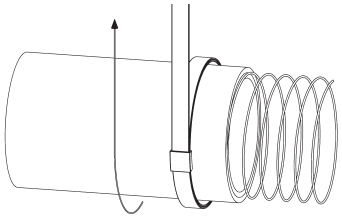
Cut Hose to Length

Cut Ends Square (Lack of a square cut on the hose end can reduce coupling retention.)

For hoses having a helical wire:

1. Determine the direction the helical wire is pointing in. This is necessary as proper installation of pre-formed band clamps and bands, and buckles rely upon proper orientation of the clamp tail with the helical wire.

See illustration below.



2. If helical wire is not used for static grounding, trim the wire back into the carcass of the hose. This is to prevent injury during use of the assembly.

Clean Hose I.D.

Mark the hose for proper clamp placement
All styles of band clamps (both pre-formed and bands & buckles) require proper placement to achieve maximum retention. Place marks on hose for proper clamp placement as follows:

1. Determine shank serration style
   a. Symmetrical (all serrations the same size), e.g., King combination nipples, suction couplings, etc.
   b. Pronounced (some serrations are higher than the other serrations), e.g., Cam and groove, King nipples, etc.
2. Symmetrical Shanks
   a. Determine number of clamps required. Reference Dixon®'s Pressure Chart for correct number of clamps to install based on coupling style and size.
   b. Place the shank next to the hose to simulate the shank being fully inserted.
   c. Place a mark on the hose that corresponds with the point of the last serration.
   d. When multiple clamps are required, place corresponding number of marks equally spaced from one another and the hose end.
   e. Do not place a clamp directly on the hose end. Leave 1/4" to 3/8" space between the hose end and the last clamp installed.
3. Pronounce shanks
   a. Place the shank next to the hose to simulate the shank being fully inserted.
   b. Place a mark on the hose that corresponds with the point of each pronounced serration.
   c. The correct number of clamps to install will be equal to the number of marks placed on the hose.

Static Grounding
When required, proper static grounding is essential. Typically, this is accomplished by bending the built-in static wire or the helical wire (or wires) inside the hose I.D. so that it contacts the metal coupling. Caution should be taken to bend in no more wire than necessary. Usually 1/2" of wire bent in is sufficient. Other methods of static grounding are available and may be required due to hose type, hose manufacturer or style of coupling to be installed. Always contact the hose manufacturer for proper static grounding techniques for that particular hose. Improper static grounding can lead to fire, explosions, reduced assembly life, damage to property, and injury or death to personnel.

Seal the Hose Ends
At each end of the hose, the reinforcement is exposed to the outside elements. This exposure can lead to premature assembly failure especially if the end of the assembly is laying in a puddle of water or puddle of product. If the assembly is to be subjected to these conditions, the hose ends must be sealed. Typically, rubber, cement, or shellac is used. Contact the hose manufacturer for recommendations. Wire reinforced hoses can corrode to the point of failure near the clamp. Textile or fabric reinforced hoses can wick water or product to anywhere in the length of the hose and exit the cover at the weakest spot.

Coupling Lubricant
The coupling shank and the hose I.D. are to be lubricated prior to coupling insertion. Dixon recommends using Dixon Coupling Lubricant (DCL10 1 liter, DCL80 4 liters). Do not use hand soap, oil, grease, WD40, silicone spray, or other substances that may attack the tube material and/or reduce coupling retention.

Installation Tools

Clamp Cutter

Part #
F550

Band & Buckle Clamping Tools

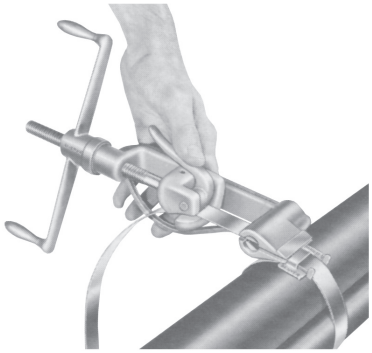
Description	Part #
clamping tool for band and buckles	51960

Application
- For 51960 tool above

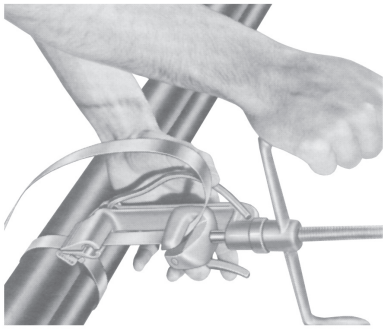
Description	Part #
adapter for 51960 tool to install preformed clamps	51970

Operating Instructions for the 51960 Installation Tool

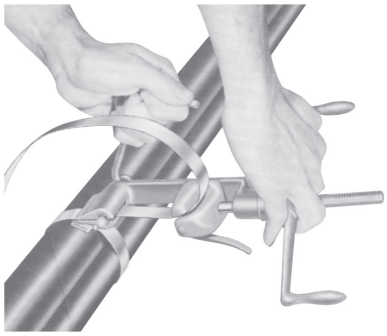
1
Hold the tool in the left hand so that the cutter bail is on the bottom and the pulling dog lever is on top. Slide the strap tail through the slot on the right side of the tool.



2
Press down on pulling-dog lever and rotate handle to begin tightening. Tighten strap to desired tension. Simultaneously relieve some tension while pushing the tool away as far as possible.



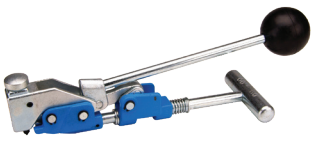
3
Pull the cutter bail to cut the strap tail. Tap the buckle ears down to hold the cut strap tail in place.



Operating Instructions for the 51960 with 51970 Roll-Over Attachment

1. Slide the 51970 Roll - over the attachment onto the head of the 51960 Screw - action tool.
2. With the handle of 51970 facing the installer, place the 51960 in a vise and tighten.
3. Slide the clamp tail through the slot on the 51970.
4. Press down on pulling-dog lever and rotate handle to begin tightening.
5. Tighten clamp to desired tension.
6. Simultaneously relieve some tension while rolling the hose towards cutter.
7. When the clamp buckle engages the cutter, pull the handle.

Part Identification for the F1 Installation Tool



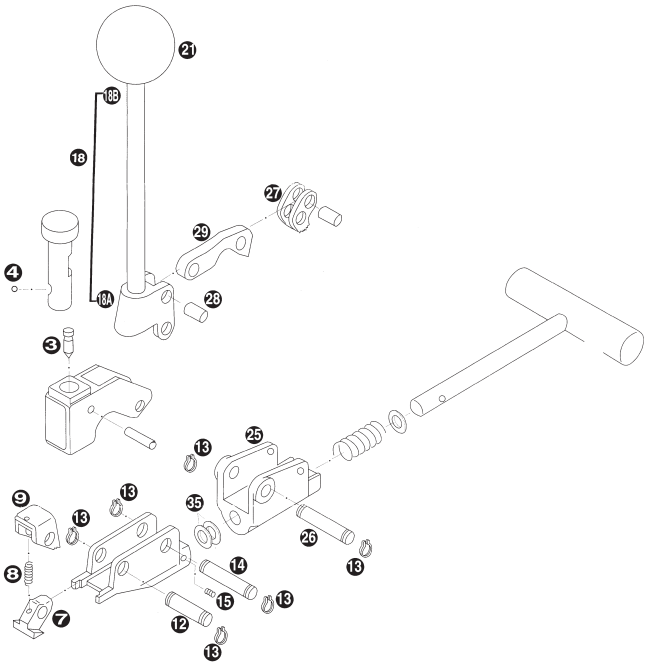
Application
- For application of 5/8" band clamps

Feature
- Imported

Material
- Steel

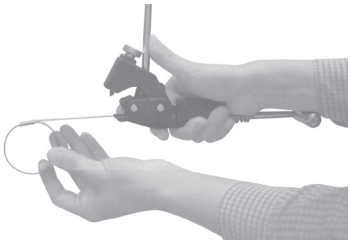
Specifications
- Weight: 3.15 lbs.
- Length: 12"

Part #
F1

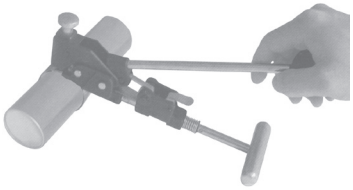


Qty Per Tool	Description	Item #	Part #
1	punch	3	FI202
1	retaining ball	4	FI205
1	pusher nose	7	FI206
1	spring	8	F209
1	holding dog	9	F207
1	holding dog pin	12	F233
6	retaining ring	13	F232
1	head pivot pin	14	FI233
1	set screw	15	FI250
1	tension handle assembly	18	FA220I
1	tension handle shaft only	18B	FA222
1	handle ball	21	FA221
1	slide	25	FA228
1	pulling dog pin	26	F233
1	pulling dog	27	FI214
1	link	29	F211
1	handle	32B	FA233

Operating Instructions for the F1 Installation Tool

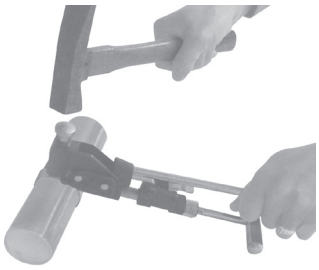


1
Push tension handle all the way forward. Insert the clamp tail and push all the way into tool.

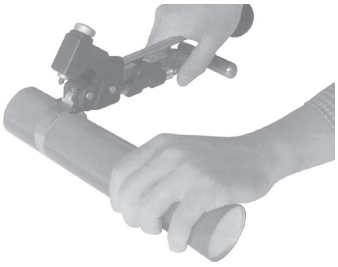


2
Tighten the clamp with short downward strokes. After tightening a clamp, the tension handle should be in the down position.

If clamp tension needs to be released before locking, move the slide back against spring. This raises the pulling dog.



3
Holding the tension handle down, lock the clamp by hitting the punch at least twice with the mallet.



4
Hold the hose and raise the tool back and forth to break off the clamp tail. Remove from the tool by operating tension handle. When tail has moved through holding dog, raise tension handle and pull tail free.

Part Identification for the F100 Installation Tool

Application
- For application of 3/8" and 5/8" band clamps

Feature
- Made in the USA

Material
- Steel

Specifications
- Weight: 2.86 lbs.
- Length: 13"

Part #
F100


FX-201


F-202


F-233


F-206


F-207

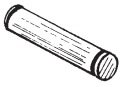

F-208

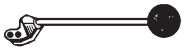

F-209


F-212


FY-214


FY-217


F-233


FA-220


F-229HT


F-242


F-232


F-235

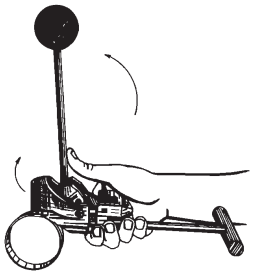
Qty Per Tool	Description	Part #
1	punch head	FX-201
1	punch	F-202
1	punch head pin	F-233
1	pusher nose	F-206
1	holding dog	F-207
1	pusher nose pin	F-208
1	holding dog spring	F-209
1	puller link pin	F-212
1	pulling dog	FY-214
1	pulling dog spring	FY-217
1	pulling dog pin	F-233
1	ball handle assembly	FA-220
1	3/8" clamp adapter	F-229HT
3	retaining rings	F-242
1	crescent ring	F-232
1	punch retainer ring	F-235

NOTE: Illustrations are not in correct proportion to one another.

Operating Instructions for the F100 Installation Tool

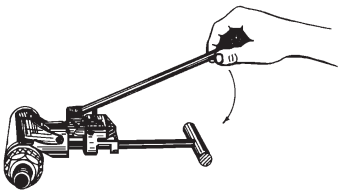
1

Hold the tool as illustrated, with the ball handle fully forward. Then, insert the clamp and entirely push the end into the tool until the lock is held in place by the pusher housing jaws.



2

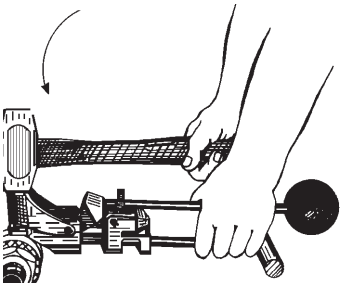
Slip the hose with the nipple inserted into the clamp and locate the clamp directly over the groove - (position of groove can be with chalk on the hose); tighten the clamp with downward strokes of the ball handle, using short strokes after initial slack is removed so that ball handle finishes in the downward position.



3

Hold the tool with clamp resting on Vee block, vise or another solid surface. Swing punch head down against lock and strike hard with mallet; this locks the clamp. Raise punch head to free punch. Hold hose to keep from turning and raise both handles of tool up together which will break off band at lock.

(Optional) Smooth (peen) the corners of the lock using a mallet. To remove the cut end from the tool, use the ball handle to work it through the holding dog. Then press and release the lever to pull the strip out toward the rear of the tool.

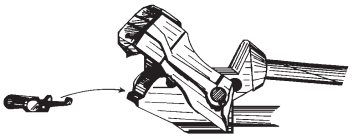


Instructions for using adapter to apply 3/8" width clamps

4

The F100 tool described above, as shipped, is ready for use in applying all sizes of 5/8" standard and heavy duty hose clamps. To apply the 3/8" wide clamps use the adapter (F-229).

To insert the adapter, hold the tool with the punch head (FX-201) raised as shown and place the adapter under the pusher nose with the bent ends up and push back until the shoulder rests against the front of the pusher nose. The F-229 clamp adapter under the pusher nose (F-206) centers the narrower clamp in the tool.



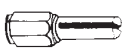
Part Identification for the F38 Installation Tool

Applications
- For application of punch type 3/8" and 5/8" band clamps
- For use with F-series only

Material
- Steel

Specifications
- Weight: .82 lbs.
- Length: 10"

Part #
F38



FF-290

FA-285

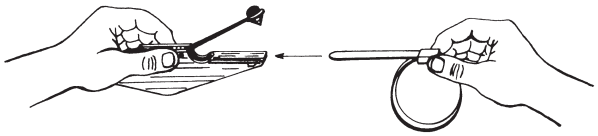
F-292

NOTE: Illustrations are not in correct proportion to one another.

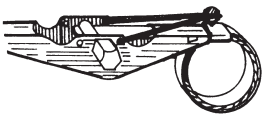
Qty Per Tool	Description	Part #
1	frame	FA-285
1	winder	FF-290
2	retaining ring	F-292

Operating Instructions for the F38 Installation Tool

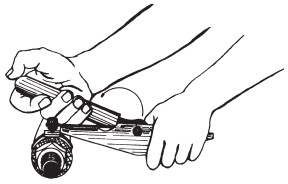
1
Push the end of clamp completely into the slotted end of the clamp tool. For the 3/8" width clamp use the narrow slotted end.



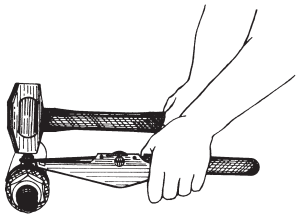
2
Push winder into the frame with the slot engaging the clamp end. Ratchet wrench attached to winder.



3
Push forward with sufficient strokes until desired tension is achieved.

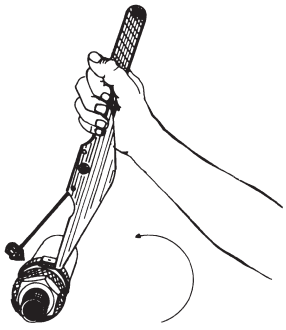


4
Push punch down on lock and while holding tension with wrench, strike firm blow with hammer, thus locking the clamp.



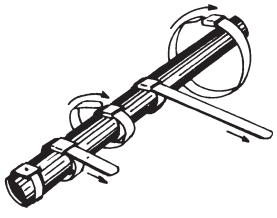
5
Raise the punch and while keeping tension with the wrench, swing the frame forward and up against the edge of the lock, snapping off the tail piece.

(Optional) Peen the corners of the lock smooth. Twist up tail and when it is free, pull out of winder. To move a punch from one end to the other, squeeze the legs of the punch holder and reengage in the holes at the opposite end.



6
To utilize open end clamps, wrap and lace the clamp twice, threading each wrap through the lock, then apply the clamp-tool and use as described above.

NOTE: On applications such as glass, radiator spud, or objects where punching could be damaging, pull tension - raise clamp tool to bend strip at right angle - remove winder - clip off 1/4" above the bend - fold end, close over lock.



Part Identification for the F40 Installation Tool

Application
- For application of 3/8" and 5/8" band clamps

Material
- Steel

Specifications
- Weight: 1.53 lbs.
- Length: 11"

Part #
F40

FF-290

F-292

FCA-289

E-293

E-295

FC-229

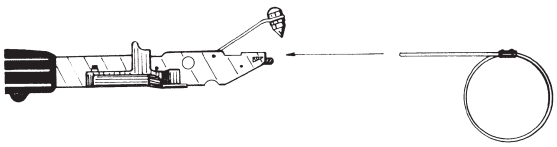
641104

Qty Per Tool	Description	Part #
1	punch and holder	FCA-289
1	winder	FF-290
2	retaining ring	F-292
1	lever	E-293
1	3/8" clamp adapter	FC-229
1	spring	641104
1	ball	E-295

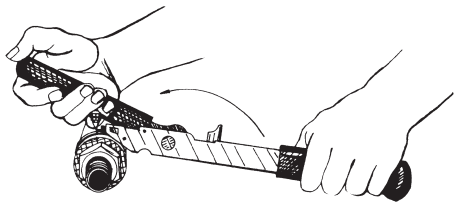
NOTE: Illustrations are not in correct proportion to one another.

Operating Instructions for the F40 Installation Tool

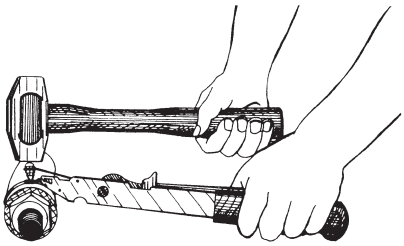
1
Push the end of the clamp into the slotted end of the clamp tool. Rotate the ratchet wrench to engage the clamp end in the slot in the winder.



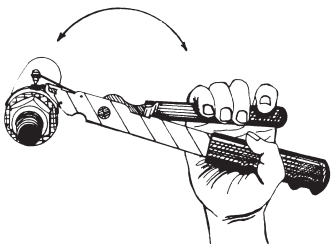
2
Push the ratchet wrench forward with sufficient strokes until desired tension is achieved.



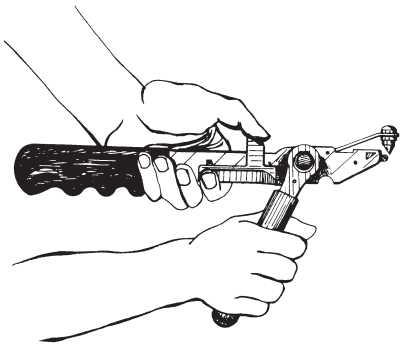
3
Grip the ratchet wrench and tool together. The clamp tension is secured by applying downward pressure to the lock and delivering a solid blow with a hammer.



4
Raise the punch and while keeping tension with the wrench, swing the frame forward and up against the edge of the lock, snapping off the tail piece.



5
To remove the tail piece, rotate the wrench until the tail is free of the tool's slot. Slide the lever with your thumb to release the winder and wrench from the tool.



6
For application of 3/8" wide clamps, swing 3/8" adapter to forward position and follow steps one through five.

Notes

Limited Warranty

DIXON VALVE AND COUPLING COMPANY, LLC (herein called "Dixon") warrants the products described herein and manufactured by Dixon to be free from defects in material and workmanship for a period of one (1) year from date of shipment by Dixon under normal use and service. Its sole obligation under this warranty being limited to repairing or replacing, as hereinafter provided, at its option any product found to Dixon's satisfaction to be defective upon examination by it, provided that such product shall be returned for inspection to Dixon's factory within three (3) months after discovery of the defect. The repair or replacement of defective products will be made without charge for parts or labor. This warranty shall not apply to: (a) parts or products not manufactured by Dixon, the warranty of such items being limited to the actual warranty extended to Dixon by its supplier; (b) any product that has been subject to abuse, negligence, accident, or misapplication; (c) any product altered or repaired by others than Dixon; and (d) to normal maintenance services and the replacement of service items (such as washers, gaskets, and lubricants) made in connection with such services. To the extent permitted by law, this limited warranty shall extend only to the buyer and any other person reasonably expected to use or consume the goods who is injured in person by any breach of the warranty. No action may be brought against Dixon for an alleged breach of warranty unless such action is instituted within one (1) year from the date the cause of action accrues. This limited warranty shall be construed and enforced to the fullest extent allowable by applicable law.

Other than the obligation of Dixon set forth herein, Dixon disclaims all warranties, express or implied, including but not limited to any implied warranties of merchantability or fitness for a particular purpose, and any other obligation or liability. The foregoing constitutes Dixon's sole obligation with respect to damages, whether direct, incidental, or consequential, resulting from the use or performance of the product.

Some products and sizes may be discontinued when stock is depleted or may require a minimum quantity for ordering.

Limits of Liability

This brochure is intended as a product offering. It is not intended to be a user or technical manual. Information in this brochure is subject to change without notice. All users and distributors of products sold through this brochure should contact Dixon with questions of use, compatibilities, coupling procedures, and life of product. Our full-time engineering and test staff are always available to recommend uses and to assist distributors and users with any questions.

Safety

Safety logos, which appear throughout our catalog, are used as a reminder that the user should carefully review for the appropriateness of the product for the media, application, and environment in which it will be used.

NOTE: Because of the health hazards associated with contamination and lead content in drinking water systems, Dixon couplings, unless otherwise specifically approved, are not recommended for potable water service and should not be used in applications where drinking water will contact the wetted surfaces of the coupling.

All Dixon products are shipped in cartons with the following warning:
"**WARNING:** This product contains lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm."

Trademark

Band-It® is a registered trademark of Band-It Company and Corporation.
Pow'r Tight® is a registered trademark of Ideal Clamp Products, Inc.
Punch-Lok™ is a trademark of Verco Manufacturing, Inc.
Fast-Lok™ is a trademark of CBC Industries, Inc.
All other trademarks appearing in this brochure are the property of their respective owners.

Copyright

NOTE: Reasonable care has been taken in preparing this catalog. Dixon Valve & Coupling Company, LLC reserves the right to make corrections.

The Right Connection®

Dixon

1 Dixon Square
Chestertown, MD 21620
Phone: 877.963.4966
Fax: 800.283.4966
Email: sales@dixonvalve.com

connect with us on

Printed in the USA

BANDCLAMPS_123